

Torres Rojas, Genara

FOI#13356

From: signorg137@yahoo.com
Sent: Friday, July 20, 2012 10:35 AM
To: Duffy, Daniel
Cc: Torres Rojas, Genara; Van Duyne, Sheree
Subject: Freedom of Information Online Request Form

Information:

First Name: Charles
Last Name: Mirabile
Company: SMWIA L.U. 137
Mailing Address 1: 21-42 44th Drive
Mailing Address 2:
City: Long Island City
State: NY
Zip Code: 11101
Email Address: signorg137@yahoo.com
Phone: 718 937-4514
Required copies of the records: Yes

List of specific record(s):

Any and all records pertaining to Sign Work at Delta Airlines Terminal C Laguardia Airport, from 112012 to current.

Daniel D. Duffy
FOI Administrator

October 5, 2012

Mr. Charles Mirabile
SMWIA L.U. 137
21-42 44th Drive
Long Island City, NY 11101

Re: Freedom of Information Reference No. 13356

Dear Mr. Mirabile:

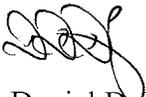
This is a response to your July 20, 2012 request, which has been processed under the Port Authority's Freedom of Information Code (the "Code") for copies of records pertaining to sign work at Delta Airlines Terminal C at LGA from January 1, 2012 to the date of the request.

Material responsive to your request and available under the Code can be found on the Port Authority's website at <http://www.panynj.gov/corporate-information/foi/13356-O.pdf>. Paper copies of the available records are available upon request.

Certain material responsive to your request is exempt from disclosure pursuant to Exemptions (4) and (5) of the Code.

Please refer to the above FOI reference number in any future correspondence relating to your request.

Very truly yours,



Daniel D. Duffy
FOI Administrator

G-2491 Delta – Way finding signage – Term. C&D



THE PORT AUTHORITY OF NY & NJ

March 26, 2012

Mr. Brian Gore
Delta Air Lines, Inc.
Terminal D
LaGuardia Airport
Flushing, NY 11371

**RE: LaGuardia Airport Tenant Alteration Application G-2491
Delta Airlines, Inc. – Terminals C & D – “Wayfinding Signage”**

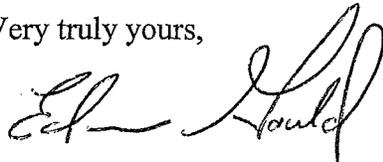
Dear Mr. Gore:

Port Authority staff has reviewed the drawings and other materials submitted under cover of letter from Corgan Associates dated March, 2012. Approval has been continued and there are no further comments.

Since all rider comments have been satisfied, as part of our project close out requirements, please submit for our records (2) CD copies, CAD Version 2004 or later of the full set of as built drawings.

If you have any questions regarding the aforementioned, please feel free to contact Mark Paquiz of my staff directly. He is handling this application and he can be reached at (718) 533-4221.

Very truly yours,


for Michael Moran, P.E.

Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

c: Mr. Thomas L. Bosco, General Manager, LaGuardia Airport
Mr. D. Stolt, Delta Air Lines, Inc.
Mr. W.J. Liese, Corgan Associates Architects PC

(bc: S. Bhol, F. Dambreville, R. Calise, N. Russo, Central File)

Mr. Brian Gore
Delta Air Lines, Inc.
Terminal D
LaGuardia Airport
Flushing, NY 11371

Mr. William J. Liese
Corgan Associates Architects PC
350 5th Ave
Suite 5401
NY, NY 10118



THE PORT AUTHORITY OF NY & NJ

February 24, 2012

Mr. Brian Gore
Corporate Real Estate
Delta Air Lines, Inc.
Dept. 877
P.O. Box 20706
Atlanta, GA 30320

**RE: LaGuardia Airport Tenant Alteration Application G-2491
Delta Airlines, Inc. – Terminals C & D – “Wayfinding Signage”**

Dear Mr. Gore:

Port Authority staff has reviewed the drawings and other materials submitted under cover of letter from Corgan Associates dated January 26, 2012. Approval has been granted subject to the resubmission and subsequent Port Authority review of materials revised in accordance with the requirements set forth in the attached Rider “A”. Attached is a signed copy of the approved Alteration Application and the Alteration Permit.

Please submit two (2) full sets and four (4) sets of revised drawings, specifications, structural calculations, etc., and formal written responses with references to how each of the requirements in Rider A have been resolved, by March 9, 2012.

Please note that a Pre-construction meeting may not be scheduled, nor any construction activity related to this alteration application be permitted to begin, until the following is submitted and approved by the Port Authority:

- a) An ‘MBE/WBE Program Information’ Form.
- b) An insurance certificate in the amounts designated on the attached sheets, including the Worker’s Compensation number.
- c) A letter identifying the Professional Engineer or Registered Architect licensed to practice in the State of New York, who will be inspecting the work, and who will, when the work is ready for use, submit a certification that the work has been constructed in conformance with the plans and all laws and ordinances.
- d) A complete set of signed and sealed drawings and specifications.

Once these items are approved, please contact the LaGuardia Resident Engineer Mr. Nicholas Russo at (718) 533-3796 at least forty-eight hours prior to the start of work, to arrange for a pre-construction meeting.

LaGuardia Airport
Flushing, NY 11371
T: 212 435 7000



THE PORT AUTHORITY OF NY & NJ

Upon review of the operational restrictions and limits of work applicable to the project, you will be allowed to begin construction. The alteration permit shall be kept at the construction site and shall be available for Port Authority inspection. No work will be permitted until the pre-construction meeting has taken place and the aforementioned requirements have been satisfied.

This approval of the Alteration Application and of the plans and specifications does not constitute a determination or indication by the Port Authority that Delta Airlines has complied with the applicable governmental laws, ordinances, enactments, resolutions, regulations, rules, and orders, including, but not limited to, those of the City of New York, which may pertain thereto.

If you have any questions regarding the aforementioned, please feel free to contact Mark Paquiz of my staff directly. He is handling this application and he can be reached at (718) 533-4221.

Very truly yours,

Michael Moran, P.E.
Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

Attachment

- c: Mr. Thomas L. Bosco, General Manager, LaGuardia Airport
Ms. P. Drenner, Delta Air Lines, Inc.
Mr. W.J. Liese, Corgan Associates Architects PC



RIDER A

ALTERATION APPLICATION G-2491

GENERAL

1. Drawing G-00-01:
 - a) List on the drawings, the applicable codes & standards. Applicable codes include: 2008 NYC Building Code, 2008 NYC Fire Code, the Americans with Disabilities Act (ADA), and the Port Authority Tenant Construction Review Manual, December 2008 (TCRM).
 - b) List on the plans all items subject to Special Inspections. See Title 28 of Administrative Code of the City of New York, Articles 116.2.3 and 104.7.7, 2008 NYC Building Code Sections BC 109 and BC 1704, and Tenant Construction Review Manual (TCRM), Section 14-II.B and attachment INSP1. If there are none, state so on the drawing.

ARCHITECTURAL

2. Drawings C-A01-01D, C-A01-01E.2, C-A01-01F, C-A01-02E.1, & C-A01-02F: Identify the locations of existing exit signs and verify that the following proposed way-finding signs to not obscure visibility of the existing exit signs:

C01-29A & C10-29B, C01-26A & C01-26B, C01-14A & C01-14B, C01-98A & C01-98B, C01-106A & C01-106B, C01-99A & C01-99B, C01-100A & C01-100B, C01-11A & C01-11B, C-01-10A & C01-10B, C02-33A & C02-33B, C02-22A & C02-22B, C02-19A & C02-19B, C-02-20A & C02-20B
3. Drawings C-A02.1, C-A02.2, & D-A02.1: Identify the flame spread rating of the proposed signs to verify that they meet the flame spread requirements of TCRM Attachment A1, Section 3.0. Provide information on test results and listing by an evaluation agency, or provide previously issued NYC BS&A or MEA approval, as per Article 113, Title 28 of the NYC Administrative Code. Note that manufacturer's data is not a substitute for approved assembly test data.

STRUCTURAL

4. Drawings G-00-009 and G-00-10:
 - a) Note that the responsibility for design or code compliance shall not be delegated to contractors.



ALTERATION APPLICATION G-2491 (cont'd)

- b) Verify, with calculations, that the sign supports including the existing construction are not overstressed under the combined effect of vertical load and wind loads, and meet the requirements of TCRM Sections 6-II.F.3 through 6-II-F.5 and NYC Building code Appendix R, Section R103.13 for the interior signs, and of TCRM, Sections 6-II.F.2 and 6-II.F.5. for the exterior signs.
- c) Sign Supports: Indicate the type, sizes and spacing of the threaded rods and HSS pipes and the anchor bolts.
- d) New Sign at Gypsum Board Ceiling: The gypsum board ceiling panel shall not be used to support the proposed signs.

ENVIRONMENTAL CMD

- 5. The asbestos requirements of the Port Authority's Tenant Construction have not been met. The Port Authority Asbestos Certification Form PA-3677 has not been submitted.

LGA FACILITY

- 6. Ensure the most current PANYNJ Sign Standard concerning Interior signage dated the Fourth Edition, June 2008 is adhered to.
- 7. A daily faxed sheet will be sent to PA Operations, Police and Resident Engineer's office at the Central Terminal Building by noon for work scheduled that evening or the following day listing all construction workers planned deliveries of material, etc. All workers must display company ID badges on their outer garment at all times and possess a valid photo government ID. (Fax numbers and access forms will be provided at a pre-construction meeting)
- 8. No unattended vehicles will be permitted to park in front of the terminal building at time.
- 9. Follow and maintain compliance with all Port Authority and Transportation Security Administration (TSA) rules, policies, procedures and regulations with respect to security
- 10. Complete package for Terminal C Asbestos Survey was submitted on 02/23/2012 as a separate TAA (# G-2493), and has been distributed for review. As per Comment 5, submit a PA 3677 for this TAA, and reference G-2493 with the relevant pages.

**Port Authority Minimum Insurance Requirements for
Tenant Alterations and Construction**

<u>Activities/ Contract Type</u>	General Liability	Workers'Comp	Auto Liability	Comments
Install/Repair/Removal of fencing, gates, sidewalk, lighting, security cameras	\$2 million each occurrence	Statutory	\$2 million each accident	Landside
Office build out (small)	\$2 million each occurrence	Statutory	\$2 million each accident	Landside
Office build out (large)	\$5 million each occurrence	Statutory	\$5 million each accident	Landside
HVAC	\$5 million each occurrence	Statutory	\$5 million each accident	Landside
Airside TAAs	\$25 million each occurrence	Statutory	\$25 million each accident	Airside

Note: Additional Insurance Requirements:

1. "The Port Authority of New York & New Jersey and its wholly owned entities" as additional insured.
 - a. For JFK and LaGuardia Airports-also include "The City of New York" as additional insured.
 - b. For Teterboro Airport-also include "AFCO AvPorts Management LLC "as additional insured.
 - c. For Stewart Airport-also include "AFCO AvPorts Management LLC, New York State Department of Transportation and the State of New York" as additional insured.
2. The Immunity clause endorsement (see certificate sample for **exact** wording)
3. 30 day cancellation and notification endorsement
4. Waiver of subrogation
5. Specialty Insurance, such as Watercraft Liability, Environmental, Explosion, Collapse & Underground Property Damage (XCU), Railroad Protective, Coverage for work within 50 feet of railroad will be required where needed.

Tenant Alteration Application

APPLICANT MUST READ THE TERMS AND CONDITIONS INCLUDED WITH THIS FORM

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Three hereof on behalf of the Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Three hereof and the terms and conditions set forth in this form.

Tenant Name Delta Air Lines, Inc.
 Facility LGA - Terminal C and D
 TAA Number G-2491
 Date 01/26/2012

Part One: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant.

At (Facility) LGA	Pursuant to (Lease, Space, Permit) No.	Location (Building No. or Area) of Space to be Altered Terminal C and D
----------------------	--	--

Description of Work and Reason

Terminal C and D Wayfinding Signage

Estimated Cost of Work \$ 250,000	Estimated Time to Complete (Days) 195 Days	Starting Date 02/15/12	Completion Date 08/01/2012
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Plans: Prints of each drawing must be submitted with copies of application including plan showing area affected by proposed work.

Title of Plan Drawing Terminal C and D - Wayfinding Signage	Drawing No. Refer to Drawing Set Index Sheet for a complete list of drawings.	Dated 01/26/2012
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Contractor: Name and Address (If Not Known, Submit Later) VRH Construction Corp. 320 Grand Avenue Englewood, NJ 07631-4335	Engineer or Architect Name and Address William J. Liese Corgan Associates Architects PC 350 Fifth Avenue, Suite 5401, New York, NY 10118
Phone No. 201-871-4422 License No. 023395-1 Email s.hausse@vrhcorp.com 13-5672403 (Federal ID)	Phone No. 212-490-2930 License No. 023395-1 Email jay.liese@corgan.com

Send Correspondence To:
 (Name and Address of Employee in Charge of Work)
**Pam Drenner, Facilities,
 Dept. 877, Corporate Real Estate, Delta Air Lines, Inc. Delta
 Air Lines Flight Center, LGA Airport, Flushing, NY 11371-1097**

Phone No. 404-773-2877
 Email brian.gore@delta.com

ENGINEER OR ARCHITECT CERTIFICATION

I have supervised the preparation of plans and specification for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which should be applicable if the Port Authority were a private corporation.

Applicant's Name (As it Appears on Lease or Permit) Pam Drenner	Signature of Licensed Professional Engineer or Architect 	Date 01/26/2012
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Part Two: M/WBE Program Information

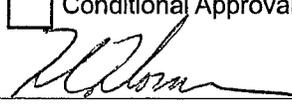
A Minority/Women Business Enterprise (M/WBE) Plan is attached hereto for PA approval. The Tenant's contact person responsible for this project's M/WBE Program is named below.

M/WBE Contact Person (Name and address):

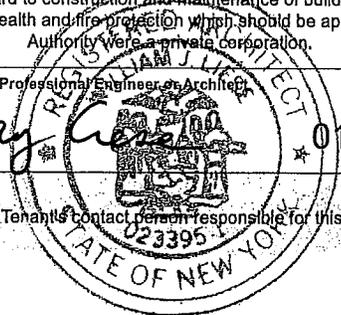
Phone No. _____ Email _____

Part Three: Design Approval (FOR PA USE ONLY)

The above Application Status is: Full Approval Withheld. Subject to the following conditions
 Conditional Approval

Signature  Reference Letter By 2/20/12

Prepared By _____ Date _____ Title **Manager** Date _____
Physical Plant & Redev. Div.



THE PORT AUTHORITY OF NY & NJ

G-2491

Number

Alteration Permit

This certifies that the Port Authority has issued an alteration

permit G-2491 dated February 24, 2012 to Delta Airlines, Inc.
Number

covering work taking place at Wayfinding Signage Terminals C & D
Location

February 24, 2012

Date



Signature for The Port Authority of New York and New Jersey

PA2714

POST IN CONSPICUOUS PLACE ON WORK SITE

Gould, Ed

From: Gould, Ed
ent: Monday, February 27, 2012 7:23 PM
To: Gore, Brian
Cc: Stolt, Donald W; 'Loeffelholz, Mary'; Paquiz, Mark; Russo, Nicholas; Demarchi, Zaria
Subject: TERMINAL C/D WAYFINDING SIGNAGE TAA G-2491
Attachments: TAA G-2491 RIDER A LTR.pdf

Importance: High

Please find attached the signed Cover Letter with Rider A, Signed PA 531, and the Alteration Permit. You had previously (Friday 2/24) received the rider comments from mark in an e-mail. You may proceed to request a Pre-Con from the REO. Please ensure that all required documentation is submitted to the REO.

If there are any questions, please contact Mark Paquiz at your earliest convenience.

Ed Gould

**Manager Facility Planning & Tenant Liaison
Physical Plant & Redevelopment
LaGuardia Airport
718-533-3737
718-533-3767 (fax)**

March 16, 2012

Mr. Michael Moran
The Port Authority of NY & NJ
Resident Engineers Office
LaGuardia Airport
Flushing, NY 11371

Re : LaGuardia Airport Tenant Alteration
Application No. G-2491
Rider A Response

+ Scope change

Dear Mr. Moran:

We have received Rider A Comments regarding the construction documents for the above referenced project. Thank you for your detailed review and input.

Port Authority comments are indicated in *italics*. Our responses are **bold** and follow each comment.

Please note that all revisions/changes to the originally submitted drawings have been clouded.

RIDER A RESPONSES

GENERAL

1. *Drawing G-00-01:*

- a. *List on the drawings, the applicable codes & standards. Applicable codes include: 2008 NYC Building Code, 2008 NYC Fire Code, the Americans with Disabilities Act (ADA), and the Port Authority Tenant Construction Review Manual, December 2008 (TCRM).*

Response: Drawing G-00-01 has been revised to include the above mentioned applicable codes.

- b. *List on the plans all items subject to Special Inspections. See Title 28 of Administrative Code of the City of New York, Articles 116.2.3. and 104.7.7, 2008 NYC Building Code Sections BC 109 and BC 1704, and Tenant Construction Review Manual (TCRM), Section 14-11.B and attachment INSP1. If there are none, state so on the drawing.*

Response: The required Special Inspections have been listed on drawing G-00-01.

C O R G A N

CORGAN ASSOCIATES
ARCHITECTS PC
350 FIFTH AVENUE
SUITE 5401
NEW YORK, NY 10118
TEL 212 490 2930
X 212 490 3052

ARCHITECTURAL

2. *Drawings C-A01-01D, C-A01-01F, C-A01-02E.2, & C-A01-02F: Identify the locations of existing exit signs and verify that the following proposed wayfinding signs to not obscure visibility of the existing exit signs:
C01-29A & C01-29B, C01-26A & C01-26B, C01-14A & C01-14B, C01-98A & C01-98B, C01-106A & C01-106B, C01-99A & C1-99B, C01-100A & C01-100B, C01-11A & C01-11B, C01-10A & C01-10B, C02-33A & C02-33B, C02-22A & C02-22B, C02-19A & C02-19B, C02-20A & C02-20B*

Response: Signs C01-29A/B, C01-26A/B, C01-14A/B, C01-100A/B, C01-11A/B, C01-10A/B, C02-33A/B are new signs that are being mounted in the same location as the existing signs and have been verified not to obstruct the view of the exit signs.

New Signs C01-98A/B & C01-106A/B are not located in the direct line of view of the exit signs. Sign C01-99A/B is only 8" in height. Bottom of sign is above the height of the exit sign and hence allows for visibility of exit sign. Signs C02-22A/B, C02-19A/B & C02-20A/B are relocated away from exit sign and do not obstruct view of exit sign.

3. *Drawing C-A02.1, C-A02.2, & D-A02.1: Identify the flame spread rating of the proposed signs to verify that they meet the flame spread requirements of TCRM Attachment A1, Section 3.0. Provide information on test results and listing by an evaluation agency, or provide preciously issued NYC BS&A or MEA approval, as per Article 113, Title 28 of the NYC Administrative Code. Note that Manufacturer's data is not a substitute for approved assembly test data.*

Response: Laboratory test results for the flame spread rating for the Signage panels have been attached with this letter.

STRUCTURAL

4. *Drawings G-00-009 and G-00-10:*
a. *Note that the responsibility for design or code compliance shall not be delegated to contractors.*

Response: Refer to attached structural calculations and structural drawings submitted with this response package.

- b. *Verify, with calculations, that the sign supports including the existing construction are not overstressed under the combined effect of vertical load and wind loads, and meet the requirements of TCRM Sections 6-II.F.3 through 6-II-F.5 and NYC Building Code Appendix R, Section R103.13 for interior signs, and of TCRM, Sections 6-II.f.2 and 6-II.f.5 for the exterior signs.*

Response: Refer to attached structural calculations. Note that none of the signs require servicing (i.e. – No signs have variable messages, internal

lighting etc.) and therefore are not subject to additional loading requirements of TCRM Section 6-II.f.5

- c. *Sign Supports: Indicate the type, sizes and spacing of the threaded rods and HSS pipes and the anchor bolts.*

Response: Refer to attached structural calculations and structural drawings submitted with this response package for information regarding structural connections.

- d. *New Sign at Gypsum Board Ceiling: The gypsum board ceiling panel shall not be used to support the proposed signs.*

Response: Refer to attached structural drawings submitted with this response package. All signs have been detailed to be supported with either strut or miscellaneous metals back to building structure. Supports from existing gypsum board ceiling have been eliminated.

ENVIRONMENTAL CMD

5. *The asbestos requirements of the Port Authority's Tenant Construction have not been met. The Port Authority Asbestos Certification Form PA-3677 has not been submitted.*

Response: Per comment 10, the asbestos survey certification form has been attached with this letter.

LGA FACILITY

6. *Ensure the most current PANYNJ Sign Standard concerning Interior Signage dated the Fourth Edition, June 2008 is adhered to.*

Response: All Wayfinding Signage under the project scope has been designed as per latest PANYNJ Signing & Wayfinding Airport Standards Manual (June 2008 edition)

7. *A daily faxed sheet will be sent to PA Operations, Police and Resident Engineer's office at the Central Terminal Building by noon for work scheduled that evening of the following day listing all constructions workers planned deliveries of material, etc. All workers must display company ID badges on their outer garment at all times and possess a valid photo government ID. (Fax numbers and access forms will be provided at a pre-construction meeting)*

Response: We are forwarding this response letter to Delta and the contractor informing them of your requirements.

8. *No unattended vehicles will be permitted to park in front of the terminal building at time.*

TAA: G-2491
Rider A Comment Response
16 March, 2012

Response: We are forwarding this response letter to Delta and the contractor informing them of your requirements.

9. *Follow and maintain compliance with all Port Authority and Transportation Security Administration (TSA) rules, policies, procedures and regulations with respect to security.*

Response: We are forwarding this response letter to Delta and the contractor informing them of your requirements.

10. *Complete package for Terminal C Asbestos Survey was submitted on 02/23/2012 as a separate TAA (# G-2493), and has been distributed for review. As per Comment 5, submit a PA 3677 for this TAA, and reference G-2493 with the relevant pages.*

Response: PA form 3677 for the asbestos survey has been attached with this letter.

Design Revisions:

C-A01-01F Arrivals Level Partial Plan – Segment F

C-A02.2 Arrivals & Departures Level Signage Elevations

- Sign C01-100 removed from TAA package (not a structurally supported sign.)

D-A01-02J Departures Level Partial Plan – Segment J

D-A02.1 Terminal D Signage Elevations

- New sign D02-51 has been added

C-A02.2 Arrivals & Departures Level Signage Elevations

- Sign C01-96 – size has been modified
- Sign C01-99 – size has been modified

As requested two (2) full sets of drawings, four (4) sets of Rider A revised drawings and Rider A response letters are enclosed for your review.

Should you have any questions or comments please feel free to contact us.
Thank you for your attention to this matter.

Sincerely,



Wendy Bosek
Project Manager

This report is for the information of the Sponsor. It may be used in its entirety for the purpose of securing product acceptance from duly constituted approval authorities; however, this report or the name of the Institute shall not be used in publicity or advertising.

SOUTHWEST RESEARCH INSTITUTE
Department of Fire Technology
POST OFFICE DRAWER 28510, 6220 CULEBRA RD. SAN ANTONIO, TEXAS 78284

INVESTIGATION OF SURFACE BURNING CHARACTERISTICS OF:

A RIGID FOAMED PVC PLASTIC
SHEETING: 3-MM SINTRA™

PROJECT NO. 01-1373-211

FINAL REPORT

APRIL 13, 1987

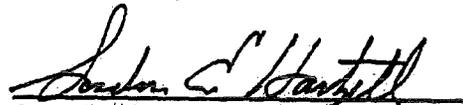
Prepared for:
ALUCOBOND TECHNOLOGIES, INCORPORATED
P. O. BOX 397
SYMSONIA ROAD
BENTON, KENTUCKY 42025

By:



Carl A. Hafer, P. E.
Manager
Standard Testing Services

Approved by:



Dr. Gordon E. Hartzell
Director, Fire Technology
for
Dr. Robert E. Lyle
Vice President
Chemistry and Chemical
Engineering



SAN ANTONIO, TEXAS
WITH OFFICES IN HOUSTON, TEXAS, AND WASHINGTON, D. C.

I. INTRODUCTION

This report presents the results of a flame spread tunnel test on a rigid foamed PVC plastic sheeting, submitted for evaluation by Alucobond Technologies, Incorporated, of Benton, Kentucky. The report contains a description of the material tested, the preparation and conditioning of the specimen, the test procedure, and finally, the test results. Note that the results only apply to the specimen tested, in the manner tested, and not to the entire production of this or similar materials, nor to this material's performance when used in combination with other materials. All test data are on file and are available for review by authorized persons.

The test was conducted in accordance with the provisions of ASTM Designation E84-84, "Standard Method of Test for Surface Burning Characteristics of Building Materials." This test method is similar to the test method specified in NFPA No. 255, UL No. 723 and UBC No. 42-1. ASTM E84 is a test procedure method only and does not set requirements for materials. Therefore, SwRI does not assign a classification to the material tested. Building codes, such as the Uniform Building Code, have requirements dependent on building type, occupancy, etc. The building code having jurisdiction in the location a material is to be used will determine compliance of the test results.

The purpose of the test was to evaluate performance of the test specimen in relation to that of glass-reinforced-cement board and red oak flooring under similar fire exposure. The results are expressed in terms of flame spread, fuel contribution, and smoke developed during a 10-minute exposure and are recorded as a ratio with glass-reinforced-cement board 0 and red oak flooring 100.

II. DESCRIPTION OF MATERIALS

On March 4, 1987, the test material was received from the Client. It is described in Table 1 on the following page.

TABLE 1. DESCRIPTION

Type:	Rigid foamed PVC plastic sheeting
Trade Name:	3-mm Sintra™
Color:	White
No./Size Received:	3 pieces, 21 x 96 in. (0.53 x 2.44 m)
Thickness:	0.094 in. (2.381 mm)
Total Weight:	18.2 lb (8.263 kg)
Unit Weight:	62.396 oz/yd ² (2.12 kg/m ²)
Substrate Used:	0.25-in. (6.35-mm) glass-reinforced-cement board placed between the specimen and the furnace lid

III. PREPARATION AND CONDITIONING OF TEST SPECIMEN

The 21-in. x 25-ft (0.53 x 7.63-m) specimen was prepared using the three 21 x 96-in. (0.53 x 2.44-m) panels, as received, from the Client. These were suspended in the tunnel furnace over continuous 2-in. (50.8-mm) hexagonal wire mesh with 0.19-in. (4.76-mm) stainless steel rods interlaced with the mesh at 1-ft (0.31-m) intervals for the first 10 ft and thereafter at 3-ft (0.92-m) intervals. A 14 x 21-in. (0.36 x 0.53-m) section of 16-ga (1.6-mm) sheet metal was placed over the burner and under the leading edge of the first section to deter flame impingement on the unexposed surface in accordance with the test procedure.

The specimen was conditioned for 14 days in an atmosphere maintained between 68 and 78°F (20 and 26°C) temperature and 45- to 55-percent relative humidity.

IV. TEST PROCEDURE

The test was conducted on March 18, 1987, with Messrs. C. D. Clem and D. Glover present representing the Client. Reference data were obtained and furnace operation checked by conducting a 10-minute test with glass-reinforced-cement board on the day of the test and by periodic tests with red oak flooring. These tests provided the 0 and 100 references for flame spread, fuel contribution, and smoke developed. Ignition over the burners was noted 37 seconds after the start of the test in the most recent calibration with red oak flooring. Each

specimen to be evaluated was tested in accordance with the standard procedure.

V. TEST RESULTS

The test results were calculated on the basis of observed flame travel and the measurement of areas under the recorder curves of furnace temperature and smoke developed (see Table 2). To allow for possible variations in results due to limitations of the test method, the numerical results were adjusted to the nearest figure divisible by 5.

Recorded data for flame spread, fuel contribution, and smoke developed for the specimen are shown in the figures at the end of this report as a solid line on each graph.

TABLE 2. CLASSIFICATION

Test Specimen	Flame Spread Index E84-84	Fuel Contribution	Smoke Developed
Glass-Reinforced-Cement Board	0	0	0
Red Oak Flooring	100	100	100
A Rigid Foamed PVC Plastic Sheeting: 3-MM Sintra™	20	0	315

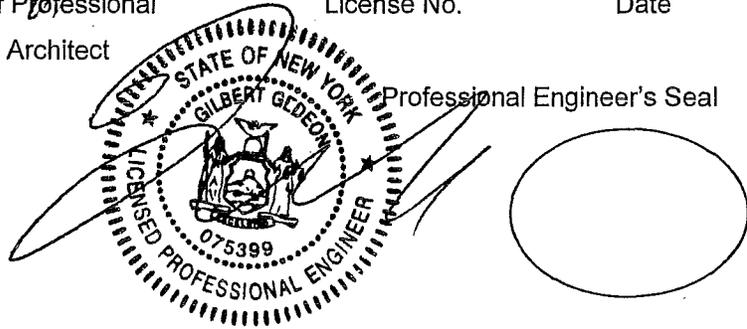
THE PORT AUTHORITY OF NY & NJ
Asbestos Certification Form

Complete this form and submit it with form PA-531. If Part Three, which indicates that asbestos containing material will be disturbed during the term of the project, then complete and submit form PA-3678. Professional engineer or architects and certified personnel must be licensed in the state where the work is to be performed. Complete one of the following.

Part One- Certification of Non- Asbestos:

The area of construction has been surveyed and no asbestos containing material (ACM) is present or disturbed during the course of this project. Attach a copy of the survey and test results. Delta Air Lines, Inc. - Wayfinding Signage, Terminals C & D, LGA (TAA No: G-2491)

Gilbert Gedeon		075399	03/12/12
Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date



Part Two- Asbestos Present- Not to be Disturbed

The area of construction has been surveyed. Asbestos is present within the area of work and will not be disturbed during the construction activities. or disturbed during the course of this project. Attach a copy of the survey and test results:

Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date
---	--	-------------	------

Part Three-Certification of an Asbestos Project:

The area of construction has been surveyed. Samples have been taken and the survey and test results of the Asbestos containing material (ACM) are attached.

Name of PA Approved Environmental Consultant Firm	Signature of Certified AHERA Inspector	AHERA Inspector Certificate No.	Date
---	---	------------------------------------	------

For Port Authority Use Only

- A. Facility _____
- B. TAA No. _____ Cost Recovery No. _____
- C. Line Department Project Manager _____
Telephone Number _____



104 E. 25th St. New York, NY 10010
(212) 353-8280 (212) 353-8306 Fax
www.atcassociates.com

March 12, 2012

Mark Paquiz
PANYNJ – Airport Facilities Division
Hangar 7, 3rd Floor
LaGuardia Airport
Flushing, NY 11371-0677

**RE: Delta Air Lines, Inc.
Terminals C & D – Wayfinding Signage
LaGuardia Airport
Flushing, NY 11371-0677
ATC Project No. 304.15736.0033
TAA Number G-2491**

Dear Mr. Paquiz :

The attached Asbestos Certification Form (PA-3677) is for the submittal to conduct the renovations for the referenced project. Please reference the Asbestos Investigation Report for Terminal C (TAA No: G-2493) and for Terminal D (TAA No: G-2497).

For Terminal C reference HA ID numbers A thru. J & M. For Terminal D reference HA ID numbers A thru. J, M, & V.

I hope this information has been helpful to you. Please do not hesitate to call if I can be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick Sisk', with several horizontal strokes underneath.

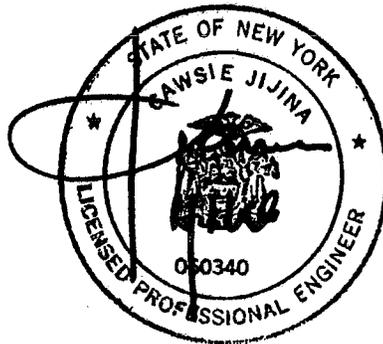
Patrick Sisk
Sr. Project Manager
New York Office

STRUCTURAL CALCULATIONS

**DELTA – LAGUARDIA AIRPORT
TERMINALS C AND D WAYFINDING SIGNAGE**
Flushing, NY

**PREPARED FOR
CORGAN ASSOCIATES
DELTA AIRLINES**
STRUCTURAL CALCULATIONS

March 15, 2012



**PREPARED FOR
Severud Associates**
CONSULTING ENGINEERS P. C.
469 Seventh Avenue
New York, NY 10018

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47	Chapter 4: Design of Interior Truss Hung Signs

Severud Associates

Terminals C and D Signage

Structural Calculations

CHAPTER 1

Introduction and Assumptions

Severud Associates

Terminals C and D Signage

Structural Calculations

Introduction

The project consists of the installation of signs throughout Terminals C and D at LaGuardia Airport. The attached calculations provide for supports of the signs back to building structure. A survey was conducted by the architect and engineer of record above the ceiling where structural drawings were unavailable. A review of available drawings was also conducted. The signs were grouped into similar conditions when possible so that typical construction details could be provided. The general types of sign supports are as follows:

Type A1 and A2 are interior signs supported below architectural ceilings. These details allow for different relationships between the orientation of the sign and the filler beams above.

Type B is an Exterior Top Hung Sign and applies at one location in Terminal D.

Type C are Blade Signs which are to be supported as cantilever from a wall structure. The design for these will be provided in a future submittal once probes of these areas can be completed.

Type D are interior signs hung from the existing truss bottom chord in Terminal C.

Assumptions

Description

The existing building structure of both terminals consists of steel structures with steel beams and columns, diagonal cross bracing, and concrete on metal deck floor slabs. The ground floors are a concrete structure with cast-in-place concrete grade beams and a case-in-place concrete slab. The grade beams span between foundations supported on piles. The terminal roofs are typically constructed of roof deck on steel beams. Where existing structural drawings were not available, field surveys were conducted to obtain the required information.

Document References

The original documents for Terminal D were prepared by Ammann & Whitney Structural & Civil engineers on June 9, 1981. The original structural drawings included were a complete set, drawings S1 to S17 (See Appendix A).

Only portions of the original documentation for Terminal C were available. Drawings for the east portion of the terminal were prepared by KPFF Engineers on October 25, 1999 and consist of drawings S1.1 and S5.4. Drawings for the west portion of the terminal were prepared by Ammann & Whitney Structural & Civil engineers in August 1991 and consist of drawings S1 and S76.

Design Criteria

All designs shall be in conformance with the 2008 New York City Building Code. However, in some cases the Building Code is not adequately detailed in scope and/or is not sufficiently conservative. In these cases, codes or standards from other appropriate agencies shall be used and enforced.

Code References

- 2008 New York City Building Code
- Port Authority – Tenant Construction Review Manual
- Minimum Design Loads for Buildings and Other Structures, American Society of Civil Engineers (ASCE 7-02)
- Building Code Requirements for Structural Concrete, American Concrete Institute (ACI 318-02)

Severud Associates

Terminals C and D Signage

Structural Calculations

- Specification for Structural Steel Buildings, American Institute of Steel Construction (AISC 360-05)
- Structural Welding Code-Steel, American Welding Society (AWS D1.1-08)
- Seismic Provisions for Structural Steel Buildings, American Institute of Steel Construction (AISC 341-05)

Material Specification

Concrete Strength (at 28 days)

- Unless otherwise noted: 2000 psi

Structural Steel

- Rolled shapes: ASTM A992
- Angles, plates, etc.: ASTM A36
- High-strength bolts: ASTM A325 and A490
- Welding electrodes: E70xx

Loads to Signage

Dead Load (Self weight of Signage)

- Interior Signs – Not to Exceed 50 lbs. per sign (see tables on drawings)
- Exterior Signs – Not to Exceed 75 lbs. per sign (see tables on drawings)

Self weights of signs are as provided by the Sign Manufacturer's representative, Mr. Kevin Going of Going Sign and Servicing, Co.

Wind Load (External Signs Only)

Per New York City Building Code

- Structural Occupancy Category: III (Conservatively) – [Table 1604.5]
- Importance factor, I_w : 1.15
- Wind Pressure (Components and Cladding) 30 psf – [Section 1609.3.3]
- Construction Shape Factor for Signs 1.5 – [Table 1609.6.3.5]
- Design Wind Pressure
 $30 \text{ psf} \times 1.15 \times 1.5 = 52 \text{ psf}$

Note: 30 psf components and cladding pressure is in accordance with simplified method II (which may not be applicable due to proximity to water). However, simplified method I would yield a lower pressure, so the 30 psf is appropriate as a base wind pressure.

Interior Incidental Pressures (Interior Signs Only)

Per New York City Building Code and TCRM

- Lobby/Vestibule Signs: 15 psf – [TCRM 6.II.F.3]
- Other Interior Signs: 5 psf – [TCRM 6.II.F.3]

Severud Associates

Terminals C and D Signage

Structural Calculations

Seismic Load

Mapped Spectral Response Accelerations

- Short Period, S_s : 0.357g
- 1-Second Period, S_1 : 0.071g
- Seismic Site Class: E
- Short Period, S_{DS} : 0.518g
- 1-Second Period, S_{D1} : 0.166g
- Seismic Design Category: D

Seismic forces for architectural components to be calculated in accordance with ASCE 7-02 Section 9.6.1.3:

$$F_p = \frac{0.4 * A_p * S_{DS} * W_p}{(R_p / I_p)} * \left(1 + 2 * \frac{z}{h}\right)$$

For signs: $A_p = 2.5$; $R_p = 2.5$; $I_p = 1.0$

Conservatively assume that $z/h = 1$.

$$F_p = \frac{0.4 * 2.5 * 0.518 * W_p}{(2.5/1.0)} * \left(1 + 2 * \frac{1}{1}\right) = 0.62 * W_p \text{ which applies for all signs}$$

Check that F_p not less than $0.3 * S_{DS} * I_p * W_p = 0.3 * 0.518 * 1.0 * W_p = 0.1554 W_p$ (does not control)

Software

Not Applicable

Severud Associates

Terminals C and D Signage

Structural Calculations

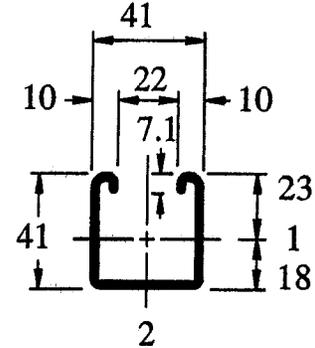
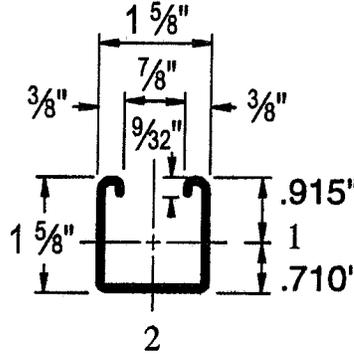
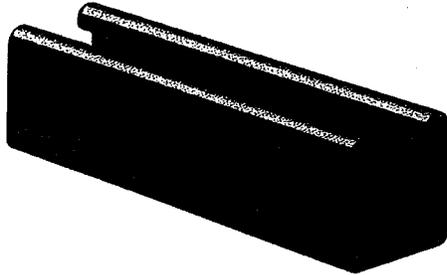
CHAPTER 2
Design of Interior Signage

(SECURITY DRAWINGS – EXEMPTION 4)

5/12



P1000®



Notes:

* Load limited by spot weld shear.

** $KL > 200$

NR = Not Recommended.

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported in such a manner as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
- For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"DS" Series	70%	"T" Series	85%
"KO" Series	95%	"H3" Series	90%
"SL" Series	85%	"HS" Series	90%

W/100 Ft: 189 Lbs (281 kg/100 m)
 Allowable Moment 5,070 In-Lbs (570 N-m)
 12 Gauge Nominal Thickness .105" (2.7mm)

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel. All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
 16 Ga. (1.5 mm) ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
 16 Ga. (1.5mm) ASTM A653 GR 33.

For other materials, see Special Metals or Fiberglass sections.

FINISHES

All channels are available in:

- Perma Green III (GR).
- Pre-galvanized (PG), conforming to ASTM A653 G90.
- Hot-dipped galvanized (HG), conforming to ASTM A123.
- Plain (PL).

Project: <u>Delta Terminal Signage</u>	Approval Stamp:
Architect / Engineer: <u>Severud</u>	
Date: <u>3/15/12</u> Phone: <u>2129863700</u>	
Contractor: _____	
Address: _____	
Notes 1: _____	
Notes 2: _____	

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- P1000 - P1000 - 1-5/8" x 1-5/8", 12 Gage Channel, Solid

Elements of Section - P1000

Area of Section	0.555 in ² (3.6 cm ²)	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	0.185 in ⁴ (7.7 cm ⁴)	0.236 in ⁴ (9.8 cm ⁴)
Section Modulus (S)	0.202 in ³ (3.3 cm ³)	0.290 in ³ (4.8 cm ³)
Radius of Gyration (r)	0.577 in (1.5 cm)	0.851 in (1.7 cm)

Column Loading - P1000

Unbraced Height (in)	Allowable Load at Slot Face (lbs)	Max Column Load Applied at C.G.			
		K=0.65 (lbs)	K=0.80 (lbs)	K=1.0 (lbs)	K=1.2 (lbs)
24	3,550	10,740	9,890	8,770	7,740
36	3,190	8,910	7,740	6,390	5,310
48	2,770	7,260	6,010	4,690	3,800
60	2,380	5,910	4,690	3,630	2,960
72	2,080	4,840	3,800	2,960	2,400
84	1,860	4,040	3,200	2,480	1,980
96	1,670	3,480	2,750	2,110	1,660
108	1,510	3,050	2,400	1,810	-
120	1,380	2,700	2,110	-	-
144	1,150	2,180	1,680	-	-

KL/r > 200

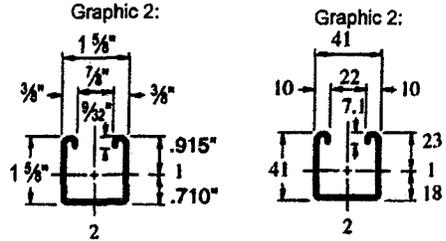
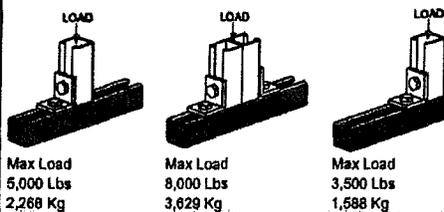
Beam Loading - P1000

Span (in)	Max Allowable Uniform Load (lbs)	Defl at Uniform load (in)	Uniform Loading at Deflection			Lateral Bracing Reduction Factor
			Span /180 (lbs)	Span /240 (lbs)	Span /360 (lbs)	
24	1,890	0.08	1,890	1,890	1,890	1.00
36	1,130	0.13	1,130	1,130	900	0.94
48	850	0.22	850	760	500	0.88
60	680	0.35	650	480	320	0.82
72	560	0.50	450	340	220	0.78
84	480	0.68	330	250	160	0.75
96	420	0.89	250	190	130	0.71
108	380	1.14	200	150	100	0.69
120	340	1.40	160	120	80	0.66
144	280	2.00	110	80	60	0.61
168	240	2.72	80	60	40	0.55
192	210	3.55	60	60	-	0.51
216	180	4.58	50	40	-	0.47
240	170	5.62	40	-	-	0.44

Notes:

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported so as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
- The lateral bracing factor should be multiplied by the load to determine the load retained based on the distance between lateral braces.

Bearing Load on Channel:



Channel Selection Chart - Related Channel Nuts - Additional Specifications

Part No.	Finish	Length	Weight	Box Qty.
P1000	GR	20	189.00	1000
P1000	GR	10	189.00	500
P1000	PG	20	189.00	1000
P1000	PG	10	189.00	500
P1000	HG	10	201.40	500
P1000	HG	20	201.40	1000
P1000	ZD	20	189.00	1000
P1000	ZD	10	189.00	500
P1000	PL	20	189.00	1000
P1000	PL	10	189.00	500
P1000	EA	20	73.30	1000
P1000	EA	10	73.30	500
P1000	SS	10	189.00	500
P1000	SS	20	189.00	1000
P1000	ST	20	189.00	1000
P1000	ST	10	189.00	500

Hanger Wire Attachment

The International Building Code (IBC), through references to *ASCE/SEI 7 Minimum Design Loads for Buildings and Other Structures*, American Society of Civil Engineers/Structural Engineering Institute (ASCE/SEI), The CISCA Guidelines for Zones 3-4, The CISCA Guidelines for Zones 0-2, and *ASTM International E 580/E 580M Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels in Areas Subject to Earthquake Ground Motions*, defines the requirement for hanger wire and their supports and attachment methods. However, there are exceptions and the application of hanger wires in a seismic design category can meet code requirements in different ways.

USG® recommends that the design team, consulting engineers and code officials work together to analyze these factors and determine the appropriate construction and application of hanger wire attachment. Because codes continue to evolve, check with local officials prior to designing and installing a suspension system.

Guidelines

- 12-gauge, galvanized, soft-annealed steel wire
 - Manufactured in accordance with ASTM A641
 - Meets or Exceeds Federal Specification QQ-W-461H
- Note:** 12-gauge hanger wire produced by USG meets these requirements.

Performance Data

12-Gauge Wire	Wire Tie Failure / Pullout Load
Typical 3 wrap tie ¹	270 lbs.
Tight 3 wrap tie	358 lbs.
Yields	424 lbs.
Ultimate load	+550 lbs.
Tensile Strength (Ksi)	80 max.

¹ Per ASTM C636

Note: Tight wrap typically consists of three complete wraps within 1 in. Some jurisdictions may require four complete wraps for bracing wires. These requirements may vary by jurisdiction.

