NEW BRUNSWICK TRAIN STATION

ELEVATOR UPGRADES

FEDERAL PROJECT No.: DEM-D00S (006)
NEW BRUNSWICK, NJ

100% SUBMISSION
JUNE 09, 2016
NEW BRUNSWICK STATION
ELEVATOR UPGRADES
WESTBOUND ELEVATOR
DEMOLITION ELEVATIONS
1. GENERAL

1.1 CODE AND SPECIFICATIONS:

1.1.1 Review and understand the applicable codes and specifications, including all referenced documents and drawings.

1.1.2 Ensure compliance with all applicable codes and specifications.

1.1.3 Review and understand the project scope and specifications.

1.2 CONSTRUCTION:

1.2.1 Set up and maintain a construction site that is safe and in compliance with all applicable codes and specifications.

2. CONCRETE

2.1 CONCRETE CEMENT:

2.1.1 CEMENT: Type I, Class C, 2,000 psi slump, 2,000 psi compressive strength.

2.1.2 Aggregates: 3/4" max. size, clean, free of contaminants.

2.2 CONCRETE PLACING:

2.2.1 Placing: Placed in layers not exceeding 24" thick, with proper compaction.

2.2.2 Cure: Cured for a minimum of 7 days, covered with plastic sheeting.

3. MASONRY

3.1 MASONRY BLOCKS:

3.1.1 Blocks: Type A, 8" x 4" x 2", 2,000 psi compressive strength.

3.1.2 Mortar: Type M, 500 psi compressive strength.

3.2 MASONRY LAYING:

3.2.1 Lay blocks in a bed of mortar, allowing for proper mortar joints.

3.2.2 mortar joints: 1/4" to 3/8" thick, all mortar joints shall be grouted.