Splice Options

Hanger wire splices are typical when the ceiling drop is greater than the length of the wire available and are allowed in seismic ceiling construction. The industry standard is to loop and tie the wire ends with three tight turns, or use a square knot. The square knot is the stronger of the two options at 550 lbs. versus 350 lbs. for the loop and tie option.

12-Gauge Wire Splice	Wire Tie Failure
Loop and Tie	350 lbs.
Square Knot	550 lbs.

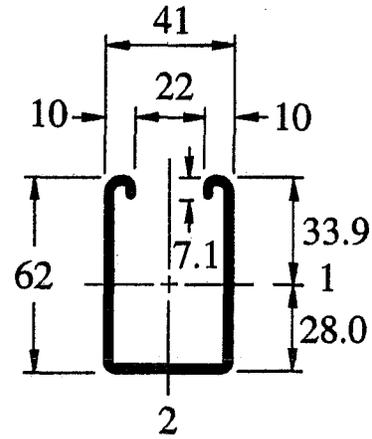
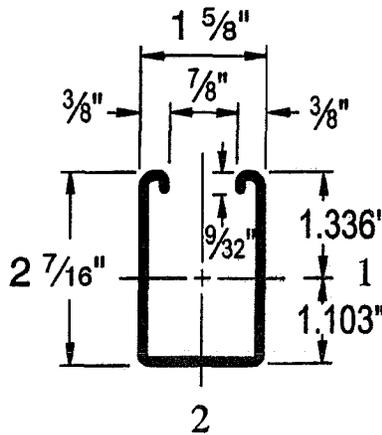
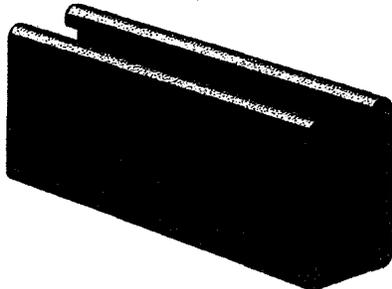
Note: Accessories by others for securing hanger wire splices should be evaluated for pullout and strength.

(SECURITY DRAWINGS – EXEMPTION 4)

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P5500



Notes:

* Load limited by spot weld shear.

** $K > 200$

1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
4. For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"T" Series ... 85% "KO" Series... 95%
 "SL" Series ... 85% "HS" Series... 90%

WW100 Ft: 247 Lbs (367 kg/100 m)
 Allowable Moment 9,820 In-Lbs (1,110 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel. All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
 16 Ga. (1.5 mm) ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
 16 Ga. (1.5mm) ASTM A653 GR 33.

For other materials, see Special Metals or Fiberglass sections.

FINISHES

All channels are available in:

- Perma Green III (GR).
- Pre-galvanized (PG), conforming to ASTM A653 G90.
- Hot-dipped galvanized (HG), conforming to ASTM A123.
- Plain (PL).

<p>Project: _____</p> <p>Architect / Engineer: _____</p> <p>Date: _____ Phone: _____</p> <p>Contractor: _____</p> <p>Address: _____</p> <p>Notes 1: _____</p> <p>Notes 2: _____</p>	<p>Approval Stamp:</p>
---	-------------------------------

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Elements of Section - P5500

Area of Section	0.728 in ² (4.7 cm ²)	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	0.522 in ⁴ (21.7 cm ⁴)	0.334 in ⁴ (13.9 cm ⁴)
Section Modulus (S)	0.390 in ³ (8.4 cm ³)	0.411 in ³ (8.7 cm ³)
Radius of Gyration (r)	0.848 in (2.2 cm)	0.679 in (1.7 cm)

Column Loading - P5500

Unbraced Height (in)	Allowable Load at Slot Face (lbs)	Max Column Load Applied at C.G.			
		K=0.65 (lbs)	K=0.80 (lbs)	K=1.0 (lbs)	K=1.2 (lbs)
24	4,840	13,840	12,670	10,840	9,190
36	3,870	11,050	9,190	7,030	5,370
48	3,180	8,420	6,390	4,620	3,630
60	2,650	6,260	4,620	3,450	2,780
72	2,120	4,790	3,630	2,780	2,260
84	1,810	3,890	3,010	2,330	1,910
96	1,580	3,290	2,690	2,020	1,650
108	1,400	2,860	2,280	1,770	1,440
120	1,270	2,530	2,020	1,580	*
144	1,060	2,070	1,650	*	*
168	920	1,750	1,380	*	*

*KL/r > 200

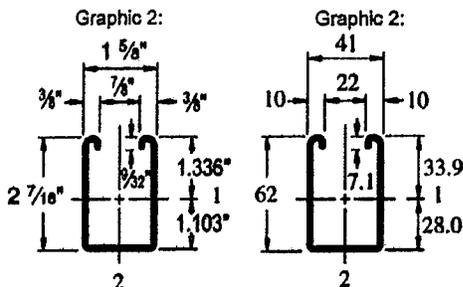
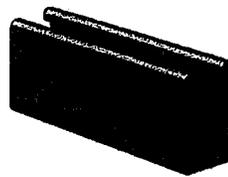
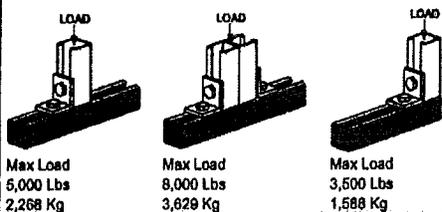
Beam Loading - P5500

Span (in)	Max Allowable Uniform Load (lbs)	Defl at Uniform load (in)	Uniform Loading at Deflection			Lateral Bracing Reduction Factor
			Span /180 (lbs)	Span /240 (lbs)	Span /360 (lbs)	
24	3,270	0.04	3,270	3,270	3,270	0.99
36	2,180	0.09	2,180	2,180	2,180	0.89
48	1,640	0.15	1,640	1,640	1,420	0.77
60	1,310	0.24	1,310	1,310	910	0.67
72	1,090	0.34	1,090	950	630	0.58
84	940	0.47	830	700	470	0.51
96	820	0.61	710	530	360	0.46
108	730	0.78	560	420	280	0.42
120	650	0.95	460	340	230	0.40
144	550	1.39	320	240	160	0.38
168	470	1.89	230	170	120	0.32
192	410	2.48	180	130	90	0.30
216	360	3.07	140	110	70	0.28
240	330	3.66	110	90	60	0.26

Notes:

1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported so as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
4. The lateral bracing factor should be multiplied by the load to determine the load retained based on the distance between lateral braces.

Bearing Load on Channel:



Channel Selection Chart - Related Channel Nuts - Additional Specifications

Part No.	Finish	Length	Weight	Box Qty.
P5500	GR	20	247.00	500
P5500	GR	10	247.00	250
P5500	PG	20	247.00	500
P5500	PG	10	247.00	250
P5500	HG	10	261.80	250
P5500	HG	20	261.80	500
P5500	ZD	10	247.00	250
P5500	ZD	20	247.00	500
P5500	PL	10	247.00	250
P5500	PL	20	247.00	500
P5500	EA	20	97.00	500
P5500	EA	10	97.00	250

(SECURITY DRAWINGS – EXEMPTION 4)

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Elements of Section - P5000

Area of Section	0.897 in ² (5.8 cm ²)	
	Axis 1-1	Axis 2-2
Moment of Inertia (I)	1.098 in ⁴ (45.7 cm ⁴)	0.433 in ⁴ (18.0 cm ⁴)
Section Modulus (S)	0.627 in ³ (10.3 cm ³)	0.533 in ³ (8.7 cm ³)
Radius of Gyration (r)	1.107 in (2.8 cm)	0.695 in (1.8 cm)

Column Loading - P5000

Unbraced Height (in)	Allowable Load at Slot Face (lbs)	Max Column Load Applied at C.G.			
		K=0.65 (lbs)	K=0.80 (lbs)	K=1.0 (lbs)	K=1.2 (lbs)
24	5,850	16,870	15,180	12,850	10,600
36	4,690	13,140	10,600	7,650	5,680
48	3,560	9,580	6,850	4,790	3,680
60	2,730	6,680	4,780	3,460	2,710
72	2,180	4,980	3,680	2,710	2,170
84	1,760	3,950	2,980	2,240	1,820
96	1,500	3,270	2,500	1,930	1,580
108	1,310	2,800	2,170	1,690	1,390
120	1,170	2,450	1,930	1,510	*
144	980	1,980	1,580	*	*
168	850	1,670	1,340	*	*

*KL/r > 200

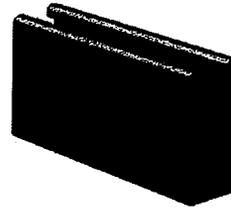
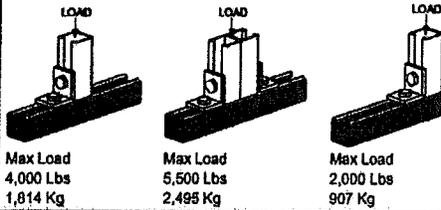
Beam Loading - P5000

Span (in)	Max Allowable Uniform Load (lbs)	Defl at Uniform Load (in)	Uniform Loading at Deflection			Lateral Bracing Reduction Factor
			Span /180 (lbs)	Span /240 (lbs)	Span /300 (lbs)	
24	5,280	0.03	5,280	5,280	5,280	0.98
36	3,500	0.07	3,500	3,500	3,500	0.85
48	2,630	0.12	2,630	2,630	2,630	0.70
60	2,100	0.18	2,100	2,100	1,820	0.65
72	1,750	0.26	1,750	1,750	1,330	0.44
84	1,500	0.36	1,500	1,470	980	0.38
96	1,310	0.47	1,310	1,120	750	0.33
108	1,170	0.59	1,170	890	590	0.30
120	1,050	0.73	980	720	480	0.28
144	880	1.06	670	500	330	0.24
168	750	1.43	490	370	240	0.22
192	660	1.88	370	280	190	0.21
216	580	2.33	300	220	150	0.19
240	530	2.95	240	180	120	0.18

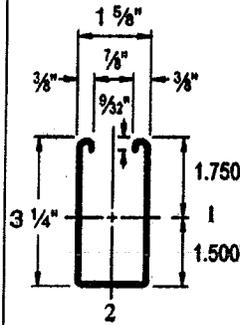
Notes:

- Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
- Long span beams should be supported so as to prevent rotation and twist.
- Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
- The lateral bracing factor should be multiplied by the load to determine the load retained based on the distance between lateral braces.

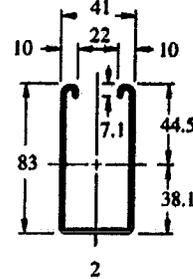
Bearing Load on Channel:



Graphic 2:



Graphic 2:



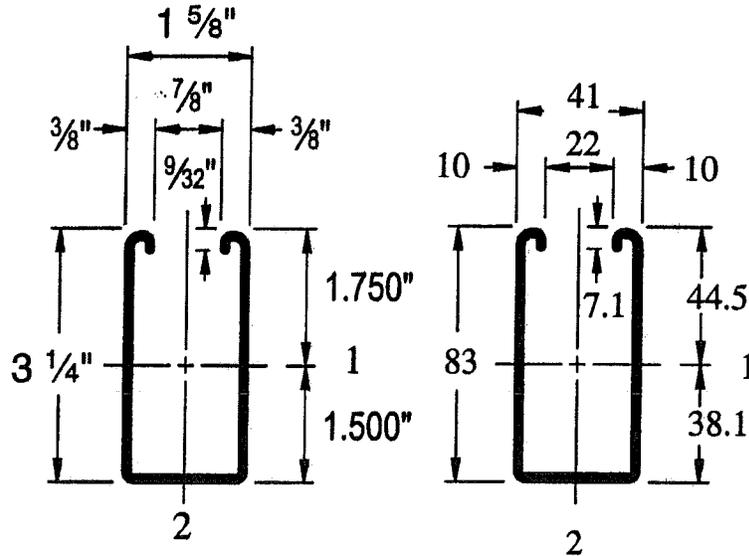
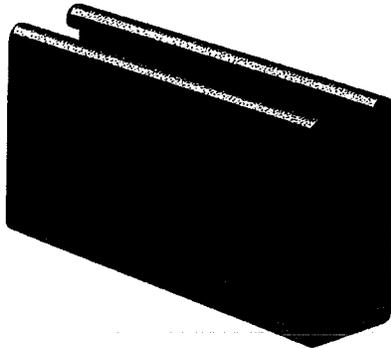
Channel Selection Chart - Related Channel Nuts - Additional Specifications

Part No.	Finish	Length	Weight	Box Qty.
P5000	GR	20	305.00	500
P5000	GR	10	305.00	250
P5000	PG	10	305.00	250
P5000	PG	20	305.00	500
P5000	HG	20	323.30	500
P5000	HG	10	323.30	250
P5000	ZD	10	305.00	250
P5000	ZD	20	305.00	500
P5000	PL	10	305.00	250
P5000	PL	20	305.00	500

6/7



P5000



WW100 Ft: 305 Lbs (454 kg/100 m)
 Allowable Moment 15,770 In-Lbs (1,780 N·m)
 12 Gauge Nominal Thickness .105" (2.7mm)

Notes:

* Load limited by spot weld shear.

** $R_y > 200$

1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported in such a manner as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
4. For Pierced Channel, Beam Load Values in the tables are multiplied by the following factor:

"T" Series... 85% "KO" Series... 95%
 "SL" Series... 85% "HS" Series... 90%

MATERIAL

Unistrut channels are accurately and carefully cold formed to size from low-carbon strip steel. All spot-welded combination members, except P1001T, are welded 3" (76 mm) maximum on center.

STEEL: PLAIN

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
 16 Ga. (1.5 mm) ASTM A1011 SS GR 33.

STEEL: PRE-GALVANIZED

12 Ga. (2.7 mm), 14 Ga. (1.9 mm) and
 16 Ga. (1.5mm) ASTM A653 GR 33.

For other materials, see Special Metals or Fiberglass sections.

FINISHES

All channels are available in:

- Perma Green III (GR).
- Pre-galvanized (PG), conforming to ASTM A653 G90.
- Hot-dipped galvanized (HG), conforming to ASTM A123.
- Plain (PL).

<p>Project: _____</p> <p>Architect / Engineer: _____</p> <p>Date: _____ Phone: _____</p> <p>Contractor: _____</p> <p>Address: _____</p> <p>_____</p> <p>Notes 1: _____</p> <p>_____</p> <p>Notes 2: _____</p> <p>_____</p>	<p>Approval Stamp:</p>
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(SECURITY DRAWINGS – EXEMPTION 4)

Severud Associates

Terminals C and D Signage

Structural Calculations

CHAPTER 3

Design of Exterior Signage

(SECURITY DRAWINGS – EXEMPTION 4)

4.3.5 Kwik Bolt 3 Expansion Anchor

Table 6 - Carbon Steel Kwik Bolt 3 Allowable Loads in Normal-Weight Concrete¹

Anchor Diameter in. (mm)	Embedment Depth in. (mm)	$f'_c = 2000 \text{ psi (13.8 MPa)}$		$f'_c = 3000 \text{ psi (20.7 MPa)}$		$f'_c = 4000 \text{ psi (27.6 MPa)}$		$f'_c = 6000 \text{ psi (41.4 MPa)}$	
		Tension lb (kN)	Shear lb (kN)						
1/4 (6.4)	1-1/8 (29)	300 (1.3)	530 (2.4)	365 (1.6)	530 (2.4)	430 (1.9)	530 (2.4)	550 (2.4)	530 (2.4)
	2 (51)	635 (2.8)		715 (3.2)		800 (3.6)		845 (3.8)	
	3 (76)	755 (3.4)		795 (3.5)		840 (3.7)			
3/8 (9.5)	1-5/8 (41)	730 (3.2)	1135 (5.0)	910 (4.0)	1275 (5.7)	1095 (4.9)	1420 (6.3)	1090 (4.8)	1315 (5.8)
	2-1/2 (64)	1260 (5.6)	1315 (5.8)	1555 (6.9)	1315 (5.8)	1850 (8.2)	1315 (5.8)	2060 (9.2)	
	3-1/2 (89)	1580 (7.0)	1770 (7.9)	1965 (8.7)	2150 (9.6)				
1/2 (12.7)	2-1/4 (57)	1235 (5.5)	1865 (8.3)	1430 (6.4)	2300 (10.2)	1620 (7.2)	2405 (10.7)	1975 (8.8)	2415 (10.7)
	3-1/2 (89)	1930 (8.6)	2415 (10.7)	2185 (9.7)	2415 (10.7)	2440 (10.9)	2415 (10.7)	3240 (14.4)	
	4-3/4 (121)	2135 (9.5)	2355 (10.5)	2575 (11.5)	3620 (16.1)				
5/8 (15.9)	2-3/4 (70)	1920 (8.5)	2750 (12.2)	2065 (9.2)	3410 (15.2)	2210 (9.8)	3785 (16.8)	2830 (12.6)	3910 (17.4)
	4 (102)	2660 (11.8)	3910 (17.4)	3020 (13.4)	3910 (17.4)	3385 (15.1)	3910 (17.4)	4770 (21.2)	
	5-1/2 (140)	3285 (14.6)	3695 (16.4)	4100 (18.2)	5325 (23.7)				
3/4 (19.1)	3-1/4 (83)	2120 (9.4)	4090 (18.2)	2425 (10.8)	4900 (21.8)	2730 (12.1)	5310 (23.6)	3785 (16.8)	5310 (23.6)
	4-3/4 (121)	3240 (14.4)	5340 (23.8)	4260 (18.9)	5340 (23.8)	5285 (23.5)	5495 (24.4)	6155 (27.4)	6225 (27.7)
	6-1/2 (165)	4535 (20.2)	5860 (26.1)	7185 (32)	7005 (31.2)				
1 (25.4)	4-1/2 (114)	3330 (14.8)	7070 (31.4)	4050 (18.0)	7600 (33.8)	4670 (20.8)	8140 (36.2)	5070 (22.6)	9200 (40.9)
	6 (152)	4930 (21.9)	9200 (40.9)	6000 (26.7)	9200 (40.9)	7070 (31.4)	9200 (40.9)	8400 (37.4)	
	9 (229)	6670 (29.7)	7670 (34.1)	8670 (38.6)	10670 (47.5)				

¹ Intermediate load values for other concrete strengths and embedments can be calculated by linear interpolation.

Kwik Bolt 3 Expansion Anchor 4.3.5

Influence of Edge Distance and Anchor Spacing on Anchor Performance

Load Adjustment Factors for 5/8 in. Diameter Anchors									
Adjustment Factor 5/8 in.	Spacing Tension f_{NT}		Edge Distance Tension, f_{NE}		Spacing Shear f_{NV}	Edge Distance Shear			f_{NV2}
	2-3/4	≥4	2-3/4	≥4		I toward edge f_{NV1}	II to edge f_{NV2}	I away from edge f_{NV3}	
Embedment Depth, in.	2-3/4	≥4	2-3/4	≥4	2-3/4	≥4	≥2-3/4	≥2-3/4	≥2-3/4
Spacing (in.)	2-3/4	0.80	0.80	0.90					
	3-1/2	0.69	0.87	0.92					
	4	0.75	0.60	0.92	0.80	0.94	0.90		
	4-1/4	0.77	0.62	0.95	0.82	0.94	0.91	0.52	0.61
	4-3/4	0.83	0.66	1.00	0.85	0.96	0.92	0.58	0.66
	5-1/2	0.92	0.72		0.90	0.98	0.93	0.67	0.73
	6	0.98	0.76		0.93	0.99	0.73	0.78	0.91
	6-1/4	1.00	0.78		0.95	1.00	0.95	0.76	0.81
	7		0.84	1.00		0.96	0.85	0.88	0.95
	7-1/2		0.88			0.97	0.91	0.93	0.97
	7-3/4		0.90			0.98	0.94	0.95	0.98
	8-1/2		0.96			0.99	1.00	1.00	1.00
	9		1.00						

Load Adjustment Factors for 3/4 in. Diameter Anchors									
Adjustment Factor 3/4 in.	Spacing Tension f_{NT}		Edge Distance Tension, f_{NE}		Spacing Shear f_{NV}	Edge Distance Shear			f_{NV2}
	3-1/4	≥4-3/4	3-1/4	≥4-3/4		3-1/4	≥4-3/4	I toward edge f_{NV1}	
Embedment Depth, in.	3-1/4	≥4-3/4	3-1/4	≥4-3/4	3-1/4	≥4-3/4	≥3-1/4	≥3-1/4	≥3-1/4
Spacing (in.)	3-3/8	0.61	0.81	0.90					
	4	0.67	0.86	0.92					
	5	0.77	0.62	0.81	0.94	0.90	0.51	0.61	0.83
	5-3/4	0.85	0.67	1.00	0.86	0.96	0.92	0.59	0.67
	6-1/4	0.90	0.70		0.88	0.97	0.93	0.64	0.71
	6-1/2	0.92	0.72		0.90	0.98	0.93	0.67	0.73
	7	0.97	0.75		0.93	0.99	0.94	0.72	0.77
	7-1/2	1.00	0.79		0.95	1.00	0.95	0.77	0.82
	8-1/4		0.84	1.00		0.96	0.85	0.88	0.95
	9		0.89			0.97	0.92	0.94	0.97
	9-3/4		0.94			0.98	0.94	0.94	1.00
	10-1/4		0.97			0.99			
	10-3/4		1.00			1.00			

Load Adjustment Factors for 1 in. Diameter Anchors									
Adjustment Factor 1 in.	Spacing Tension f_{NT}		Edge Distance Tension, f_{NE}		Spacing Shear f_{NV}	Edge Distance Shear			f_{NV2}
	4-1/2	≥6	4-1/2	≥6		4-1/2	≥6	I toward edge f_{NV1}	
Embedment Depth, in.	4-1/2	≥6	4-1/2	≥6	4-1/2	≥6	≥4-1/2	≥4-1/2	≥4-1/2
Spacing (in.)	4-1/2	0.60	0.80	0.90					
	6	0.71	0.60	0.89	0.80	0.93	0.90		
	7	0.78	0.65	0.95	0.84	0.94	0.91	0.52	0.61
	8	0.85	0.71	1.00	0.89	0.96	0.93	0.59	0.67
	9	0.92	0.76		0.93	0.98	0.94	0.67	0.73
	9-3/4	0.97	0.80		0.97	0.99	0.95	0.72	0.78
	10-1/4	1.00	0.83		0.99	1.00	0.96	0.76	0.81
	11-1/4		0.88	1.00		0.97	0.83	0.87	0.94
	11-5/8		0.90			0.98	0.86	0.89	0.95
	12-1/2		0.95			0.99	0.93	0.94	0.97
	13		0.97			0.99	0.96	0.97	0.99
	13-1/2		1.00			1.00	1.00	1.00	1.00
	14-3/4								

Standard Anchor Embedments (in.)		
5/8	h_{min}	2-3/4
	h_{nom}	4
	h_{deep}	5-1/2
3/4	h_{min}	3-1/4
	h_{nom}	4-3/4
	h_{deep}	6-1/2 ¹
1	h_{min}	4-1/2
	h_{nom}	6
	h_{deep}	9

¹ Embedment depth shown reflects embedment for carbon steel anchor, deep embedment depth for stainless steel anchor is 8 inch.

Note: Tables apply for listed embedment depths. Reduction factors for other embedment depths must be calculated using equations below.

Spacing — Tension

$$f_{NT} = \frac{s/h_{act} + 0.88}{3.13} \quad h_{act} \geq h_{nom}$$

$$f_{NV} = \frac{s/h_{nom} + 0.88}{3.13} \quad h_{act} \geq h_{nom}$$

Edge Distance — Tension

$$f_{NE} = \frac{c/h_{act} + 2}{3.75} \quad h_{act} \geq h_{min}$$

$$f_{NV} = \frac{c/h_{nom} + 2}{3.75} \quad h_{act} \geq h_{min}$$

Spacing — Shear

$$f_{NV} = \frac{s/h_{act} + 10.25}{12.5} \quad h_{act} \geq h_{nom}$$

$$f_{NV} = \frac{s/h_{nom} + 10.25}{12.5} \quad h_{act} \geq h_{nom}$$

Edge Distance — Shear

$h_{act} \geq h_{min}$

perpendicular toward edge

$$f_{RV1} = \frac{c}{3h_{min}}$$

parallel to edge

$$f_{RV2} = \frac{c/h_{min} + 0.75}{3.75}$$

perpendicular away from edge

$$f_{RV3} = \frac{c/h_{min} + 5.82}{8.82}$$

Note: Edge distance and anchor spacing for all light-weight and sand-lightweight concrete are obtained by dividing the normal-weight dimensions by 0.75 and 0.85, respectively.

Kwik Bolt 3 Expansion Anchor 4.3.5

Table 17 - Carbon Steel Kwik Bolt 3 Allowable Loads for Anchors Installed in Top of Grout-Filled Concrete Masonry Wall¹

Anchor Diameter in. (mm)	Anchor Depth in. (mm)	Tension lb (kN)	Shear	
			V ₁ lb (kN)	V ₂ lb (kN)
1/2 (12.7)	3 (76)	645 (2.9)	310 (1.4)	615 (2.7)
5/8 (15.9)	3-1/2 (89)	850 (3.8)	310 (1.4)	615 (2.7)

¹ Masonry prism strength must be at least 1500 psi at the time of installation in accordance with UBC Standard 21-17.

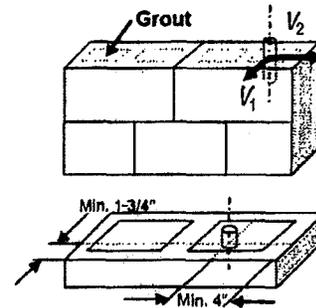


Table 18 - HHDCA Ceiling Hanger Allowable Loads¹

Anchor Diameter in. (mm)	Minimum Embedment in. (mm)	Normal-Weight Concrete ²		Lightweight Concrete ²	Lightweight over Metal Deck ³
		Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Tension lb (kN)
1/4 (6.4)	1-1/4 (32)	410 (1.8)	425 (1.9)	260 (1.2)	294 (1.3)

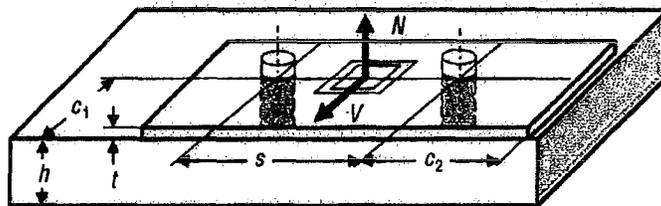
- Allowable loads based on using a safety factor of 4.0.
- Allowable loads are for anchors installed into normal-weight concrete having a minimum compressive strength of 3500 psi at the time of installation.
- Allowable loads are for anchors installed into lightweight concrete having a minimum compressive strength of 3000 psi at the time of installation.

Combined Shear and Tension Loading

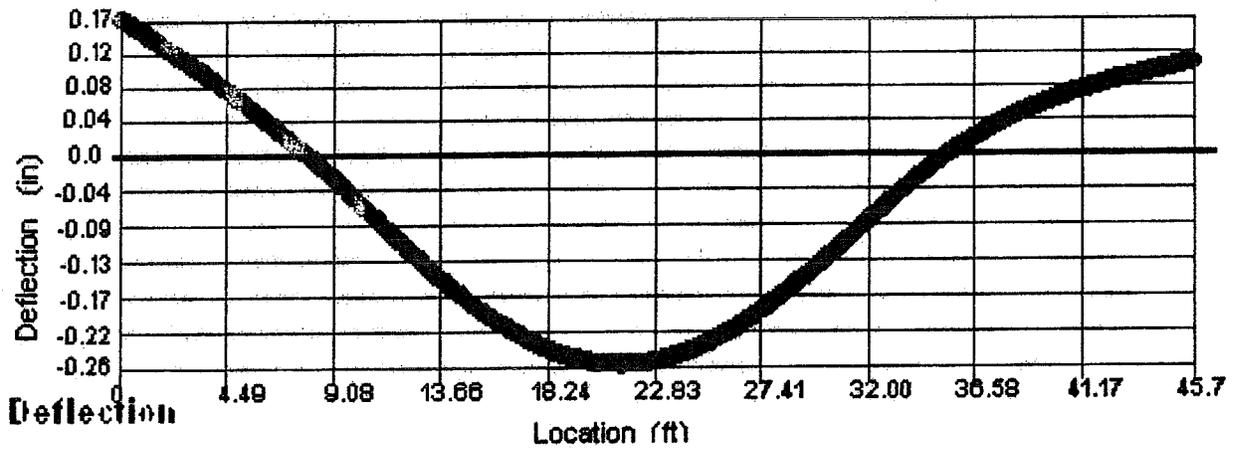
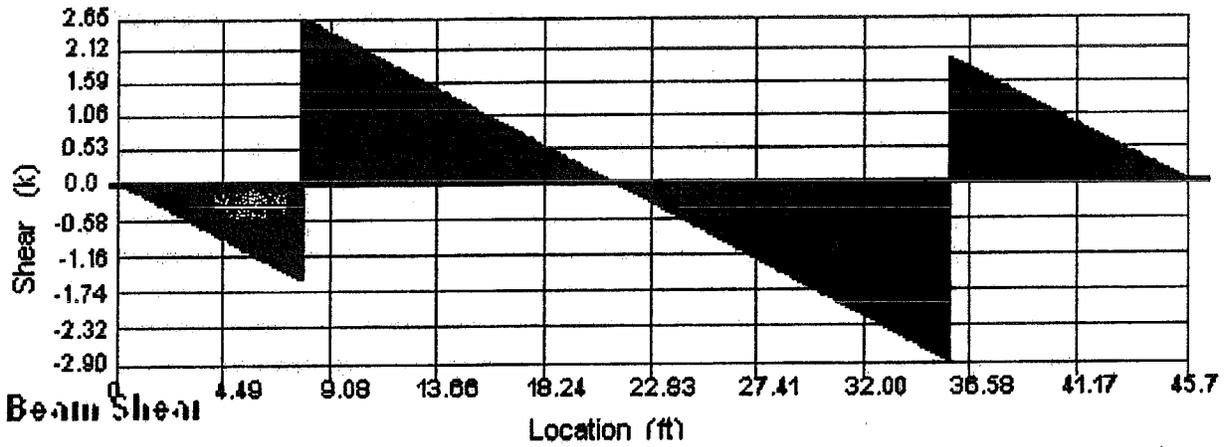
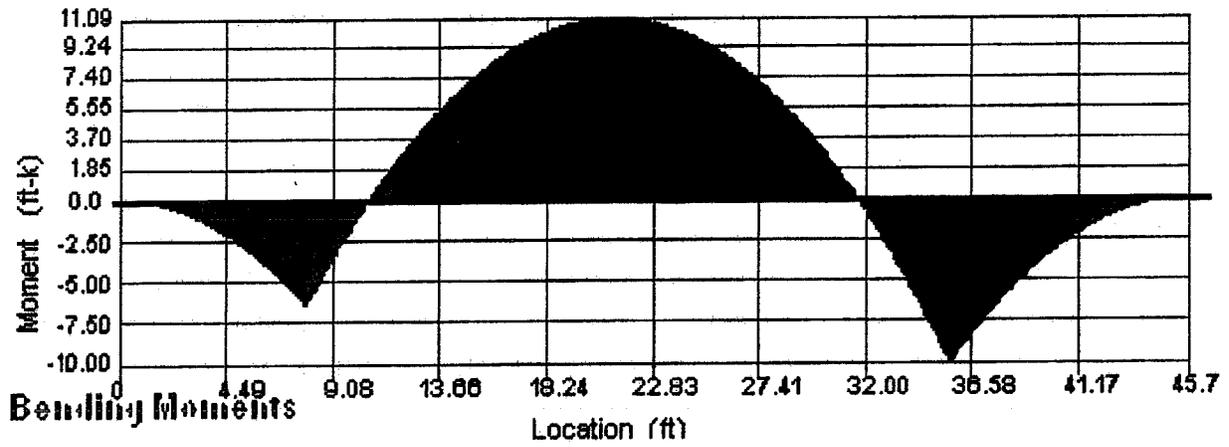
$$\left(\frac{N_d}{N_{rec}}\right)^{5/3} + \left(\frac{V_d}{V_{rec}}\right)^{5/3} \leq 1.0 \quad (\text{Ref. Section 4.1.8.3})$$

Anchor Spacing and Edge Distance Guidelines

- s = on-center fastening spacing
c = edge distance from center of bolt.
- Apply appropriate load reduction factors for tension and shear if anchor spacing and/or edge distance is less than the critical spacing (s_{cr}) or edge distance (c_{cr}) as defined by Hilti.
- See Section 4.1.8.1 for determining compounded spacing and edge distance reduction as well as intermediate load values for concrete strengths and embedments.



(SECURITY DRAWINGS – EXEMPTION 4)





Transmittal

CORGAN ASSOCIATES ARCHITECTS PC
 350 FIFTH AVENUE
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 NEW YORK, NY 10118
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 FAX 212 490 3052
 www.corgan.com

To Mr. Mark Paquiz
 The Port Authority of NY & NJ
 LaGuardia Airport
 Hangar 7 Center, 3rd Floor
 Flushing, NY 11371

Date 16 March, 2012

Phone 718-533-4221

Project LGA Terminals C & D – Way-Finding Signage

From Suma Karveti

Project Number 11254.1000

Re TAA – Rider A response Submission

These are for review and/or processing, or as indicated on the information transmitted.

Copies	Date	Description
4	03/16/12	Rider A response letter and attachments
4	03/16/12	Structural Calculations
4	03/16/12	Rider A response drawings (Complete set of drawings)
2	03/16/12	Rider A response drawings (Revised set of drawings)
	NOTE :	HAND DELIVERED ON 03-16-12



MEMORANDUM

Engineering Department

To: Mike Moran
From: Frantz Dambreville
Date: March 23, 2012
Subject: LAGUARDIA AIRPORT, DELTA TERMINALS C AND D, BUILDING #: 51,
BUILDING #: 52 – WAYFINDING SIGNAGE.
TAA #: G-2491
Copy To: S. Bhol, E. Danquah, A. Fadavi, U. Mehta, M. Paquiz, V. Passarelli, File

As you requested the Engineering Department, Environmental Field Staff has completed its review of the drawings on the referenced Tenant Alteration Application.

The asbestos requirements of the Port Authority's Tenant Construction have been met. The Port Authority Asbestos Certification Form PA-3677 has been submitted.

If you have any questions, please do not hesitate to call. I can be reach at 718-533-4053.

// Original Signed By //

Frantz Dambreville
LGA Environmental Field Operations
Construction Management Division



MEMORANDUM

Engineering Department

To: Michael Moran, Manager, Plant, Structures, and Redevelopment, LaGuardia Airport
From: Saroj Bhol
Date: March 23, 2012
Subject: **LGA – ALTERATION APPLICATION G-2491 – DELTA AIRLINES – TERMINAL C & D – WAYFINDING SIGNAGE**

Reference: Review Request Dated: 3/16/12

Copy To: T. Amoia, M. Arias, A. Fadavi, E. Gould, C. J. Lin, M. Paquiz, V. Passarelli, N. Russo, D. Warren; Job Folder

The documents submitted with the referenced request have been reviewed.

The previous conditional approval for construction is now changed to full **approval**.

There are no further comments.

REMARKS: 1) See the attachment for a list of approved drawings.

2) Copy Line distribution was via "Outlook" only.

Saroj Bhol, P.E.
Manager, Construction Design Standards
Quality Assurance Division

ID: G-2491-00-002

BJ:CMB

Attachment

Reviewers: B. Johnson, Coordination and Architectural; C.S. Lee, Structural.



ATTACHMENT

ALTERATION APPLICATION G-2491

The following is a list of approved drawings. All changes from the previous list are shown in boldface.

<u>Drawings</u>	<u>Dated</u>	<u>Revised</u>
G-00-01	3/16/012	
G-00-02	1/26/2012	
G-00-08	1/26/2012	
G-00-09	3/16/012	
G-00-10	3/16/012	
C-A01-01	1/26/2012	
C-A01-01C.2	1/26/2012	
C-A01-01D	1/26/2012	
C-A01-01E.2	1/26/2012	
C-A01-01F	3/16/012	
C-A01-01G	1/26/2012	
C-A01-02	1/26/2012	
C-A01-02E.1	1/26/2012	
C-A01-02F	1/26/2012	
C-A01-02G	1/26/2012	
D-A01-01	1/26/2012	
D-A01-01J	1/26/2012	
D-A01-01M	1/26/2012	
C-A02.1	3/16/012	
C-A02.2	3/16/012	
D-A02.1	3/16/012	
S-900.00	3/16/012	
S-901	3/16/012	
S-902	3/16/012	
S-910	3/16/012	
D-A01-02	3/16/012	
D-A01-02J	3/16/012	

THE PORT AUTHORITY OF NEW YORK & NEW JERSEY

MEMORANDUM

TO: Mike Moran

FROM: Connie DeLaigle 

DATE: February 29, 2012

SUBJECT: TENANT M/WBE PARTICIPATION PLAN - LGA

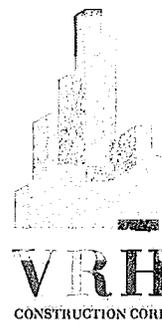
G-2491 DELTA AIRLINES
WAYFINDING SIGNAGE TERMINALS C & D

COPY TO: R. Foreman, L. Johnson, A. Martinez

Please be advised that the appropriate Port Authority departments have reviewed and *waived* the MBE/WBE Participation Plan for the above referenced project.

Prime Contractor: VRH CONSTRUCTION, CORP.

Estimated Construction \$ Value: \$ 80,000



March 13, 2012

Ms. Connie DeLaigle
Affirmative Action Coordinator
The Port Authority of NY & NJ
Building # 14, 3rd Floor
JFK International Airport
Jamaica, NY 11430

Re: TAA G-2491

Dear Ms. DeLaigle,

In accordance with our discussions please be advised we have solicited bids from three sign fabricators/installers for the above referenced project including one minority business enterprise namely Signs & Decal Corp. Signs & Decal Corp. was not the low bidder, the bid received was 22% higher than the low bidder for this project. This is a significant cost differential that cannot be overlooked. The contract for this project was awarded to Going Sign Servicing Co., Inc. in the amount of \$80,000. This represents costs for Phase I Day 1 signs.

We will continue to make every effort to afford quality MBE/WBE subcontractors opportunities and welcome any subcontractors we can add to our bidders list, and respectfully request you waive the MBE/WBE requirement for this TAA to allow the client to schedule a pre-construction meeting for this time sensitive project.

Should you have any questions or care to discuss do not hesitate to call me in the office at 201-871-4422. Thanking you in advance for attention to this matter.

Very truly yours,

Steven J. Haussel
Project Executive

SJH:jme

cc: Ronan Byrne - Parsons

delaiGLE ltr

320 Grand Avenue
Englewood, NJ
07631-4355

Phone
201.871.4422
Fax/Executive
201.871.6727
Fax/Accounting
201.871.1927
Fax/Estimating
201.871.0705



MEMORANDUM

Engineering Department

To: Michael Moran, Manager, Plant, Structures, and Redevelopment, LaGuardia Airport
From: Saroj Bhol
Date: March 23, 2012
Subject: LGA – ALTERATION APPLICATION G-2491 – DELTA AIRLINES –
TERMINAL C & D – WAYFINDING SIGNAGE

Reference: Review Request Dated: 3/16/12

Copy To: T. Amoia, M. Arias, A. Fadavi, E. Gould, C. J. Lin, M. Paquiz, V. Passarelli, N. Russo, D. Warren; Job Folder

The documents submitted with the referenced request have been reviewed.

The previous conditional approval for construction is now changed to full **approval**.

There are no further comments.

- REMARKS: 1) See the attachment for a list of approved drawings.
- 2) Copy Line distribution was via "Outlook" only.

Saroj Bhol, P.E.
Manager, Construction Design Standards
Quality Assurance Division

ID: G-2491-00-002

BJ:CMB

Attachment

Reviewers: B. Johnson, Coordination and Architectural; C.S. Lee, Structural.



ATTACHMENT

ALTERATION APPLICATION G-2491

The following is a list of approved drawings. All changes from the previous list are shown in boldface.

<u>Drawings</u>	<u>Dated</u>	<u>Revised</u>
G-00-01	3/16/012	
G-00-02	1/26/2012	
G-00-08	1/26/2012	
G-00-09	3/16/012	
G-00-10	3/16/012	
C-A01-01	1/26/2012	
C-A01-01C.2	1/26/2012	
C-A01-01D	1/26/2012	
C-A01-01E.2	1/26/2012	
C-A01-01F	3/16/012	
C-A01-01G	1/26/2012	
C-A01-02	1/26/2012	
C-A01-02E.1	1/26/2012	
C-A01-02F	1/26/2012	
C-A01-02G	1/26/2012	
D-A01-01	1/26/2012	
D-A01-01J	1/26/2012	
D-A01-01M	1/26/2012	
C-A02.1	3/16/012	
C-A02.2	3/16/012	
D-A02.1	3/16/012	
S-900.00	3/16/012	
S-901	3/16/012	
S-902	3/16/012	
S-910	3/16/012	
D-A01-02	3/16/012	
D-A01-02J	3/16/012	



TO: Armando Martinez, Resident Engineer, P.E.
FROM: Nicholas Russo, TAA Manager
DATE: March 16, 2012

**SUBJECT: LAGUARDIA AIRPORT - ALTERATION APPLICATION –
TAA G-2491 – DELTA AIRLINES – TERMINAL C & D – WAYFINDING
SIGNAGE - PRE-CONSTRUCTION MEETING**

EST. COST: \$250,000.00

COPY TO: T. Amoia, A. Fadavi, J. Abu-Ghallow, C. DeLaigle, A. Johnson, J. Shivers,
E. Danquah and File: TAA G-2491

A pre-construction meeting for the referenced alteration application was held on March 16, 2012, with the following in attendance:

Z. Demarchi.....PA/LGA/ENG	J. M. Ort.....PA/LGA/OPS
N. Russo.....LGA/REO	D. Noble.....PA/ENG/CSI
M. Paquiz.....PA/LGA/TFO	S. Haussel.....VRH Const. Corp.
B. Gore.....Delta	J. McGmabuci.....VRH Const. Corp.
J. Going.....Going Sign Co.	R. Byrne.....Parson

The following items were discussed:

1. Formal approval has been given to proceed with construction.
2. The M/WBE Participation Plan has been *waived*.
3. Open Rider comment
4. Insurance certificate has been received.
5. The letter from the tenant identifying A.E firm and individual who will inspect the construction and certify its completion and conformance to all governing codes has been received.
6. The General Contractor is *VRH CONSTRUCTION, CORP*
7. The project 24-hour number is *John McGrath 201-376-3074 / Rob Carr 397-231-0000*
8. Work for this project is scheduled to begin week of *March 19, 2012*
9. Completion date for the project is *April 16, 2012*

10. Hours of work will be: *7:00 AM till 3:30 P.M. 2200 till 0500.*
11. The haul route was discussed and the Contractor was advised to enter the airport via the 94th Street Bridge. No material or equipment shall enter the airport via 82nd Street.
12. The following operational and construction requirements were discussed:
 - (a) The Contractor was advised to plan and conduct his operations so that he will work in harmony with other Contractors in the area doing Port Authority of N.Y. and NJ or tenant work.
 - (b) The Contractor is responsible for the cleanup and removal of all debris from the work site on a daily basis. All materials and equipment must be stored on the work site or assigned work area.
 - (c) The Contractor was advised that **10 days notice** must be given for any type of mechanical or electrical shutdown. The shutdowns will be coordinated through the Resident Engineer's Office.
 - (d) The Contractor was advised that he will have to supply all men working on the job site or delivering materials to the job site with numbered I.D. badges. A list of employees with related badge numbers is to be provided to the Resident Engineer's Office as soon as possible prior to the start of fieldwork, and updated as necessary.
 - (e) The Contractor was advised of the procedures and requirements for obtaining a Cutting and Welding or Hot Work Permit. He was also advised that water lines are New York City property and require New York City metering and permits.
 - (f) The Contractor was advised that the Resident Engineer shall be given 24 hours advance notice of intended work or deliveries during off-hours.
 - (g) The Contractor was advised that men and equipment are to be escorted at all times during movement on the ramp side. The tenant is responsible for providing the required escorts.
 - (h) The Contractor was directed to post the Alteration Permit on the job.
 - (i) Concerns regarding deployment of cranes at the site were discussed. The Port Authority must be notified of any crane deployment at the site with all pertinent height information.
13. The responsibility for construction supervision and inspection rest solely with the Architect/Engineer (A/E) and the Owners Rep. Upon completion of each phase of construction, the A/E shall submit a letter requesting a final or partial final inspection. The letter should also include statements confirming that all controlled Terminal inspections were conducted, that he or she has inspected the work, and that the work has been completed as per approved drawings and specification and all governing codes. Upon

receipt of the referenced letter, the REO will schedule a final or partial final inspection with the appropriate Port Authority agencies in attendance. A minimum of (3) working days is required to schedule all inspections.

13A. Controlled Inspections are to be performed as required by the applicable Building Code. Copies of signed and sealed reports must be submitted to the REO as they are performed, under cover letter from the A/E of Record indicating acceptance.

14. Notify Port Authority Police in any emergency at (718) 533-3911

15. Port Authority Construction Management:

Resident Engineer:	Armando Martinez.....	(718) 533-3535	
TAA Manager	Nick Russo.....	(718) 533-3796	(Cell) 347-392-1751
Inspector	Zaria Demarchi.....	(718) 533-3544	(Cell) 347-392-1747
Inspector	Peter Mercado.....	(718) 533-4041	(Cell) 973-583-3406
Admin Asst.	Carol Koufakis.....	(718) 533-3504	(Cell) 347-392-1743

16. Port Authority Operations-Construction

Rosemarie Calise.....	(718) 533-3873
Operation.....	(718) 533-3700

17. Project Management - LGA Facilities

M. Paquiz (Tenant).....(718) 533-4221

18. Comments:

Point of contact is Ronan Byrne.

The meeting was then adjourned.



Nicholas Russo
TAA Manager
LaGuardia Airport

NR/ck

Date: 3/16/2012

Location: LGA/CTB/REO - RM 3927

Time: 11:00 AM

PRE CON TAA G-2491 - DELTA AIRLINES TERMINAL C (D) - WAYFARING
SIGNAGE

Name	Company	Telephone	Fax	Non PA E-Mail Address
ZARIA DEMARCHI	PA - ENK - BEO	347-392-1747		ZDEMARCHI@PANYNJ.GOV
MARK PARULZ	PA LGA TFO	718 533 4221		MPA@LGA " " " "
STEVEN HAUSSER	VRH CONSTRUCTION CORP	201-871-4422		s.hausser@vrhcorp.com
BRIAN GORE	DELTA	404 790 2111	404 773 0875	brian.gore@delta.com
NICK RUSSO	PA - REO -	347-392-1751		NRUSSO@PANYNJ.GOV
JOHN P MCGRAW	VRH	201 376 3074		J.MCGRAW@VRHCON.COM
CHRISTOPHER				
KEE HOWE	GOING SIGN CO	516 210 7000		kgoing@going-sign.net
Ronan Byrne	Parsow	631 265 7001		Ronan.Byrne@parsow.com
Denise Noble	PA / ENB / C87	718 533 3899		dnoble@panynj.gov
Cameron Boyer	PA Ops	x3605		cboyer
Jac H Ort	PA Ops	x3605		jort
PETER MERCADO	PA - ENK - REO	973-593-3406		PMERCADO@PANYNJ.

MWA Ph 1 02

Minor Works Application
Refer to Checklist MWA CK 02

Tenant Name Delta Air Lines, Inc.
 Facility LGA - Terminal C and D
 Project Way-Finding Signage
 MWA Number _____

A. Scope Description (location, materials, etc.)

Square Footage (Approximate)	Cost Estimate	Schedule Estimate (MM/DD/YY)	
SF Through out both Terminals C & D	\$ 250,000	From 02/15/2012	To 08/01/2012

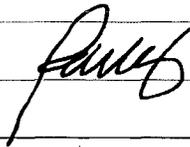
Please find the following attached documents as per TCAP Manual Section 1.7 and Section 5.2.

Quantity	Description	Revision No.	Dated	By
3	Delta Air Lines Cover Letter	-	01/13/2012	Delta
3	MWA Ph 1 02 Forms	-	01/13/2012	Delta
14	Half Size Drawing Sets (see dwg for Drawing List)	-	01/13/2012	Corgan

B. Project Team

	Check if	M/WBE	License Detail
Consultant (if any) <u>Corgan Associates Architects, PC</u>	<input type="checkbox"/>	<input type="checkbox"/>	023395-1
Contractor <u>VRH Corporation</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

C. Requested By

Contact Pam Drenner
 Firm Name Delta Air Lines, Inc.
 Date 01/13/2012 Signature 

Copies To _____

Approval to Install (FOR PA USE ONLY)

Approval to Install Not Approved

PA Letter Reference _____

Tenant Coordinator _____

Date 01/13/2012 Signature _____

**To be submitted under cover letter from Tenant.
 Approval to Install to be displayed at the work location.**



Delta Air Lines, Inc.
1030 Delta Boulevard
Department 877
Atlanta, Georgia 30354
Phone (404) 202-1045
Fax (404) 773-7671
Email pam.drenner@delta.com

January 13, 2012

Mr. Mark Paquiz
Tenant Coordinator
PANYNJ
La Guardia Airport
Hangar 7, Center, 3rd Floor
Flushing, NY 11371

SUBJECT: Minor Work Authorization Application
Terminals C and D Interior Signage

Dear Mr. Paquiz:

As part of the Terminals C and D Redevelopment, Delta Air Lines requests permission to undergo revising the interior wayfinding signage to reflect the new operating arrangement at the terminals.

The scope of this project is to install new signs in the terminals inline with the new gate numbering and PA signage standards.

If you have general questions please contact Ronan Byrne at 631-219-7001. For questions related to this scope of work please contact Wendy Bosek at Corgan Associates at 212-847-3070

Very truly yours,

A handwritten signature in black ink, appearing to read "Pam Drenner".

Pam Drenner
General Manager
NYC Design & Construction
Delta Air Lines, Inc.

cc:

Tenant Alteration Application

APPLICANT MUST READ THE TERMS AND CONDITIONS INCLUDED WITH THIS FORM

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Three hereof on behalf of the Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Three hereof and the terms and conditions set forth in this form.

Tenant Name Delta Air Lines, Inc.
 Facility LGA - Terminal C and D
 TAA Number _____
 Date 01/26/2012

Part One: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant.

At (Facility) LGA	Pursuant to (Lease, Space, Permit) No.	Location (Building No. or Area) of Space to be Altered Terminal C and D
----------------------	--	--

Description of Work and Reason

Terminal C and D Wayfinding Signage

Estimated Cost of Work \$ 250,000	Estimated Time to Complete (Days) 195 Days	Starting Date 02/15/12	Completion Date 08/01/2012
--------------------------------------	---	---------------------------	-------------------------------

Plans: Prints of each drawing must be submitted with copies of application. Include plan showing area affected by proposed work

Title of Plan Drawing Terminal C and D - Wayfinding Signage	Drawing No. Refer to Drawing Set Index Sheet for a complete list of drawings.	Dated 01/26/2012
---	---	----------------------------

Contractor: Name and Address (If Not Known, Submit Later) VRH Construction Corp. 320 Grand Avenue Englewood, NJ 07631-4335 Phone No. 201-871-4422 License No. 023395-1 Email s.hausssel@vrhcorp.com 13-5672403 (Federal ID)	Engineer or Architect Name and Address William J. Liese Corgan Associates Architects PC 350 Fifth Avenue, Suite 5401, New York, NY 10118 Phone No. 212-490-2930 License No. 023395-1 Email jay.liese@corgan.com
--	--

Send Correspondence To:
(Name and Address of Employee in Charge of Work)
Pam Drenner, Facilities,
Dept. 877, Corporate Real Estate, Delta Air Lines, Inc. Delta
Air Lines Flight Center, LGA Airport, Flushing, NY 11371-1097

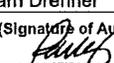
Phone No. 404-773-2877
Email brian.gore@delta.com

ENGINEER OR ARCHITECT CERTIFICATION
 I have supervised the preparation of plans and specification for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which should be applicable if the Port Authority were a private corporation.

Applicant's Name (As It Appears on Lease or Permit)
Pam Drenner

Signature of Licensed Professional Engineer or Architect

 Date **01/26/2012**

By (Signature of Authorized Rep.)  Title General Manager Date 01/26/2012

Part Two: MWBE Program Information

A Minority/Women Business Enterprise (MWBE) Plan is attached hereto for PA approval. The Tenant's contact person responsible for this project's MWBE Program is named below.

MWBE Contact Person (Name and address):

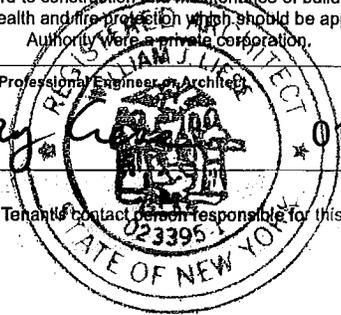
Phone No. _____ Email _____

Part Three: Design Approval (FOR PA USE ONLY)

The above Application Status is: Full Approval Withheld. Subject to the following conditions Conditional Approval

Signature _____ Reference Letter By _____

Prepared By	Date	Title	Date
			01/26/2012



THE PORT AUTHORITY OF NY & NJ

TAA Ph 1 02

*Tenant's Form Identifying
Architect/Engineer of Record*

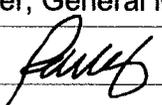
Tenant Name Delta Air Lines, Inc.
Facility LGA - Terminal D
Project Terminal C and D Wayfinding Signage
TAA Number _____

Architect/Engineer of Record Information

Firm Name Corgan Associates Architects PC
Name, Title William J. Liese
Address 350 Fifth Avenue, Suite 5401
City, ST Zip New York, NY 10118
Phone: 212-490-2930 Email jay.liese@corgan.com
License State NY NJ No. 023395-1 Type PE RA

Comments _____

Note: If more than one A/EOR each must complete a separate form. Provide the TC details of the A/EOR organizational relationship and hierarchy.

Submitted By
Name, Title Pam Drenner, General Manager
Signature 
Date 01/26/2012
Copies To _____

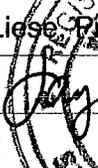
To be submitted by the Tenant at the Kick-off Meeting.

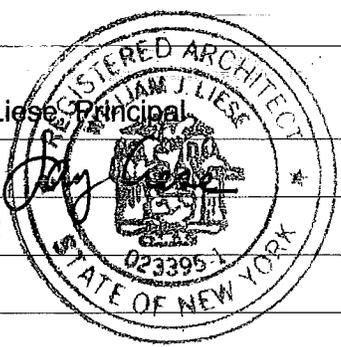
A/EOR Declaration with TAA Form PA 531

Tenant Name Delta Air Lines, Inc.
 Facility LGA - Terminal C and D
 Project Terminal C and D Wayfinding Signage
 TAA Number _____

Architect/Engineer of Record
 Firm Name Corgan Associates Architects PC
 Name, Title William J. Liese
 Address 350 Fifth Avenue, Suite 5401
 City, ST Zip New York, NY 10118
 Phone: 212-490-2930 Email jay.liese@corgan.com
 License State NY NJ No. 023395-1 Type PE RA

Comments
 With this Tenant Alteration Application we are submitting signed and sealed Contract Documents that describe the project.
 Our submittal incorporates all requirements of the TCAP Manual Section 4.1.2.4.
 The project is in conformance to the Americans with Disabilities Act (ADA) as well as local laws. All finishes comply with the requirements of both the Port Authority Construction Review Manual and (Building Code).
 A list of the Contract Documents submitted is provided in the attached form TAA Ph 1 07.

Submitted By
 Name, Title William J. Liese, Principal
 Signature 
 Date 01/26/2012
 Copies To _____



To be submitted by the A/EOR with the Contract Documents.

THE PORT AUTHORITY OF NY & NJ

MWA Ph 1 02

Minor Works Application

Refer to Checklist MWA CK 02

Tenant Name Delta Air Lines, Inc.
 Facility LGA - Terminal C and D
 Project Way-Finding Signage
 MWA Number _____

A. Scope Description (location, materials, etc.)

Square Footage (Approximate)	Cost Estimate	Schedule Estimate (MM/DD/YY)	
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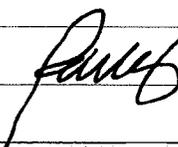
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14	Half Size Drawing Sets (see dwg for Drawing List)	-	01/13/2012	Corgan

B. Project Team

	Check if	M/WBE	License Detail
Consultant (if any) <u>Corgan Associates Architects, PC</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>023395-1</u>
Contractor <u>VRH Corporation</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

C. Requested By

Contact Pam Drenner
 Firm Name Delta Air Lines, Inc.
 Date 01/13/2012 Signature 
 Copies To _____

Approval to Install (FOR PA USE ONLY)

Approval to Install Not Approved

PA Letter Reference _____
 Tenant Coordinator _____
 Date 01/13/2012 Signature _____

**To be submitted under cover letter from Tenant.
 Approval to Install to be displayed at the work location.**



Delta Air Lines, Inc.
1030 Delta Boulevard
Department 877
Atlanta, Georgia 30354
Phone (404) 202-1045
Fax (404) 773-7671
Email pam.drenner@delta.com

January 13, 2012

Mr. Mark Paquiz
Tenant Coordinator
PANYNJ
La Guardia Airport
Hangar 7, Center, 3rd Floor
Flushing, NY 11371

SUBJECT: Minor Work Authorization Application
Terminals C and D Interior Signage

Dear Mr. Paquiz:

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If you have general questions please contact Ronan Byrne at 631-219-7001. For questions related to this scope of work please contact Wendy Bosek at Corgan Associates at 212-847-3070

Very truly yours,

A handwritten signature in black ink, appearing to read "Pam Drenner".

Pam Drenner
General Manager
NYC Design & Construction
Delta Air Lines, Inc.

cc:

THE PORT AUTHORITY OF NY & NJ

PA 531

Tenant Alteration Application

APPLICANT MUST READ THE TERMS AND CONDITIONS INCLUDED WITH THIS FORM

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Three hereof on behalf of the Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Three hereof and the terms and conditions set forth in this form.

Tenant Name	Delta Air Lines, Inc.
Facility	LGA - Terminal C and D
TAA Number	
Date	01/26/2012

Part One: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant.

At (Facility) LGA	Pursuant to (Lease, Space, Permit) No.	Location (Building No. or Area) of Space to be Altered Terminal C and D
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Description of Work and Reason

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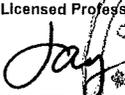
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--	--	---------------------

Contractor: Name and Address (If Not Known, Submit Later) VRH Construction Corp. 320 Grand Avenue Englewood, NJ 07631-4335	Engineer or Architect Name and Address William J. Liese Corgan Associates Architects PC 350 Fifth Avenue, Suite 5401, New York, NY 10118
Phone No. 201-871-4422 License No. 023395-1 Email s.hausssel@vrhcorp.com 13-5672403 (Federal ID)	Phone No. 212-490-2930 License No. 023395-1 Email jay.liese@corgan.com

Send Correspondence To:
(Name and Address of Employee In Charge of Work)
Pam Drenner, Facilities,
Dept. 877, Corporate Real Estate, Delta Air Lines, Inc. Delta
Air Lines Flight Center, LGA Airport, Flushing, NY 11371-1097

Phone No. 404-773-2877
Email brian.gore@delta.com

ENGINEER OR ARCHITECT CERTIFICATION
I have supervised the preparation of plans and specification for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which should be applicable if the Port Authority were a private corporation.

Applicant's Name (As It Appears on Lease or Permit) Pam Drenner	Signature of Licensed Professional Engineer or Architect 	Date 01/26/2012
By (Signature of Authorized Rep.) 	Title General Manager	Date 01/26/2012

Part Two: M/WBE Program Information

A Minority/Women Business Enterprise (M/WBE) Plan is attached hereto for PA approval. The Tenant's contact person responsible for this project's M/WBE Program is named below.

M/WBE Contact Person (Name and address):

Phone No. _____ Email _____

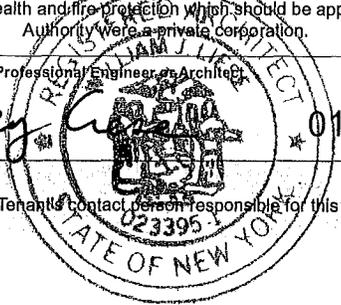
Part Three: Design Approval (FOR PA USE ONLY)

The above Application Status is: Full Approval Withheld. Subject to the following conditions Conditional Approval

Signature _____ Reference Letter By _____

Prepared By _____ Date _____ Title _____ Date _____

01/26/2012



*Tenant's Form Identifying
Architect/Engineer of Record*

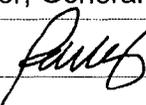
Tenant Name Delta Air Lines, Inc.
Facility LGA - Terminal D
Project Terminal C and D Wayfinding Signage
TAA Number _____

Architect/Engineer of Record Information

Firm Name Corgan Associates Architects PC
Name, Title William J. Liese
Address 350 Fifth Avenue, Suite 5401
City, ST Zip New York, NY 10118
Phone: 212-490-2930 Email jay.liese@corgan.com
License State NY NJ No. 023395-1 Type PE RA

Comments _____

Note: If more than one A/EOR each must complete a separate form. Provide the TC details of the A/EOR organizational relationship and hierarchy.

Submitted By _____
Name, Title Pam Drenner, General Manager
Signature 
Date 01/26/2012
Copies To _____

To be submitted by the Tenant at the Kick-off Meeting.

A/EOR Declaration with TAA Form PA 531

Tenant Name Delta Air Lines, Inc.
Facility LGA - Terminal C and D
Project Terminal C and D Wayfinding Signage
TAA Number _____

Architect/Engineer of Record

Firm Name Corgan Associates Architects PC

Name, Title William J. Liese

Address 350 Fifth Avenue, Suite 5401

City, ST Zip New York, NY 10118

Phone: 212-490-2930

Email jay.liese@corgan.com

License State NY NJ No. 023395-1 Type PE RA

Comments

With this Tenant Alteration Application we are submitting signed and sealed Contract Documents that describe the project.

Our submittal incorporates all requirements of the TCAP Manual Section 4.1.2.4.

The project is in conformance to the Americans with Disabilities Act (ADA) as well as local laws. All finishes comply with the requirements of both the Port Authority Construction Review Manual and (Building Code).

A list of the Contract Documents submitted is provided in the attached form TAA Ph 1 07.

Submitted By

Name, Title William J. Liese, Principal

Signature _____

Date 01/26/2012

Copies To _____



To be submitted by the A/EOR with the Contract Documents.



Transmittal

CORGAN ASSOCIATES ARCHITECTS PC
 350 FIFTH AVENUE
 SUITE 5401
 NEW YORK, NY 10118
 TEL 212 490 2930
 FAX 212 490 3052
 www.corgan.com

RECEIVED JAN 26 2012

To Mr. Mark Paquiz
 The Port Authority of NY & NJ
 LaGuardia Airport
 Hangar 7 Center, 3rd Floor
 Flushing, NY 11371

Date 26 January 2012

Phone 718-533-4221

Project LGA Terminals C & D – Way-Finding Signage

From Suma Karveti

Project Number 11254.1000

Re TAA and MWA Applications

These are for review and/or processing, or as indicated on the information transmitted.

Copies	Date	Description
3	01/26/12	PANYNJ Form - PA 531
3	01/26/12	PANYNJ Form - TAA Ph 1 02
3	01/26/12	PANYNJ Form - TAA Ph 1 06
3	01/26/12	PANYNJ Form - TAA Ph 1 07
		Note: MWA form and Tenant cover letter dated 01/13/12 are resubmitted with this package for your record. Updated Signage drawings (including TAA and MWA scope) have been sent as a separate package.
3	01/26/12	Delta Air Lines Cover letter
3	01/26/12	PANYNJ Form - MWA Ph 1 02
1	01/26/12	CD containing PANYNJ form - TAA Ph 1 07



Transmittal

CORGAN ASSOCIATES ARCHITECTS PC
 350 FIFTH AVENUE
 SUITE 5401
 NEW YORK, NY 10118
 TEL 212 490 2930
 FAX 212 490 3052
 www.corgan.com

To Mr. Mark Paquiz
 The Port Authority of NY & NJ
 LaGuardia Airport
 Hangar 7 Center, 3rd Floor
 Flushing, NY 11371

Date 26 January 2012

RECEIVED JAN 23 2012

Phone 718-533-4221

Project LGA Terminals C & D – Way-Finding Signage

From Wendy Bosek

Project Number 11254.1000

Re TAA Submission

These are for review and/or processing, or as indicated on the information transmitted.

Copies	Date	Description
14	01/26/12	TAA Submission Drawings (Half Size) – Refer to Drawing List for Complete Set

MWA-747 Delta - Term. C Gate Renumbering &
US Airways Sign Removal

CONSTRUCTION NOTIFICATION FORM

Port Authority of NY & NJ
La Guardia Airport

Working for Resident Engineer's Office
CONTRACT # : MWA747 TAA-G2496
Must be filled by the contractor

DAILY: 3/16/2012	WORK DATE: 3/19/2012
CONTRACTOR : VRH Construction	Subcontractor:
REQUEST GUARD : N/A	
Guard Post / Construction Gate: N/A	
CONSTRUCTION LOCATION : Exterior Signage, Terminal C	

John McGrath	3020097903	7:00am	3:30pm	VRH Construction	cell 201-376-3074
Roib Carr	3020095681	7:00am	3:30pm	VRH Construction	cell 347-231-0000
Anthony Camabuci	3020101847	7:00am	3:30pm	VRH Construction	cell 917-418-0100
Chris Andeson	xxx-xx-8153	7:00am	3:30pm	Going Sign Co.	
James Curry	xxx-xx-1770	7:00am	3:30pm	Going Sign Co.	
Alan Scheriff	xxx-xx-4601	7:00am	3:30pm	Going Sign Co.	
James Ragone	xxx-xx-3016	7:00am	3:30pm	Going Sign Co.	
Ismer Zvinc	xxx-xx-9573	7:00am	3:30pm	Going Sign Co.	
Rudy Sol	xxx-xx-1818	7:00am	3:30pm	Going Sign Co.	
Ken Moore	xxx-xx-6111	7:00am	3:30pm	Going Sign Co.	
John Weissinger	xxx-xx-5709	7:00am	3:30pm	Going Sign Co.	
Fred Schultz	xxx-xx-2290	7:00am	3:30pm	Going Sign Co.	
Mike Compitello	xxx-xx-8929	7:00am	3:30pm	Going Sign Co.	
Mike Kannry	xxx-xx-5501	7:00am	3:30pm	Going Sign Co.	
Kevin Going	xxx-xx-2819	7:00am	3:30pm	Going Sign Co.	

This list must be faxed to the following numbers by 12 noon the day before work is to be performed

Police Department: 718-533-5624	Operation's Office: 718-533-3606	Hangar No. 7 REO: 718-533-3801
T.S.A.: 718-639-7322	Operations Airside: 718-533-3536	CTB- REO: 718-533-3768
PEG Tour Command: 718-533-3772		Notes:

Inspector's Name: Mark Paquiz	Inspector's Signature
Telephone: 718 - 533 - 3796	
Fax # : 718 - 533 - 3767	

P.1
 718-505-2759
 VRH DELTA LGA
 Mar 16 2012 4:21PM

CONSTRUCTION NOTIFICATION FORM

Port Authority of NY & NJ
La Guardia Airport

Working for Tenant Liaison's Office

CONTRACT #: WADA 747

Must be filled by the contractor

DAILY 3/16/2012
 CONTRACTOR: VRH Construction Corp.
 REQUEST GUARD: N/A
 Guard Post / Construction Gate: N/A
 CONSTRUCTION LOCATION: EXTENSION SIGN, EASTERN, TERMINAL C

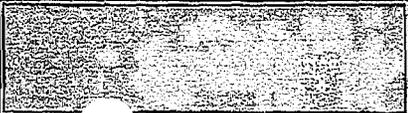
WORK DATE: 3/19/2012
Subcontractor: GOING SIGN.

Construction Personnel	Card #	Start Time	Finish Time	Company Name	Company Vehicle Information Mark - Plate # - Color - Pin #
John Mc Guire	30200340	7:00 AM	3:30 PM	VRH CONST. CORP	CELL # 201-376-3014
ROB CARR	3020095681	7:00 AM	3:30 PM	VRH CONST. CORP	CELL # 347-231-0000
CHRIS ANDERSON	xxx-xx-8153	7 AM	5:30 PM	GOING SIGN Co.	
TAMIE CUNY	1770				
ALAN SCHERIFF	4601				
JAMES RAGONE	3016				
ISMER ZVIRIC	9573				
RUDY SOL	1818				
KEVIN MOORE	6111				
JOHN WIESSINGER	5109				
FRED SCHULTZ	2190				
MIKE COMPITELLO	8929				
MIKE KANNY	5501				
KEVIN GOING	2819				

This list must be faxed to the following numbers by 12 noon the day before work is to be performed

Police Department: 718-533-5624	Operation's Office: 718-533-3606	Hangar No. 7 REO: 718-533-3801
T.S.A.: 718-639-7322	Operations Airside: 718-533-3536	CTB- REO: 718-533-3768
PEG Tour Command: 718-533-3772	PP&R 718-533-3767	Notes:

Liaison Contact: Mark Paquiz
Telephone: 718 - 533 - 4221
Fax # : 718 - 533 - 3767



Liaison's Signature



THE PORT AUTHORITY OF NY & NJ

March 14, 2012

Mr. Brian Gore
RM, NYC Design & Construction
Delta Airlines, Inc.
1030 Delta Boulevard, Dept. 877
Atlanta, GA 30354

**RE: LaGuardia Airport – Minor Works Application - MWA-747
Delta Airlines, Inc. – Terminal C Gate Renumbering and
US Airways Sign Removal**

Dear Mr. Gore:

Reference is made to the drawings and other materials submitted under cover of letter from Delta Airlines, Inc. dated January 25, 2012 and email received March 9, 2012 requesting permission to perform the above-captioned work.

Please be advised that the Port Authority find no objection to this work being performed as indicated in your letter. However, the following must be complied with during construction:

A daily faxed sheet will be sent to PA Operations, Police and the Resident Engineer's Office by noon for work scheduled that evening or the following day listing all construction workers and planned deliveries of materials.

- All construction workers must wear a valid photo ID on their outermost garment.
- No parking will be provided to the contractor or its subcontractors by the Port Authority.
- Escorts of oversized equipment will be handled by Port Authority Operations.
- FOD controls must be put in to place while work is being done in the aeronautical area.
- All TSA rules and regulations for work in this location must be adhered to.
- All contractor equipment and construction materiel must be stored within the Delta leasehold.
- Any contractor work cannot interfere with aircraft operations within the alleyway or interfere with vehicular traffic.

*LaGuardia Airport
Flushing, NY 11371
T: 212 435 7000*



THE PORT AUTHORITY OF NY & NJ

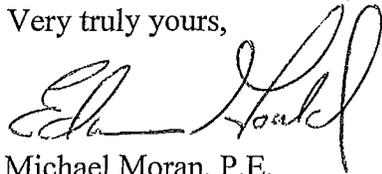
Please contact Ms. Elizabeth Danquah of the Tenant Liaison Office at (718) 533-4228 to arrange for a pre-construction meeting. This request should be made at least forty-eight hours prior to the start of work. Before the pre-construction meeting, you must present the following documents:

- a) A complete set of drawings and specifications.

In addition, please note that a "Certification of Completion" by the Architect/Engineer of Record, certifying the work was completed in conformance with the approved design, specifications and applicable rules/regulations, must be submitted to my office, prior to beneficial occupancy/use of the premises.

Should you have any questions, please call Mr. Mark Paquiz of my staff at (718) 533-4221.

Very truly yours,

for 

Michael Moran, P.E.
Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

cc: Mr. Thomas L Bosco, General Manager, LaGuardia Airport
Ms. P. Drenner, Delta Airlines, Inc.

bcc: R Calise, N. Russo, F. Patterson, Z. Jaffery, E Alexander, J. Winslow

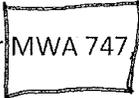
Tenant Rep Info

Mr. Brian Gore
Regional Manager
Delta Airlines, Inc.
1030 Delta Boulevard, Dept. 877
Atlanta, GA 30354

Paquiz, Mark

From: Byrne, Ronan [Ronan.Byrne@parsons.com]
Sent: Friday, March 09, 2012 3:26 PM
To: Paquiz, Mark
Subject: FW: VRH Construction Corp. - Delta Air Lines, Inc./The Port Authority of NY & NJ-2422?02 [CHI030212299277]
Attachments: image001.jpg; The Port Authority of NY & NJ-242202.pdf

Mark,

I am requesting the pre-con for  MWA 747 the removal of the US Airways shuttle signs. Attached is the certificate of insurance,

Please let me know if you need any further information,

Thanks,

Ronan

From: Hausssel, Steve [mailto:S.Hausssel@vrhcorp.com]
Sent: Friday, March 09, 2012 1:14 PM
To: Byrne, Ronan
Subject: FW: VRH Construction Corp. - Delta Air Lines, Inc./The Port Authority of NY & NJ-2422?02 [CHI030212299277]

Ronan,

In accordance with your request please find COI naming both Delta Air Lines and PANYNJ as Certificate Holder for your use and records. Should you need anything further do not hesitate to call.

Regards,

**Steve Hausssel**
Project Executive
320 Grand Ave.
Englewood, NJ 07631
Phone: 201-871-4422
Fax: 201-871-6727 Mobile: 917-559-3137
www.vrhcorp.com

Disclaimer: The content of this e-mail is intended solely for the use of the Individual or entity to whom it is addressed. If you have received this communication in error, be aware that forwarding it, copying it, or in any way disclosing its content to any other person, is strictly prohibited. If you have received this communication in error, please notify the author by replying to this e-mail immediately.

POLICY NUMBER: DT-CO-828K578A-PHX-11

ISSUE DATE: 10-14-11

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**DESIGNATED ENTITY – NOTICE OF
CANCELLATION/NONRENEWAL PROVIDED BY US**

This endorsement modifies insurance provided under the following:

ALL COVERAGE PARTS INCLUDED IN THIS POLICY

SCHEDULE

CANCELLATION:	Number of Days Notice of Cancellation: 30
NONRENEWAL:	Number of Days Notice of Nonrenewal:
PERSON OR ORGANIZATION:	
THE PORT AUTHORITY OF NY & NJ	

ADDRESS:
HANGAR 7C, 3RD FLOOR
LAGUARDIA AIRPORT
FLUSHING, NY 11371

PROVISIONS:

- A. If we cancel this policy for any statutorily permitted reason other than nonpayment of premium, and a number of days is shown for cancellation in the schedule above, we will mail notice of cancellation to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for cancellation in the schedule above before the effective date of cancellation.
- B. If we decide to not renew this policy for any statutorily permitted reason, and a number of days is shown for nonrenewal in the schedule above, we will mail notice of the nonrenewal to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for nonrenewal in the schedule above before the expiration date.

POLICY NUMBER: DT-810-828K5778-COF-11

ISSUE DATE: 10-17-11

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

DESIGNATED ENTITY – NOTICE OF CANCELLATION/NONRENEWAL PROVIDED BY US

This endorsement modifies insurance provided under the following:

ALL COVERAGE PARTS INCLUDED IN THIS POLICY

SCHEDULE

CANCELLATION:

Number of Days Notice of Cancellation: 30

NONRENEWAL:

Number of Days Notice of Nonrenewal:

PERSON OR

ORGANIZATION: THE PORT AUTHORITY OF NY & NJ

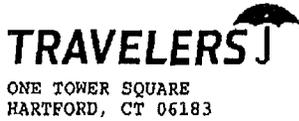
ADDRESS: HANGAR 7C, 3RD FLOOR

LAGUARDIA AIRPORT

FLUSHING, NY 11371

PROVISIONS:

- A. If we cancel this policy for any statutorily permitted reason other than nonpayment of premium, and a number of days is shown for cancellation in the schedule above, we will mail notice of cancellation to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for cancellation in the schedule above before the effective date of cancellation.
- B. If we decide to not renew this policy for any statutorily permitted reason, and a number of days is shown for nonrenewal in the schedule above, we will mail notice of the nonrenewal to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for nonrenewal in the schedule above before the expiration date.



WORKERS COMPENSATION
AND
EMPLOYERS LIABILITY POLICY
ENDORSEMENT WC 99 06 11 (A)

POLICY NUMBER: (DTNUB-828K577-8-11)

NOTICE OF CANCELLATION

Except for non-payment of premium by you, we agree that no cancellation or limitation of this policy shall become effective until the number of day's written notice specified in item 2 of the Schedule has been mailed to you and to the person or organization designated in item 1 of the Schedule at the address indicated.

SCHEDULE

1. Name: THE PORT AUTHORITY OF NY & NJ

Address: HANGER 7C, 3RD FLOOR
LAGUARDIA AIRPORT
FLUSHING, NY 11371

2. Number of Days Written Notice: 30 Additional Days

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective	Policy No.	Endorsement No.
Insured		Premium \$
Insurance Company	Countersigned by _____	

ENDORSEMENT No. 25

This endorsement, effective 12:01 AM: September 30, 2011

Forms a part of policy no: BE 88283048

Issued to: V.R.H. CONSTRUCTION CORP.

By: NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**LIMITED ADVICE OF CANCELLATION PROVIDED VIA E-MAIL
TO ENTITIES OTHER THAN THE FIRST NAMED INSURED**

This policy is amended as follows:

In the event that the Insurer cancels this policy for any reason other than non-payment of premium, and

1. the cancellation effective date is prior to this policy's expiration date;
2. the **First Named Insured** is under an existing contractual obligation to notify a certificate holder when this policy is canceled (hereinafter, the "Certificate Holder(s)") and has provided to the Insurer, either directly or through its broker of record, the email address of a contact at each such entity; and
3. the Insurer received this information after the **First Named Insured** receives notice of cancellation of this policy and prior to this policy's cancellation effective date, via an electronic spreadsheet that is acceptable to the Insurer,

the Insurer will provide advice of cancellation (the "Advice") via e-mail to each such Certificate Holders within [90] days after the **First Named Insured** provides such information to the Insurer; provided, however, that if a specific number of days is not stated above, then the Advice will be provided to such Certificate Holder(s) as soon as reasonably practicable after the **First Named Insured** provides such information to the Insurer.

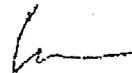
Proof of the Insurer emailing the Advice, using the information provided by the **First Named Insured**, will serve as proof that the Insurer has fully satisfied its obligations under this endorsement.

This endorsement does not affect, in any way, coverage provided under this policy or the cancellation of this policy or the effective date thereof, nor shall this endorsement invest any rights in any entity not insured under this policy.

The following Definitions apply to this endorsement:

1. **First Named Insured** means the Named Insured shown on the Declarations Page of this policy.
2. **Insurer** means the insurance company shown in the header on the Declarations page of this policy.

All other terms, conditions and exclusions shall remain the same.



Christopher G. Kooser

AUTHORIZED REPRESENTATIVE

MAINTENANCE REVIEW REQUEST
LAGUARDIA AIRPORT

# Copy	Drwgs	Distribution	Location	Description of Work:	Facility: LGA
1		Central File CF	LGA Hangar 7	Delta Terminal - Terminal C Gate Renumbering & US Airways Sign Removal	Appl. Name: Delta Airlines, Inc.
1		R. Calise OPS	LGA CTB 3FL		Maintenance. No. M-747
1		F. Patterson PROP	LGA Hangar 7		
1		Nick Russo REO2	LGA CTB 3FL		Date: 3/2/2012
1		Zaheer Jaffery APD	225 PAS 9FL	[*] Please review the attached application and/or documents & send comments to: ED	
1		E. Alexander AVC	225 PAS 9FL	[] Attached are revised drawings and/or documents. Please review only those items on which exception was previously taken and send your comments to:	
1		J. Winslow ATS	233 PAS 9FL		
				304 LGA-Zip-12 Elizabeth Danquah, (718)533-4228 Org 2 nd floor Contact Phone	
				No later than: 3/9/2012	
				If no comments, please check box below and return to M. Paquiz on or before due date shown.	
				No Comments <input checked="" type="checkbox"/> Date: 3/9/12 Reviewer: J. Patterson	
				Attachments: - Letter from Tenant - MWA Form - Drawing/Pictures	

MAINTENANCE REVIEW REQUEST
LAGUARDIA AIRPORT

# Copy	Drwgs	Distribution	Location	Description of Work:	Facility: LGA
1		Central File CF	LGA Hangar 7	Delta Terminal - Terminal C Gate Renumbering & US Airways Sign Removal	Appl. Name: Delta Airlines, Inc.
1		R. Calise OPS	LGA CTB 3FL		Maintenance. No. M-747
1		F. Patterson PROP	LGA Hangar 7		
1		Nick Russo REO2	LGA CTB 3FL		Date: 3/2/2012
1		Zaheer Jaffery APD	225 PAS 9FL	[*] Please review the attached application and/or documents & send comments to: ED	
1		E. Alexander AVC	225 PAS 9FL	[] Attached are revised drawings and/or documents. Please review only those items on which exception was previously taken and send your comments to:	
1		J. Winslow ATS	233 PAS 9FL		
				304 LGA-Zip-12 Elizabeth Danquah, (718)533-4228 Org 2 nd floor Contact Phone	
				No later than: 3/9/2012	
				If no comments, please check box below and return to M. Paquiz on or before due date shown.	
				No Comments [] Date: Reviewer:	
				Attachments:	
				- Letter from Tenant	
				- MWA Form	
				- Drawing/Pictures	



Delta Air Lines, Inc.
1030 Delta Boulevard
Department 877
Atlanta, Georgia 30354
Phone (404) 202-1045
Fax (404) 773-7671
Email pam.drenner@delta.com

January 25, 2012

Mr. Mark Paquiz
Tenant Coordinator
PANYNJ
La Guardia Airport
Hangar 7, Center, 3rd Floor
Flushing, NY 11371

SUBJECT: Minor Work Authorization Application
Terminal C Gate Renumbering and US Airways Sign Removal

Dear Mr. Paquiz:

As part of the Terminals C and D Redevelopment, Delta Air Lines requests permission to install new exterior gate sign faces in existing enclosures at eight gates in the East finger of Terminal C and remove the existing US Airways LED sign on the roof at the Southeast corner of Terminal C including disconnecting and safing off the existing electrical feed for future use.

If you have general questions please contact Ronan Byrne at 631-219-7001. For questions related to this scope of work please contact Kevin Going at Going Sign & Servicing at 516-349-7600.

Very truly yours,

A handwritten signature in black ink, appearing to read "B. Gore", written over a horizontal line.

Brian Gore
Regional Manager - Facilities
Corporate Real Estate
Delta Air Lines, Inc.

cc: Kevin Going, Ronan Byrne

THE PORT AUTHORITY OF NY & NJ

TAA-MWA Ph 1 01

Project Initiation Form

Tenant Name Delta Air Lines
 Facility LaGuardia Airport - Terminals C
 Project Gate Renumbering and sign removal

A. Scope Description (Indicate the number of submission packages proposed)

Change faces for existing exterior gate signs at new gates 15, 16, 17, 18, 20, 21, 23, 24
 Removal of existing USAirways Shuttle Sign on East end of Departures level

Emergency Work Application

Phased Occupancy

Square Footage (Approximate)	Cost Estimate	Schedule Estimate (MM/DD/YY)
SF <u>N/A</u>	\$ <u>18,000</u>	From <u>03/20/2012</u> To <u>03/24/2012</u>

Are there any:	Yes	No
Code Issues	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Impacts on life safety systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Impacts on fire protection systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Impacts on ventilation systems	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Egress changes	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Structural integrity impacts	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hazardous materials present / used	<input type="checkbox"/>	<input checked="" type="checkbox"/>

B. Project Team (if known)

	Check if	M/WBE	Licensed in project state
Design consultant <u>Going Sign and Servicing</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Contractor(s) <u>Going Sign and Servicing</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

C. Requested By

Contact Kevin Going
 Firm Name Going Sign and Servicing
 Signature *Kevin Going* Date _____
 Copies To Brian Gore-Delta; Ronan Byrne-Parsons

Project Determination (FOR PA USE ONLY)

Tenant Alteration Application Approved as Emergency Work Application
 Minor Works Application Emergency Work No. _____

Tenant Coordinator _____
 Signature _____ Date _____

To be submitted under cover letter from Tenant.

THE PORT AUTHORITY OF NY & NJ

MWA Ph 1 02

Minor Works Application

Refer to Checklist MWA CK 02

Tenant Name Delta Air Lines

Facility LaGuardia Airport - Terminals C

Project Gate renumbering and sign removal

MWA Number _____

A. Scope Description (location, materials, etc.)

Change faces for existing exterior gate signs at new gates 15, 16, 17, 18, 20, 21, 23, 24
Removal of existing USAirways Shuttle Sign on East end of Departures level

Square Footage (Approximate)	Cost Estimate	Schedule Estimate (MM/DD/YY)
SF Ext	\$ 18.000	From 03/20/2012 To 03/24/2012

Please find the following attached documents as per TCAP Manual Section 1.7 and Section 5.2.

Quantity	Description	Revision No.	Dated	By
5	Drawings of proposed new gates	Original	01/31/2012	Going
5	Photo of existing USAirways sign	Original	02/28/2012	Going
5	Key Plan	Original	02/28/2012	Going

B. Project Team

	Check if	MWBE	License Detail
Consultant (if any) <u>Going Sign and Servicing</u>		<input type="checkbox"/>	
Contractor <u>Going Sign and Servicing</u>		<input type="checkbox"/>	
Other		<input type="checkbox"/>	

C. Requested By

Contact Kevin Going

Firm Name Going Sign and Servicing

Date _____ Signature _____

Copies To Brian Gore-Delta; Ronan Byrne-Parsons

Approval to Install (FOR PA USE ONLY)

Approval to Install Not Approved

PA Letter Reference _____

Tenant Coordinator _____

Date _____ Signature _____

**To be submitted under cover letter from Tenant.
Approval to Install to be displayed at the work location.**

ably powerful.

EXISTING SIGNAGE

U.S. AIRWAYS
Sawyer



TERMINAL C, LaGUARDIA AIRPORT, NY

Approved by:

Date:

Revision Comments

By:

Sign & Servicing Co., Inc.

EXISTING SIGN
SIGN TYPE A

D-11247

1 of 4

NOTES - THIS IS AN UNPUBLISHED DRAWING DESIGNED FOR YOUR USE. SUBMITTED IN CONNECTION WITH A PROJECT BEING OBTAINED FROM YOU BY THE DESIGNER TO WHOM IT IS NOT TO BE REPRODUCED OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE DESIGNER. ANY REVISIONS TO THIS DRAWING SHALL BE INDICATED BY WORKING FROM ONE OF THE DATES OF THE ORIGINAL DRAWING. PLANNING, L.L.C.

MWA-741 Delta - Way finding signage -
Term. C&D



THE PORT AUTHORITY OF NY & NJ

February 29, 2012

Mr. Don Stolt
NYC Design & Construction
Delta Airlines, Inc.
1030 Delta Boulevard, Dept. 877
Atlanta, GA 30354

**RE: LaGuardia Airport – Minor Works Application - MWA-741
Delta Airlines, Inc. – Terminals C & D – “Wayfinding Signage”**

Dear Mr. Stolt:

Reference is made to the drawings and other materials submitted under cover of letter from Delta Airlines, Inc. dated January 13, 2012 and documents received February 28, 2012 requesting permission to perform the above-captioned work.

Please be advised that the Port Authority find no objection to this work being performed as indicated in your letter. However, the following must be complied with during construction:

- Ensure the most current PANYNJ Sign Standard concerning Interior signage dated the Fourth Edition, June 2008.
- No attended vehicles will be permitted to park in front of DAL terminals at any time
- Work should not interfere with Port Authority's Ground Transportation Service operations
- A daily faxed sheet will be sent to PA Operations, Police and Resident Engineer's office at the Central Terminal Building by noon for work scheduled that evening or the following day listing all construction workers planned deliveries of material, etc. All workers must display company ID badges on their outer garment at all times and possess a valid photo government ID. (Fax numbers and access forms will be provided at a pre-construction meeting)
- Submit the color coded plans.
- **An inspection of this MWA will be required.** Any signage that is inaccurate or does not satisfy the sign standards shall be corrected / replaced.

Please contact Ms. Elizabeth Danquah of the Tenant Liaison Office at (718) 533-4228 to arrange for a pre-construction meeting. This request should be made at least forty-eight hours prior to the start of work. Before the pre-construction meeting, you must present the following documents:

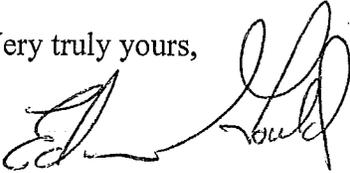
- a) A complete set of drawings and specifications.

LaGuardia Airport
Flushing, NY 11371
T: 212 435 7000

In addition, please note that a "Certification of Completion" by the Architect/Engineer of Record, certifying the work was completed in conformance with the approved design, specifications and applicable rules/regulations, must be submitted to my office, prior to beneficial occupancy/use of the premises.

Should you have any questions, please call Mr. Mark Paquiz of my staff at (718) 533-4221.

Very truly yours,



for Michael Moran, P.E.
Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

cc: Mr. Thomas L Bosco, General Manager, LaGuardia Airport
Mr. B. Gore, Delta Airlines, Inc.

bcc: R. Calise, E. Alexander, M. Villane, N. Russo, F. Patterson,

Tenant Rep Info

Mr. Brian Gore
Regional Manager
Delta Airlines, Inc.
1030 Delta Boulevard, Dept. 877
Atlanta, GA 30354

CONSTRUCTION NOTIFICATION FORM

Port Authority of NY & NJ
La Guardia Airport

Working for Resident Engineer's Office

CONTRACT # : MWA 741

Must be filled by the contractor

DAILY:	4/30/2012	WORK DATE:	5/1/2012
CONTRACTOR :	VRH Construction	Subcontractor:	
REQUEST GUARD :	N/A		
Guard Post / Construction Gate:	N/A		
CONSTRUCTION LOCATION :	Wayfinding Phase 1 Day 1		

John McGrath	3020097903	7:00AM	3:30PM	VRH Construction	cell 201-376-3074
PJ Marlowe	3020096030	7:00AM	3:30PM	VRH Construction	cell 201-538-4852
Anthony Carnabuci	3020101847	7:00AM	3:30PM	VRH Construction	cell 917-418-0100
James Curry	xxx-xx-1770	7:00AM	3:30PM	Going Sign Co.	
Rudy Sol	xxx-xx-1818	7:00AM	3:30PM	Going Sign Co.	

This list must be faxed to the following numbers by 12 noon the day before work is to be performed

Police Department: 718-533-5624	Operation's Office: 718-533-3808	Hangar No. 7 REO: 718-533-3801
T.S.A.: 718-639-7322	Operations Airside: 718-533-3536	CTB- REO: 718-533-3768
PEG Tour Command: 718-533-3772		Notes:

Inspector's Name: Mark Paquiz	Inspector's Signature
Telephone: 718 - 533 - 3796	
Fax # : 718 - 533 - 3767	

P.1
 718-505-2759
 VRH DELTA LGA
 Apr 30 2012 11:35AM

Thanks
Maggi Villane
Manager, Customer Care Programs and
Partner Relations

Paquiz, Mark

From: Paquiz, Mark
Sent: Thursday, March 01, 2012 12:49 PM
To: 'Byrne, Ronan'; 'Stolt, Donald W'; Brian Gore
Cc: Gould, Ed; Danquah, Elizabeth
Subject: MWA 741 apprvl letter

FYI

Attached is electronic copy for MWA 741 apprvl letter.