4. STRUCTURAL STEEL

4.1 STEEL STANDARDS:

4.1.1 Steel: ASTM A36, 50 ksi yield strength.

4.1.2 Paint: High-visibility red, two coats.

4.2 STRUCTURAL DESIGN:

4.2.1 Design: Designed by a licensed structural engineer.

4.2.2 Revise: Revise plans as necessary to comply with all applicable codes and specifications.

5. GENERAL NOTES

5.1 PROVIDE AND INSTALL ALL NECESSARY SUPPORTS FOR CURTAIN WALL SYSTEM, INCLUDING BUT NOT LIMITED TO:

5.2 SETTING AND ENSURING THAT THE CURTAIN WALL SYSTEM IS LEVEL, SQUARE, AND TRUE.

5.3 PROVIDE ALL NECESSARY SUPPORTS FOR CURTAIN WALL SYSTEM, INCLUDING BUT NOT LIMITED TO:

5.4 PROVIDE ALL NECESSARY SUPPORTS FOR CURTAIN WALL SYSTEM, INCLUDING BUT NOT LIMITED TO:

5.5 PROVIDE ALL NECESSARY SUPPORTS FOR CURTAIN WALL SYSTEM, INCLUDING BUT NOT LIMITED TO:

5.6 PROVIDE ALL NECESSARY SUPPORTS FOR CURTAIN WALL SYSTEM, INCLUDING BUT NOT LIMITED TO:

6. COIL-FORMED FRAMES

6.1 INSTALLATION:

6.1.1 Install coil-formed frames in accordance with the manufacturer's instructions.

6.1.2 Complete all necessary connections and supports as required.

7. FOUNDATION

7.1 FLOORING:

7.1.1 Install flooring in accordance with the manufacturer's instructions.

7.1.2 Complete all necessary connections and supports as required.

8. ELEVATOR UPGRADES

8.1 NEW BRUNSWICK STATION:

8.1.1 New elevator upgrades for the New Brunswick Station.

8.1.2 Complete all necessary connections and supports as required.

9. LEGEND

9.1 LEGEND OF FIELD CONDITIONS AND DRAWING SYMBOLS:

9.2 DRAWING SYMBOLS:

9.3 FIELD CONDITIONS:

A. EXISTING CONDITIONS
B. PROPOSED CONDITIONS

10. ABBREVIATIONS

10.1 ABBREVIATIONS:

10.1.1 Listed in the following:

10.1.2 General Notes.

11. APPENDIX

11.1 APPENDIX:

11.1.1 Listed in the following:

11.1.2 General Notes.
NEW BRUNSWICK STATION ELEVATOR UPGRADES
MECHANICAL SYMBOLS, ABBREVIATIONS & NOTES

GENERAL NOTES FOR MECHANICAL WORK:
1. CHECK AND VERIFY ALL DIMENSIONS AND ELEVATING CONDITIONS AT THE SITE
2. INSTALL ALL COMPONENTS AND MATERIALS IN strict accordance with the manufacturer's written instructions
3. PERFORM MECHANICAL WORK WITH THE WORK OF ALL OTHER TRADES.
4. ALL SYSTEMS AND PIPE SIZING ARE TO BE DONE UNLESS NOTED OTHERWISE
5. ALL MECHANICAL EXCEPT IN MECHANICAL ROOMS OR OTHER ORANGED AREAS
6. ENSURE COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES
7. VERIFY EACH APPROVED OF ELECTRICAL OR INDEPENDENT COMPONENTS AND FINS BEFORE COMPLETING WORK

FIRE PROTECTION SYSTEMS
A
AXE
B
CAI
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ELEVATOR(s) FOR ELEVATION

ELEVATOR SYMBOLS

ELEVATOR COLUMNS TO BE REMOVED

ELEVATOR COLUMNS TO BE REPLACED

NEW ELEVATOR COLUMNS

NEW ARROW = SUPPLY

NEW ARROW = DRAIN

THROUGH

REFRIGERATION SYMBOL

CONNECT TO ELECTRICAL

DIAGNOSTIC POINT OF OPERATION

NEW WORK NOT DONE
### SPLIT SYSTEM AC UNIT SCHEDULE

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>MODEL NO.</th>
<th>COIL (KW)</th>
<th>HEAT (KW)</th>
<th>VOLT</th>
<th>V/PHASE/FRQ</th>
<th>UNIT NO.</th>
<th>MODEL NO.</th>
<th>COIL (KW)</th>
<th>HEAT (KW)</th>
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<tbody>
<tr>
<td>M1-1</td>
<td>P8NP-A10/46B</td>
<td>30,000</td>
<td>37,000</td>
<td>2</td>
<td>208/1/60</td>
<td>M1-2</td>
<td>P8NP-A10/46B</td>
<td>30,000</td>
<td>37,000</td>
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### OUTDOOR UNIT (CONDENSER/COMPRESSOR)

<table>
<thead>
<tr>
<th>UNIT NO.</th>
<th>MODEL NO.</th>
<th>SHAFT OF COMPRESSION</th>
<th>DEVELOPMENT DATE</th>
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<tr>
<td>M1-1</td>
<td>P8NP-A10/46B</td>
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<td>0A10A</td>
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<tr>
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<td>WITH OIL SLAM 208/1/60</td>
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### ROOF SUPPORT RAIL FLASHING DETAIL

1. Provide integral rail flashing unit on roof or supporting structure to enclose and direct drainage path.
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5. Provide integral rail flashing unit on roof or supporting structure to enclose and direct drainage path.
GANNETT FLEMING
NEW JERSEY TRANSIT
9102-16
09/12/16
PARTIAL RELEASE
PLUMBING
THOMAS WILLIAMS

EAST-BOUND ELEVATOR PIT PLUMBING PLAN

WEST-BOUND ELEVATOR PIT PLUMBING PLAN

NEW BRUNSWICK STATION ELEVATOR UPGRADES
ELEVATOR PIT PLUMBING PARTIAL PLANS

GANNETT FLEMING

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THOMAS WILLIAMS

EAST-BOUND ELEVATOR PIT PLUMBING PLAN

WEST-BOUND ELEVATOR PIT PLUMBING PLAN

NEW BRUNSWICK STATION ELEVATOR UPGRADES
ELEVATOR PIT PLUMBING PARTIAL PLANS

SITE PLAN
SCALE: 3/64"=1'-0"

NOTES:
1. SITE PLAN SHEET NUMBER AND APPROPRIATE SHEET TITLE LISTED.
2. CONSTRUCTION SHEET CONTAINS DATA RELATING TO BOTH MECHANICAL AND ELECTRICAL PLANT AND APPROPRIATE SHEET NUMBER LISTED.
3. THE CONTRACTOR SHALL NOTIFY PUBLIC UTILITY PROVIDER PRIOR TO SUBMITTING REQUIRED PLANS AND SPECIFICATIONS.
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NEW BRUNSWICK STATION
ELEVATOR UPGRADES
SITE PLAN