Mark R. Paquiz, P.E.
Port Authority of NY & NJ
LGA Plant, Structures & Airport Redevelopment
(718) 533-4221



741 Apprvl
letter.pdf

Paquiz, Mark

From: Paquiz, Mark
Sent: Wednesday, February 29, 2012 12:15 PM
To: Villane, Maggi; Gould, Ed; Alexander, Earlyne
Subject: RE: Delta sign package

Maggi/Earlyne,

Now that delta has their insurance for contractor straightened out, we will be issuing approval of this M-Letter.

Note that we have put in the approval letter comments requesting colored dwgs, as well as a required PA inspection at the end of the job. We need someone from your office at that inspection to make sure all signs are satisfactory, and there are no "inaccurate" signs.

Mark

From: Villane, Maggi
Sent: Friday, February 17, 2012 9:49 AM
To: Paquiz, Mark; Gould, Ed; Alexander, Earlyne
Cc: Tragale, Ralph
Subject: Delta sign package

Per the direction of the front office, please approve the delta sign package prior to them submitting the color coded plan. They will have to submit the plan in color but we will approve it prior to the submission. Please relay that information.

Please indicate to them they will have to correct any inaccurate signs. If you have any questions, please let me know

Thanks
Maggi Villane
Manager, Customer Care Programs and
Partner Realtions

POLICY NUMBER: DT-CO-828X578A-PHX-11

ISSUE DATE: 10-14-11

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**DESIGNATED ENTITY – NOTICE OF
CANCELLATION/NONRENEWAL PROVIDED BY US**

This endorsement modifies insurance provided under the following:

ALL COVERAGE PARTS INCLUDED IN THIS POLICY

SCHEDULE

CANCELLATION:

Number of Days Notice of Cancellation: 30

NONRENEWAL:

Number of Days Notice of Nonrenewal:

PERSON OR

ORGANIZATION:

THE PORT AUTHORITY OF NY & NJ

ADDRESS:

HANGAR 7C, 3RD FLOOR
LAGUARDIA AIRPORT
FLUSHING, NY 11371

PROVISIONS:

- A. If we cancel this policy for any statutorily permitted reason other than nonpayment of premium, and a number of days is shown for cancellation in the schedule above, we will mail notice of cancellation to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for cancellation in the schedule above before the effective date of cancellation.
- B. If we decide to not renew this policy for any statutorily permitted reason, and a number of days is shown for nonrenewal in the schedule above, we will mail notice of the nonrenewal to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for nonrenewal in the schedule above before the expiration date.

POLICY NUMBER: DT-810-828K5778-COF-11

ISSUE DATE: 10-17-11

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**DESIGNATED ENTITY – NOTICE OF
CANCELLATION/NONRENEWAL PROVIDED BY US**

This endorsement modifies insurance provided under the following:
ALL COVERAGE PARTS INCLUDED IN THIS POLICY

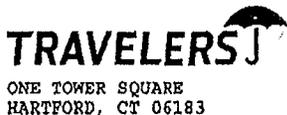
SCHEDULE

CANCELLATION: Number of Days Notice of Cancellation: 30
NONRENEWAL: Number of Days Notice of Nonrenewal:
PERSON OR
ORGANIZATION: THE PORT AUTHORITY OF NY & NJ

ADDRESS: HANGAR 7C, 3RD FLOOR
LAGUARDIA AIRPORT
FLUSHING, NY 11371

PROVISIONS:

- A. If we cancel this policy for any statutorily permitted reason other than nonpayment of premium, and a number of days is shown for cancellation in the schedule above, we will mail notice of cancellation to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for cancellation in the schedule above before the effective date of cancellation.
- B. If we decide to not renew this policy for any statutorily permitted reason, and a number of days is shown for nonrenewal in the schedule above, we will mail notice of the nonrenewal to the person or organization shown in the schedule above. We will mail such notice to the address shown in the schedule above at least the number of days shown for nonrenewal in the schedule above before the expiration date.



WORKERS COMPENSATION
AND
EMPLOYERS LIABILITY POLICY
ENDORSEMENT WC 99 06 11 (A)

POLICY NUMBER: (DTNUB-828K577-8-11)

NOTICE OF CANCELLATION

Except for non-payment of premium by you, we agree that no cancellation or limitation of this policy shall become effective until the number of day's written notice specified in item 2 of the Schedule has been mailed to you and to the person or organization designated in item 1 of the Schedule at the address indicated.

SCHEDULE

1. Name: THE PORT AUTHORITY OF NY & NJ

Address: HANGER 7C, 3RD FLOOR
LAGUARDIA AIRPORT
FLUSHING, NY 11371

2. Number of Days Written Notice: 30 Additional Days

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

Endorsement Effective	Policy No.	Endorsement No.
Insured		Premium \$
Insurance Company	Countersigned by _____	

DATE OF ISSUE: 10-14-11

ST ASSIGN:

ENDORSEMENT No. 25

This endorsement, effective 12:01 AM: September 30, 2011

Forms a part of policy no: BE 88283048

Issued to: V.R.H. CONSTRUCTION CORP.

By: NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**LIMITED ADVICE OF CANCELLATION PROVIDED VIA E-MAIL
TO ENTITIES OTHER THAN THE FIRST NAMED INSURED**

This policy is amended as follows:

In the event that the Insurer cancels this policy for any reason other than non-payment of premium, and

1. the cancellation effective date is prior to this policy's expiration date;
2. the First Named Insured is under an existing contractual obligation to notify a certificate holder when this policy is canceled (hereinafter, the "Certificate Holder(s)") and has provided to the Insurer, either directly or through its broker of record, the email address of a contact at each such entity; and
3. the Insurer received this information after the First Named Insured receives notice of cancellation of this policy and prior to this policy's cancellation effective date, via an electronic spreadsheet that is acceptable to the Insurer,

the Insurer will provide advice of cancellation (the "Advice") via e-mail to each such Certificate Holders within [90] days after the First Named Insured provides such information to the Insurer; provided, however, that if a specific number of days is not stated above, then the Advice will be provided to such Certificate Holder(s) as soon as reasonably practicable after the First Named Insured provides such information to the Insurer.

Proof of the Insurer emailing the Advice, using the information provided by the First Named Insured, will serve as proof that the Insurer has fully satisfied its obligations under this endorsement.

This endorsement does not affect, in any way, coverage provided under this policy or the cancellation of this policy or the effective date thereof, nor shall this endorsement invest any rights in any entity not insured under this policy.

The following Definitions apply to this endorsement:

1. First Named Insured means the Named Insured shown on the Declarations Page of this policy.
2. Insurer means the insurance company shown in the header on the Declarations page of this policy.

All other terms, conditions and exclusions shall remain the same.



Christopher G. Kopser

AUTHORIZED REPRESENTATIVE



RECEIVED JAN 26 2012

Delta Air Lines, Inc.
1030 Delta Boulevard
Department 877
Atlanta, Georgia 30354
Phone (404) 202-1045
Fax (404) 773-7671
Email pam.drenner@delta.com

January 13, 2012

Mr. Mark Paquiz
Tenant Coordinator
PANYNJ
La Guardia Airport
Hangar 7, Center, 3rd Floor
Flushing, NY 11371

SUBJECT: Minor Work Authorization Application
Terminals C and D Interior Signage

Dear Mr. Paquiz:

As part of the Terminals C and D Redevelopment, Delta Air Lines requests permission to undergo revising the interior wayfinding signage to reflect the new operating arrangement at the terminals.

The scope of this project is to install new signs in the terminals inline with the new gate numbering and PA signage standards.

If you have general questions please contact Ronan Byrne at 631-219-7001. For questions related to this scope of work please contact Wendy Bosek at Corgan Associates at 212-847-3070

Very truly yours,

Pam Drenner
General Manager
NYC Design & Construction
Delta Air Lines, Inc.

cc:

THE PORT AUTHORITY OF NY & NJ

MWA Ph 1 02

Minor Works Application
Refer to Checklist MWA CK 02

Tenant Name Delta Air Lines, Inc.
Facility LGA - Terminal C and D
Project Way-Finding Signage
MWA Number _____

A. Scope Description (location, materials, etc.)

Square Footage (Approximate)	Cost Estimate	Schedule Estimate (MM/DD/YY)	
SF Through out both Terminals C & D	\$ 250,000	From 02/15/2012	To 08/01/2012

Please find the following attached documents as per TCAP Manual Section 1.7 and Section 5.2.

Quantity	Description	Revision No.	Dated	By
3	Delta Air Lines Cover Letter	-	01/13/2012	Delta
3	MWA Ph 1 02 Forms	-	01/13/2012	Delta
14	Half Size Drawing Sets (see dwg for Drawing List)	-	01/13/2012	Corgan

B. Project Team

	Check if	M/WBE	License Detail
Consultant (if any) <u>Corgan Associates Architects, PC</u>	<input type="checkbox"/>	<input type="checkbox"/>	<u>023395-1</u>
Contractor <u>VRH Corporation</u>	<input type="checkbox"/>	<input type="checkbox"/>	
Other	<input type="checkbox"/>	<input type="checkbox"/>	

C. Requested By

Contact Pam Drenner

Firm Name Delta Air Lines, Inc.

Date 01/13/2012 Signature 

Copies To _____

Approval to Install (FOR PA USE ONLY)

Approval to Install Not Approved

PA Letter Reference _____

Tenant Coordinator _____

Date 01/13/2012 Signature _____

To be submitted under cover letter from Tenant.
Approval to Install to be displayed at the work location.

G-2496 Delta – Exterior Sign Installation @
Term C

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
OFFICE OF THE CHIEF ENGINEER
233 PARK AVENUE SOUTH
NEW YORK, N. Y. 10003

To: Michael Moran, Manager, Physical Plant & Redevelopment Division, LGA

PERMIT TO OCCUPY OR USE
OF
TAA G-2496
DELTA AIR LINES
TERMINAL C
NEW DELTA SIGNAGE ON EAST END OF DEPARTURES LEVEL

In accordance with your request dated June 11, 2012, and based upon the Report on Audit Conformance issued by T. Amoia, Engineer of Construction which states that the work performed by VRH Construction Corp. for Delta Air Lines – Terminal C – New Delta Signage on East End of Departures Level at La Guardia Airport has been substantially completed, in accordance with the approved Drawings and Specifications and requirements of the Port Authority, so as to permit occupancy or use on June 12, 2012, and the fact that audits of field construction and/or field records made by the Engineering Department during the progress of work under TAA No. G-2496 have not, to the best of my knowledge and belief, disclosed any evidence that the requirements of the approved Drawings and Specifications and requirements of the Port Authority have not been met, I hereby issue a Permit to Occupy or Use.


Peter J. Zipf, P.E.
Chief Engineer

Dated: June 12, 2012
New York, NY

 cc: T. Amoia, T. Bosco, W. Caban, J. Curley, A. Fadavi, C. J. Lin, A. Martinez
N. Riggs, R. Ruff, K. Tomko: File

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY

REPORT ON AUDIT CONFORMANCE
FOR
PERMIT TO OCCUPY OR USE

FINAL

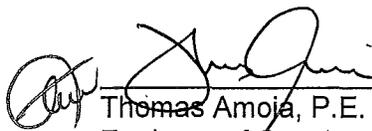
TO: Peter J. Zipf, P.E., Chief Engineer
FROM: Thomas Amoia, P.E., Engineer of Construction
DATE: June 6, 2012
SUBJECT: TAA No.: 2496

TAA Title: DELTA AIRLINES – TERMINAL C – NEW DELTA
SIGNAGE ON EAST END OF DEPARTURES LEVEL

Contractor: VRH CONSTRUCTION CORP.

COPY TO: A. Fadavi, W. Caban, A. Martinez, J. Abu-Ghallow

Based on the Certification issued by the Architect/Engineer of Record and field audits conducted by my staff, to the best of my knowledge and belief, the subject Tenant Alteration Application has been substantially completed in accordance with the Drawings and Specifications approved by the Port Authority. Also, all Special Inspection Reports and the reports for testing of Life Safety Systems have been satisfactorily completed. Except for minor punch list items, no other audit deficiencies were noted nor were any brought to my attention that remain unresolved. Therefore, the Line Department may request a Permit to Occupy or Use.



Thomas Amoia, P.E.
Engineer of Construction
New York Airports

Date: 06/06/12

Based on the above Report on Audit Conformance issued by the Engineer of Construction, it is requested that a Permit to Occupy or Use be issued for the subject TAA.



Michael Moran, P.E.
Manager, Plant Structures & Airport Redevelopment
LaGuardia Airport

Date: 6/11/12

AUDIT REPORT

REVISED 4/11/06

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
ENGINEERING DEPARTMENT - CONSTRUCTION STANDARDS & INSPECTION**

FACILITY: LGA	R.E.: A. Vero	PARTIAL <input type="checkbox"/>
TAA No. G-2496	E.O.C.: T. Amoia	FINAL <input checked="" type="checkbox"/>
TAA TITLE: DELTA AIRLINES – TERMINAL C - NEW DELTA SIGNAGE ON EAST END OF DEPARTURES LEVEL		
CONTRACTOR (OFFICIAL NAME): VRH Construction Corp.		

INSPECTION COMMENTS

On May 17, 2012, CSI staff attended an inspection of the construction performed under the subject TAA.
No field exceptions were noted.
However, occupancy and use of the above area/work is subject to the audit and acceptance of the field records.

cc: J. Abu-Ghallow, T. Amoia , (2) File

List unresolved issues, exceptions, etc. Attach separate sheet if required. () NONE

Based upon the items of work visible at the time of this inspection, no field exceptions were noted.
DSU full approval memorandum dated April 19, 2012, attached.
There have been no previous recommendations or requests for a permit for this Alteration Application to date.
Based on this information and these attachments CSI recommends the issuance of a "Permit of Occupy or Use" for the subject alteration application, if requested.

Advised Mr. P. Mercado from REO of exceptions as noted above. Date of Audit:05/19/2012

QAD/CSI Fire Protection Staff Attended This Inspection: Yes () No (X)

RECOMMENDATION TO ISSUE (CHECK APPLICABLE BOXES)

- Temporary Permit To Occupy Or Use
- Permit to Occupy or Use
- Certificate of Completion

CSI Engineer: _____ **Date:** May 19, 2012
Denise Noble, P.E.

Reviewed by CSI Senior Engineer: _____ **Date:** _____
Jamal Abu-Ghallow, P.E.

Commercial Signs
Outdoor Advertising

R. SCOTT LEWIS PE, PC

STRUCTURAL ENGINEERS

ADDRESS: 11 Burtis Ave., New Canaan, CT 06840

PHONE: 203.966.5156

EMAIL: scott@rscottlewis.com

CELL: 917.648.3739

WEB: www.rscottlewis.com

FAX: 203.966.6463

May 24, 2012

Mr. Armando Martinez
Resident Engineer
LGA - Resident Engineer's Office
Hangar 7
LaGuardia Airport
Flushing, NY 11371

Re: Delta Air Lines, LaGuardia Airport
Terminal C - Exterior Sign Installation
TAA G2496

Dear Mr. Martinez:

Please be advised that the portions of the work under this Alteration Application are complete and have been inspected by my office. In addition, all Rider comments related to these portions of work have been resolved to the satisfaction of the Port Authority.

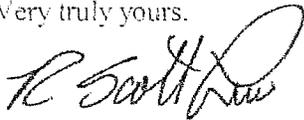
I certify, to the best of my knowledge, that all materials, equipment and installation under this Alteration Application included in this portion of the work comply with the Drawings and Specifications approved by the Port Authority, and with the New York City Building Laws and all other applicable codes and regulations.

This TAA involves no Fire Protection work. I further certify that there were no changes to the existing fire alarm or fire protection systems and devices made as part of this contract.

Based on the above, all areas and equipment covered by this Alteration Application are ready for their intended beneficial occupancy and use.

We are requesting final inspection for the area hereunder.

Very truly yours,



R. Scott Lewis, PE



RECEIVED
PORT AUTHORITY NY/NJ

MAY 29 2012

LaGuardia Airport,
Central Terminal Building
Resident Engineer's Office

Commercial Signs
Outdoor Advertising

R. SCOTT LEWIS PE, PC

STRUCTURAL ENGINEERS

ADDRESS: 11 Burtis Ave., New Canaan, CT 06840

PHONE: 203.966.5156

EMAIL: scott@rscottlewis.com

CELL: 917.648.3739

WEB: www.rscottlewis.com

FAX: 203.966.6463

May 7, 2012

Mr. Armando Martinez
Resident Engineer
LGA – Resident Engineer's Office
Hangar 7
LaGuardia Airport
Flushing, NY 11371

Re: Delta Air Lines, LaGuardia Airport
Terminal C – Exterior Sign Installation
TAA G2496
Special Inspections Items

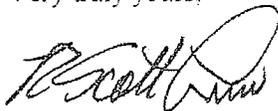
Dear Mr. Martinez:

I am the Engineer of Record for the above-reference Alteration Application.

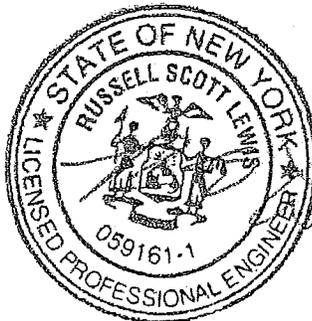
The required items of special inspection, as indicated in our drawings, are:

1. Inspection of Fabricators IBC Section 1704.2
2. Verification and Inspection of Steel Construction IBC Section 1704.3, Table 1704.3

Very truly yours,



R. Scott Lewis, PE



5/18/12

THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
ENGINEERING DEPARTMENT
SPECIAL INSPECTIONS

TAA No: G-2496 Date: 5/7/12

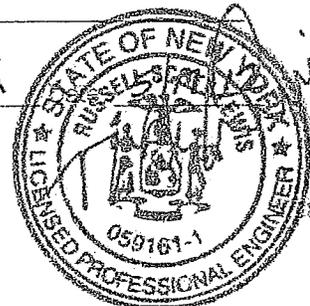
TAA Title: EXTERIOR SIGN INSTALLATION - DELTA AIR LINES - LGA TERMINAL C

Test Category (ICC)	Required Tests Sub-category *	Referenced Code Section	Responsible Entity *	Completed Date **
Fire Protection Systems (International Fire Code 2008)	1. Water Supply	IFC, Section 508.4	N/A	/ /
	2. Fire Hydrant Systems	IFC, Section 508.5	N/A	/ /
	3. Emergency Power Systems	IFC, Section 604.4	N/A	/ /
	4. Fire Protection Systems	IFC, Section 901		/ /
	5. Automatic Sprinkler Systems	IFC, Section 903		/ /
	6. Alternative Automatic Fire-Extinguishing Systems	IFC, Section 904		/ /
	7. Standpipe Systems	IFC, Section 905		/ /
	8. Fire Alarm and Detection Systems	IFC, Section 907		/ /
	9. Smoke Control Systems	IFC, Section 909 & IBC, Section 909.18		/ /
	10. Explosion Control	IFC, Section 911		/ /
	11. Fire Department Connection	IFC, Section 912		/ /
	12. Fire Pumps	IFC, Section 913		/ /
Mechanical Systems (International Mechanical Code / 2008)	13. Testing	IMC, Section 107		/ /
	14. Commercial Kitchen Hoods	IMC, Section 507		/ /
	15. Smoke Control Systems	IMC, Section 513		/ /
	16. Boilers, Water Heaters and Pressure Vessels	IMC, Section 1011		/ /
	17. Refrigeration	IMC, Section 1108		/ /
	18. Hydronic Piping Systems	IMC, Section 1208		/ /
	19. Fuel Oil Piping & Storage Systems	IMC, Section 1308		/ /
Plumbing Systems (National Standard Plumbing Code / 2008)	20. Plumbing Systems	NSPC, Section 15.3		/ /
	21. Drainage and Vent Systems	NSPC, Section 15.4		/ /
	22. Building Sewers	NSPC, Section 15.5		/ /
	23. Water Supply Systems	NSPC, Section 15.6		/ /
	24. Percolation Test	NSPC, Section 16.5		/ /
Elevator & Conveying Systems (IBC / 2008)	25. As Applicable	IBC Chapter 30		/ /
Electrical Components (National Electrical Code 2002)	26. Service Equipment - Ground-Fault Protection System	NEC Section 230.95		/ /
	27. Emergency Systems	NEC Section 700.4		/ /
	28. As Required for Electrical Equipment and Installations	NEC 2002		/ /
Others	29. As Applicable	Specify		/ /
Others	30. As Applicable	Specify	N/A	/ /

* Circle the applicable Sub-Category Tests and submit with scheduled dates prior to starting work
** Upon completion of all Tests, resubmit with completed dates and sign below

Architect/Engineer of Record (Firm Name) R. SCOTT LEWIS, PE, PC

Name: R. SCOTT LEWIS NYNJ License No. 59161 Signature: RS Lewis



THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
ENGINEERING DEPARTMENT
SPECIAL INSPECTIONS

TAA No: G-2496 Date: 5/7/12

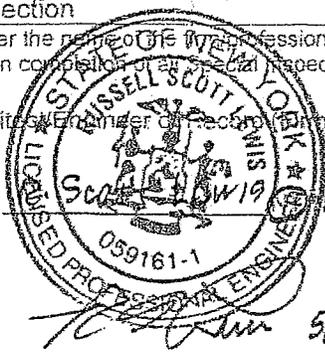
TAA Title: EXTERIOR SIGN INSTALLATION - DELTA AIR LINES - LGA TERMINAL C

Category (ICC)	Special Inspection Sub-category *	Referenced Code Section	Respsnble Entity *	Completed Date **
Fabrication	1. Inspection of Fabricators	IBC, Section 1704.2	<u>RSL</u>	<u>4/23/12</u>
Steel Construction	2. Verification and Inspection of Steel Construction	IBC, Section 1704.3 IBC, Table 1704.3	<u>RSL</u>	<u>4/23/12</u>
Concrete Construction	3. Verification and Inspection of Concrete Construction	IBC, Section 1704.4 IBC, Table 1704.4	<u>N.A.</u>	<u> / / </u>
Masonry Construction	4. Verification and Inspection of Nonessential Facilities 5. Verification and Inspection of Essential Facilities	IBC, Section 1704.5 IBC, Table 1704.5.1 IBC, Section 1704.5 IBC, Table 1704.5.3	<u>N.A.</u>	<u> / / </u>
Wood Construction	6. Verification and Inspection of Wood Construction	IBC, Section 1704.6	<u>N.A.</u>	<u> / / </u>
Foundations	7. Soils 8. Pile Foundations 9. Pier Foundations	IBC, Section 1704.7 IBC, Section 1704.8 IBC, Section 1704.9	<u>N.A.</u>	<u> / / </u>
Sprayed Fire-resistant Materials	10. Sprayed Fire Resistant Materials applied to Structural Elements and Decks	IBC, Section 1704.11	<u>N.A.</u>	<u> / / </u>
Exterior Insulation & Finish Systems	11. Exterior Insulation and Finish Systems Applications	IBC, Section 1704.12	<u>N.A.</u>	<u> / / </u>
Special Cases	12. Special Case Inspections	IBC, Section 1704.13	<u>N.A.</u>	<u> / / </u>
Smoke Control	13. Erection and Installation of Devices and Systems	IBC, Sections 909 and 1704.14	<u>N.A.</u>	<u> / / </u>
Seismic Resistance	14. Structural Steel	IBC, Section 1707.2	<u>N.A.</u>	<u> / / </u>
	15. Structural Wood	IBC, Section 1707.3	<u>N.A.</u>	<u> / / </u>
	16. Cold Formed Steel Framing	IBC, Section 1707.4	<u>N.A.</u>	<u> / / </u>
	17. Storage Racks and Access Floors	IBC, Section 1707.5	<u>N.A.</u>	<u> / / </u>
	18. Architectural Components, for Buildings with Seismic Design Category "D" only	IBC, Section 1707.6	<u>N.A.</u>	<u> / / </u>
	19. Mech. And Elec. Components	IBC, Section 1707.7	<u>N.A.</u>	<u> / / </u>
Mechanical and Electrical Systems	21. As Required for Mechanical and Electrical Systems & Installations	IMC 2000		<u> / / </u>
		NEC 2002		<u> / / </u>
Others	22. As Applicable	Specify		<u> / / </u>
Others	23. As Applicable	Specify		<u> / / </u>
Final Inspection			<u>RSL</u>	<u>4/23/12</u>

* Enter the name of the professional that will be performing the Special Inspections and submit prior to starting field work
** Upon completion of all special inspections, resubmit with completed dates and sign below

Architect/Engineer of Record (Print Name) R. SCOTT LEWIS, PE, PC

Name: Scott Lewis License No.: 59101 Signature: [Signature] Date: 5/7/12



[Signature] 5/11/12

ADDED 5/11/12
RSL

Certification and
Request for Inspection Checklist

Tenant Name DELTA AIR LINES
Facility LGA TERMINAL C
Project EXTERNAL SIGN INSTALLATION
TAA Number G-2490

Instructions

Use this Checklist to be sure all of the required documents are submitted to request an inspection. Incomplete submissions could result in delays.

The documentation is submitted to the REO.

All Inspections

- 1. Partial Inspection Certification Form (check "Not for Occupancy" or "For Occupancy") OR Final Inspection Certification Form
- 2. Special Inspection Documents (as applicable) – copies of all signed and sealed reports as well as a signed and sealed Special Inspections Checklist

a. For Final Inspection

- Record documents

b. For Re-Certification to Schedule a Re-Inspection

- Non-Conformance Response Form
- Updated Record Documents (for Final Re-Inspection)

Notes



5/11/12

PARSONS TRANSMITTAL

Delta Air Lines Flight Center LaGuardia Airport, Flushing NY 11371

www.parsons.com

Date: May 29, 2012

To:	Peter Mercado	From:	April Cooper
Company:	PANYNJ	Location:	Delta Air Lines Terminal C
Phone:		Phone:	917-860-9482
Fax:		Fax:	

Subject: Terminal C-D LGA Renovation

Transmitting Cover
Plus 4 Pages

Hard Copy to Follow

Enclosed please find the following:

2. (2) Original letters form -R. Scott Lewis PE, Structural Engineers, Terminal C Exterior Sign Installation TAA G-2496 - Requesting Final Inspection

Thanks

April Cooper

Administrative Assistant

PARSONS

Delta Air Lines, Terminal C

917-860-9482

april.cooper@parsons.com

RECEIVED
PORT AUTHORITY NY/NJ

MAY 29 2012

LaGuardia Airport,
Central Terminal Building
Resident Engineer's Office

WARNING: This fax communication may contain information that is privileged or confidential. It is intended for the sole use of the individual or entity to whom it is addressed. If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above address via U.S. Mail. If you are not the intended recipient of this message, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited.

Commercial Signs
Outdoor Advertising

R. SCOTT LEWIS PE, PC

STRUCTURAL ENGINEERS

LETTER OF TRANSMITTAL

FILE NO.: 255.4

ADDRESS: 11 Burtis Ave.
New Canaan, CT 06840

CELL: 917.648.3739

FAX: 203.966.6463

PHONE: 203.966.5156

EMAIL: scott@rscottlewis.com

LICENSED IN: New York 59161, Pennsylvania 75424, Connecticut 13376, Massachusetts 47422, New Jersey 36428

ATTN: Ronan Byrnes

DATE: May 24, 2012

TO: Parsons

SENT VIA: MAIL FED EX
 MESSENGER BY HAND

PROJECT: TAA G2496 Delta Exterior Sign - LGA Terminal C

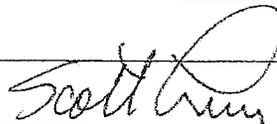
COPIES:	DATE:	DESCRIPTION:
2 originals	5/24/12	Letter to Mr. Armando Martinez, requesting final inspection, with paragraph added, reading: "This TAA involves no Fire Protection work. I further certify that there were no changes to the existing fire alarm or fire protection systems and devices made as part of this contract." Signed/sealed

TRANSMITTED: FOR APPROVAL AS REQUESTED
 FOR YOUR USE FOR REVIEW AND COMMENT

REMARKS:

COPY TO: Kevin Going via email

SIGNED:





THE PORT AUTHORITY OF NY & NJ

April 23, 2012

Mr. Brian Gore
Delta Airlines, Inc.
Delta Terminal D
LaGuardia Airport
Flushing, NY 11371

RE: LaGuardia Airport Tenant Alteration Application G-2496
Delta Air Lines – Terminals C – Exterior Sign Installatiion

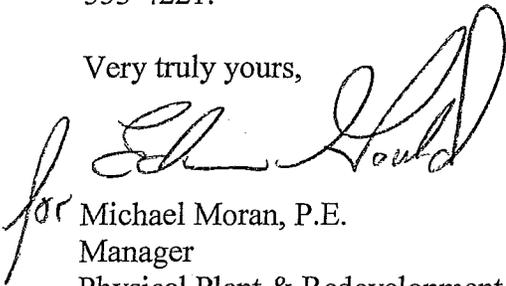
Dear Mr. Gore:

Port Authority staff has reviewed the drawings and other materials submitted under cover of submittals from Parsons dated April 3, 2012. Approval has been continued and there are no further comments.

Since all rider comments have been satisfied, as part of our project close out requirements, please submit for our records (2) CD copies, CAD Version 2004 or later of the full set of as built drawings.

If you have any questions regarding the aforementioned, please feel free to contact Mark Paquiz of my staff directly. He is handling this application and he can be reached at (718) 533-4221.

Very truly yours,



for Michael Moran, P.E.
Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

c: Mr. Thomas L. Bosco, General Manager, LaGuardia Airport
Mr. D. Stolt, Delta Airlines, Inc.
Mr. R. Scott Lewis, PE, PC

(bc: S. Bhol, R. Calise, N. Russo, Central File)

Mr. Brian Gore
Delta Airlines, Inc.
Delta Terminal D
LaGuardia Airport
Flushing, NY 11371

Mr. R. Scott Lewis, PE, PC
11 Burtis Ave
New Canaan, CT 06840



March 16, 2012

Mr. Brian Gore
Delta Airlines, Inc.
Delta Terminal D
LaGuardia Airport
Flushing, NY 11371

RE: LaGuardia Airport Tenant Alteration Application G-2496
Delta Air Lines – Terminal C – Exterior Sign Installation

Dear Mr. Gore:

Port Authority staff has reviewed the drawings and other materials submitted under cover of letter from Delta dated March 2, 2012. Approval has been granted subject to the resubmission and subsequent Port Authority review of materials revised in accordance with the requirements set forth in the attached Rider "A". Attached is a signed copy of the approved Alteration Application and the Alteration Permit.

Please submit two (2) full sets and six (6) sets of revised drawings, specifications, structural calculations, etc., and formal written responses with references to how each of the requirements in Rider A have been resolved, by March 20, 2012.

Please note that a Pre-construction meeting may not be scheduled, nor any construction activity related to this alteration application be permitted to begin, until the following is submitted and approved by the Port Authority:

- a) An 'MBE/WBE Program Information' Form.
- b) An insurance certificate in the amounts designated on the attached sheets, including the Worker's Compensation number.
- c) A letter identifying the Professional Engineer or Registered Architect licensed to practice in the State of New York, who will be inspecting the work, and who will, when the work is ready for use, submit a certification that the work has been constructed in conformance with the plans and all laws and ordinances.
- d) A complete set of signed and sealed drawings and specifications.

Once these items are approved, please contact the LaGuardia Resident Engineer Mr. Nicholas Russo at (718) 533-3796 at least forty-eight hours prior to the start of work, to arrange for a pre-construction meeting.



THE PORT AUTHORITY OF NY & NJ

Upon review of the operational restrictions and limits of work applicable to the project, you will be allowed to begin construction. The alteration permit shall be kept at the construction site and shall be available for Port Authority inspection. No work will be permitted until the pre-construction meeting has taken place and the aforementioned requirements have been satisfied.

This approval of the Alteration Application and of the plans and specifications does not constitute a determination or indication by the Port Authority that Delta Airlines has complied with the applicable governmental laws, ordinances, enactments, resolutions, regulations, rules, and orders, including, but not limited to, those of the City of New York, which may pertain thereto.

If you have any questions regarding the aforementioned, please feel free to contact Mark Paquiz of my staff directly. He is handling this application and he can be reached at (718) 533-4221.

Very truly yours,

Michael Moran, P.E.
Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

Attachment

c: Mr. Thomas L. Bosco, General Manager, LaGuardia Airport
Mr. D. Stolt, Delta Airlines
Mr. R. Scott Lewis, PE, PC



RIDER A

ALTERATION APPLICATION G-2496

GENERAL

1. List on the plans all items subject to Special Inspections. See NYC Building Code Section BC 1704 and TCRM Section 18 – INSP1. If none required, state so on the drawing.

STRUCTURAL

2. Drawing 5 of 5, Detail S4, and Drawing S-001.00:
 - a) Verify that the connection between the Panels 3 and 4 is adequate to transfer the forces to the horizontal rails with one bolt.
 - b) Clarify whether the ¼" diameter mounting bolt is connected to the vertical ribs or to the 0.090 aluminum face.
3. Drawing S-001.00, Section A1-A1: Verify with calculations that the existing roof truss is adequate to resist the lateral forces from the sign structure horizontal and diagonal braces. Also, since the horizontal and diagonal braces do not connect to the panel points of the truss, the adequacy of vertical members of truss to which the braces connect to shall be evaluated.

ELECTRICAL

4. Show disconnecting means, which shall be either within sight or capable of being locked in the disconnected position for the illuminated sign, See NEC, Section 600.6(A)(2).

LGA FACILITY

5. If use of a crane or boom is required, please advise height of equipment.
6. All adjacent roadway areas are to remain free and clear of debris at all times.
7. A daily faxed sheet will be sent to PA Operations, Police and the Resident Engineer's Office by noon for work scheduled that evening or the following day listing all construction workers and planned deliveries.
8. All construction workers must wear a valid photo ID on their outermost garment.
9. No parking will be provided to the contractor or its subcontractors by the Port Authority.



ALTERATION APPLICATION G-2496 (cont'd)

10. No unattended vehicles will be permitted to park in front of the terminal building at any time.

Tenant Alteration Application

APPLICANT MUST READ THE TERMS AND CONDITIONS INCLUDED WITH THIS FORM

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Three hereof on behalf of the Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Three hereof and the terms and conditions set forth in this form.

Tenant Name	Delta Airlines
Facility	Terminal C LGA
TAA Number	G-2496
Date	03/01/2012

Part One: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant.

At (Facility) LGA	Pursuant to (Lease, Space, Permit) No.	Location (Building No. or Area) of Space to be Altered Terminal C
----------------------	--	--

Description of Work and Reason

New Delta Signage on East End of Departures Level

Estimated Cost of Work \$ 230,000.00	Estimated Time to Complete (Days) 6	Starting Date 03/21/2012	Completion Date 03/25/2012
---	--	-----------------------------	-------------------------------



Title of Plan Drawing Elevation, Section Details & Location Plan	Drawing No. S-001.00 Page 1 of 2 S-002.00 Page 2 of 2	Dated 03/01/2012
--	---	---------------------

Contractor: Name and Address (If Not Known, Submit Later) Going Sign & Servicing Co., Inc. 140 Terminal Drive Plainview, NY 11803 Phone No. 516 349 7600 License No. [REDACTED] Email KGoing@goingsign.net	Engineer or Architect Name and Address R. Scott Lewis, PE, PC 11 Burtis Avenue New Canaan, CT 06840 Phone No. 203 966 5156 License No. 059161 Email scott@rscottlewis.com
---	--

Send Correspondence To:
(Name and Address of Employee in Charge of Work)

Kevin Going

Phone No. 516 349 7600
Email KGoing@goingsign.net

ENGINEER OR ARCHITECT CERTIFICATION

I have supervised the preparation of plans and specification for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipal authority in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which should be applicable if the Port Authority were a private corporation.

Applicant's Name (As It Appears on Lease or Permit)	Signature of Licensed Professional Engineer or Architect	Date
By (Signature of Authorized Rep.)		03/01/2012

Part Two: M/WBE Program Information

A Minority/Women Business Enterprise (M/WBE) Plan is attached hereto for PA approval. The Tenant's contact person responsible for this project's M/WBE Program is named below.

M/WBE Contact Person (Name and address):

Phone No. _____ Email _____

Part Three: Design Approval (FOR PA USE ONLY)

The above Application Status is:

Full Approval Withheld. Subject to the following conditions

Conditional Approval

Signature Reference Letter By _____

Prepared By _____ Date _____ Title _____ Date 3/16/12

THE PORT AUTHORITY OF NY & NJ

G-2496

Number

Alteration Permit

This certifies that the Port Authority has issued an alteration

permit G-2496 dated March 16, 2012 to Delta Airlines, Inc.
Number

covering work taking place at Terminal C - Exterior Sign Installation
Location

March 16, 2012

Date


Signature for The Port Authority of New York and New Jersey

PA2714

POST IN CONSPICUOUS PLACE ON WORK SITE

(bc: S. Bhol, C. DeLaigle, F. Dambreville, E. Alexander, R. Calise, N. Russo, J. Winslow
F. Patterson, Central File)

Mr. Russell Scott Lewis, PE, PC
11 Burtis Avenue
New Canaan, CT 06840

ADDRESS: 11 Burtis Ave., New Canaan, CT 06840

PHONE: 203.966.5156

EMAIL: scott@rscottlewis.com

CELL: 917.648.3739

WEB: www.rscottlewis.com

FAX: 203.966.6463

March 21, 2012

RSL Job #255.4

Mr. Michael Moran, PE
Manager
Physical Plant & Redevelopment Division
LaGuardia Airport

Re: LaGuardia Airport Tenant Alteration Application G-2496
Delta Air Lines – Terminal C – Exterior Sign Installation

Dear Mr. Moran:

Please see below for my responses to the Rider A comments:

GENERAL

1. List on the plans all items subject to Special Inspections. See NYC Building Code Section BC 1704 and TCRM Section 18 – INSP1. If none required, state so on the drawing.

RSL Response: Please refer to Drawing S-002.00, Revision 4, 3/21/12.

STRUCTURAL

2. Drawing 5 of 5, Detail S4, and Drawing S-001.00:
 - a) Verify that the connection between the Panels 3 and 4 is adequate to transfer the forces to the horizontal rails with one bolt.
RSL Response: Please see attached Supplemental Computations, Page 18.
 - b) Clarify whether the ¼" diameter mounting bolt is connected to the vertical ribs or to the 0.090 aluminum face. **RSL Response: As shown in the revised Drawing S-002.00, Detail 7, the ¼" diameter mounting bolts have been eliminated and replaced by intermittent welding of the 0.090" aluminum face to the vertical ribs.**
3. Drawing S-001.00, Section A1-A1: Verify with calculations that the existing roof truss is adequate to resist the lateral forces from the sign structure horizontal and diagonal braces. Also, since the horizontal and diagonal braces do not connect to the panel points of the truss, the adequacy of vertical members of truss to which the braces connect to shall be evaluated. **RSL Response: As shown in the attached Supplemental Computations, the computed stresses in the existing**

truss vertical member (double L4x4) are slightly over allowable. In order to address the slight computed overstress, an additional 1/2" thick plate has been added to the existing truss, as shown in revised Drawing S-003.00, Detail 11, and in Drawing S-001.00, Detail 3.

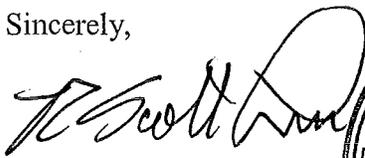
ELECTRICAL

4. Show disconnecting means, which shall be either within sign or capable of being locked in the disconnected position for the illuminated sign, See NEC, Section 600.6(A)(2). **RSL Response: Please refer to revised Going Sign shop drawings.**

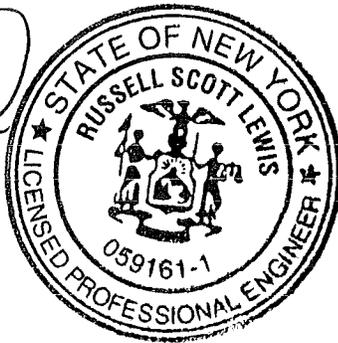
LGA FACILITY

5. If use of crane or boom is required, please advise height of equipment. **RSL Response: Tip of crane boom will not exceed height of Terminal C.**
6. through 10.: **RSL Response: Agreed.**

Sincerely,



R. Scott Lewis, PE



Commercial Signs
Outdoor Advertising

R. SCOTT LEWIS PE, PC

STRUCTURAL ENGINEERS

ADDRESS: 11 Burtis Ave., New Canaan, CT 06840

PHONE: 203.966.5156

EMAIL: scott@rscottlewis.com

CELL: 917.648.3739

WEB: www.rscottlewis.com

FAX: 203.966.6463

March 15, 2012

RSL Job # 255.4

**SUPPLEMENTAL STRUCTURAL
COMPUTATIONS
SUBMITTED IN RESPONSE TO
PANYNJ COMMENTS**

DELTA AIRLINES

TERMINAL C - LAGUARDIA

**New Delta Signage on East End
of Departures Level**

Client: Going Sign & Servicing Co., Inc.

Contents: Sketches & Computations, 18 pages

R. Scott Lewis, PE
New York License #59161
License Renewal Date: 6/30/2013



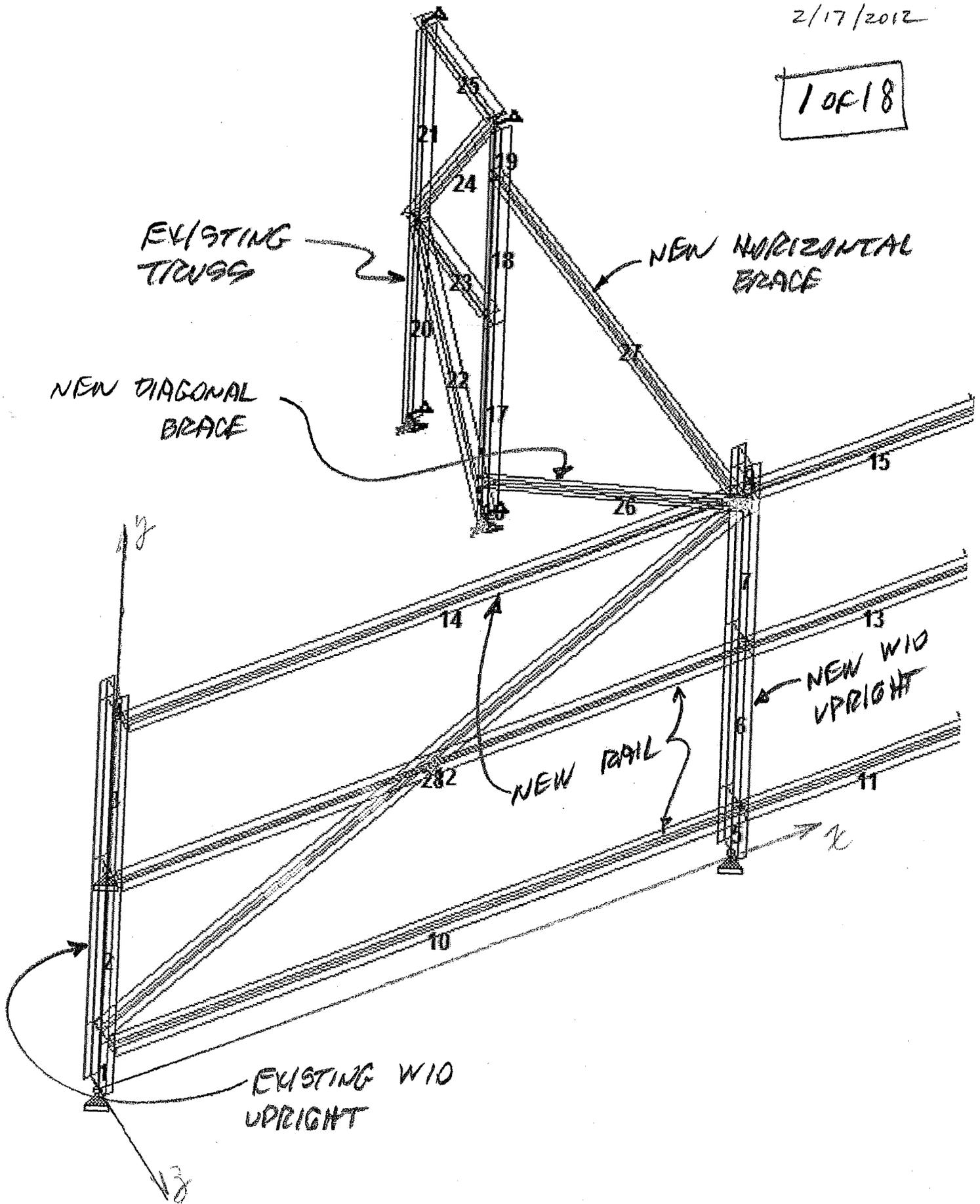
3/21/12

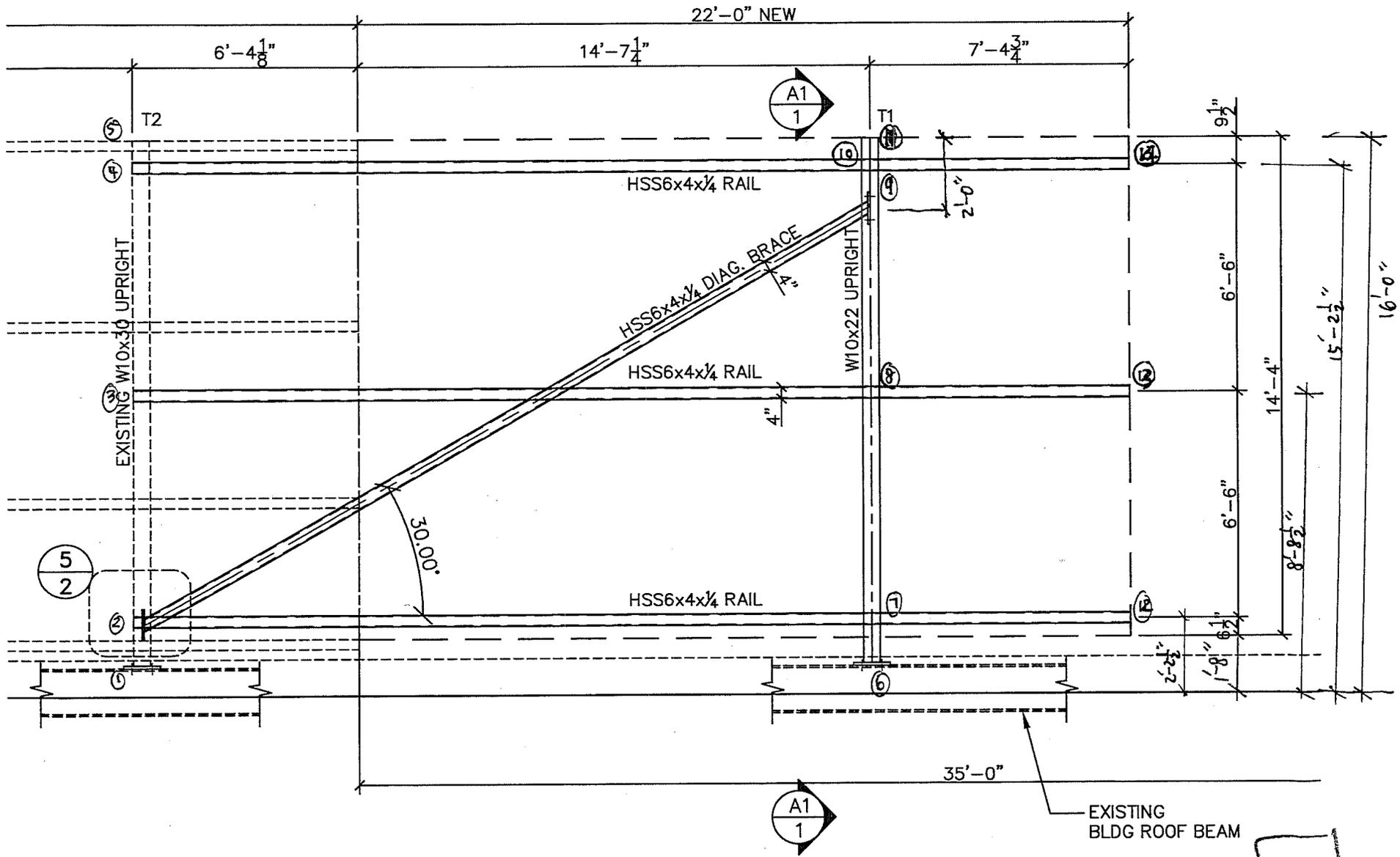
RECEIVED APR 04 2012

255.4 REV.1

2/17/2012

1 of 18

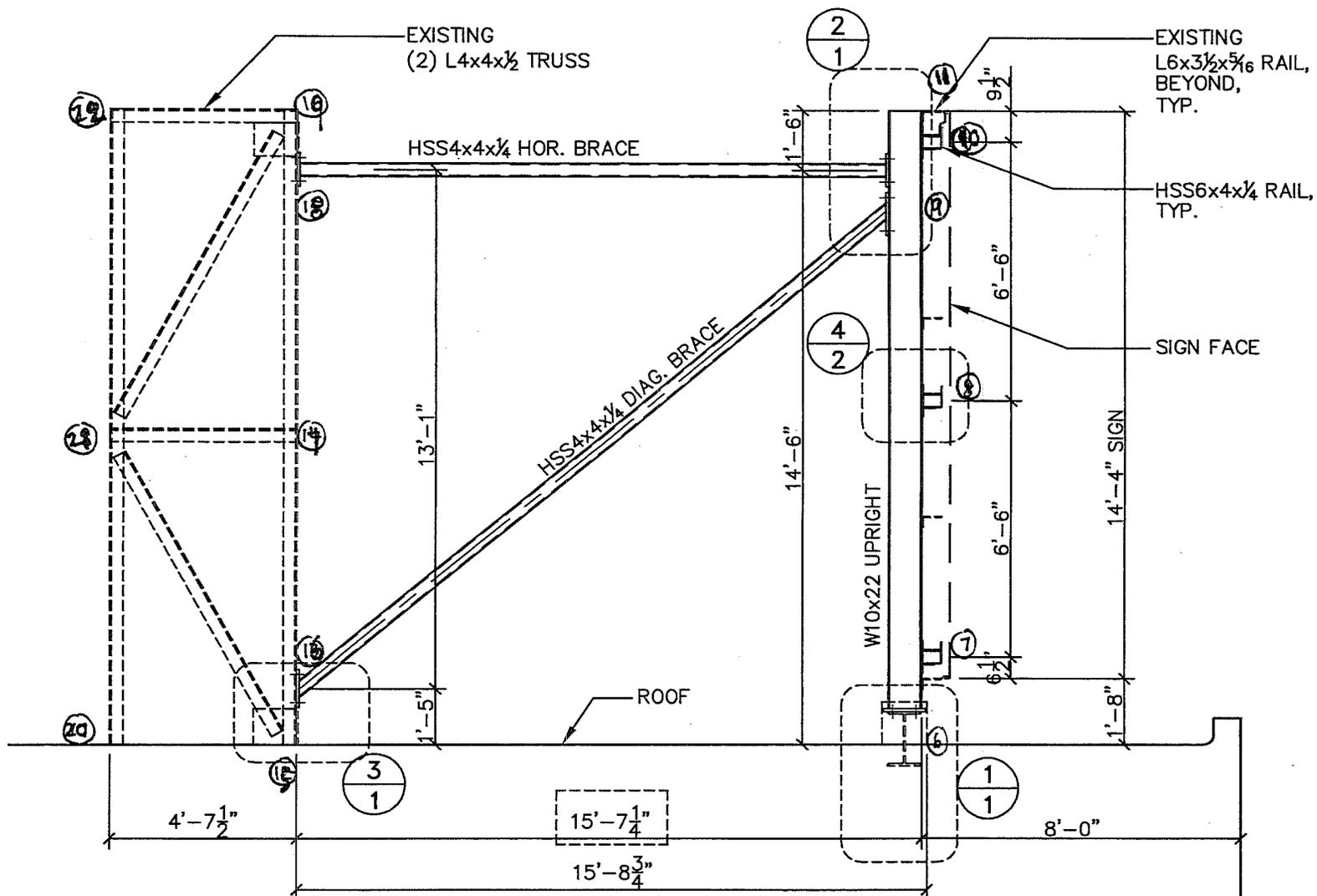




FRONT ELEVATION

1/4" = 1'-0"

2 of 18



EXISTING
(2) L4x4x1/2 TRUSS

HSS4x4x1/4 HOR. BRACE

HSS4x4x1/4 DIAG. BRACE

ROOF

W10x22 UPRIGHT

EXISTING
L6x3 1/2 x 5/16 RAIL,
BEYOND,
TYP.

HSS6x4x1/4 RAIL,
TYP.

SIGN FACE

14'-4" SIGN

4'-7 1/2"

3
1

15'-7 1/4"

15'-8 3/4"

1'-6"

14'-6"

6'-6"

6'-6"

6'-6"

8'-0"

1'-8"

2
1

4
2

1
1

SECTION A1-A1

1/4" = 1'-0"

3 of 18

4 of 18

```

*****
*
*          STAAD.Pro V8i SELECTseries3          *
*          Version  20.07.08.20                 *
*          Proprietary Program of              *
*          Bentley Systems, Inc.               *
*          Date=    FEB 17, 2012                *
*          Time=    17:43:10                    *
*
*          USER ID: Microsoft                  *
*****

```

```

1. STAAD SPACE
INPUT FILE: 255-4 rev1.STD
2. START JOB INFORMATION
3. JOB NAME BANK OF AMERICA
4. JOB CLIENT CLEAR CHANNEL
5. JOB NO 255.4 - ROOF SIGN EXTENSION
6. ENGINEER NAME SY
7. ENGINEER DATE 17-FEBRUARY-2012
8. END JOB INFORMATION
9. INPUT WIDTH 79
10. *
11. *2/15/2012
12. *      (1) KEEP EXISTING SIGN HEIGHT UNCHANGE = 14'-4"
13. *      EXTEND SIGN WIDTH FROM 44'-0" TO 66'-0"
14. *      (2) ADD ONE NEW W-UPRIGHT IN ALIGN WITH THE EXISTING BLDG ROOF TRUSS
15. *      (3) CONNECT NEW W-UPRIGHT AND THE ROOF TRUSS WITH HOR. AND DIAG. HSS-
16. *      (4) NEW RAILS ARE NEEDED AT SAME ELEVATION OF EXISTING ONES, SO THAT
17. *      BUTT THE NEW AND EXISTING RAILS TOGETHER
18. *
19. *2/17/2012 REV.1
20. *      (1) CONNECTED NEW RAIL DIRECTLY ONTO EXISTING W-UPRIGHT, INSTEAD OF
21. *      CONNECTION IT TO THE END OF EXISTING REAL, SO THAT THE NEW RAILS
22. *      ARE NOT ALIGH WITH THE EXISTING ONES
23. *      (2) REDUCED AMOUNT OF NEW RAILS FROM (4) TO (3).
24. *
25. UNIT FEET KIP
26. *
27. JOINT COORDINATES
28. *X-AXIS = HOR. ALONG BLDG NORTH WALL,
29. *Y-AXIS = VERT.,
30. *Z-AXIS = HOR. PERPENDICULAR TO BLDG WALL
31. *
32. *ON EXISTING W10 UPRIGHT
33. 1 0.0 0.0 0.0; 2 0.0 2.208 0.0; 3 0.0 8.808 0.0
34. 4 0.0 15.208 0.0; 5 0.0 16 0.0
35. *ON NEW W-UPRIGHT
36. 6 20.948 0.0 0.0; 7 20.948 2.208 0.0; 8 20.948 8.808 0.0
37. 9 20.948 14.0 0.0; 10 20.948 15.208 0.0; 11 20.948 16 0.0
38. *AT RAIL END
39. 12 28.333 2.208 0.0; 13 28.333 8.808 0.0; 14 28.333 15.208 0.0
40. *ON EXISTING ROOF TRUSS

```

STAAD SPACE

-- PAGE NO. 2

5 of 18

41. 15 20.948 0.0 -15.167; 16 20.948 1.417 -15.167; 17 20.948 8.0 -15.167
42. 18 20.948 14.0 -15.167; 19 20.948 16.0 -15.167
43. 20 20.948 0.0 -19.792; 21 20.948 8.0 -19.792; 22 20.948 16.0 -19.792
44. *
45. MEMBER INCIDENCES
46. *EXISTING W10 UPRIGHT
47. 1 1 2; 2 2 3; 3 3 4; 4 4 5
48. *NEW W-UPRIGHT
49. 5 6 7; 6 7 8; 7 8 9; 8 9 10; 9 10 11
50. *RAIL
51. 10 2 7; 11 7 12
52. 12 3 8; 13 8 13
53. 14 4 10; 15 10 14
54. *EXISTING ROOF TRUSS
55. 16 15 16; 17 16 17; 18 17 18; 19 18 19
56. 20 20 21; 21 21 22
57. 22 15 21; 23 17 21; 24 21 19; 25 19 22
58. *HOR. AND DIAG. BRACES
59. 26 9 16; 27 9 18
60. 28 2 9
61. *
62. UNIT INCHES KIP
63. *
64. MEMBER PROPERTY AMERICAN
65. 1 TO 4 TABLE ST W10X30
66. 5 TO 9 TABLE ST W10X22
67. 10 TO 15 TABLE ST TUB60404
68. 16 TO 25 TABLE LD L40404
69. 26 27 TABLE ST TUB40404
70. 28 TABLE ST TUB60404
71. *11 12 TABLE ST TUB1201208
72. *11 TO 13 TABLE ST PIPE OD 0.625 ID 0.0
73. *31 TO 35 TABLE ST L30304
74. *16 17 20 21 24 25 28 29 TABLE ST L60355
75. *50 TABLE D C4X5
76. *51 TABLE LD L30304
78. CONSTANTS
79. E STEEL ALL
80. POISSON STEEL ALL
81. DENSITY STEEL ALL
82. BETA 90.0 MEMBER 1 TO 9
83. BETA 90.0 MEMBER 10 TO 15
84. BETA 90.0 MEMBER 16 TO 21
85. BETA 90.0 MEMBER 28
86. *
87. SUPPORTS
88. 1 3 6 PINNED
89. 15 20 FIXED BUT MX MZ
90. 19 22 FIXED BUT MX MY MZ FY FZ
91. *
92. MEMBER OFFSETS
93. 10 TO 15 START 0.0 0.0 8.0
94. 10 TO 15 END 0.0 0.0 8.0
95. *
96. MEMBER RELEASE
97. *MEMNER #4 AND #8 ARE VERTICAL IN GLOBAL SYSTEM

STAAD SPACE

-- PAGE NO. 3

6 of 18

98. *4 8 START MY MZ FX
99. *4 8 END MY MZ FX
00. *
101. MEMBER TRUSS
102. 22 TO 28
103. *
104. *MEMBER TENSION
105. *12 13
106. *
107. UNIT FEET KIP
108. *
109. LOAD 1 WIND TO SIGN FACE
110. *DESIGN WIND PRESSURE = 27.5 PSF, PER CALCULATION BY SY USING ASCE 7-02, 2/14/2
111. *BUT USE 30.0 PSF WIND PRESSURE INSTEAD,
112. *TRIBUTARY WIDTH OF WL AREA ON RAIL #1 = $6.5'/2 + 6.5" = 3.792'$,
113. *TRIBUTARY WIDTH OF WL AREA ON RAIL #2 = 6.5',
114. *TRIBUTARY WIDTH OF WL AREA ON RAIL #3 = $6.5'/2 + 9.5" = 4.042'$,
115. *LINEAR WL ON RAIL #1 = 0.030 KSF X 3.792 FT = 0.114 KIP/FT,
116. *LINEAR WL ON RAIL #2 = 0.030 KSF X 6.5 FT = 0.195 KIP/FT,
117. *LINEAR WL ON RAIL #3 = 0.030 KSF X 4.042 FT = 0.121 KIP/FT,
118. MEMBER LOAD
119. 10 11 UNI GZ -0.114
120. 12 13 UNI GZ -0.195
121. 14 15 UNI GZ -0.121
122. *
123. LOAD 2 WIND REAR
124. MEMBER LOAD
125. 10 11 UNI GZ 0.114
126. 12 13 UNI GZ 0.195
127. 14 15 UNI GZ 0.121
128. *
29. LOAD 3 DEAD
130. *SIGN PANEL WT = 2.0 PSF,
131. *LINEAR DL ON RAIL #1 = 0.002 KSF X 3.792 FT = 0.008 KIP/FT,
132. *LINEAR DL ON RAIL #2 = 0.002 KSF X 6.5 FT = 0.013 KIP/FT,
133. *LINEAR DL ON RAIL #3 = 0.002 KSF X 4.042 FT = 0.008 KIP/FT,
134. MEMBER LOAD
135. 10 11 UNI GZ -0.008
136. 12 13 UNI GZ -0.013
137. 14 15 UNI GZ -0.008
138. *
139. SELFWEIGHT Y -1
140. *
141. *COMBINING NORMAL LOADS USING ALLOWABLE STRESS DESIGN, PER ASCE 7-02
142. LOAD COMBINATION 4 WL1+DL
143. 1 1.0 3 1.0
144. LOAD COMBINATION 5 WL2+DL
145. 2 1.0 3 1.0
146. *
147. PERFORM ANALYSIS

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PROBLEM STATISTICS

NUMBER OF JOINTS/MEMBER+ELEMENTS/SUPPORTS = 22/ 28/ 7

SOLVER USED IS THE OUT-OF-CORE BASIC SOLVER

ORIGINAL/FINAL BAND-WIDTH= 9/ 6/ 38 DOF
TOTAL PRIMARY LOAD CASES = 3, TOTAL DEGREES OF FREEDOM = 113
SIZE OF STIFFNESS MATRIX = 5 DOUBLE KILO-WORDS
REQRD/AVAIL. DISK SPACE = 12.1/ 871660.2 MB

- 148. LOAD LIST 1 TO 5
- 149. PRINT SUPPORT REACTION

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SUPPORT REACTIONS -UNIT KIP FEET STRUCTURE TYPE = SPACE

JOINT	LOAD	FORCE-X	FORCE-Y	FORCE-Z	MOM-X	MOM-Y	MOM Z
1	1	-0.30	-0.51	-0.01	0.00	0.00	0.00
	2	0.30	0.51	0.01	0.00	0.00	0.00
	3	0.06	0.33	0.04	0.00	0.00	0.00
	4	-0.24	-0.18	0.02	0.00	0.00	0.00
	5	0.35	0.84	0.05	0.00	0.00	0.00
3	1	1.27	-0.02	3.96	0.00	0.00	0.00
	2	-1.27	0.02	-3.96	0.00	0.00	0.00
	3	0.07	0.74	0.23	0.00	0.00	0.00
	4	1.34	0.72	4.19	0.00	0.00	0.00
	5	-1.21	0.77	-3.73	0.00	0.00	0.00
6	1	-0.98	-2.22	3.02	0.00	0.00	0.00
	2	0.98	2.22	-3.02	0.00	0.00	0.00
	3	-0.13	1.51	0.25	0.00	0.00	0.00
	4	-1.10	-0.71	3.27	0.00	0.00	0.00
	5	0.85	3.73	-2.77	0.00	0.00	0.00
15	1	0.00	-4.00	5.22	0.00	0.00	0.00
	2	0.00	4.00	-5.22	0.00	0.00	0.00
	3	0.00	0.40	0.31	0.00	0.00	0.00
	4	0.00	-3.60	5.53	0.00	0.00	0.00
	5	0.00	4.39	-4.91	0.00	0.00	0.00
20	1	0.00	6.75	0.00	0.00	0.00	0.00
	2	0.00	-6.75	0.00	0.00	0.00	0.00
	3	0.00	0.77	0.00	0.00	0.00	0.00
	4	0.00	7.52	0.00	0.00	0.00	0.00
	5	0.00	-5.98	0.00	0.00	0.00	0.00
19	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00
22	1	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00

***** END OF LATEST ANALYSIS RESULT *****

150. PRINT MEMBER FORCES LIST 26 TO 28

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MEMBER END FORCES STRUCTURE TYPE = SPACE

 ALL UNITS ARE -- KIP FEET (LOCAL)

MEMBER	LOAD	JT	AXIAL	SHEAR-Y	SHEAR-Z	TORSION	MOM-Y	MOM-Z	
26	1	9	4.32	0.00	0.00	0.00	0.00	0.00	
		16	-4.32	0.00	0.00	0.00	0.00	0.00	
	2	9	-4.32	0.00	0.00	0.00	0.00	0.00	
		16	4.32	0.00	0.00	0.00	0.00	0.00	
	3	9	0.19	0.09	0.00	0.00	0.00	0.00	0.00
		16	-0.34	0.09	0.00	0.00	0.00	0.00	0.00
4	9	4.51	0.09	0.00	0.00	0.00	0.00	0.00	
	16	-4.66	0.09	0.00	0.00	0.00	0.00	0.00	
5	9	-4.13	0.09	0.00	0.00	0.00	0.00	0.00	
	16	3.98	0.09	0.00	0.00	0.00	0.00	0.00	
27	1	9	1.89	0.00	0.00	0.00	0.00	0.00	
		18	-1.89	0.00	0.00	0.00	0.00	0.00	
	2	9	-1.89	0.00	0.00	0.00	0.00	0.00	
		18	1.89	0.00	0.00	0.00	0.00	0.00	
	3	9	0.10	0.09	0.00	0.00	0.00	0.00	
		18	-0.10	0.09	0.00	0.00	0.00	0.00	
	4	9	2.00	0.09	0.00	0.00	0.00	0.00	
		18	-2.00	0.09	0.00	0.00	0.00	0.00	
	5	9	-1.79	0.09	0.00	0.00	0.00	0.00	
		18	1.79	0.09	0.00	0.00	0.00	0.00	
28	1	2	-1.21	0.00	0.00	0.00	0.00	0.00	
		9	1.21	0.00	0.00	0.00	0.00	0.00	
	2	2	1.21	0.00	0.00	0.00	0.00	0.00	
		9	-1.21	0.00	0.00	0.00	0.00	0.00	
	3	2	-0.07	0.00	-0.16	0.00	0.00	0.00	
		9	0.26	0.00	-0.16	0.00	0.00	0.00	
	4	2	-1.28	0.00	-0.16	0.00	0.00	0.00	
		9	1.47	0.00	-0.16	0.00	0.00	0.00	
	5	2	1.14	0.00	-0.16	0.00	0.00	0.00	
		9	-0.95	0.00	-0.16	0.00	0.00	0.00	

***** END OF LATEST ANALYSIS RESULT *****

- 151. *PRINT MEMBER SECTION FORCES
- 152. *
- 153. UNIT INCHES KIP
- 154. PRINT MEMBER STRESSES LIST 1 TO 25

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MEMBER STRESSES

ALL UNITS ARE KIP /SQ INCH

MEMB	LD	SECT	AXIAL	BEND-Y	BEND-Z	COMBINED	SHEAR-Y	SHEAR-Z
1	1	.0	0.1 T	0.0	0.0	0.1	0.0	0.1
		1.00	0.1 T	1.4	0.0	1.4	0.0	0.1
	2	.0	0.1 C	0.0	0.0	0.1	0.0	0.1
		1.00	0.1 C	1.4	0.0	1.4	0.0	0.1
	3	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
		1.00	0.0 C	0.3	0.0	0.3	0.0	0.0
	4	.0	0.0 T	0.0	0.0	0.0	0.0	0.1
		1.00	0.0 T	1.1	0.0	1.1	0.0	0.1
	5	.0	0.1 C	0.0	0.0	0.1	0.0	0.1
		1.00	0.1 C	1.6	0.0	1.8	0.0	0.1
2	1	.0	0.0 C	0.1	0.1	0.2	0.4	0.0
		1.00	0.0 C	2.0	2.5	4.5	0.4	0.0
	2	.0	0.0 T	0.1	0.1	0.2	0.4	0.0
		1.00	0.0 T	2.0	2.5	4.5	0.4	0.0
	3	.0	0.0 C	0.7	0.0	0.7	0.0	0.0
		1.00	0.0 C	0.5	0.1	0.6	0.0	0.0
	4	.0	0.0 C	0.7	0.1	0.8	0.4	0.0
		1.00	0.0 C	1.4	2.6	4.0	0.4	0.0
	5	.0	0.0 T	0.8	0.1	0.9	0.4	0.1
		1.00	0.0 T	2.5	2.4	4.9	0.4	0.1
3	1	.0	0.0 C	3.2	2.5	5.7	0.4	0.1
		1.00	0.0 C	1.9	0.1	2.0	0.4	0.1
	2	.0	0.0 T	3.2	2.5	5.7	0.4	0.1
		1.00	0.0 T	1.9	0.1	2.0	0.4	0.1
	3	.0	0.0 C	0.7	0.1	0.9	0.0	0.0
		1.00	0.0 C	1.1	0.0	1.1	0.0	0.0
	4	.0	0.1 C	3.8	2.7	6.6	0.4	0.1
		1.00	0.0 C	3.0	0.1	3.2	0.4	0.1
	5	.0	0.0 C	2.5	2.4	4.9	0.4	0.1
		1.00	0.0 C	0.8	0.1	0.9	0.4	0.1
4	1	.0	0.0 T	0.0	0.0	0.0	0.0	0.0
		1.00	0.0 T	0.0	0.0	0.0	0.0	0.0
	2	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
		1.00	0.0 C	0.0	0.0	0.0	0.0	0.0
	3	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
		1.00	0.0 C	0.0	0.0	0.0	0.0	0.0
	4	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
		1.00	0.0 C	0.0	0.0	0.0	0.0	0.0
	5	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
		1.00	0.0 C	0.0	0.0	0.0	0.0	0.0
5	1	.0	0.3 T	0.0	0.0	0.3	1.4	0.4
		1.00	0.3 T	6.5	3.4	10.3	1.4	0.4
	2	.0	0.3 C	0.0	0.0	0.3	1.4	0.4
		1.00	0.3 C	6.5	3.4	10.3	1.4	0.4

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MEMBER STRESSES

ALL UNITS ARE KIP /SQ INCH

MEMB	LD	SECT	AXIAL	BEND-Y	BEND-Z	COMBINED	SHEAR-Y	SHEAR-Z
3	.0	0.2 C	0.0	0.0	0.0	0.2	0.1	0.0
	1.00	0.2 C	0.8	0.3	1.3	0.1	0.0	
4	.0	0.1 T	0.0	0.0	0.1	1.5	0.4	
	1.00	0.1 T	7.4	3.7	11.2	1.5	0.4	
5	.0	0.6 C	0.0	0.0	0.6	1.3	0.3	
	1.00	0.6 C	5.7	3.2	9.4	1.3	0.3	
6	1 .0	0.4 T	3.0	3.3	6.6	0.4	0.0	
	1.00	0.4 T	4.4	6.1	10.9	0.4	0.0	
2	.0	0.4 C	3.0	3.3	6.6	0.4	0.0	
	1.00	0.4 C	4.4	6.1	10.9	0.4	0.0	
3	.0	0.2 C	0.1	0.2	0.5	0.0	0.0	
	1.00	0.2 C	0.4	0.5	1.1	0.0	0.0	
4	.0	0.2 T	3.1	3.5	6.7	0.4	0.0	
	1.00	0.2 T	4.8	6.6	11.7	0.4	0.0	
5	.0	0.5 C	2.9	3.1	6.5	0.3	0.0	
	1.00	0.5 C	4.0	5.6	10.2	0.3	0.0	
7	1 .0	0.3 T	6.4	6.2	13.0	1.3	0.2	
	1.00	0.3 T	4.2	1.6	6.1	1.3	0.2	
2	.0	0.3 C	6.4	6.2	13.0	1.3	0.2	
	1.00	0.3 C	4.2	1.6	6.1	1.3	0.2	
3	.0	0.1 C	0.1	0.4	0.6	0.1	0.0	
	1.00	0.1 C	0.1	0.0	0.2	0.1	0.0	
4	.0	0.2 T	6.5	6.6	13.4	1.4	0.2	
	1.00	0.2 T	4.3	1.6	6.1	1.4	0.2	
5	.0	0.5 C	6.3	5.8	12.6	1.2	0.2	
	1.00	0.4 C	4.1	1.6	6.1	1.2	0.2	
8	1 .0	0.0 T	4.2	1.6	5.8	1.1	0.1	
	1.00	0.0 T	2.8	0.1	2.9	1.1	0.1	
2	.0	0.0 C	4.2	1.6	5.8	1.1	0.1	
	1.00	0.0 C	2.8	0.1	2.9	1.1	0.1	
3	.0	0.0 C	0.1	0.0	0.2	0.1	0.0	
	1.00	0.0 C	0.4	0.1	0.5	0.1	0.0	
4	.0	0.0 C	4.3	1.6	5.9	1.1	0.2	
	1.00	0.0 C	2.4	0.0	2.5	1.1	0.2	
5	.0	0.1 C	4.1	1.6	5.7	1.0	0.1	
	1.00	0.1 C	3.2	0.2	3.5	1.0	0.1	
9	1 .0	0.0	0.0	0.0	0.0	0.0	0.0	
	1.00	0.0	0.0	0.0	0.0	0.0	0.0	
2	.0	0.0	0.0	0.0	0.0	0.0	0.0	
	1.00	0.0	0.0	0.0	0.0	0.0	0.0	
3	.0	0.0 C	0.0	0.0	0.0	0.0	0.0	
	1.00	0.0 C	0.0	0.0	0.0	0.0	0.0	
4	.0	0.0 C	0.0	0.0	0.0	0.0	0.0	
	1.00	0.0 C	0.0	0.0	0.0	0.0	0.0	
5	.0	0.0 C	0.0	0.0	0.0	0.0	0.0	
	1.00	0.0 C	0.0	0.0	0.0	0.0	0.0	

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MEMBER STRESSES

ALL UNITS ARE KIP /SQ INCH

MEMB	LD	SECT	AXIAL	BEND-Y	BEND-Z	COMBINED	SHEAR-Y	SHEAR-Z
10	1	.0	0.2 C	1.4	0.9	2.5	0.5	0.1
		1.00	0.2 C	2.4	6.0	8.7	0.6	0.1
	2	.0	0.2 T	1.4	0.9	2.5	0.5	0.1
		1.00	0.2 T	2.4	6.0	8.7	0.6	0.1
	3	.0	0.0 C	1.0	0.1	1.1	0.0	0.1
		1.00	0.0 C	1.4	0.5	1.9	0.0	0.1
	4	.0	0.2 C	0.4	1.0	1.7	0.5	0.0
		1.00	0.2 C	3.8	6.5	10.5	0.6	0.2
	5	.0	0.2 T	2.4	0.8	3.4	0.4	0.1
		1.00	0.2 T	1.1	5.6	6.8	0.5	0.1
11	1	.0	0.0	0.0	5.1	5.1	0.4	0.0
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
	2	.0	0.0	0.0	5.1	5.1	0.4	0.0
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
	3	.0	0.0	0.9	0.4	1.2	0.0	0.1
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
	4	.0	0.0	0.9	5.4	6.3	0.4	0.1
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
	5	.0	0.0	0.9	4.7	5.6	0.3	0.1
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
12	1	.0	0.2 C	1.2	0.9	2.3	0.8	0.0
		1.00	0.2 C	1.3	9.5	11.0	1.0	0.0
	2	.0	0.2 T	1.2	0.9	2.3	0.8	0.0
		1.00	0.2 T	1.3	9.5	11.0	1.0	0.0
	3	.0	0.0 C	1.2	0.0	1.2	0.1	0.1
		1.00	0.0 C	1.1	0.6	1.7	0.1	0.1
	4	.0	0.2 C	2.4	1.0	3.5	0.8	0.1
		1.00	0.2 C	0.3	10.1	10.5	1.1	0.1
	5	.0	0.2 T	0.0	0.9	1.1	0.7	0.1
		1.00	0.2 T	2.4	8.9	11.5	0.9	0.1
13	1	.0	0.0	0.0	8.7	8.7	0.6	0.0
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
	2	.0	0.0	0.0	8.7	8.7	0.6	0.0
		1.00	0.0	0.0	0.0	0.0	0.0	0.0
	3	.0	0.0 T	0.9	0.6	1.4	0.0	0.1
		1.00	0.0 T	0.0	0.0	0.0	0.0	0.0
	4	.0	0.0 T	0.9	9.2	10.1	0.7	0.1
		1.00	0.0 T	0.0	0.0	0.0	0.0	0.0
	5	.0	0.0 T	0.9	8.1	9.0	0.6	0.1
		1.00	0.0 T	0.0	0.0	0.0	0.0	0.0
14	1	.0	0.1 C	1.9	0.4	2.3	0.5	0.1
		1.00	0.1 C	1.9	5.8	7.7	0.6	0.1
	2	.0	0.1 T	1.9	0.4	2.3	0.5	0.1
		1.00	0.1 T	1.9	5.8	7.7	0.6	0.1

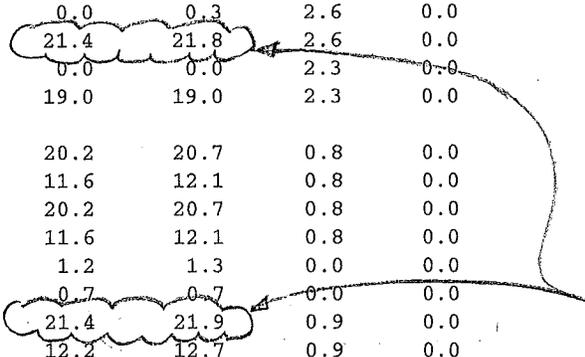
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MEMBER STRESSES

ALL UNITS ARE KIP /SQ INCH

MEMB	LD	SECT	AXIAL	BEND-Y	BEND-Z	COMBINED	SHEAR-Y	SHEAR-Z	
		3	.0	0.0 C	1.1	0.1	1.2	0.0	0.1
		1.00		0.0 C	1.1	0.5	1.7	0.0	0.1
		4	.0	0.1 C	2.9	0.5	3.5	0.5	0.2
		1.00		0.1 C	0.8	6.3	7.1	0.7	0.0
		5	.0	0.1 T	0.8	0.2	1.1	0.4	0.0
		1.00		0.1 T	3.0	5.3	8.4	0.6	0.2
15		1	.0	0.0	0.0	5.4	5.4	0.4	0.0
		1.00		0.0	0.0	0.0	0.0	0.0	0.0
		2	.0	0.0	0.0	5.4	5.4	0.4	0.0
		1.00		0.0	0.0	0.0	0.0	0.0	0.0
		3	.0	0.0 T	0.9	0.4	1.2	0.0	0.1
		1.00		0.0 T	0.0	0.0	0.0	0.0	0.0
		4	.0	0.0 T	0.9	5.7	6.6	0.4	0.1
		1.00		0.0 T	0.0	0.0	0.0	0.0	0.0
		5	.0	0.0 T	0.9	5.0	5.9	0.4	0.1
		1.00		0.0 T	0.0	0.0	0.0	0.0	0.0
16		1	.0	0.2 C	0.0	0.0	0.2	2.4	0.0
		1.00		0.2 C	0.0	20.2	20.4	2.4	0.0
		2	.0	0.2 T	0.0	0.0	0.2	2.4	0.0
		1.00		0.2 T	0.0	20.2	20.4	2.4	0.0
		3	.0	0.2 C	0.0	0.0	0.2	0.2	0.0
		1.00		0.2 C	0.0	1.2	1.4	0.2	0.0
		4	.0	0.3 C	0.0	0.0	0.3	2.6	0.0
		1.00		0.3 C	0.0	21.4	21.8	2.6	0.0
		5	.0	0.0 T	0.0	0.0	0.0	2.3	0.0
		1.00		0.0 T	0.0	19.0	19.0	2.3	0.0
17		1	.0	0.5 T	0.0	20.2	20.7	0.8	0.0
		1.00		0.5 T	0.0	11.6	12.1	0.8	0.0
		2	.0	0.5 C	0.0	20.2	20.7	0.8	0.0
		1.00		0.5 C	0.0	11.6	12.1	0.8	0.0
		3	.0	0.1 C	0.0	1.2	1.3	0.0	0.0
		1.00		0.1 C	0.0	0.7	0.7	0.0	0.0
		4	.0	0.4 T	0.0	21.4	21.9	0.9	0.0
		1.00		0.5 T	0.0	12.2	12.7	0.9	0.0
		5	.0	0.6 C	0.0	19.0	19.6	0.8	0.0
		1.00		0.6 C	0.0	10.9	11.5	0.8	0.0
18		1	.0	0.5 T	0.0	11.6	12.1	0.7	0.0
		1.00		0.5 T	0.0	13.4	13.9	0.7	0.0
		2	.0	0.5 C	0.0	11.6	12.1	0.7	0.0
		1.00		0.5 C	0.0	13.4	13.9	0.7	0.0
		3	.0	0.0 C	0.0	0.7	0.7	0.0	0.0
		1.00		0.0 C	0.0	0.7	0.8	0.0	0.0
		4	.0	0.5 T	0.0	12.2	12.7	0.8	0.0
		1.00		0.5 T	0.0	14.1	14.6	0.8	0.0
		5	.0	0.6 C	0.0	10.9	11.5	0.7	0.0
		1.00		0.5 C	0.0	12.7	13.2	0.7	0.0

EXISTING TR / FRONT CHORD



AT JOINT W/ DIAG. BRACI
 $F_b = 0.6 \times 36 \text{ ksi}$
 $= 21.6 \text{ ksi}$

SLIGHTLY OVER STRESSE
 GUSSET PL TO BE ADDED.

14 of 18

MEMBER STRESSES

ALL UNITS ARE KIP /SQ INCH

MEMB	LD	SECT	AXIAL	BEND-Y	BEND-Z	COMBINED	SHEAR-Y	SHEAR-Z
19	1	.0	0.5 T	0.0	13.4	13.9	1.1	0.0
	1.00		0.5 T	0.0	0.0	0.5	1.1	0.0
	2	.0	0.5 C	0.0	13.4	13.9	1.1	0.0
	1.00		0.5 C	0.0	0.0	0.5	1.1	0.0
	3	.0	0.0 C	0.0	0.7	0.7	0.1	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.1	0.0
	4	.0	0.5 T	0.0	14.1	14.7	1.2	0.0
	1.00		0.5 T	0.0	0.0	0.5	1.2	0.0
	5	.0	0.5 C	0.0	12.7	13.2	1.1	0.0
	1.00		0.5 C	0.0	0.0	0.5	1.1	0.0
20	1	.0	1.7 C	0.0	0.0	1.7	0.0	0.0
	1.00		1.7 C	0.0	0.0	1.8	0.0	0.0
	2	.0	1.7 T	0.0	0.0	1.7	0.0	0.0
	1.00		1.7 T	0.0	0.0	1.8	0.0	0.0
	3	.0	0.2 C	0.0	0.0	0.2	0.0	0.0
	1.00		0.2 C	0.0	0.0	0.2	0.0	0.0
	4	.0	1.9 C	0.0	0.0	1.9	0.0	0.0
	1.00		1.9 C	0.0	0.0	1.9	0.0	0.0
	5	.0	1.5 T	0.0	0.0	1.5	0.0	0.0
	1.00		1.6 T	0.0	0.0	1.6	0.0	0.0
21	1	.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00		0.0	0.0	0.0	0.0	0.0	0.0
	2	.0	0.0	0.0	0.0	0.0	0.0	0.0
	1.00		0.0	0.0	0.0	0.0	0.0	0.0
	3	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.0	0.0
	4	.0	0.0 C	0.0	0.0	0.1	0.0	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.0	0.0
	5	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.0	0.0
22	1	.0	1.4 T	0.0	0.0	1.4	0.0	0.0
	1.00		1.4 T	0.0	0.0	1.4	0.0	0.0
	2	.0	1.4 C	0.0	0.0	1.4	0.0	0.0
	1.00		1.4 C	0.0	0.0	1.4	0.0	0.0
	3	.0	0.1 T	0.0	0.0	0.1	0.0	0.0
	1.00		0.1 T	0.0	0.0	0.1	0.0	0.0
	4	.0	1.5 T	0.0	0.0	1.5	0.0	0.0
	1.00		1.5 T	0.0	0.0	1.5	0.0	0.0
	5	.0	1.3 C	0.0	0.0	1.3	0.0	0.0
	1.00		1.3 C	0.0	0.0	1.3	0.0	0.0
23	1	.0	0.4 C	0.0	0.0	0.4	0.0	0.0
	1.00		0.4 C	0.0	0.0	0.4	0.0	0.0
	2	.0	0.4 T	0.0	0.0	0.4	0.0	0.0
	1.00		0.4 T	0.0	0.0	0.4	0.0	0.0

EXISTING TRUSS
(FRONT CHORD)

AT JOINT W/ HOR. BRAC

$$F_b = 0.6 \times 36 \text{ ksi}$$

$$= 21.6 \text{ ksi}$$

OK

15 of 18

MEMBER STRESSES

ALL UNITS ARE KIP /SQ INCH

MEMB	LD	SECT	AXIAL	BEND-Y	BEND-Z	COMBINED	SHEAR-Y	SHEAR-Z
	3	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.0	0.0
	4	.0	0.4 C	0.0	0.0	0.4	0.0	0.0
	1.00		0.4 C	0.0	0.0	0.4	0.0	0.0
	5	.0	0.4 T	0.0	0.0	0.4	0.0	0.0
	1.00		0.4 T	0.0	0.0	0.4	0.0	0.0
24	1	.0	0.6 C	0.0	0.0	0.6	0.0	0.0
	1.00		0.6 C	0.0	0.0	0.6	0.0	0.0
	2	.0	0.6 T	0.0	0.0	0.6	0.0	0.0
	1.00		0.6 T	0.0	0.0	0.6	0.0	0.0
	3	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.0	0.0
	4	.0	0.6 C	0.0	0.0	0.6	0.0	0.0
	1.00		0.6 C	0.0	0.0	0.6	0.0	0.0
	5	.0	0.6 T	0.0	0.0	0.6	0.0	0.0
	1.00		0.6 T	0.0	0.0	0.6	0.0	0.0
25	1	.0	0.0 T	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 T	0.0	0.0	0.0	0.0	0.0
	2	.0	0.0 C	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 C	0.0	0.0	0.0	0.0	0.0
	3	.0	0.0 T	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 T	0.0	0.0	0.0	0.0	0.0
	4	.0	0.0 T	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 T	0.0	0.0	0.0	0.0	0.0
	5	.0	0.0 T	0.0	0.0	0.0	0.0	0.0
	1.00		0.0 T	0.0	0.0	0.0	0.0	0.0

EXISTING TRUSS

***** END OF LATEST ANALYSIS RESULT *****

155. PRINT JOINT DISPLACEMENTS LIST 5 13

16 of 18

JOINT DISPLACEMENT (INCH RADIANS) STRUCTURE TYPE = SPACE

JOINT	LOAD	X-TRANS	Y-TRANS	Z-TRANS	X-ROTAN	Y-ROTAN	Z-ROTAN
5	1	-0.11968	-0.00003	-0.08327	-0.00111	0.00736	0.00129
	2	0.11968	0.00003	0.08327	0.00111	-0.00736	-0.00129
	3	0.00023	-0.00008	-0.00319	-0.00004	0.00032	-0.00020
	4	-0.11945	-0.00011	-0.08646	-0.00115	0.00768	0.00109
	5	0.11991	-0.00006	0.08007	0.00107	-0.00703	-0.00149
13	1	0.12296	0.09703	0.20979	0.00018	-0.00356	0.00108
	2	-0.12296	-0.09703	-0.20979	-0.00018	0.00356	-0.00108
	3	0.00874	-0.02163	0.01672	0.00003	-0.00027	-0.00034
	4	0.13170	0.07539	0.22651	0.00021	-0.00383	0.00074
	5	-0.11422	-0.11866	-0.19307	-0.00016	0.00329	-0.00143

***** END OF LATEST ANALYSIS RESULT *****

156. FINISH

***** END OF THE STAAD.Pro RUN *****

**** DATE= FEB 17, 2012 TIME= 17:43:11 ****

17 of 18

```

*****
*           For questions on STAAD.Pro, please contact           *
*           Bentley Systems or Partner offices                   *
*                                                                 *
*           Telephone           Web / Email                     *
* USA           +1 (714) 974-2500                               *
* UK            +44 (0) 808 101 9246                            *
* SINGAPORE    +65 6225-6158                                    *
* FRANCE       +33 (0) 1 55238400                              *
* GERMANY      +49 0931 40468                                   *
* INDIA        +91 (033) 4006-2021                             *
* JAPAN        +81 (03)5952-6500   http://www.ctc-g.co.jp      *
* CHINA        +86 21 6288 4040                                *
* THAILAND    +66 (0)2645-1018/19 partha.p@reisoftwareth.com*
*                                                                 *
* Worldwide   http://selectservices.bentley.com/en-US/        *
*                                                                 *
*****

```

BOLTED CONNECTION OF SIGN FACE PANELS TO RAILS

DESIGN WIND PRESSURE = 30 PSF, DIRECT OR SUCTION

SIGN PANEL DEAD WEIGHT = 2 PSF

HORIZONTAL SPACING OF BOLTED CLIP = 2'-4 1/4" = 2.35'

MAXIMUM VERTICAL SPACING OF CLIP = 6'-0"

TRIBUTARY AREA PER CLIP = 2.35' x 6.5' = 15.3 SQ. FT.