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<table>
<thead>
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<th>ABBREVIATIONS</th>
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**NEW BRUNSWICK STATION**

**ELEVATOR UPGRADES**

**ABBREVIATIONS**
MACHINE ROOM / PIT PLAN
WESTBOUND - REMOVALS

NEW BRUNSWICK STATION
ELEVATOR UPGRADES

MACHINE ROOM / PIT PLAN WESTBOUND - REMOVALS

Partial release elevator
Elevator
Daniel Tober
In Case Of Fire
Elevators Are Out Of Service
Use Exit
UP
ON
ACCESS
OFF
IN FIRE EMERGENCY
DO NOT USE ELEVATOR
USE EXIT STAIRS
In Case Of Fire
Elevators Are Out Of Service
Use Exit
DN
ON
ACCESS
OFF
IN FIRE EMERGENCY
DO NOT USE ELEVATOR
USE EXIT STAIRS
In Case Of Fire
Elevators Are Out Of Service
Use Exit
DN
ON
ACCESS
OFF
IN FIRE EMERGENCY
DO NOT USE ELEVATOR
USE EXIT STAIRS
In Case Of Fire
Elevators Are Out Of Service
Use Exit DN ON ACCESS OFF
IN FIRE EMERGENCY
DO NOT USE ELEVATOR
USE EXIT STAIRS
ELEVATOR CAB PLAN - WESTBOUND

SCALE: 3/4" = 1'-0"

FINISH DETAILS

1. PROVIDE BROWN 3/8" THICK SHEET CEILING TO BE COMPATIBLE WITH THE MACHINERY SHEET TO BE SUPPLIED BY THE CONTRACTOR AND INSTALLER.

2. PROVIDE BROWN 3/8" THICK SHEET CEILING TO THE TRIMMABLE AREA OF THE CAB TO COMPATIBLE WITH THE MACHINERY SHEET TO BE SUPPLIED BY THE CONTRACTOR AND INSTALLER.

3. PROVIDE BROWN 3/8" THICK SHEET CEILING TO THE TRIMMABLE AREA OF THE CAB TO COMPATIBLE WITH THE MACHINERY SHEET TO BE SUPPLIED BY THE CONTRACTOR AND INSTALLER.

4. PROVIDE BROWN 3/8" THICK SHEET CEILING TO THE TRIMMABLE AREA OF THE CAB TO COMPATIBLE WITH THE MACHINERY SHEET TO BE SUPPLIED BY THE CONTRACTOR AND INSTALLER.

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10. PROVIDE BROWN 3/8" THICK SHEET CEILING TO THE TRIMMABLE AREA OF THE CAB TO COMPATIBLE WITH THE MACHINERY SHEET TO BE SUPPLIED BY THE CONTRACTOR AND INSTALLER.

CAB COMPONENTS

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<th>#</th>
<th>DESCRIPTION</th>
<th>THICKNESS</th>
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<tbody>
<tr>
<td>1</td>
<td>Steel Hanger</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>2</td>
<td>Door Operator</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>3</td>
<td>Lift Door Operator</td>
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<tr>
<td>4</td>
<td>Elevator Door</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>5</td>
<td>Guide Rail</td>
<td>3/8&quot;</td>
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<tr>
<td>6</td>
<td>Elevator Car</td>
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<td>7</td>
<td>Safety Rail</td>
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<tr>
<td>8</td>
<td>Car Top Component</td>
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NEW BRUNSWICK STATION
ELEVATOR UPGRADES
ELEVATOR CAB PLAN AND SCHEDULES
WESTBOUND
In Case Of Fire
Elevators Are Out Of Service
Use Exit

FIREFIGHTERS' OPERATION
To recall elevators
Insert fire key and turn to "On"

ON
RESET

ELEVATOR COMMUNICATIONS
FAILURE

IN FIRE EMERGENCY
DO NOT USE ELEVATOR
USE EXIT STAIRS

HALL STATION - BILL OF MATERIALS

CAR RIDING LANTERN - BILL OF MATERIALS

ANCILLARY EQUIPMENT

HALL STATION - KEY SWITCHES

NEW BRUNSWICK STATION
ELEVATOR UPGRADES
ELEVATOR HALL STATIONS, LANTERNS
AND SCHEDULES - EASTBOUND