APPLIED WIND LOAD PER CLIP = 30 PSF x 15.3 SQ. FT. = 459 LB

APPLIED DEAD LOAD PER CLIP = 2 PSF x 15.3 SQ. FT. = 31 LB

CHECK 1/2" φ ST. STL. BOLT: $F_y = 30 \text{ KSI}; F_u = 75 \text{ KSI}$

APPLIED TENSION = 459 LB

APPLIED SHEAR = 31 LB

ALLOWABLE TENSILE STRESS = $F_t = 0.33 F_u = 0.33 \times 75 \text{ KSI} = 25 \text{ KSI}$

ALLOWABLE SHEAR STRESS = $F_v = 0.17 F_u = 0.17 \times 75 = 12.75 \text{ KSI}$
(TRENDS INCLUDED IN SHEAR PLANE)

AREA = $\frac{\pi D^2}{4} = \frac{\pi (1/2)^2}{4} = 0.196 \text{ IN}^2$

ALLOWABLE TENSION PER BOLT = $25 \text{ KSI} \times 0.196 \text{ IN}^2 = 4.9 \text{ K}$
" SHEAR " " = $12.75 \text{ KSI} \times 0.196 = 2.5 \text{ K}$

COMBINED:

$\frac{\text{APPLIED TENSION}}{\text{ALLOWABLE TENSION}} + \frac{\text{APPLIED SHEAR}}{\text{ALLOWABLE SHEAR}} = \frac{459 \text{ LB}}{4,900 \text{ LB}} + \frac{31 \text{ LB}}{2,500 \text{ LB}} = 0.11 < 1.0$ OK

PARSONS TRANSMITTAL

Delta Air Lines Flight Center LaGuardia Airport, Flushing NY 11371

www.parsons.com

Date: April 3, 2012

To:	Mark Paquiz	From:	April Cooper
Company:	Delta Air Lines PANYNJ	Location:	Delta Air Lines, Terminal C
Phone:		Phone:	917-860-9482
Fax:		Fax:	

Subject: Terminal C Exterior Sign Installation

Transmitting Cover Plus Pages

Hard Copy to Follow

RECEIVED APR 03 2012

Enclosed please find the following documents:

- (1) Copy of Supplemental Structural Computations
- (1) Copy of Letter Response to Rider A Comments
- (7) Copies of Structural drawing S-001.00 thru S-003.00
- (8) Copies of Exterior Sign shop drawings sheets 1-5

Thanks

April Cooper

Administrative Assistant

PARSONS

Delta Air Lines, Terminal C

917-860-9482

april.cooper@parsons.com

RECEIVED APR 03 2012

RECEIVED APR 04 2012

If you have received this communication in error, please notify us immediately by telephone and return the original message to us at the above

CONSTRUCTION NOTIFICATION FORM

Port Authority of NY & NJ
La Guardia Airport

Working for Resident Engineer's Office
CONTRACT # : MWA747 TAA-G2496

Must be filled by the contractor

DAILY: 3/21/2012 **WORK DATE:** 3/22/2012
CONTRACTOR : VRH Construction **Subcontractor:**
REQUEST GUARD : N/A
Guard Post / Construction Gate: N/A
CONSTRUCTION LOCATION : Exterior Signage, Terminal C

John McGrath	3020097903	7:00am	3:30pm	VRH Construction	cell 201-378-3074
Roib Carr	3020095681	7:00am	3:30pm	VRH Construction	cell 347-231-0000
Anthony Carnabuci	3020101847	7:00am	3:30pm	VRH Construction	cell 917-418-0100
Chris Andeson	xxx-xx-8153	7:00am	3:30pm	Going Sign Co.	
James Curry	xxx-xx-1770	7:00am	3:30pm	Going Sign Co.	
Alan Scheriff	xxx-xx-4601	7:00am	3:30pm	Going Sign Co.	
James Ragone	xxx-xx-3016	7:00am	3:30pm	Going Sign Co.	
Ismer Zvinc	xxx-xx-9573	7:00am	3:30pm	Going Sign Co.	
Rudy Sol	xxx-xx-1818	7:00am	3:30pm	Going Sign Co.	
ken moore	xxx-xx-6111	7:00am	3:30pm	Going Sign Co.	
John weissinger	xxx-xx-5709	7:00am	3:30pm	Going Sign Co.	
Fred Schultz	xxx-xx-2290	7:00am	3:30pm	Going Sign Co.	
Mike Compitello	xxx-xx-8929	7:00am	3:30pm	Going Sign Co.	
Mike Kannry	xxx-xx-5501	7:00am	3:30pm	Going Sign Co.	
Kevin Going	xxx-xx-2819	7:00am	3:30pm	Going Sign Co.	

This list must be faxed to the following numbers by 12 noon the day before work is to be performed!

Police Department: 718-533-5624 **Operation's Office:** 718-533-3606 **Hangar No. 7 REO:** 718-533-3801
T.S.A.: 718-639-7322 **Operations Airside:** 718-533-3536 **CTB- REO:** 718-533-3768
PEG Tour Command: 718-533-3772 **Notes:**

Inspector's Name: Mark Paquiz **Inspector's Signature**
Telephone: 718 - 533 - 3796
Fax # : 718 - 533 - 3767

p.2
718-505-2759
VRH DELTA LGA
Mar 21 2012 1:25PM

CONSTRUCTION NOTIFICATION FORM

Port Authority of NY & NJ
La Guardia Airport

Working for Resident Engineer's Office

CONTRACT #: MWA747 TAA-G2496

Must be filled by the contractor

DAILY: 3/22/2012 **WORK DATE:** 3/23/2012
CONTRACTOR: VRH Construction **Subcontractor:**
REQUEST GUARD: N/A
Guard Post / Construction Gate: N/A
CONSTRUCTION LOCATION: Exterior Signage, Terminal C

John McGrath	3020097903	6:00am	5:30pm	VRH Construction	cell 201-376-3074
Roib Carr	3020095681	6:00am	5:30pm	VRH Construction	cell 347-231-0000
Anthony Carnabuci	3020101847	6:00am	5:30pm	VRH Construction	cell 917-418-0100
Chris Andeson	xxx-xx-8153	6:00am	5:30pm	Going Sign Co.	
James Curry	xxx-xx-1770	6:00am	5:30pm	Going Sign Co.	
Alan Scheriff	xxx-xx-4601	6:00am	5:30pm	Going Sign Co.	
James Ragone	xxx-xx-3016	6:00am	5:30pm	Going Sign Co.	
Ismer Zvinc	xxx-xx-9573	6:00am	5:30pm	Going Sign Co.	
Rudy Sol	xxx-xx-1818	6:00am	5:30pm	Going Sign Co.	
ken moore	xxx-xx-6111	6:00am	5:30pm	Going Sign Co.	
john weissinger	xxx-xx-5709	6:00am	5:30pm	Going Sign Co.	
Fred Schultz	xxx-xx-2290	6:00am	5:30pm	Going Sign Co.	
Mike Compitello	xxx-xx-8929	6:00am	5:30pm	Going Sign Co.	
Mike Kannry	xxx-xx-5501	6:00am	5:30pm	Going Sign Co.	
Kevin Going	xxx-xx-2819	6:00am	5:30pm	Going Sign Co.	

This list must be faxed to the following numbers by 12 noon the day before work is to be performed

Police Department: 718-533-5624	Operation's Office: 718-533-3606	Hangar No. 7 REO: 718-533-3801
T.S.A.: 718-639-7322	Operations Airside: 718-533-3536	CTB- REO: 718-533-3768
PEG Tour Command: 718-533-3772	Notes:	

Inspector's Name: Mark Paquiz	Inspector's Signature
Telephone: 718 - 533 - 3796	
Fax #: 718 - 533 - 3767	

RECEIVED MAR 2 - 2012

6:05pm



Delta Air Lines, Inc.
1030 Delta Boulevard
Department 877
Atlanta, Georgia 30354
Phone (404) 202-1045
Fax (404) 773-7671
Email pam.drenner@delta.com

March 2, 2012

Mr. Mark Paquiz
Tenant Coordinator
PANYNJ
La Guardia Airport
Hangar 7, Center, 3rd Floor
Flushing, NY 11371

SUBJECT: Tenant Alteration Application
Terminal C - Exterior Sign Installation

Dear Mr. Paquiz:

As part of the Terminals C and D Redevelopment, Delta Air Lines requests permission to install a new exterior sign in the same location as the existing US Airways Shuttle sign on the roof at the Southeast corner of Terminal C including reconnecting the existing electrical feed for future use.

If you have general questions please contact Ronan Byrne at 631-219-7001. For questions related to this scope of work please contact Scott Lewis at R. Scott Lewis at 203-966-5156.

Very truly yours,

A handwritten signature in black ink that reads "Brian Gore".

Brian Gore
Regional Manager - Facilities
Corporate Real Estate
Delta Air Lines, Inc.

cc: Scott Lewis, Kevin Going, Ronan Byrne

THE PORT AUTHORITY OF NY & NJ

TAA Ph 1 02

*Tenant's Form Identifying
Architect/Engineer of Record*

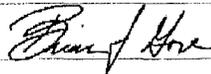
Tenant Name Delta Air Lines
Facility & Location LGA Terminal C
Project New Delta Signage
TAA Number **G-2496**

Architect/Engineer of Record Information

Firm Name R. Scott Lewis, PE, PC
Name, Title R Scott Lewis, PE
Address 11 Burtis Avenue
City, ST Zip New Canaan, CT 06840
Phone: 203 966 5156 Email scott@rscottlewis.com
License State NY NJ No. 059161 Type PE RA

Comments

Note: If more than one A/EOR each must complete a separate form. Provide the TC details of the A/EOR organizational relationship and hierarchy.

Submitted By
Name, Title Brian Gore, Regional Manager, Facilities
Signature 
Date 03/02/2012
Copies To

To be submitted by the Tenant at the Kick-off Meeting.

A/EOR's Form Accepting TAA Process
To be submitted by all A/EOR's as applicable

Tenant Name Delta Airlines

Facility Terminal C LGA

Project New Delta Signage

TAA Number

Architect/Engineer of Record Information

Firm Name R. Scott Lewis, PE, PC

Name, Title R. Scott Lewis, PE

Address 11 Burtis Avenue

City, ST Zip New Canaan, CT 06840

Phone: 203 966 5156

Email scott@rscottlewis.com

License State NY NJ No. 059161 Type PE RA

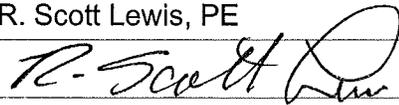
Statement of Acceptance

Please be advised that I have read the Tenant Construction and Alteration Process (TCAP) Manual and accept the PA TAA Process. We have instructed our consultants to read the TCAP Manual and accept the PA TAA Process.

Submitted By

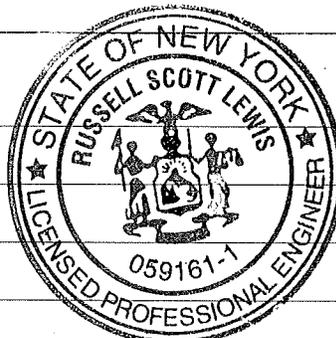
Name, Title R. Scott Lewis, PE

Signature



Date 03/01/2012

Copies To



To be submitted by the A/EOR at the Kick-off Meeting.

A/EOR Declaration with TAA Form PA 531

Tenant Name Delta Airlines
 Facility Terminal C LGA
 Project New Delta Signage
 TAA Number _____

Architect/Engineer of Record
 Firm Name R. Scott Lewis, PE, PC
 Name, Title R. Scott Lewis, PE
 Address 11 Burtis Avenue
 City, ST Zip New Canaan, CT 06840
 Phone: 203 966 5156 Email scott@rscottlewis.com
 License State NY NJ No. 059161 Type PE RA

Comments
 With this Tenant Alteration Application we are submitting signed and sealed Contract Documents that describe the project.
 Our submittal incorporates all requirements of the TCAP Manual Section 4.1.2.4.
 The project is in conformance to the Americans with Disabilities Act (ADA) as well as local laws. All finishes comply with the requirements of both the Port Authority Construction Review Manual and (Building Code).
 A list of the Contract Documents submitted is provided in the attached form TAA Ph 1 07.

Submitted By
 Name, Title R. Scott Lewis, PE
 Signature *R. Scott Lewis*
 Date 03/01/2012
 Copies To _____



To be submitted by the A/EOR with the Contract Documents.

**THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY
ENGINEERING DEPARTMENT
SPECIAL INSPECTIONS**

TAA No: _____ Date: _____

TAA Title: _____

Category (ICC)	Special Inspection Sub-category *	Referenced Code Section	Responsible Entity *	Completed Date **
Fabrication	1. Inspection of Fabricators	IBC, Section 1704.2		___/___/___
Steel Construction	2. Verification and Inspection of Steel Construction	IBC, Section 1704.3 IBC, Table 1704.3	R. S. LEWIS, PE	___/___/___
Concrete Construction	3. Verification and Inspection of Concrete Construction	IBC, Section 1704.4 IBC, Table 1704.4		___/___/___
Masonry Construction	4. Verification and Inspection of Nonessential Facilities 5. Verification and Inspection of Essential Facilities	IBC, Section 1704.5 IBC, Table 1704.5.1 IBC, Section 1704.5 IBC, Table 1704.5.3		___/___/___ ___/___/___
Wood Construction	6. Verification and Inspection of Wood Construction	IBC, Section 1704.6		___/___/___
Foundations	7. Soils 8. Pile Foundations 9. Pier Foundations	IBC, Section 1704.7 IBC, Section 1704.8 IBC, Section 1704.9		___/___/___ ___/___/___ ___/___/___
Sprayed Fire-resistant Materials	10. Sprayed Fire Resistant Materials applied to Structural Elements and Decks	IBC, Section 1704.11		___/___/___
Exterior Insulation & Finish Systems	11. Exterior Insulation and Finish Systems Applications	IBC, Section 1704.12		___/___/___
Special Cases	12. Special Case Inspections	IBC, Section 1704.13		___/___/___ ___/___/___
Smoke Control	13. Erection and Installation of Devices and Systems	IBC, Sections 909 and 1704.14		___/___/___
Seismic Resistance	14. Structural Steel 15. Structural Wood 16. Cold Formed Steel Framing 17. Storage Racks and Access Floors 18. Architectural Components, for Buildings with Seismic Design Category "D" only 19. Mech. And Elec. Components 20. Seismic Isolation System	IBC, Section 1707.2 IBC, Section 1707.3 IBC, Section 1707.4 IBC, Section 1707.5 IBC, Section 1707.6 IBC, Section 1707.7 IBC, Section 1707.8		___/___/___ ___/___/___ ___/___/___ ___/___/___ ___/___/___ ___/___/___ ___/___/___
Mechanical and Electrical Systems	21. As Required for Mechanical and Electrical Systems & Installations	IMC 2000 NEC 2002		___/___/___ ___/___/___
Others	22. As Applicable	Specify		___/___/___
Others	23. As Applicable	Specify		___/___/___
Partial/Final Inspection				___/___/___

* Enter the name of the firm/professional that will be performing the Special Inspections and submit prior to starting field work

** Upon completion of all Special Inspections, resubmit with completed dates and sign below

Architect/Engineer of Record (Firm Name) R. SCOTT LEWIS, PE, PC

Name: R. SCOTT LEWIS NY/NJ License No.: 059101 Signature: [Signature] Date: 3/2/12

Contract Document List

Tenant: Delta Air Lines
 Facility: Terminal C LGA
 Project: New Delta Signage
 TAA No:
 Date: 3/2/2012

Item No	Description	Signature	Dated	Reviewed
1	Drawing	Drawing S-001.00	2/17/2012	3/1/2012
2	Drawing	Drawing S-002.00	2/17/2012	3/1/2012
3	Computations		3/1/2012	
4	Drawing	Existing Sign 1 of 5	1/31/3012	
5	Drawing	Key Plan 2 of 5	2/29/2012	
6	Drawing	Proposed Sign Layout and Overlay 3 of 5	1/31/2012	
7	Drawing	Proposed Sign Sections 4 of 5	1/31/2012	
8	Drawing	Proposed Sign Sections 5 of 5	3/2/2012	

Tenant Alteration Application

APPLICANT MUST READ THE TERMS AND CONDITIONS INCLUDED WITH THIS FORM

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Three hereof on behalf of the Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Three hereof and the terms and conditions set forth in this form.

Tenant Name Delta Airlines
 Facility Terminal C LGA
 TAA Number _____
 Date 03/01/2012

Part One: Information to be furnished by Applicant (Refer to your lease or permit for required information)
 Permits are hereby requested to perform the following described work on the space occupied by the Applicant.

At (Facility) LGA Pursuant to (Lease, Space, Permit) No. _____ Location (Building No. or Area) of Space to be Altered Terminal C

Description of Work and Reason

New Delta Signage on East End of Departures Level

Estimated Cost of Work \$ 230,000.00 Estimated Time to Complete (Days) 6 Starting Date 03/21/2012 Completion Date 03/26/2012

Plans: Prints of each drawing must be submitted with copies of application. Include plan showing area affected by proposed work.

Title of Plan Drawing	Drawing No.	Dated
Elevation, Section Details & Location Plan	S-001.00 Page 1 of 2	03/01/2012
	S-002.00 Page 2 of 2	

Contractor: Name and Address (If Not Known, Submit Later) Going Sign & Servicing Co., Inc. 140 Terminal Drive Plainville, NY 11803 Phone No. <u>516 349 7600</u> License No. _____ Email <u>KGoing@goingsign.net</u>	Engineer or Architect Name and Address R. Scott Lewis, PE, PC 11 Burtis Avenue New Canaan, CT 06840 Phone No. <u>203 966 5156</u> License No. <u>059161</u> Email <u>scott@rscottlewis.com</u>
---	---

Send Correspondence To:
 (Name and Address of Employee In Charge of Work)

Kevin Going

Phone No. 516 349 7600
 Email KGoing@goingsign.net

ENGINEER OR ARCHITECT CERTIFICATION
 I have supervised the preparation of plans and specification for the entire work represented hereon and hereby certify that they conform to the requirements of the respective enactments, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and to all applicable health and fire regulations which should be applicable if the Port Authority were a private corporation.

Applicant's Name (As It Appears on Lease or Permit) Delta Air Lines By (Signature of Authorized Rep.) _____ Title <u>Regional Manager</u> Date <u>03/05/12</u>	Signature of Licensed Professional Engineer or Architect _____ Date <u>03/01/2012</u>
--	--

Part Two: MWBE Program Information

A Minority/Women Business Enterprise (MWBE) Plan is attached hereto for PA approval. The Tenant's contact person responsible for this project's MWBE Program is named below.

MWBE Contact Person (Name and address):

Phone No. _____ Email _____

Part Three: Design Approval (FOR PA USE ONLY)

The above Application Status is: Full Approval Withheld. Subject to the following conditions Conditional Approval

Signature _____ Reference Letter By _____

Prepared By _____ Date _____ Title _____ Date 03/01/2012

Tenant Alteration Application

APPLICANT MUST READ THE TERMS AND CONDITIONS INCLUDED WITH THIS FORM

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Three hereof on behalf of the Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Three hereof and the terms and conditions set forth in this form.

Tenant Name	Delta Airlines
Facility	Terminal C LGA
TAA Number	
Date	03/01/2012

Part One: Information to be furnished by Applicant (Refer to your lease or permit for required information)
 Permission is hereby requested to perform the following described work on the space occupied by the Applicant.

At (Facility) LGA	Pursuant to (Lease, Space, Permit) No.	Location (Building No. or Area) of Space to be Altered Terminal C
----------------------	--	--

Description of Work and Reason

New Delta Signage on East End of Departures Level

Estimated Cost of Work \$ 230,000.00	Estimated Time to Complete (Days) 6	Starting Date 03/21/2012	Completion Date 03/25/2012
---	--	-----------------------------	-------------------------------

Plans: Prints of each drawing must be submitted with copies of application. Include plan showing area affected by proposed work.

Title of Plan Drawing Elevation, Section Details & Location Plan	Drawing No. S-001.00 Page 1 of 2 S-002.00 Page 2 of 2	Dated 03/01/2012
--	---	---------------------

Contractor: Name and Address (If Not Known, Submit Later) Going Sign & Servicing Co., Inc. 140 Terminal Drive Plainview, NY 11803 Phone No. 516 349 7600 License No. [REDACTED] Email KGoing@goingsign.net	Engineer or Architect Name and Address R. Scott Lewis, PE, PC 11 Burtis Avenue New Canaan, CT 06840 Phone No. 203 966 5156 License No. 059161 Email scott@rscottlewis.com
---	--

Send Correspondence To: (Name and Address of Employee In Charge of Work) Kevin Going Phone No. 516 349 7600 Email KGoing@goingsign.net	ENGINEER OR ARCHITECT CERTIFICATION I have supervised the preparation of plans and specification for the entire work represented hereon and hereby certify that they conform to the requirements of the respective ordinances, resolutions and regulations of the City, town or municipality with regard to construction and maintenance of buildings and structures and to the health and fire protection which should be applicable if the Port Authority were a private corporation.  Signature _____ Date 03/01/2012
Applicant's Name (As it Appears on Lease or Permit) Delta Air Lines	Signature _____ Date _____
By (Signature of Authorized Rep.) 	Title Regional Manager Date 03/05/12

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A Minority/Women Business Enterprise (MWBE) Plan is attached hereto for PA approval. The Tenant's contact person responsible for this project's MWBE Program is named below.

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Conditional Approval

Signature _____ Reference Letter By _____

Prepared By _____	Date _____	Title _____	Date 03/01/2012
-------------------	------------	-------------	-----------------



ENVIRONMENTAL, GEOTECHNICAL AND MATERIAL PROFESSIONALS
 104 East 25th Street • Tenth Floor
 New York, NY 10010-2917
 Phone (212) 353-8280 • FAX (212) 979-8447

LETTER OF TRANSMITTAL

TO: Mr. Mark Paquiz
PANYNJ – Airport Facilities Division
Hangar 7 (3rd Floor)
LaGuardia Airport
Flushing, NY 11371

Date: March 7, 2012	Job No.304.15736.012
Re:	Delta Air Lines, Inc.
	Delta Branding Signage
	Terminal C
	LaGuardia Airport
	Flushing, NY

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

- Drawings Prints Plans Samples Specifications
 Copy of letter Change order PANYNJ Form PA-3677

COPIES	DATE	NO.	DESCRIPTION
4	03/07/12	1	Asbestos Certification Report
4	03/07/12	1	Lead Certification Report

THESE ARE TRANSMITTED as checked below:

- For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Return for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS USE _____ 19 _____ PRINTS RETURNED AFTER LOAD TO US

REMARKS: _____
 Patrick Sisk ph: 212-353-8280 (ext. 360)
 Sr. Project Manager fax: 212-353-8306
 ATC Associates, Inc. cell: 347-865-3742
 104 East 25th Street e-mail: Patrick.sisk@atcassociates.com
 New York, NY 10010

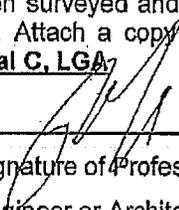
COPY TO: _____ SIGNED: 

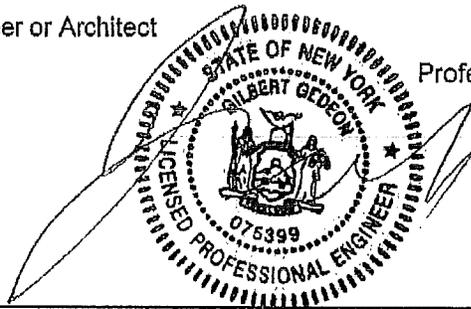
THE PORT AUTHORITY OF NY & NJ
Asbestos Certification Form

Complete this form and submit it with form PA-531. If Part Three, which indicates that asbestos containing material will be disturbed during the term of the project, then complete and submit form PA-3678. Professional engineer or architects and certified personnel must be licensed in the state where the work is to be performed. Complete one of the following.

Part One- Certification of Non- Asbestos:

The area of construction has been surveyed and no asbestos containing material (ACM) is present or disturbed during the course of this project. Attach a copy of the survey and test results. Delta Air Lines, Inc. - Delta Branding Signage, Roof Terminal C, LGA

<u>Gilbert Gedeon</u>		<u>075399</u>	<u>03/07/12</u>
Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date



Professional Engineer's Seal

Part Two- Asbestos Present- Not to be Disturbed

The area of construction has been surveyed. Asbestos is present within the area of work and will not be disturbed during the construction activities. or disturbed during the course of this project. Attach a copy of the survey and test results:

_____	_____	_____	_____
Name of Professional Engineer or Architect	Signature of Professional Engineer or Architect	License No.	Date

Part Three-Certification of an Asbestos Project:

The area of construction has been surveyed. Samples have been taken and the survey and test results of the Asbestos containing material (ACM) are attached.

_____	_____	_____	_____
Name of PA Approved Environmental Consultant Firm	Signature of Certified AHERA Inspector	AHERA Inspector Certificate No.	Date

For Port Authority Use Only

- A. Facility _____
- B. TAA No. _____ Cost Recovery No. _____
- C. Line Department Project Manager _____
Telephone Number _____



104 E. 25th St. New York, NY 10010
(212) 353-8280 (212) 353-8306 Fax
www.atcassociates.com

March 7, 2012

Mark Paquiz
PANYNJ – Airport Facilities Division
Hangar 7, 3rd Floor
LaGuardia Airport
Flushing, NY 11371-0677

**RE: Delta Air Lines, Inc.
Delta Branding Signage
Roof, Terminal C
LaGuardia Airport
Flushing, NY 11371-0677
ATC Project No. 304.15736.0033**

Dear Mr. Paquiz:

The attached Asbestos Certification Form (PA-3677) is for the submittal to conduct the renovations for the referenced project. The scope of work for the Delta Branding Signage project is to be conducted on exterior structural steel. The structural steel is bare metal and no suspect materials are present.

I hope this information has been helpful to you. Please do not hesitate to call if I can be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick Sisk', written over a horizontal line.

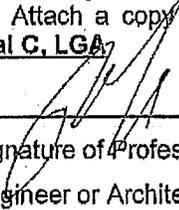
Patrick Sisk
Sr. Project Manager
New York Office

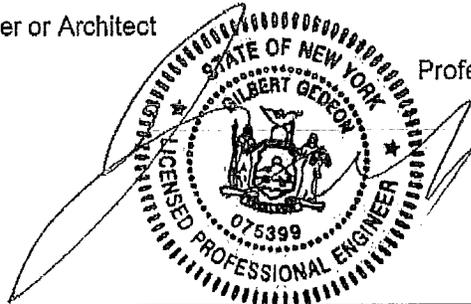
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Patrick Sisk
Sr. Project Manager
New York Office

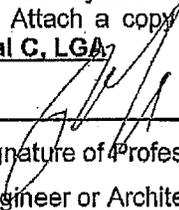
PA-3677
04/01

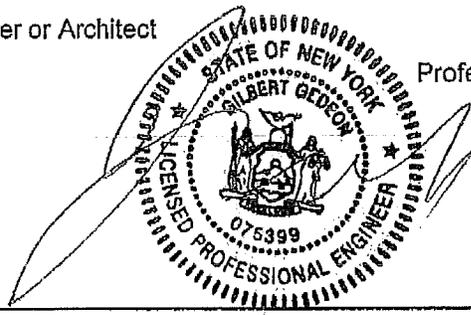
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For Port Authority Use Only

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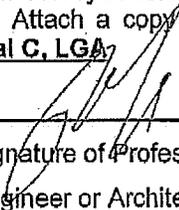
PA-3677
04/01

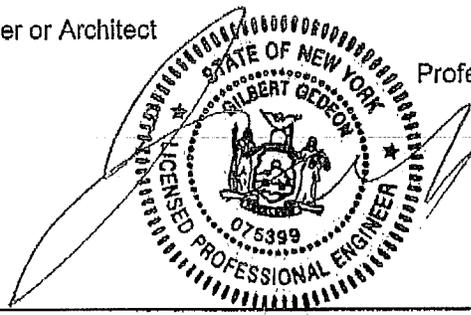
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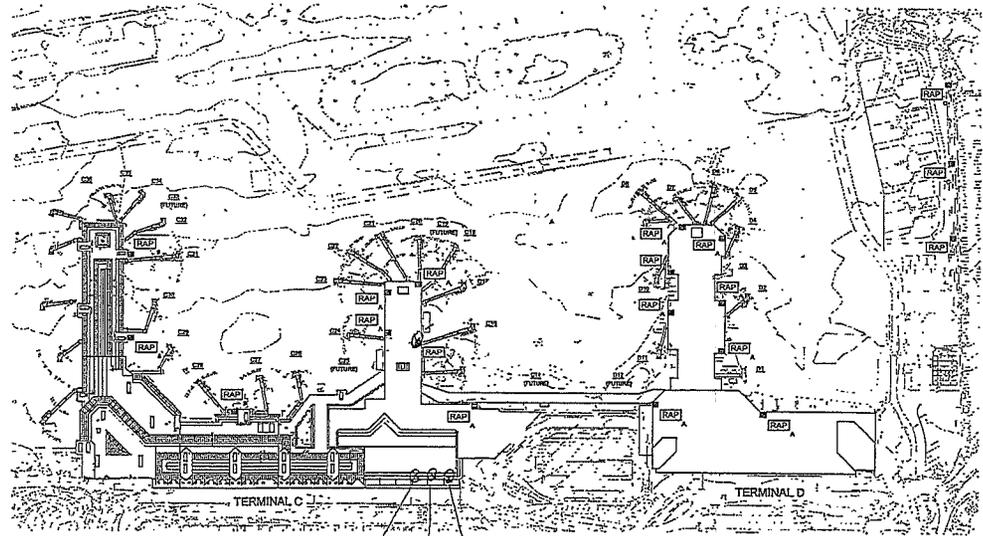
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Sr. Project Manager
New York Office



AVSP - FLACK+KURTZ

DISCUSS
RESIDENT DATA

REVISIONS

DELTA
TERMINALS C & D - BELOW RAMP W/IF
LAGUARDIA INTERNATIONAL AIRPORT
FLUSHING, NEW YORK

SEAL



ROOF LEVEL
OVERALL PLAN

JOB: 11254.1702
DATE: 2011.01.29

SHEET:
A01-02

GENERAL NOTES

LEGEND

- ROOT ACCESS POINT (ROOF MOUNTED)
D1 GATE NUMBER
SEE DETAIL 2009143
- ROOT ACCESS POINT (SURFACE MOUNTED)
SEE DETAIL 2009143
- ROOT ACCESS POINT (FENCE MOUNTED)
SEE DETAIL 2009143
- LIGHTWEIGHT ACCESS POINT
SEE DETAIL 2009143

10/11/2011 10:00 AM



ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

Client: ATC - NEW YORK	Sample Date: 3/5/2012
104 E 25TH STREET, 10TH FL	Date Received: 3/5/2012
NEW YORK, NY 10010	Date Analyzed : 3/6/2012
Fax: (212) 353-3599	Phone: (212) 353-8280
Project: DELTA AIRLINES	Report Date: 3/6/2012
	ATC Batch #: 41446
	Total Samples: 3
Location: TERMINAL C, LGA	Sample Media: Paint Chips by weight
Project # N/A	

PAINT SAMPLE ANALYSIS BY FLAME (AA) METHOD EPA 3050B Modified/7000B

ANALYSIS RESULTS

SAMPLE ID	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT (% by weight)
L-001 41446 -1	Roof / US Airways Shuttle	0.02	0.01
L-002 41446 -2	Roof / US Airways Shuttle	< 0.01	0.01
L-003 41446 -3	Roof / US Airways Shuttle	0.45	0.01

NOTES:

- 1) THE REPORTING LIMIT (RL) IS 0.01%. The detection limit as reported is the reporting limit. The true detection limit is half the RL. RL is based on 0.010 mg/sample weight which is typically 0.1 gram.
- 2) HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight. Results preceded by "<" are below the detectable levels by this analysis method.
- 3) Blank units are in µg
- 4) ATC Associates Inc. Laboratory is not responsible for sample collection. These results relate only to the items tested. This report shall not be reproduced, except in full, without written approval of the laboratory.
- 5) ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) and by the American Industrial Hygiene Association (AIHA-LAP, LLC) to perform analysis of lead in paint dust wipes, air and soil samples. (ELAP #10879), (AIHA-LAP, LLC #100229).
- 6) Confidentiality Notice:
The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Unless otherwise indicated, no blank corrections were performed.
- 8) The condition of all samples was acceptable upon receipt.
- 9) Unless otherwise indicated all QC results were in control.
- 10) The data within this report is reliable to 3 significant figures.
- 11) The laboratory certifies that the test results meet all requirements of NELAC.
- 12) Supplement to test report batch # _____, Amendments: _____, Amendment Dates: _____, Amended by: _____
- 13) ATC certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 14) The uncertainty for these test results is available upon request.

Inna Livshiz

Analyzed by:

Milena Bonezzi

Approved by
Laboratory Director:

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certifications Permit

PATRICK SISK

Permit Number: 022894

ID Number: 003441

Expiration Date: 12/24/2012

Authorization Signature:



Joseph D. Eldridge, M.P.H.

Inspector/Risk Assessor

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen PERMIT, notify us of edits to information on the PERMIT, report a change of address, or defects in the card, or to find out how to renew this PERMIT, contact the NJDHSS at:

New Jersey Department of Health & Senior Services
Consumer, Environmental & Occupational Health Services
Indoor Environments Program, Training and Certification
135 East State Street, PO Box 372

Trenton, NJ 08625-0372

Telephone: (609) 826-4950 Fax: (609) 826-4975

www.state.nj.us/health/iep

If this permit is found abandoned, please send to above address.

DA

12/21/2010

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS

All approved analytes are listed below

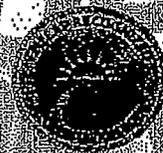
Metals I

Lead, Total

NIOSH 7082

Serial No: 44051

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (618) 485-3570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MS. MILENA BONEZZI
ATC ASSOCIATES INC.
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id. No. 10879
EPA Lab Code NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE

All approved analyses are listed below

Sample Preparation Methods

EPA 8050B

Serial No. 44049

Property of the New York State Department of Health. Certificates are valid only as the address shown must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (619) 485-5570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 110879
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below.

Miscellaneous

- Asbestos in Friable Material EPA 600/M4/82/020
- Asbestos in Non-Friable Material (RLM) Item 198.6 of Manual (NOB by RLM)
- Asbestos in Non-Friable Material (TEM) ITEM 198.4 OF MANUAL

Sample Preparation Methods

EPA 3050B

Serial No. 44050

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 486-5579 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to Section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES POTABLE WATER

All approved analytes are listed below

Drinking Water Miscellaneous

Asbestos

EPA 100.1

Serial No: 44048

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 489-6570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01949

Is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous Air

Asbestos

Fibers

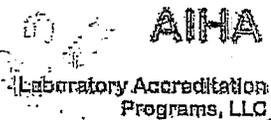
40 CFR 763/ APX A No. III

NIOSH 7402

NIOSH 7400 A RULES

Serial No. 44052

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 485-5370 to verify the laboratory's accreditation status.



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ATC Associates, Inc.

104 East 25th Street, 10th Floor, New York, NY 10010

Laboratory ID: 100229

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 11/01/2013 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 09/01/2011



104 E. 25th St. New York, NY 10010

(212) 353-8280 (212) 353-8306 Fax

www.atcassociates.com

March 7, 2012

Mark Paquiz
PANYNJ – Airport Facilities Division
Hangar 7, 3rd Floor
LaGuardia Airport
Flushing, NY 11371-0677

**RE: Delta Air Lines, Inc.
Delta Branding Signage
Roof, Terminal C
LaGuardia Airport
Flushing, NY 11371-0677
ATC Project No. 304.15736.0033**

Dear Mr. Paquiz:

The attached Asbestos Certification Form (PA-3677) is for the submittal to conduct the renovations for the referenced project. The scope of work for the Delta Branding Signage project is to be conducted on exterior structural steel. The structural steel is bare metal and no suspect materials are present.

I hope this information has been helpful to you. Please do not hesitate to call if I can be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick Sisk', is written over a horizontal line.

Patrick Sisk
Sr. Project Manager
New York Office

(SECURITY DRAWINGS – EXEMPTION 4)



ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

Client: ATC - NEW YORK	Sample Date: 3/5/2012
104 E 25TH STREET, 10TH FL	Date Received: 3/5/2012
NEW YORK, NY 10010	Date Analyzed : 3/6/2012
Fax: (212) 353-3599	Phone: (212) 353-8280
Project: DELTA AIRLINES	Report Date: 3/6/2012
	ATC Batch #: 41446
	Total Samples: 3
Location: TERMINAL C, LGA	Sample Media: Paint Chips by weight
Project # N/A	

PAINT SAMPLE ANALYSIS BY FLAME (AA) METHOD EPA 3050B Modified/7000B

ANALYSIS RESULTS

SAMPLE ID	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT (% by weight)
L-001 41446 -1	Roof / US Airways Shuttle	0.02	0.01
L-002 41446 -2	Roof / US Airways Shuttle	< 0.01	0.01
L-003 41446 -3	Roof / US Airways Shuttle	0.45	0.01

NOTES:

- 1) THE REPORTING LIMIT (RL) IS 0.01%. The detection limit as reported is the reporting limit. The true detection limit is half the RL. RL is based on 0.010 mg/sample weight which is typically 0.1 gram.
- 2) HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight. Results preceded by "<" are below the detectable levels by this analysis method.
- 3) Blank units are in µg
- 4) ATC Associates Inc. Laboratory is not responsible for sample collection. These results relate only to the items tested. This report shall not be reproduced, except in full, without written approval of the laboratory.
- 5) ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) and by the American Industrial Hygiene Association (AIHA-LAP, LLC) to perform analysis of lead in paint dust wipes, air and soil samples. (ELAP #10879), (AIHA-LAP, LLC #100229).
- 6) Confidentiality Notice:
The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Unless otherwise indicated, no blank corrections were performed.
- 8) The condition of all samples was acceptable upon receipt.
- 9) Unless otherwise indicated all QC results were in control.
- 10) The data within this report is reliable to 3 significant figures.
- 11) The laboratory certifies that the test results meet all requirements of NELAC.
- 12) Supplement to test report batch # _____, Amendments: _____. Amendment Dates: _____. Amended by: _____
- 13) ATC certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 14) The uncertainty for these test results is available upon request.

Inna Livshiz

Analyzed by:

Milena Bonezzi

Approved by
Laboratory Director:

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certifications Permit

PATRICK SISK
Permit Number: 022894
ID Number: 003441
Expiration Date: 12/24/2012



Authorization Signature:

Joseph D. Eldridge, M.P.H.

Inspector/Risk Assessor

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen PERMIT, notify us of edits to information on the PERMIT, report a change of address, or defects in the card, or to find out how to renew this PERMIT, contact the NJDHSS at:
New Jersey Department of Health & Senior Services
Consumer, Environmental & Occupational Health Services
Indoor Environments Program, Training and Certification
135 East State Street, PO Box 372
Trenton, NJ 08625-0372
Telephone: (609) 826-4950 Fax: (609) 826-4975
www.state.nj.us/health/iep

If this permit is found abandoned, please send to above address.

DA

12/24/2010

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MRS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 110579
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS

All approved analytes are listed below

Metals I

Lead-Total

NIOSH 7082

Serial No. 44051

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-3570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 10379
EPA Lab Code: NY01349

Is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE

All approved analytes are listed below

Sample Preparation Methods

EPA 3050B

Serial No. 44049

Property of the New York State Department of Health. Certificates are valid only at the address
shown and must be conspicuously posted, and are printed on secure paper. Continued accreditation depends
on success and ongoing participation in the Program. Consumers are urged to call (813) 485-5700 to
verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 602 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES, INC.
104 EAST 26TH, 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 110379
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below.

Miscellaneous

Asbestos in Friable Material EPA 600/M4/82/020

Asbestos in Non-Friable Material (PLM) Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material (TEM) ITEM 198.4 OF MANUAL

Sample Preparation Methods

EPA 3050B

Serial No. 44050

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-9570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER



Expires 12:01 AM April 01, 2012
Issued April 01, 2011

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES, INC.
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No. 10879
EPA Lab Code NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES POTABLE WATER

All approved analytes are listed below

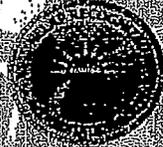
Drinking Water Miscellaneous

Asbestos

EPA 100.1

Serial No. 44048

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on interested ongoing participation in the Program. Consumers are urged to call (518) 486-6570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 802 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH, 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01849

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below.

Miscellaneous Air

Asbestos

Fibers

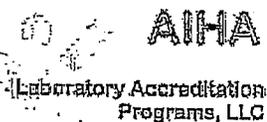
40 CFR 763/ APX-A No. III

NIOSH 7402

NIOSH 7400-A RULES

Serial No: 44052

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 485-5670 to verify the laboratory's accreditation status.



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ATC Associates, Inc.

104 East 25th Street, 10th Floor, New York, NY 10010

Laboratory ID: 100229

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 11/01/2013 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 09/01/2011



104 E. 25th St. New York, NY 10010

(212) 353-8280 (212) 353-8306 Fax

www.atcassociates.com

March 7, 2012

Mark Paquiz
PANYNJ – Airport Facilities Division
Hangar 7, 3rd Floor
LaGuardia Airport
Flushing, NY 11371-0677

**RE: Delta Air Lines, Inc.
Delta Branding Signage
Roof, Terminal C
LaGuardia Airport
Flushing, NY 11371-0677
ATC Project No. 304.15736.0033**

Dear Mr. Paquiz:

The attached Asbestos Certification Form (PA-3677) is for the submittal to conduct the renovations for the referenced project. The scope of work for the Delta Branding Signage project is to be conducted on exterior structural steel. The structural steel is bare metal and no suspect materials are present.

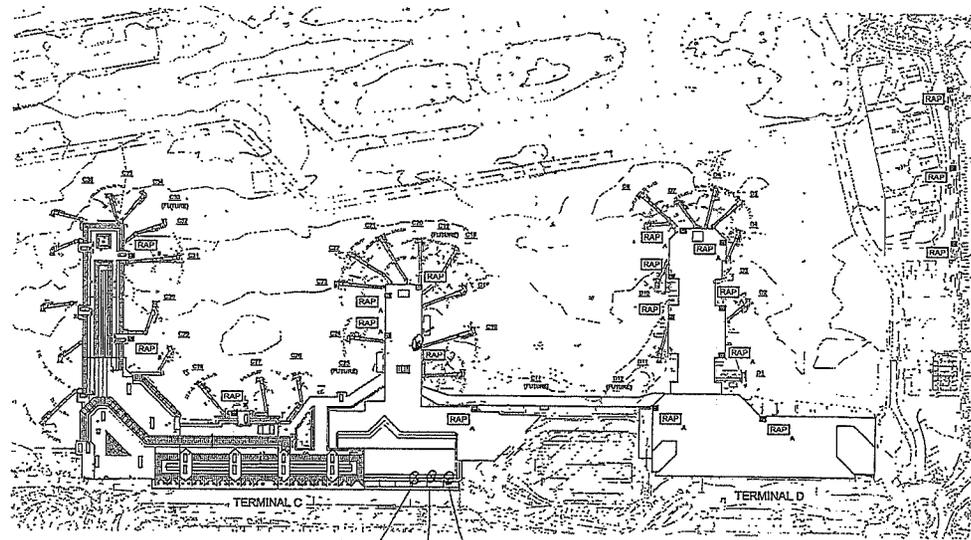
I hope this information has been helpful to you. Please do not hesitate to call if I can be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick Sisk', is written over a horizontal line.

Patrick Sisk
Sr. Project Manager
New York Office

(SECURITY DRAWINGS – EXEMPTION 4)



L-001
L-002 L-003

LEGEND
⊗ SAMPLING LOCATION

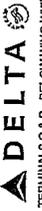


CORCAH
CONSTRUCTION OBSERVATION REPORTING COMPANY
INCORPORATED

AWP-FLACK+KURTZ
ARCHITECTS

ISSUES
RESOLVED: EST. 11/11/11

REVISIONS



DELTA
TERMINALS C & D - BELOW WING W/FT
LAGUARDIA INTERNATIONAL AIRPORT
FLUSHING, NEW YORK

SEAL



ROOF LEVEL
OVERALL PLAN

JOB: 11254.1703
DATE: 2011.01.09
SHEET:
A01-02

GENERAL NOTES

LEGEND

- RAP ROOT ACCESS POINT (ROOF MOUNTED)
31 LOCATIONS
SEE DETAIL R0403-02
- RAP ROOT ACCESS POINT (SURFACE MOUNTED)
3 LOCATIONS
SEE DETAIL R0404-02
- RAP ROOT ACCESS POINT (FENCE MOUNTED)
3 LOCATIONS
- LAP LIGHTWEIGHT ACCESS POINT
11 LOCATIONS

DI GATE NUMBER



ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

Client: ATC - NEW YORK 104 E 25TH STREET, 10TH FL NEW YORK, NY 10010	Sample Date: 3/5/2012
Fax: (212) 353-3599 Phone: (212) 353-8280	Date Received: 3/5/2012
Project: DELTA AIRLINES	Date Analyzed : 3/6/2012
	Report Date: 3/6/2012
	ATC Batch #: 41446
	Total Samples: 3
Location: TERMINAL C, LGA	Sample Media: Paint Chips by weight
Project # N/A	

PAINT SAMPLE ANALYSIS BY FLAME (AA) METHOD EPA 3050B Modified/7000B

ANALYSIS RESULTS

SAMPLE ID	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT (% by weight)
L-001 41446 -1	Roof / US Airways Shuttle	0.02	0.01
L-002 41446 -2	Roof / US Airways Shuttle	< 0.01	0.01
L-003 41446 -3	Roof / US Airways Shuttle	0.45	0.01

NOTES:

- 1) THE REPORTING LIMIT (RL) IS 0.01%. The detection limit as reported is the reporting limit. The true detection limit is half the RL. RL is based on 0.010 mg/sample weight which is typically 0.1 gram.
- 2) HUD defines lead-based paint as paint having a lead concentration equal to or above 0.6% by weight. Results preceded by "<" are below the detectable levels by this analysis method.
- 3) Blank units are in µg
- 4) ATC Associates Inc. Laboratory is not responsible for sample collection. These results relate only to the items tested. This report shall not be reproduced, except in full, without written approval of the laboratory.
- 5) ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) and by the American Industrial Hygiene Association (AIHA-LAP, LLC) to perform analysis of lead in paint, dust, wipes, air and soil samples. (ELAP #10879), (AIHA-LAP, LLC #100229).
- 6) Confidentiality Notice:
The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Unless otherwise indicated, no blank corrections were performed.
- 8) The condition of all samples was acceptable upon receipt.
- 9) Unless otherwise indicated all QC results were in control.
- 10) The data within this report is reliable to 3 significant figures.
- 11) The laboratory certifies that the test results meet all requirements of NELAP.
- 12) Supplement to test report batch # _____ Amendments: ____ Amendment Dates: ____ Amended by: _____
- 13) ATC certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 14) The uncertainty for these test results is available upon request.

Inna Livshiz

Analyzed by:

Milena Bonezzi

Approved by

Laboratory Director:

United States Environmental Protection Agency

This is to certify that

ATC Associates, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires July 29, 2013

NY-68932-1

Certification #

JUL 23 2010

Issued On



John Gorman, Acting Chief

Pesticides & Toxic Substances Branch

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certifications Permit

PATRICK SISK
Permit Number: 022894
ID Number: 003441
Expiration Date: 12/24/2012



Authorization Signature:

Joseph D. Eldridge
Joseph D. Eldridge, M.P.H.

Inspector/Risk Assessor

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen PERMIT, notify us of edits to information on the PERMIT, report a change of address, or defects in the card, or to find out how to renew this PERMIT, contact the NJDHSS at:
New Jersey Department of Health & Senior Services
Consumer, Environmental & Occupational Health Services
Indoor Environments Program, Training and Certification
135 East State Street, PO Box 372

Trenton, NJ 08625-0372

Telephone: (609) 826-4950 Fax: (609) 826-4973

www.state.nj.us/health/iep

If this permit is found abandoned, please send to above address.

D.A.

12/21/2010

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 602 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES, INC
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab ID No. 10879
EPA Lab Code NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below.

Metals I

Lead, Total

NIOSH 7082

Serial No. 44051

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (616) 486-3570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE

All approved analyses are listed below

Sample Preparation Methods:

EPA 3050B

Serial No. 44049

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (619) 485-2670 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 602 of the Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below.

Miscellaneous

- Asbestos in Friable Material EPA 600/M4/82/020
- Asbestos in Non-Friable Material PLM Item 198.6 of Manual (NGB by PLM)
- Asbestos in Non-Friable Material TEM ITEM 198.4 OF MANUAL

Sample Preparation Methods

EPA 3050B

Serial No. 44050

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 465-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES, INC.
104 EAST 25TH, 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01949

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below

Drinking Water/Miscellaneous

Asbestos

EPA 100.1

Serial No: 44048

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (616) 482-6670 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires: 12:01 AM April 01, 2012
Issued: April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 of Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01349

Is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below.

Miscellaneous Air

Asbestos

Fibers

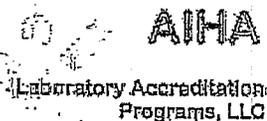
40 CFR 763/APP-A No. II

NIOSH 7402

NIOSH 7400/A RULES

Serial No. 44052

Property of the New York State Department of Health. Certificates are valid only at the address shown. Must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (813) 485-5570 to verify the laboratory's accreditation status.



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ATC Associates, Inc.

104 East 25th Street, 10th Floor, New York, NY 10010

Laboratory ID: 100229

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 11/01/2013 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 09/01/2011



104 E. 25th St. New York, NY 10010

(212) 353-8280 (212) 353-8306 Fax

www.atcassociates.com

March 7, 2012

Mark Paquiz
PANYNJ – Airport Facilities Division
Hangar 7, 3rd Floor
LaGuardia Airport
Flushing, NY 11371-0677

**RE: Delta Air Lines, Inc.
Delta Branding Signage
Roof, Terminal C
LaGuardia Airport
Flushing, NY 11371-0677
ATC Project No. 304.15736.0033**

Dear Mr. Paquiz:

The attached Asbestos Certification Form (PA-3677) is for the submittal to conduct the renovations for the referenced project. The scope of work for the Delta Branding Signage project is to be conducted on exterior structural steel. The structural steel is bare metal and no suspect materials are present.

I hope this information has been helpful to you. Please do not hesitate to call if I can be of further assistance.

Sincerely,

A handwritten signature in black ink, appearing to read 'Patrick Sisk', written over a horizontal line.

Patrick Sisk
Sr. Project Manager
New York Office

(SECURITY DRAWINGS – EXEMPTION 4)



ATC ASSOCIATES INC

104 E. 25th Street, 10th Floor
New York, NY 10010
Tel. 212-353-8280
Fax: 212-353-8306

Client: ATC - NEW YORK
104 E 25TH STREET, 10TH FL
NEW YORK, NY 10010

Fax: (212) 353-3599 **Phone:** (212) 353-8280

Project: DELTA AIRLINES

Sample Date: 3/5/2012

Date Received: 3/5/2012

Date Analyzed : 3/6/2012

Report Date: 3/6/2012

ATC Batch #: 41446

Total Samples: 3

Location: TERMINAL C, LGA

Sample Media: Paint Chips by weight

Project # N/A

PAINT SAMPLE ANALYSIS BY FLAME (AA) METHOD EPA 3050B Modified/7000B

ANALYSIS RESULTS

SAMPLE ID	SAMPLE DESCRIPTION	LEAD CONCENTRATION (% by weight)	DETECTION LIMIT (% by weight)
L-001 41446 -1	Roof / US Airways Shuttle	0.02	0.01
L-002 41446 -2	Roof / US Airways Shuttle	< 0.01	0.01
L-003 41446 -3	Roof / US Airways Shuttle	0.45	0.01

NOTES:

- 1) THE REPORTING LIMIT (RL) IS 0.01%. The detection limit as reported is the reporting limit. The true detection limit is half the RL. RL is based on 0.010 mg/sample weight which is typically 0.1 gram.
- 2) HUD defines lead-based paint as paint having a lead concentration equal to or above 0.5% by weight. Results preceded by "<" are below the detectable levels by this analysis method.
- 3) Blank units are in µg
- 4) ATC Associates Inc. Laboratory is not responsible for sample collection. These results relate only to the items tested. This report shall not be reproduced, except in full, without written approval of the laboratory.
- 5) ATC is accredited by the New York State Department of Health Environmental Laboratory Approval Program (ELAP) and by the American Industrial Hygiene Association (AIHA-LAP, LLC) to perform analysis of lead in paint dust wipes, air and soil samples. (ELAP #10879), (AIHA-LAP, LLC #100229).
- 6) Confidentiality Notice:
The document(s) contained herein are confidential and privileged information, intended for the exclusive use of the individual or entity named above.
- 7) Unless otherwise indicated, no blank corrections were performed.
- 8) The condition of all samples was acceptable upon receipt.
- 9) Unless otherwise indicated all QC results were in control.
- 10) The data within this report is reliable to 3 significant figures.
- 11) The laboratory certifies that the test results meet all requirements of NELAC.
- 12) Supplement to test report batch # _____ Amendments: ____ Amendment Dates: ____ Amended by: _____
- 13) ATC certifies that this report is an accurate and authentic report of the results obtained from the laboratory analysis
- 14) The uncertainty for these test results is available upon request.

Inna Livshiz

Analyzed by:

Milena Bonezzi

Approved by
Laboratory Director:

United States Environmental Protection Agency

This is to certify that

ATC Associates, Inc.

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

New York

This certification is valid from the date of issuance and expires July 29, 2013

NY-68932-1

Certification #

JUL 23 2010

Issued On



John Gorman, Acting Chief

Pesticides & Toxic Substances Branch

New Jersey Department of
Health & Senior Services
Indoor Environments Program
Lead Certifications Permit

PATRICK SISK
Permit Number: 022894
ID Number: 003441
Expiration Date: 12/24/2012



Authorization Signature:

Joseph D. Eldridge

Joseph D. Eldridge, M.P.H.

Inspector/Risk Assessor

This PERMIT has been issued in accordance with N.J.A.C. 8:62. You MUST have this PERMIT with you on the job. To report a lost or stolen PERMIT, notify us of edits to information on the PERMIT, report a change of address, or defects in the card, or to find out how to renew this PERMIT, contact the NJDHSS at:

New Jersey Department of Health & Senior Services
Consumer, Environmental & Occupational Health Services
Indoor Environments Program, Training and Certification
135 East State Street, PO Box 372

Trenton, NJ 08625-0372

Telephone: (609) 826-4950 Fax: (609) 826-4975

www.state.nj.us/health/iep

If this permit is found abandoned, please send to above address.

DA

Patrick Sisk

12/21/2010

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab ID No. 110879
EPA Lab Code NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS

All approved analytes are listed below:

Metals I

Lead, Total

NIOSH 7082

Serial No. 44051

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 485-3570 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
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ATC ASSOCIATES INC
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab ID No: 110879
EPA Lab Code: NY01349

Is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES (SOLID AND HAZARDOUS WASTE)

All approved analytes are listed below

Sample Preparation Methods

EPA 3050B

Serial No. 44049

Property of the New York State Department of Health. Certificates are valid only if the address shown must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (609) 485-5370 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

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ATC ASSOCIATES, INC.
104 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab Id No: 10879
EPA Lab Code: NY01349

Is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material EPA 600/M4/82/020

Asbestos in Non-Friable Material (PLM) Item 198.6 of Manual (NOB by PLM)

Asbestos in Non-Friable Material (TEM) ITEM 198.4 OF MANUAL

Sample Preparation Methods

EPA 3050B

Lab No. 44050

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (518) 485-5570 to verify the laboratory's accreditation status.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MS. MILENA BONEZZI
ATC ASSOCIATES, INC.
104 EAST 25TH, 10TH FLOOR
NEW YORK, NY, 10010

NY Lab Id No. 10379
EPA Lab Code NY01349

is hereby APPROVED as an Environmental Laboratory in conformance with the
National Environmental Laboratory Accreditation Conference Standards for the category
ENVIRONMENTAL ANALYSES POTABLE WATER

All approved analytes are listed below

Drinking Water Miscellaneous

Asbestos

EPA 100.1

Serial No. 44043

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on successful ongoing participation in the Program. Consumers are urged to call (516) 486-6670 to verify the laboratory's accreditation status.



NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2012
Issued April 01, 2011



CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 602 Public Health Law of New York State

MS. MILENA BONEZZI
ATC ASSOCIATES INC
102 EAST 25TH 10TH FLOOR
NEW YORK, NY 10010

NY Lab No: 10879
EPA Lab Code: NY01349

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved subcategories and/or analytes are listed below:

Miscellaneous Air

Asbestos

40 CFR 763/ APX A No. III

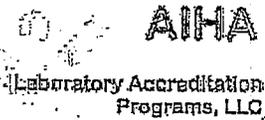
NIOSH 7402

Fibers

NIOSH 7400/A RULES

Serial No: 44052

Property of the New York State Department of Health. Certificates are valid only at the address shown, must be conspicuously posted, and are printed on secure paper. Continued accreditation depends on success in ongoing participation in the program. Consumers are urged to call (516) 486-2570 to verify the laboratory's accreditation status.



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

ATC Associates, Inc.

104 East 25th Street, 10th Floor, New York, NY 10010

Laboratory ID: 100229

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: 11/01/2013 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 11/01/2013 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Revision 11: 01/13/2011

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 09/01/2011

Paquiz, Mark

From: Byrne, Ronan [Ronan.Byrne@parsons.com]
Sent: Friday, March 09, 2012 3:24 PM
To: Paquiz, Mark
Cc: Stolt, Donald W; Stolt, Donald W
Subject: FW: LGA Building height
Attachments: image001.jpg; LGA Building Height.jpg

Mark,

Attached is an elevation of the terminal C building which I hope clear up that the sign removal and installation on top of the roadway canopy will not require equipment to be higher than the adjacent terminal roof,

Please let us know your thoughts,

Thanks,

Ronan

From: Hye Kyung Yang [mailto:hyekyung.yang@corgan.com]
Sent: Friday, March 09, 2012 3:03 PM
To: Byrne, Ronan
Cc: Farhad Mody
Subject: LGA Building height

Hi Ronan,

Please see attached for the scanned JPG of US Airways drawings that show the highest height of LGA as 85'-5."

Please let us know if you have any questions.

Best,
Hye-Kyung

--



Hye-Kyung Yang
Corgan Associates Architects PC
350 Fifth Avenue | Suite 5401 | New York, NY 10118
TEL 212 847 3058
www.corgan.com

Please consider the environment before printing this email.



MEMORANDUM

Engineering Department

To: Michael Moran, Manager, Plant, Structures, and Redevelopment, LaGuardia Airport
From: Saroj Bhol
Date: April 19, 2012
Subject: **LGA – ALTERATION APPLICATION G-2496 – DELTA AIRLINES –
TERMINAL C – NEW DELTA SIGNAGE ON EAST END OF DEPARTURES
LEVEL**

Reference: Review Request Dated: 04/06/12

Copy To: T. Amoia, M. Arias, A. Fadavi, E. Gould, C. J. Lin, M. Paquiz, V. Passarelli,
N. Russo, D. Warren; Job Folder

The documents, submitted with the referenced request, have been reviewed.

The previous conditional approval for construction is now changed to full **approval**.

There are no further comments.

- REMARKS: 1) See the attachment for a list of approved drawings.
- 2) Copy Line distribution was via "Outlook" only.

Saroj Bhol, P.E.
Manager, Construction Design Standards
Quality Assurance Division

ID: G-2496-00-002

JP:CMB

Attachment

Reviewers: J. Patel, Electrical & Coordination; C.S. Lee, Structural



ATTACHMENT

ALTERATION APPLICATION G-2496

Following is a list of approved drawings. All changes from the previous list are shown in boldface:

<u>Drawings</u>	<u>Dated</u>	<u>Revised</u>
S-001.00		3/21/2012
S-002.00		3/21/2012
S-003.00		3/21/2012
D-11247 10F5	1/31/2012	
D-11247 20F5	1/31/2012	
D-11247 30F5		3/6/2012
D-11247 40F5		3/22/2012
D-11247 50F5		3/22/2012

Danquah, Elizabeth

From: Boyer, Cameron
Sent: Friday, April 27, 2012 8:55 AM
To: Paquiz, Mark
Cc: Danquah, Elizabeth; Dauwalter, Kevin; Calise, Rosemarie; Ort, Jack; Rhoads, Chris; Russo, Nicholas; Passarelli, Victor; Demarchi, Zaria; Mercado, Peter
Subject: G-2496 Delta Terminal - Exterior Sign Installation - Terminal C

Mark,

I have no further comments.

Regards,

Cameron J. Boyer

Landside Duty Manager
La Guardia Airport
CTB 3rd Floor Rm # 3801
Flushing, NY 11371
(718) 533-3605 office
(646) 739-7220 cell
(718) 533-3606 fax



MEMORANDUM

Engineering Department

To: Michael Moran, Manager, Plant, Structures, and Redevelopment, LaGuardia Airport
From: Saroj Bhol
Date: April 19, 2012
Subject: **LGA – ALTERATION APPLICATION G-2496 – DELTA AIRLINES –
TERMINAL C – NEW DELTA SIGNAGE ON EAST END OF DEPARTURES
LEVEL**

Reference: Review Request Dated: 04/06/12

Copy To: T. Amoia, M. Arias, A. Fadavi, E. Gould, C. J. Lin, M. Paquiz, V. Passarelli,
N. Russo, D. Warren; Job Folder

The documents, submitted with the referenced request, have been reviewed.

The previous conditional approval for construction is now changed to full **approval**.

There are no further comments.

- REMARKS: 1) See the attachment for a list of approved drawings.
- 2) Copy Line distribution was via "Outlook" only.

Saroj Bhol, P.E.
Manager, Construction Design Standards
Quality Assurance Division

ID: G-2496-00-002

JP:CMB

Attachment

Reviewers: J. Patel, Electrical & Coordination; C.S. Lee, Structural



ATTACHMENT

ALTERATION APPLICATION G-2496

Following is a list of approved drawings. All changes from the previous list are shown in boldface:

<u>Drawings</u>	<u>Dated</u>	<u>Revised</u>
S-001.00		3/21/2012
S-002.00		3/21/2012
S-003.00		3/21/2012
D-11247 1OF5	1/31/2012	
D-11247 2OF5	1/31/2012	
D-11247 3OF5		3/6/2012
D-11247 4OF5		3/22/2012
D-11247 5OF5		3/22/2012



MEMORANDUM

Engineering Department

To: Michael Moran, Manager, Plant, Structures, and Redevelopment, LaGuardia Airport
From: Saroj Bhol
Date: March 14, 2012
Subject: **LGA – ALTERATION APPLICATION G-2496 – DELTA AIRLINES – TERMINAL C – NEW DELTA SIGNAGE ON EAST END OF DEPARTURES LEVEL**

Reference: Review Request Dated: 3/07/12

Copy To: T. Amoia, M. Arias, A. Fadavi, E. Gould, C. J. Lin, M. Paquiz, V. Passarelli, N. Russo, D. Warren; Job Folder

The documents, submitted with the referenced request, have been reviewed and **conditionally approved** for construction subject to compliance with the **four (4) comments** on the attached Rider.

Construction may proceed. However, the documents shall be revised and resubmitted, as per the comments. All comments must be resolved and documents approved prior to the completion of construction.

- REMARKS: 1) See the attachment for a list of approved drawings.
- 2) Copy Line distribution was via "Outlook" only.

Saroj Bhol, P.E.
Manager, Construction Design Standards
Quality Assurance Division

ID: G-2496-00-001

CSL:CMB

Attachment

Reviewers: C.S. Lee, Coordination and Structural; S. Herman, Architectural; J. Patel, Electrical.



RIDER

ALTERATION APPLICATION G-2496

GENERAL

1. List on the plans all items subject to Special Inspections. See NYC Building Code Section BC 1704 and TCRM Section 18 – INSP1. If none required, state so on the drawing.

STRUCTURAL

2. Drawing 5 of 5, Detail S4, and Drawing S-001.00:
 - a) Verify that the connection between the Panels 3 and 4 is adequate to transfer the forces to the horizontal rails with one bolt.
 - b) Clarify whether the 1/4" diameter mounting bolt is connected to the vertical ribs or to the 0.090 aluminum face.
3. Drawing S-001.00, Section A1-A1: Verify with calculations that the existing roof truss is adequate to resist the lateral forces from the sign structure horizontal and diagonal braces. Also, since the horizontal and diagonal braces do not connect to the panel points of the truss, the adequacy of vertical members of truss to which the braces connect to shall be evaluated.

ELECTRICAL

4. Show disconnecting means, which shall be either within sight or capable of being locked in the disconnected position for the illuminated sign, See NEC, Section 600.6(A)(2).



ATTACHMENT

ALTERATION APPLICATION G-2496

Subject to compliance with the requirements listed in this memorandum's Rider, the following is a list of approved drawings:

Drawings

Dated

S-001.00	3/1/2012
S-002.00	3/1/2012
D-11247 1OF5	1/31/2012
D-11247 2OF5	1/31/2012
D-11247 3OF5	1/31/2012
D-11247 4OF5	1/31/2012
D-11247 5OF5	1/31/2012

THE PORT AUTHORITY OF NEW YORK & NEW JERSEY

MEMORANDUM

TO: Mike Moran
FROM: Connie DeLaigle 
DATE: March 19, 2012
SUBJECT: TENANT M/WBE PARTICIPATION PLAN - LGA
G-2496 DELTA AIRLINES
TERMINAL C EXTERIOR SIGN INSTALLATION

COPY TO: L. Johnson, R. Foreman, A. Martinez

Please be advised that the appropriate Port Authority departments have reviewed and *approved* the MBE/WBE Participation Plan for the above referenced project.

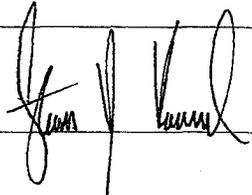
Prime Contractor:	VRH CONSTRUCTION CORP.
Estimated Construction \$ Value:	\$ 224,478
Estimated WBE Participation \$ Value:	\$ 36,000 OR 16.0%

Office of Business Diversity and Civil Rights

NOTE: The Contractor is required to submit to the tenant coordinator a MODIFIED PLAN for any changes to the original plan: i.e.; subcontractor, dollar amount or work performed. If more than 1 page is used, complete totals on last page.

TAA Number: G - 2496 Project Title: Terminal C - Exterior Sign Installation
 Tenant Name: Delta Air Lines, Inc. Location: Terminal C - LGA
 M/W Contact Person / Telephone Number: Steven J Haussel / 201-871-4422 Total Construction Amount: \$224,478
 Prime / General Contractor: VRH Construction Corp. Contract Goals: MBE 12% WBE 5%

Name, Address, Phone Number of PA Certified MBE/WBE subcontractor (including name of contact person)	Indicate MBE, WBE	Description of Work, Services to be provided. Where applicable, specify, "supply" or "install" or both "supply" and "install."	Anticipated date work will start and finish	*Approximate \$ amount of M/WBE Subcontract	MBE/WBE % of Total Contract Amount
Inter Metal Fabricators, Inc. 161 Dikeman Street Brooklyn NY 11231 Mr. Pat Degliuomini Telephone: 718-852-4000 <i>cell # (917) 642-6911</i>	WBE	Furnish and Install Steel	3-20-12 thru 3-23-12	\$36,000	16.04%
TOTAL:				36,000	16.04%

Signature of Contractor: 
 Print Name: Steven J Haussel
 Title: Project Executive Date: 03-14-12

FOR OBDCR / AAO USE ONLY
 Contract Goals: Approved Waived Rejected
 Reviewed by: _____
 Print Name: _____ Date: _____



THE PORT AUTHORITY OF NY & NJ

Kennedy · Newark Liberty · LaGuardia
Teterboro · Downtown Manhattan Heliport

MEMORANDUM

Aviation Department

To: Elizabeth Danquah
From: Zaheer Jaffery
Date: March 16, 2012

***Subject:* TAA, LGA Tenant Alteration Application Review**

Delta Terminal C, Replace Exist US Airways Signage with Delta's.

LGA, G-2496, Subm 1

Copy To: M. Lucksom, T. Miravite; H. Xu, M. Paquiz,, File

The Aviation Planning Division (APD) has reviewed the above subject documents and has no further comments to offer.

Original signed by

Zaheer Jaffery
Senior Airport Engineer
Aviation Planning Division



MEMORANDUM

Engineering Department

To: Michael Moran, Manager, Plant, Structures, and Redevelopment, LaGuardia Airport
From: Saroj Bhol
Date: March 14, 2012
Subject: LGA – ALTERATION APPLICATION G-2496 – DELTA AIRLINES –
TERMINAL C – NEW DELTA SIGNAGE ON EAST END OF DEPARTURES
LEVEL
Reference: Review Request Dated: 3/07/12
Copy To: T. Amoia, M. Arias, A. Fadavi, E. Gould, C. J. Lin, M. Paquiz, V. Passarelli, N.
Russo, D. Warren; Job Folder

The documents, submitted with the referenced request, have been reviewed and **conditionally approved** for construction subject to compliance with the **four (4) comments** on the attached Rider.

Construction may proceed. However, the documents shall be revised and resubmitted, as per the comments. All comments must be resolved and documents approved prior to the completion of construction.

REMARKS: 1) See the attachment for a list of approved drawings.
2) Copy Line distribution was via "Outlook" only.

Saroj Bhol, P.E.
Manager, Construction Design Standards
Quality Assurance Division

ID: G-2496-00-001

CSL:CMB

Attachment

Reviewers: C.S. Lee, Coordination and Structural; S. Herman, Architectural; J. Patel, Electrical.



RIDER

ALTERATION APPLICATION G-2496

GENERAL

1. List on the plans all items subject to Special Inspections. See NYC Building Code Section BC 1704 and TCRM Section 18 – INSP1. If none required, state so on the drawing.

STRUCTURAL

2. Drawing 5 of 5, Detail S4, and Drawing S-001.00:
 - a) Verify that the connection between the Panels 3 and 4 is adequate to transfer the forces to the horizontal rails with one bolt.
 - b) Clarify whether the 1/4" diameter mounting bolt is connected to the vertical ribs or to the 0.090 aluminum face.
3. Drawing S-001.00, Section A1-A1: Verify with calculations that the existing roof truss is adequate to resist the lateral forces from the sign structure horizontal and diagonal braces. Also, since the horizontal and diagonal braces do not connect to the panel points of the truss, the adequacy of vertical members of truss to which the braces connect to shall be evaluated.

ELECTRICAL

4. Show disconnecting means, which shall be either within sight or capable of being locked in the disconnected position for the illuminated sign, See NEC, Section 600.6(A)(2).



ATTACHMENT

ALTERATION APPLICATION G-2496

Subject to compliance with the requirements listed in this memorandum's Rider, the following is a list of approved drawings:

Drawings

Dated

S-001.00	3/1/2012
S-002.00	3/1/2012
D-11247 1OF5	1/31/2012
D-11247 2OF5	1/31/2012
D-11247 3OF5	1/31/2012
D-11247 4OF5	1/31/2012
D-11247 5OF5	1/31/2012

Paquiz, Mark

From: Stolt, Donald W [Donald.W.Stolt@delta.com]
Sent: Wednesday, February 29, 2012 5:02 PM
To: Paquiz, Mark
Cc: Gould, Ed
Subject: Terminal C East End Exterior Delta Sign Installation
Attachments: IMG-20120229-00012.jpg

Mark,

As you can see in the attached photo, the existing shuttle sign is lower than Terminal C Building roof.

VRH/Going plans to use a truck mounted rig that will be lower than the building. VRH will follow-up with documentation for Delta and PANYNJ review. I do not believe a FAA 7460 will apply to this specific installation means and methods.

Don Stolt
Program Director
Delta Air Lines LGA Redevelopment
Office (718) 565-3886
Mobile (202) 322-7255
Donald.W.Stolt@delta.com

SIGN SERVICE REQUEST

THIS FORM (PA1821A) IS FOR USE BY TRAFFIC ENGINEERING STAFF ONLY
 (FACILITY AND LINE DEPARTMENT STAFF SHOULD USE FORM PA1821 TO REQUEST SIGNS, ETC.)

FACILITY LGA	DATE RECEIVED 1/20/2012	DATE RECEIVED 1/23/2012	DATE REQUIRED 3/23/2012	PR. APPROV. B	DATE APPROVED 1/23/12
TRAFFIC ENGINEER Francis Luis	TITLE Traffic Engineer		DATE LINE SENT 01-7837	CONTACT TELEPHONE (973) 665-7837	
FACILITY SUPERVISOR RESPONSIBLE Gould, Ed	TITLE Mgr Arpt Fac Progs		DATE LINE SENT 11-3737	CONTACT TELEPHONE (718) 535-3737	
			DATE OF TARGET DATE APPROVAL 02/16/12		

Pursuant to the authority vested in me by the Executive Director by memorandum dated, June 23, 1983, I hereby authorize the installation, removal of the Sign(s) as described below

Date 1/23/12 
 Chief Traffic Engineer

Describe Sign(s) or other Traffic Control Device(s) required, color, design or other, including all dimensions. If necessary, attach additional sheets.

11-110M: FACILITY WIDE / DELTA SHUTTLE TRAILBLAZERS 

Instructions

LOCATION:

FACILITY WIDE (Sheet 2)

FABRICATE:

1 UNIT 42"X48" SIGN 1 (SHEET 3)
 7 UNITS 36"X30" PANEL A (SHEET 4)

REMOVE:

1 UNIT EXISTING WHITE ON BLUE DELTA SHUTTLE TRAILBLAZER (SHEET 4)
 7 UNITS EXISTING 36"X30" YELLOW PANELS (SHEETS 5 THRU 7 AND 9 THRU 12)

INSTALL:

1 UNIT SIGN 1
 7 UNITS PANEL A

NOTES:

FABRICATE WITH DG3 SHEETING
 SEE SHEETS 8 THRU 12 FOR INSTALLATION LOCATIONS.

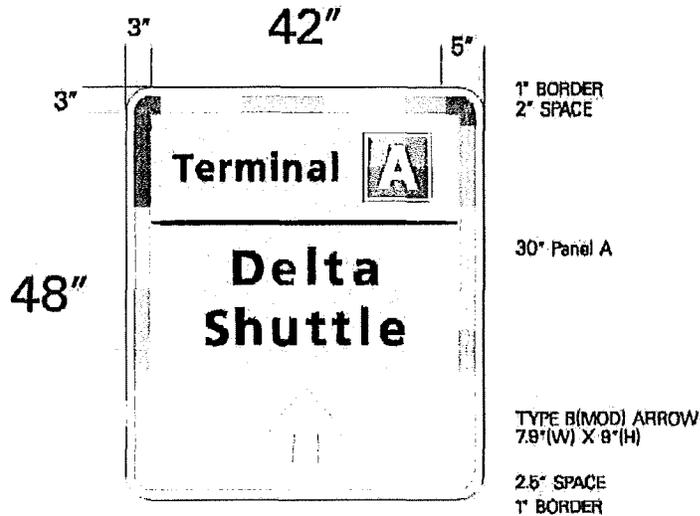
TOTALS

60 SF SIGN REMOVAL (8 SIGNS)
 86.5 SF SIGN INSTALLATION (8 SIGNS)

Tracking Number: 8334

DATE RECEIVED	DATE COMPLETED	CREW LEADER	PRO	UNIT	ACT	JOB NUMBER
<u>1/23/12</u>	<u>1/23/12</u>					

(SECURITY DRAWINGS – EXEMPTION 4)



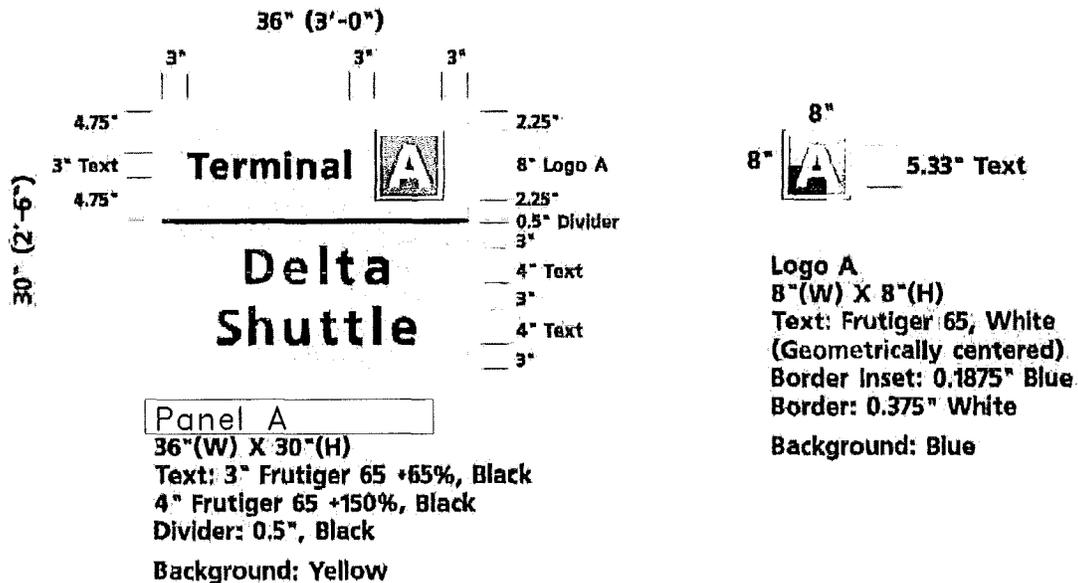
SIGN 1 - 1 REQUIRED

BACKGROUND: GREEN

BORDER: 1" WHITE

3" CORNER RADII

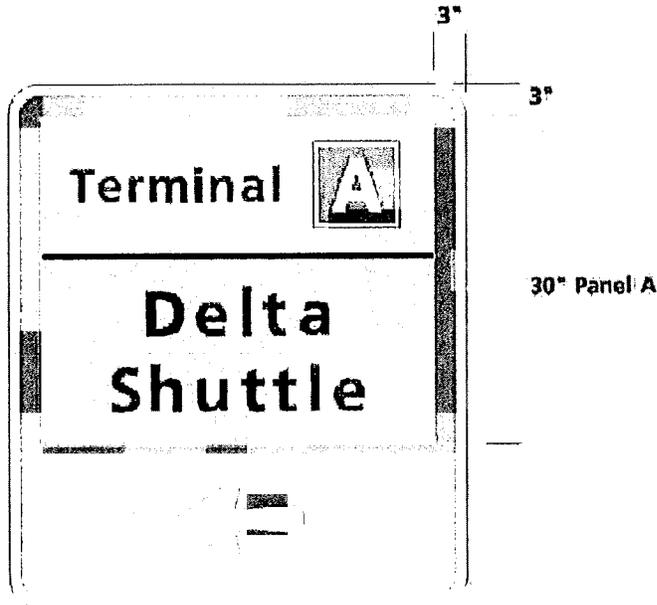
ARROW: WHITE, TYPE B (MOD)



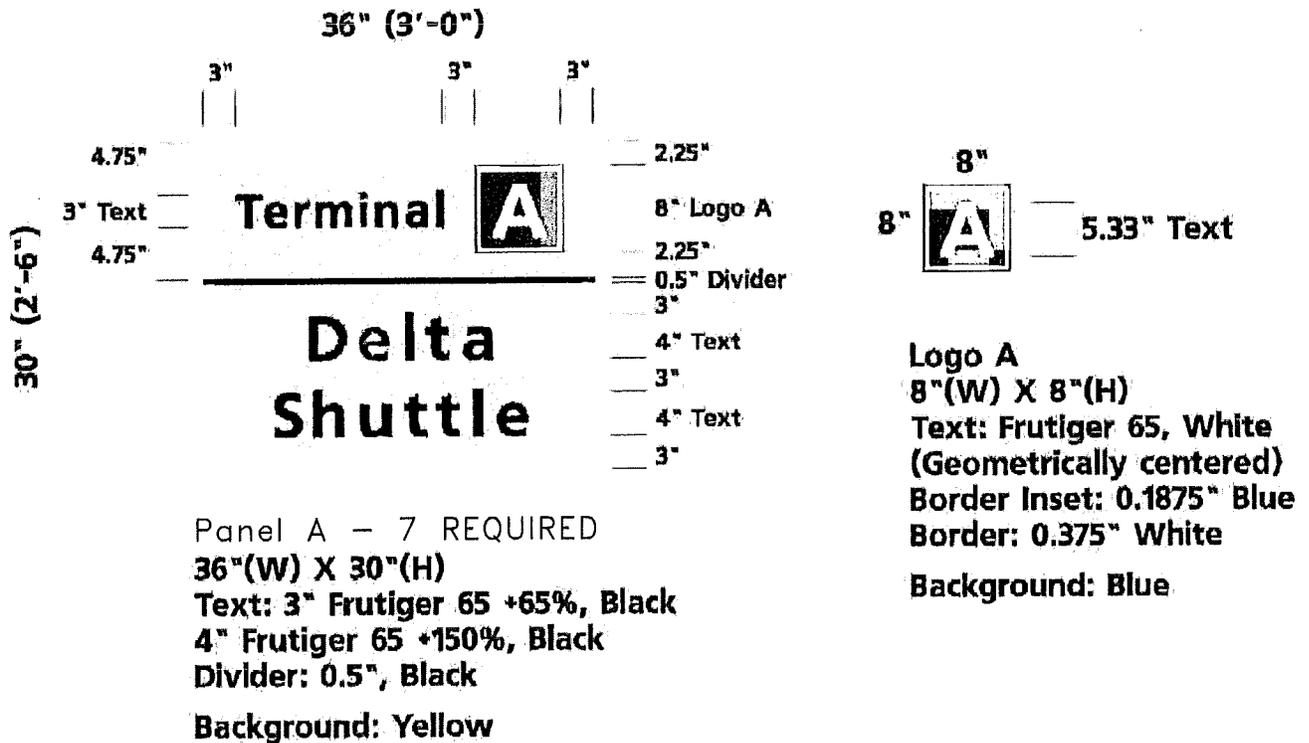
Panel A
 36"(W) X 30"(H)
 Text: 3" Frutiger 65 +65%, Black
 4" Frutiger 65 +150%, Black
 Divider: 0.5", Black
 Background: Yellow

Logo A
 8"(W) X 8"(H)
 Text: Frutiger 65, White
 (Geometrically centered)
 Border Inset: 0.1875" Blue
 Border: 0.375" White
 Background: Blue

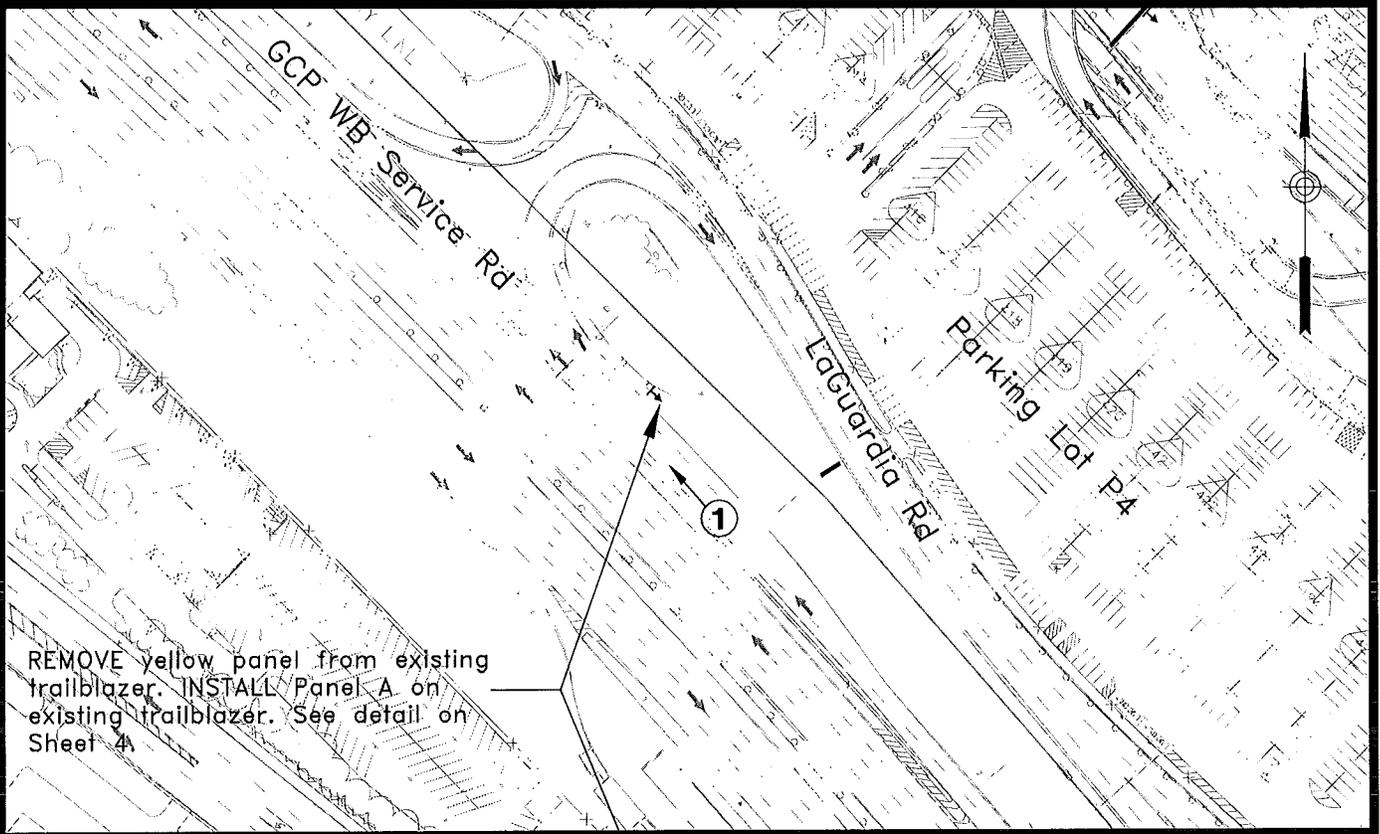
DETAIL



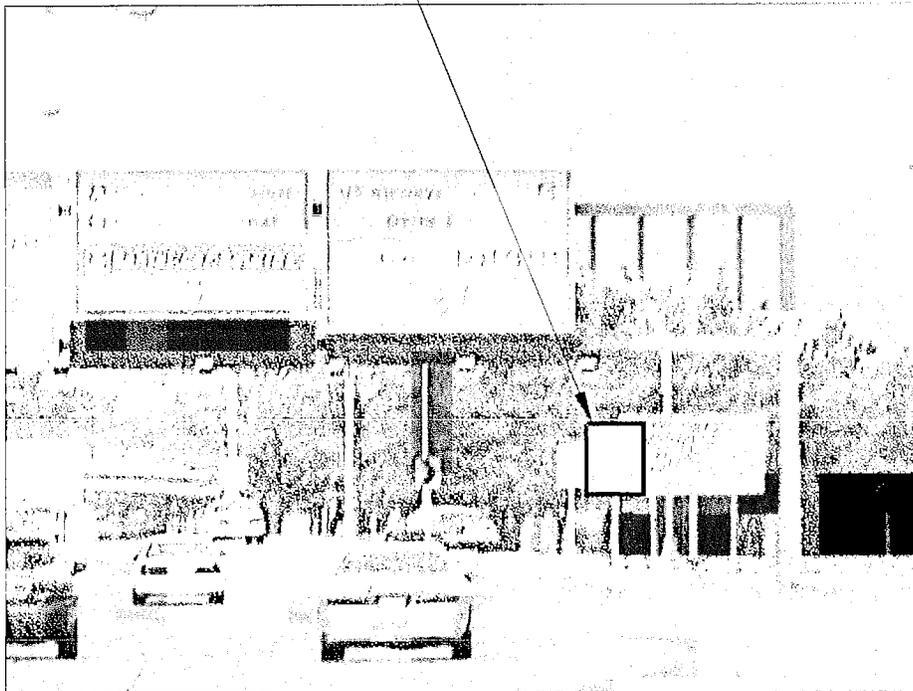
Existing Trailblazer



DETAIL

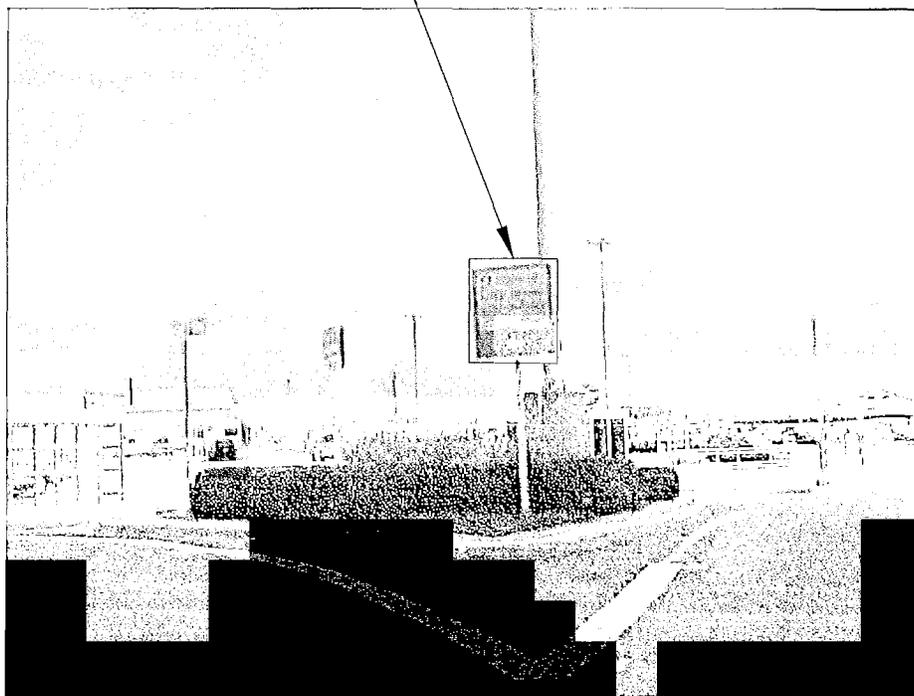
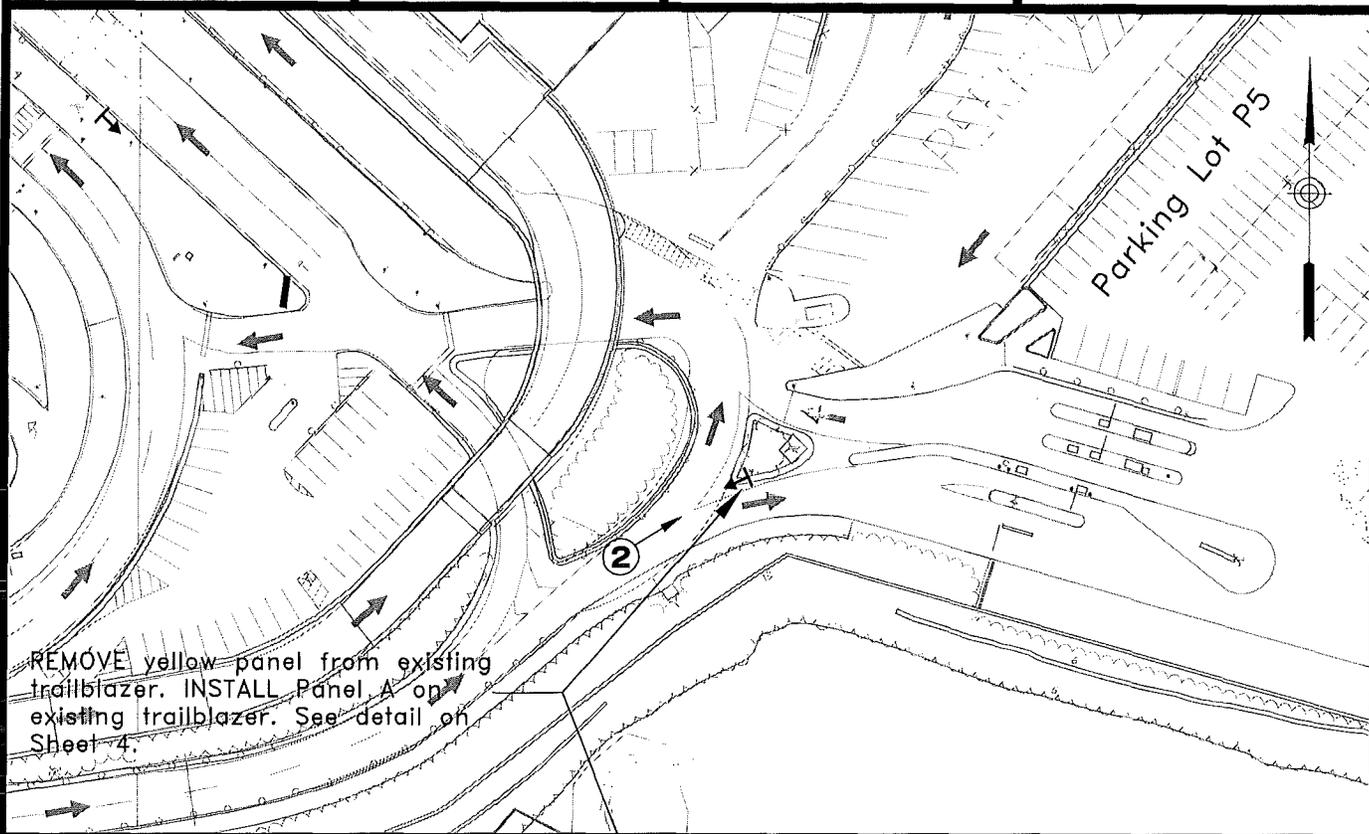


REMOVE yellow panel from existing trailblazer. INSTALL Panel A on existing trailblazer. See detail on Sheet 4.



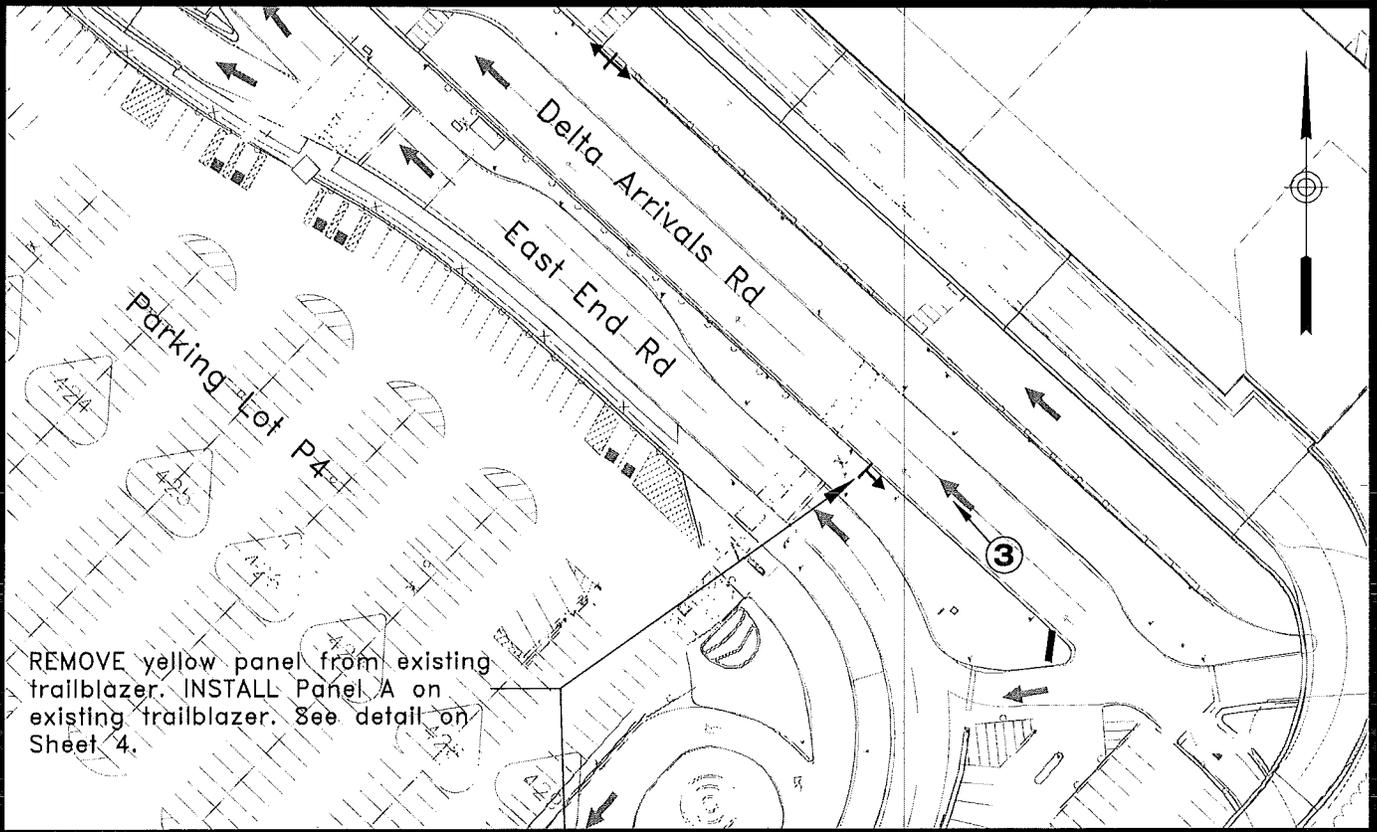
INSTALL PANEL 'A' ON EXISTING SIGN
GCP WESTBOUND SERVICE RD

Location 1

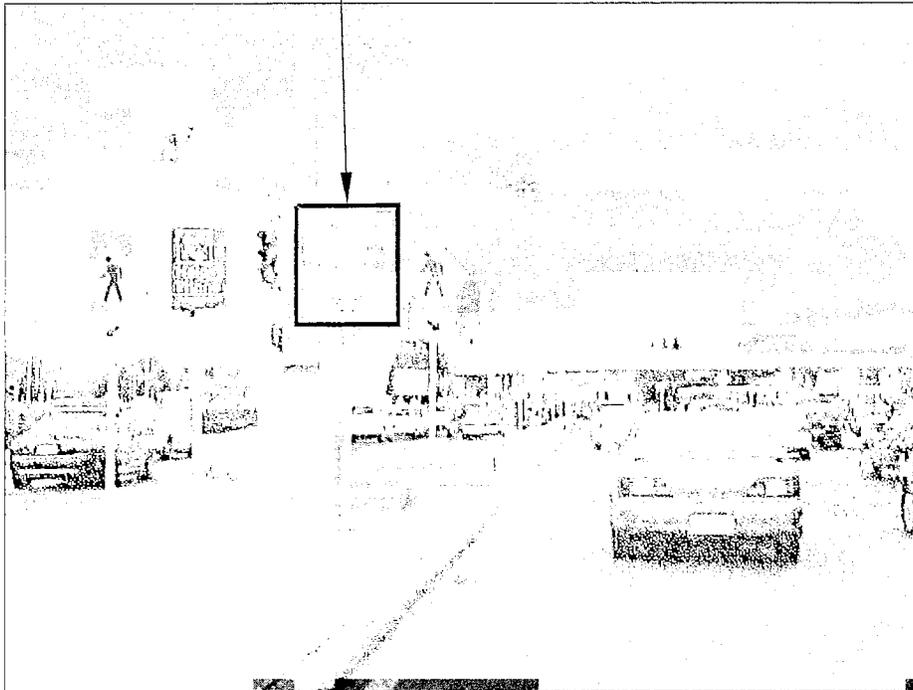


INSTALL PANEL 'A' ON EXISTING TRAILBLAZER
LAGUARDIA RD APPROACHING LOT P5

Location 2

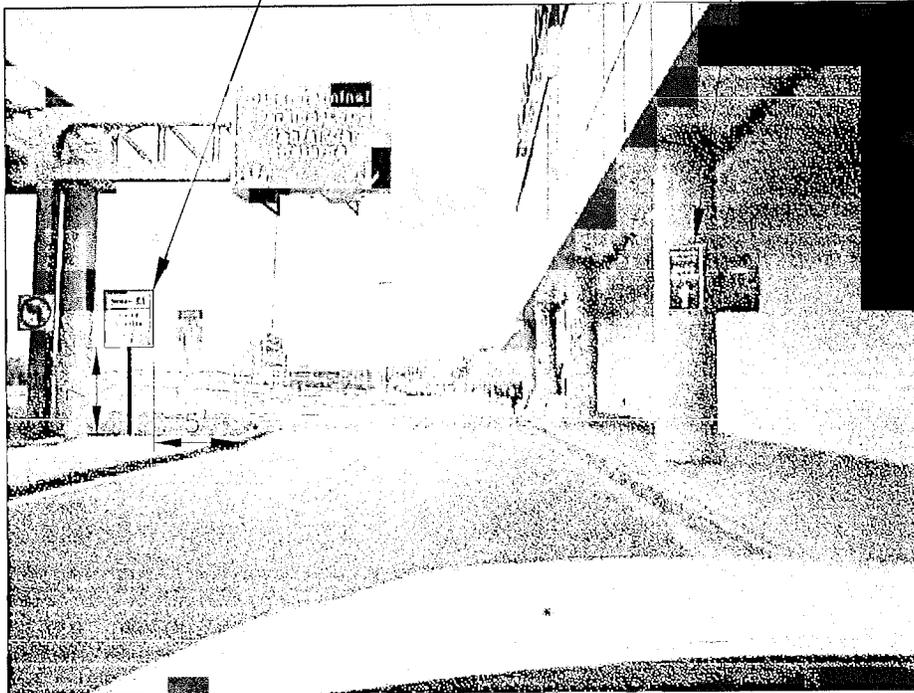
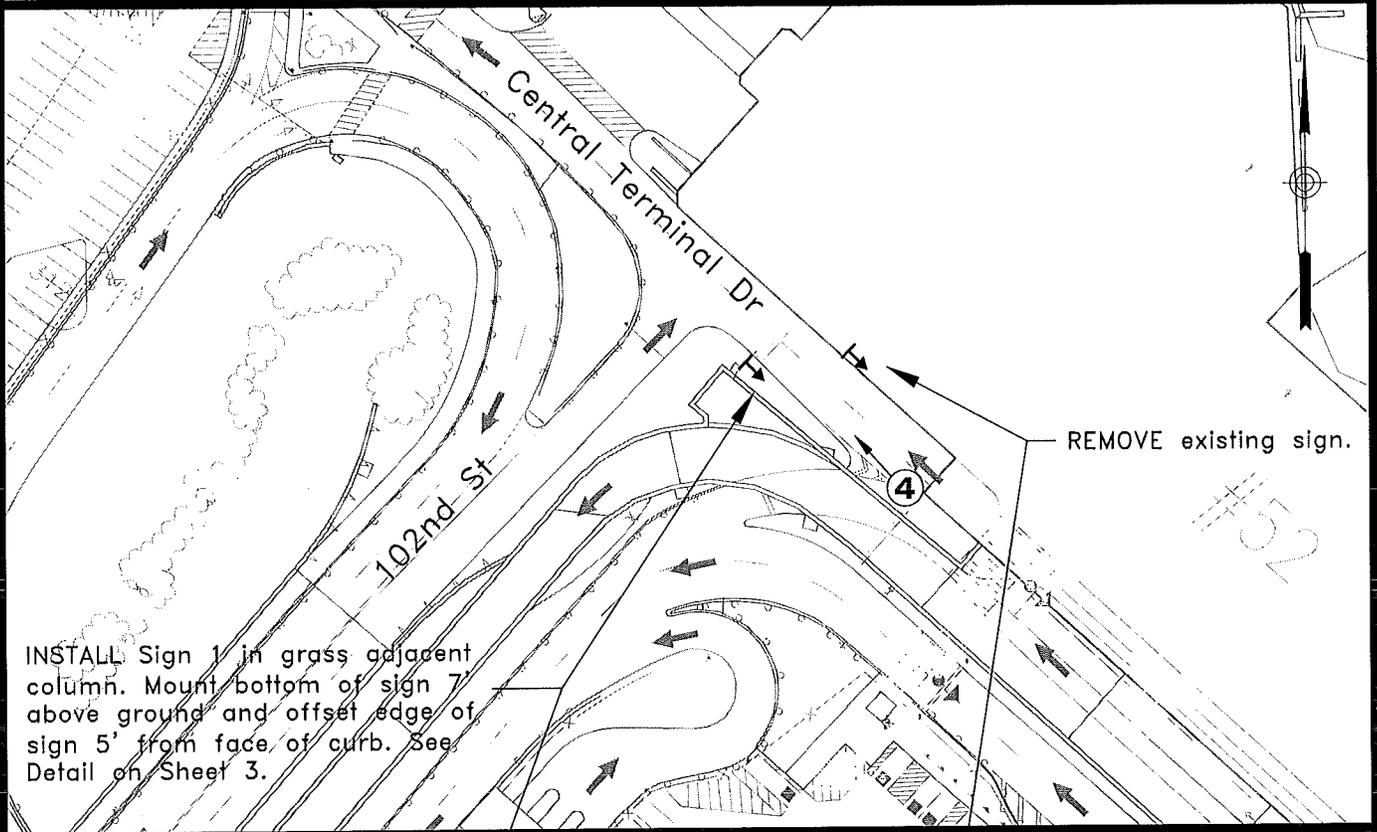


REMOVE yellow panel from existing trailblazer. INSTALL Panel A on existing trailblazer. See detail on Sheet 4.



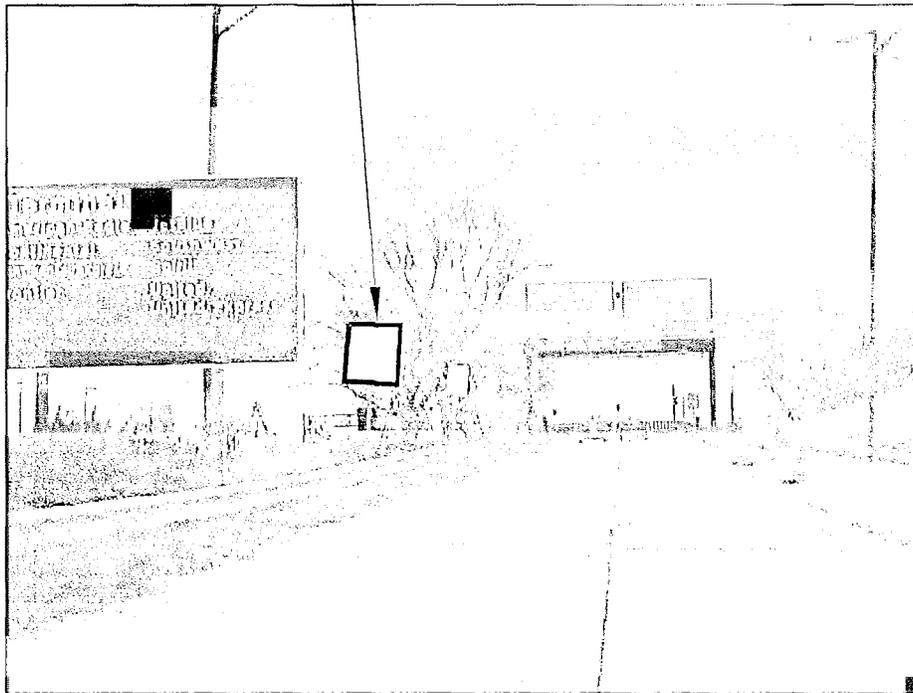
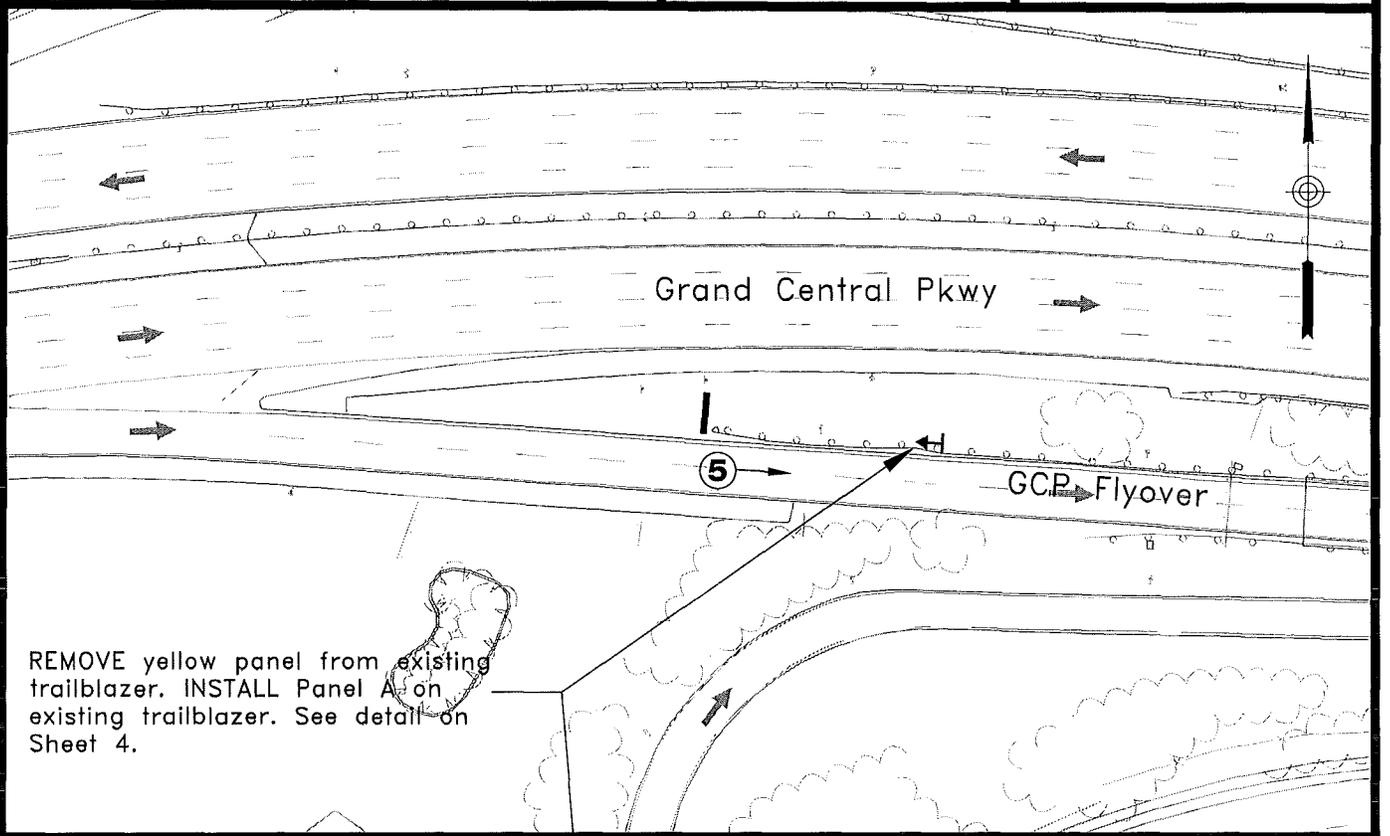
INSTALL PANEL 'A'
DELTA ARRIVALS RD

Location 3



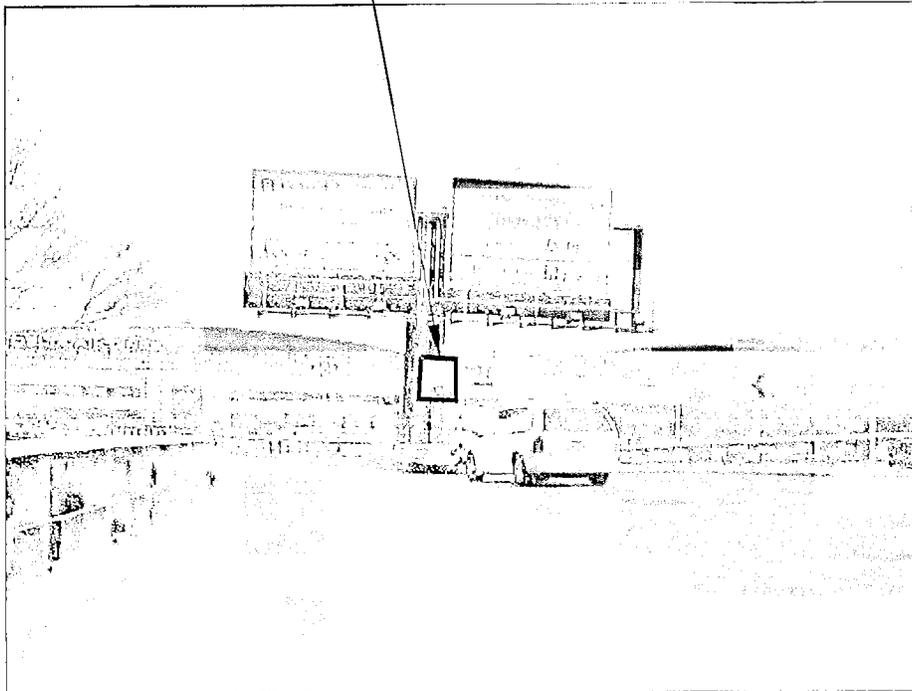
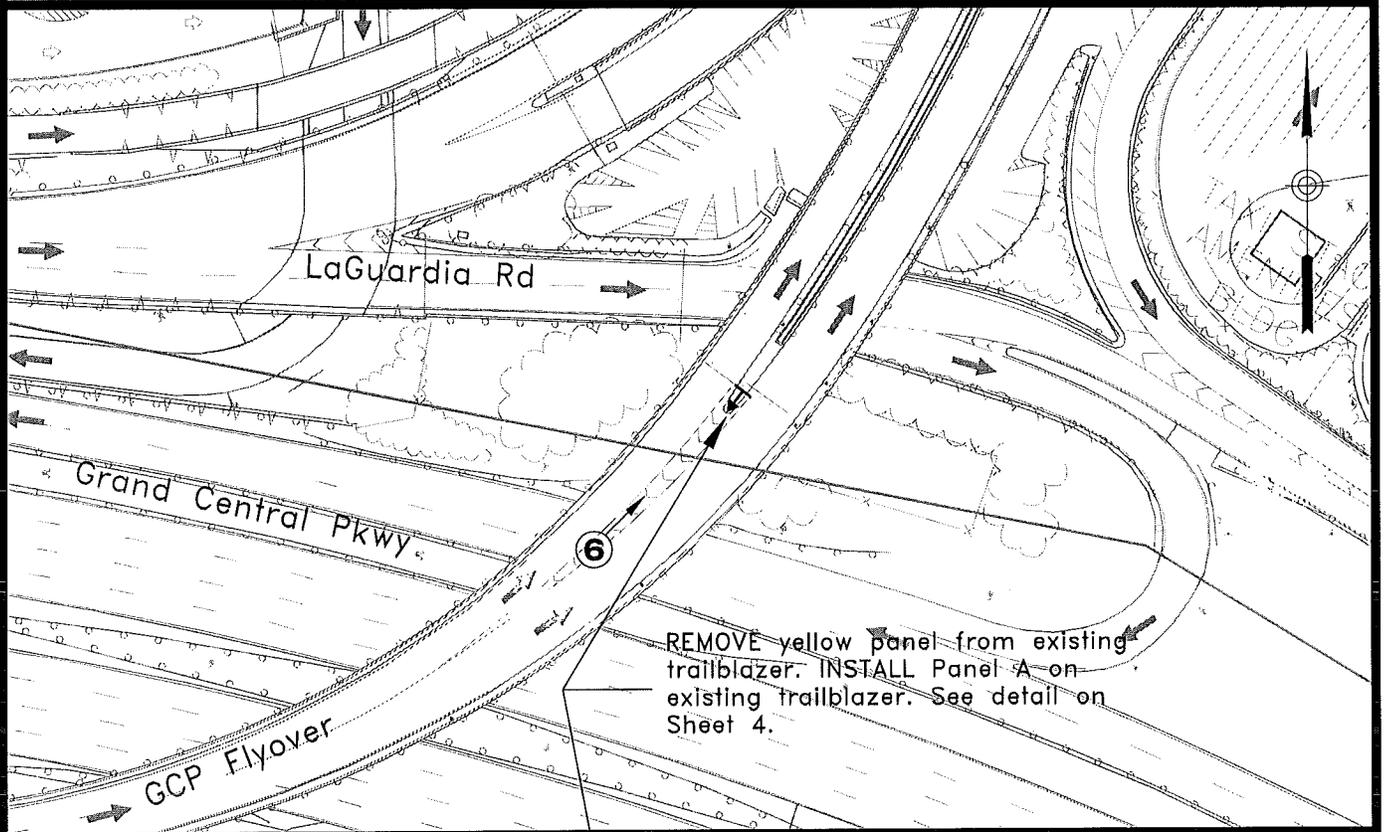
REMOVE EXISTING SIGN AND INSTALL SIGN 1
CENTRAL TERMINAL DRIVE

Location 4



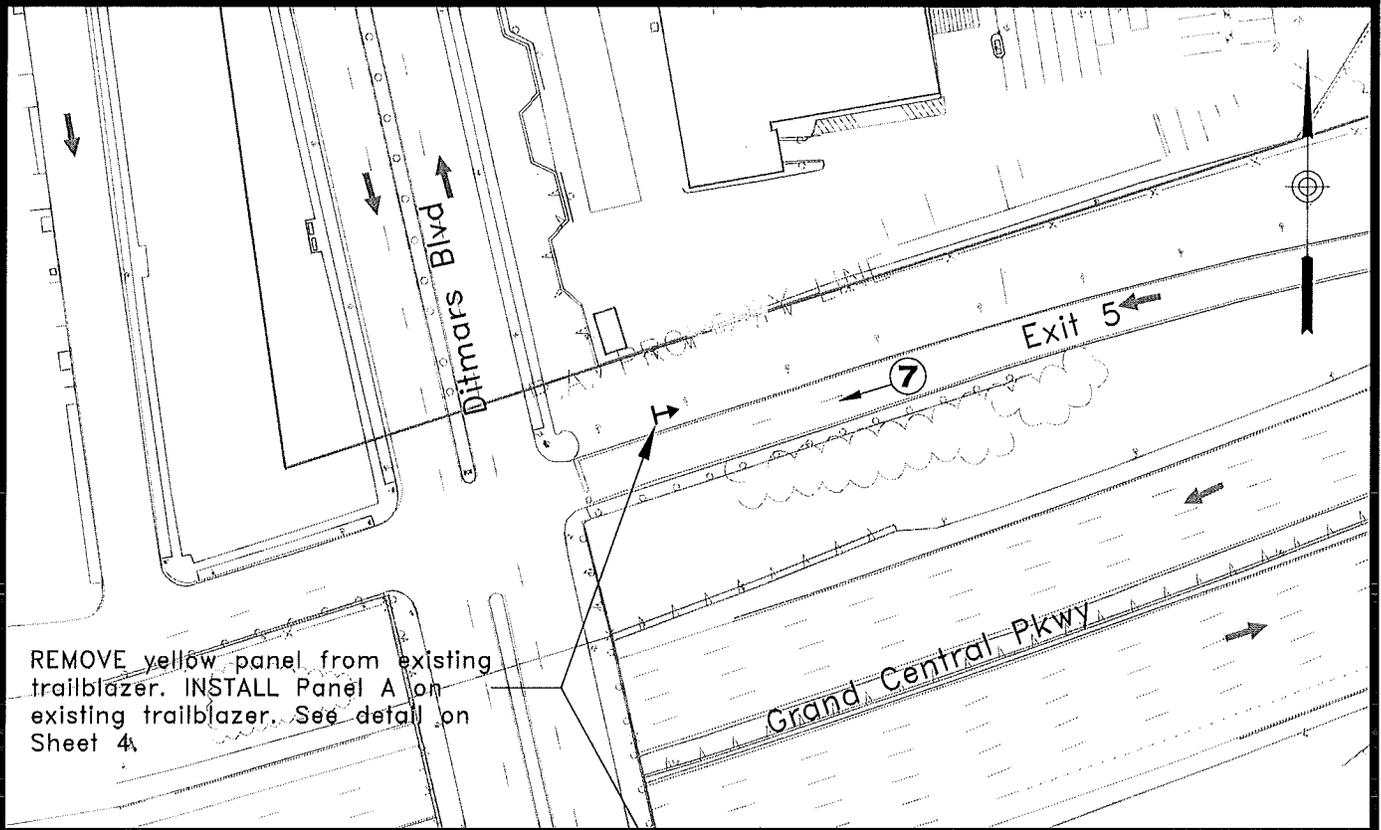
INSTALL PANEL A
GCP FLYOVER

Location 5



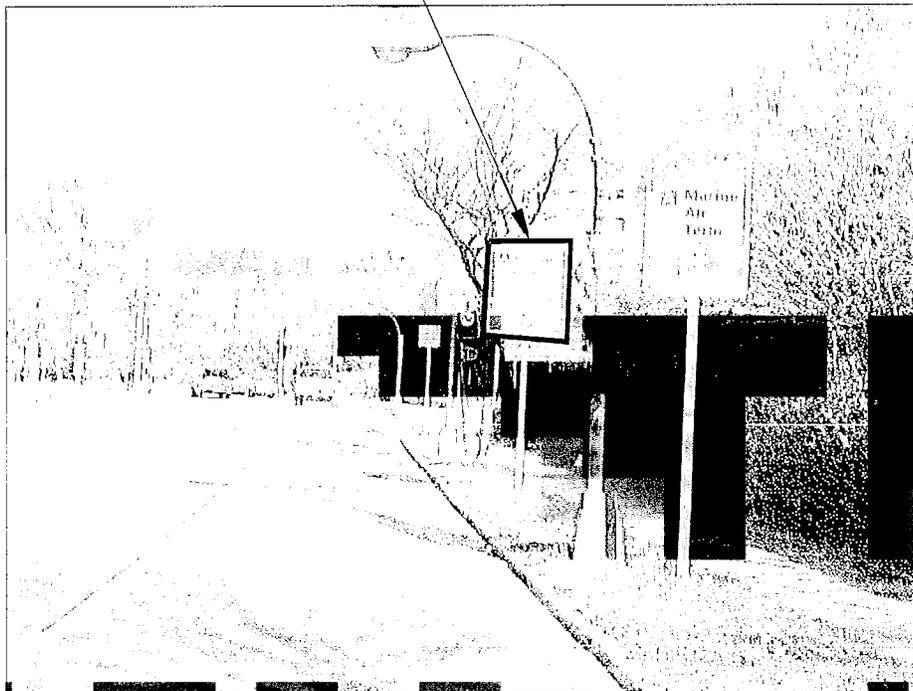
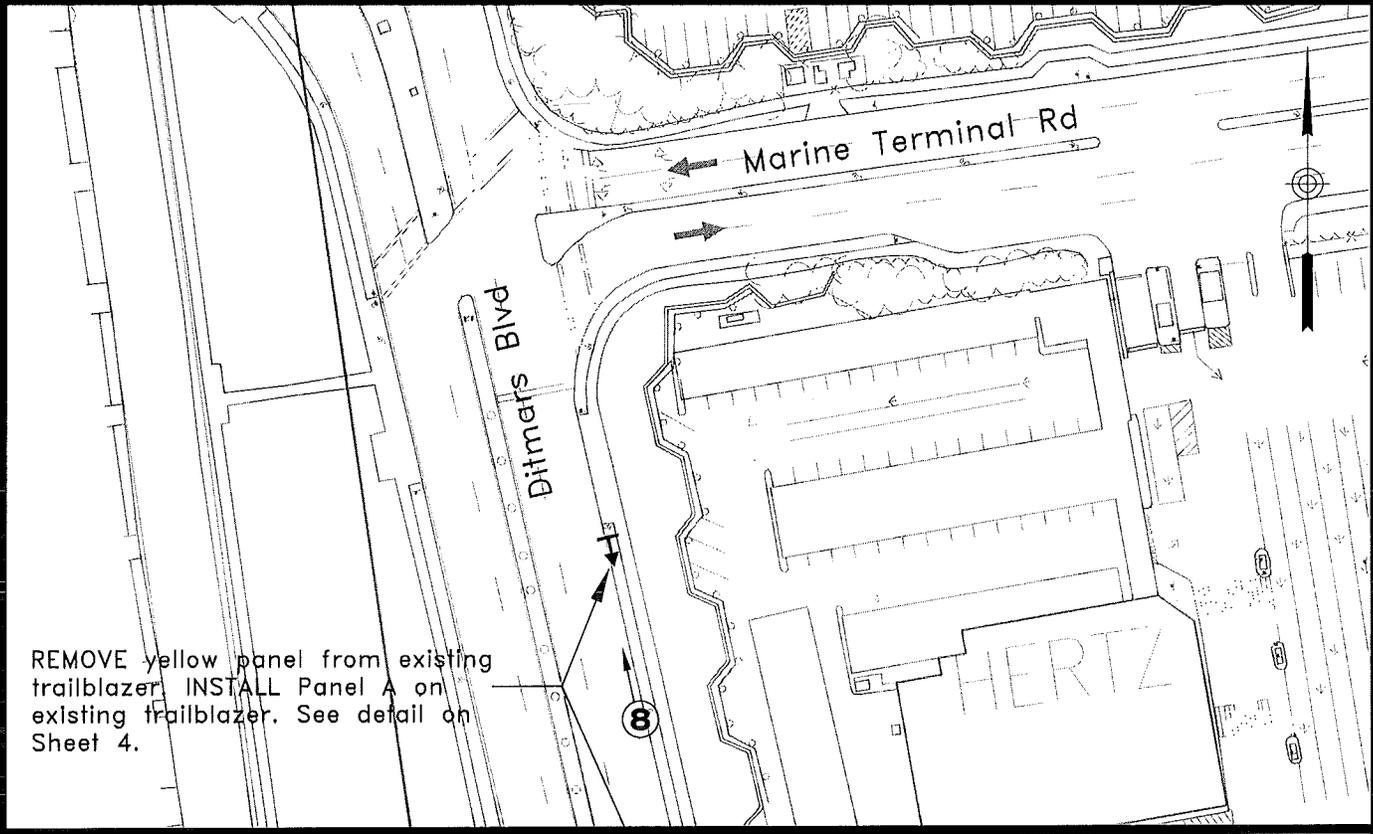
INSTALL PANEL A
GCP FLYOVER

Location 6



INSTALL PANEL A
GCP WB RAMP EXIT 5

Location 7



INSTALL PANEL A
DITMARS BLVD

Location 8

SIGN SERVICE REQUEST

**THIS FORM (PA1821A) IS FOR USE BY TRAFFIC ENGINEERING STAFF ONLY
(FACILITY AND LINE DEPARTMENT STAFF SHOULD USE FORM PA1821 TO REQUEST SIGNS, ETC.)**

SSR NUMBER
2012-2

FACILITY LGA	DATE ORIGINATED 1/20/2012	DATE REC'D BY T.E. 1/23/2012	DATE REQUIRED 3/16/2012	PR.A,B or C B	PRTY.& INIT. (FOR "C" ONLY)
TRAFFIC ENGINEER Franco, Luis	TITLE Traffic Engineer		PA TIE LINE & EXT. _04-7837	OUTSIDE TEL. NO. (973) 565-7837	
FACILITY REQUESTOR (IF APPLICABLE) Gould, Ed	TITLE Mgr Arpt Fac Projs		PA TIE LINE & EXT. _15-3737	OUTSIDE TEL. NO. (718) 533-3737	
			SPECIAL CHARGE CODE (IF APPLICABLE) A02 916 082		

Pursuant to the authority vested in me by the Executive Director by memorandum dated, June 23, 1963, I hereby authorize the installation, removal of the Sign(s) as described below.

Date: ____/____/____

Original Signed by Armando Lepore on 1/26/2012

Chief Traffic Engineer

Describe Sign(s) or other Traffic Control Device(s) required. (Show location in sketch, including all pertinent details. If necessary, attach additional sheets.)

11-110B: East End Rd / Modification of Existing Terminal C and D Guidesigns

Instructions

LOCATION:

East End Rd (Sheet 2)

FABRICATE:

- 208"X48" PANEL 910B1 (SHEET 4)
- 208"X28" PANEL 910B2 (SHEET 4)
- 96"X96" SIGN 914A (SHEET 5)
- 96"X66" SIGN 914B (SHEET 6)
- 216"X144" SIGN 900A (SHEET 7)
- 216"X144" SIGN 900B (SHEET 8)
- 90"X60" SIGN 900C (SHEET 9)
- 208"X57" PANEL 909B1 (SHEET 10)
- 208"X55" PANEL 911A1 (SHEET 11)
- 208"X27" PANEL 911A2 (SHEET 11)

REMOVE:

- 96"X72" EXISTING SIGN 914A (SHEET 13)
- 96"X108" EXISTING SIGN 914B (SHEET 13)
- 132"X17" GRAY OVERLAY FOR EXISTING SIGN 900A (SHEET 14)
- 132"X17" GRAY OVERLAY FOR EXISTING SIGN 900B (SHEET 14)
- 114"X84" EXISTING SIGN 900C (SHEET 15)

INSTALL:

- PANEL 910B1 (SHEET 4)
- PANEL 910B2 (SHEET 4)
- SIGN 914A (SHEET 5)
- SIGN 914B (SHEET 6)
- SIGN 900A (SHEET 7)
- SIGN 900B (SHEET 8)
- SIGN 900C (SHEET 9)
- PANEL 909B1 (SHEET 10)
- PANEL 911A1 (SHEET 11)
- PANEL 911A2 (SHEET 11)

NOTES:

FABRICATE WITH DG3 SHEETING.
SEE SHEET 3 FOR LOGO DIMENSIONS

TOTALS:

218 SF SIGN REMOVAL (5 SIGNS)
887 SF SIGN INSTALLATION (10 SIGNS)

Tracking Number: 8306

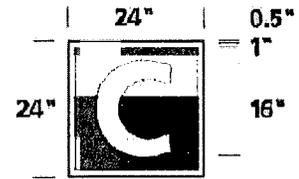
DATE RECEIVED	DATE COMPLETED	CREW LEADER	PRO	UNIT	ACT	JOB NUMBER
____/____/____	____/____/____		____	____		

(SECURITY DRAWINGS – EXEMPTION 4)

LOGO DETAILS



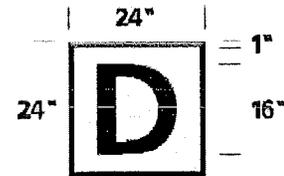
12" X 12" LOGO A
 TEXT: WHITE, FRUTIGER 65
 (GEOMETRICALLY CENTERED)
 BACKGROUND: BLUE
 BORDER: 0.5" WHITE
 BORDER INSET: 0.25"



24" X 24" LOGO C
 TEXT: WHITE, FRUTIGER 65
 (GEOMETRICALLY CENTERED)
 BACKGROUND: RED
 BORDER: 1" WHITE
 BORDER INSET: 0.5"



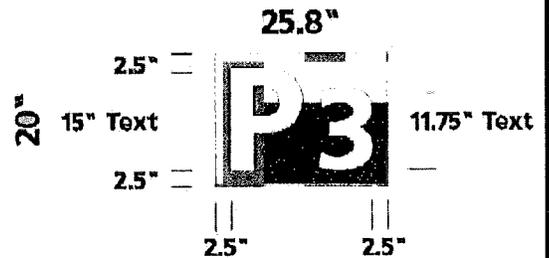
12" X 12" LOGO B
 TEXT: WHITE, FRUTIGER 65
 (GEOMETRICALLY CENTERED)
 BACKGROUND: GREEN
 BORDER: 0.5" WHITE
 BORDER INSET: 0.25"



24" X 24" LOGO D
 TEXT: BLACK, FRUTIGER 65
 (GEOMETRICALLY CENTERED)
 BACKGROUND: ORANGE
 BORDER: 1" BLACK



12" X 12" LOGO C
 TEXT: WHITE, FRUTIGER 65
 (GEOMETRICALLY CENTERED)
 BACKGROUND: BLUE
 BORDER: 0.5" WHITE
 BORDER INSET: 0.25"

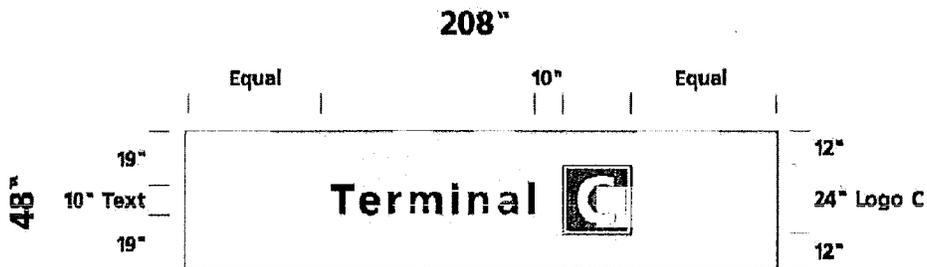
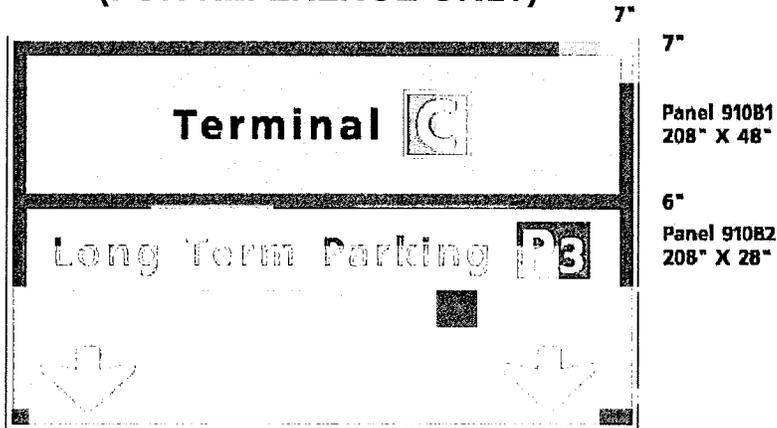


25.8(W) X 20"(H) LOGO P3
 TEXT: WHITE, FRUTIGER 65
 BACKGROUND: GREEN

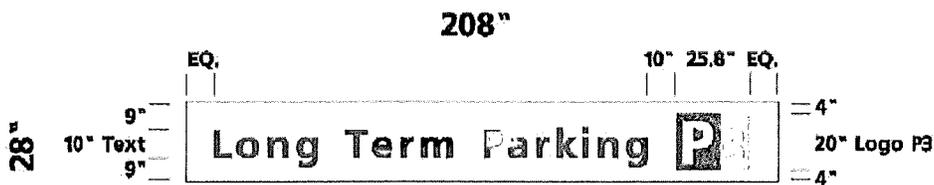


12" X 12" LOGO D
 TEXT: BLACK, FRUTIGER 65
 (GEOMETRICALLY CENTERED)
 BACKGROUND: ORANGE
 BORDER: 0.54" WHITE

910B
(FOR REFERENCE ONLY)

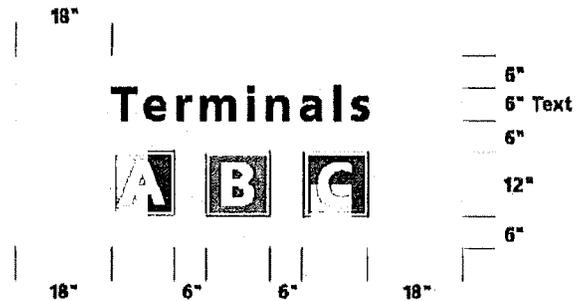
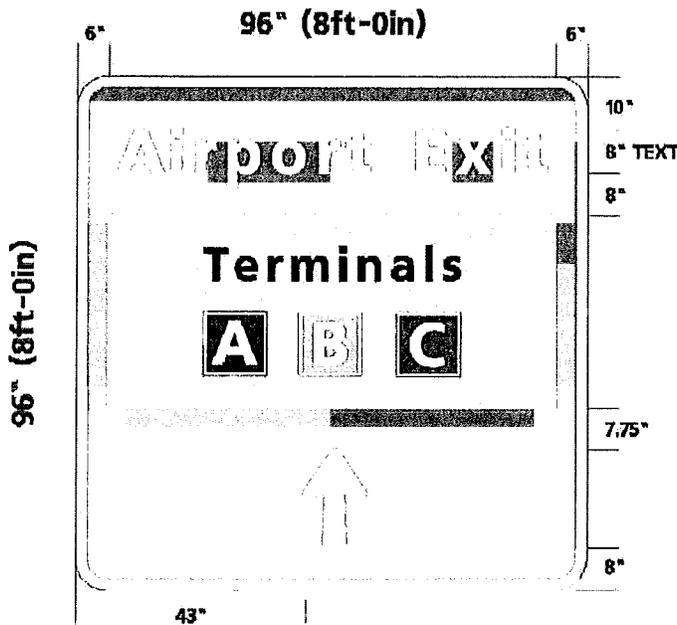


FABRICATE: Panel 910B1
208"(W) X 48" (H)
Text: Black, Frutiger 65 (+150%)
Background: Yellow



FABRICATE: Panel 910B2
208"(W) X 28" (H)
Text: Green, Frutiger 65 (+150%)
Background: White

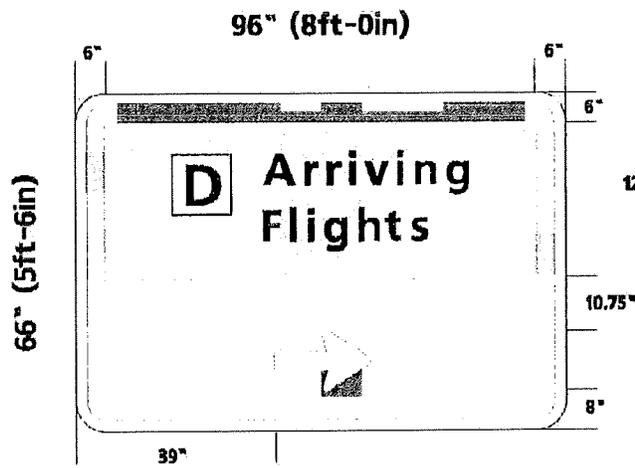
DETAIL



84" x 36" PANEL
Colors: Black / Yellow
Text: 6" Frutiger 65 @ 150%
Terminal Logos: 12" x 12"
A: White / Blue
B: White / Green
C: White / Red

914A - 1 REQUIRED
Colors: White / Green
Text: Frutiger 65 @ 150%
Arrow: Interstate Type A 11.25" x 18.25"
Border: 2" White
Corner Radius: 6"

DETAIL



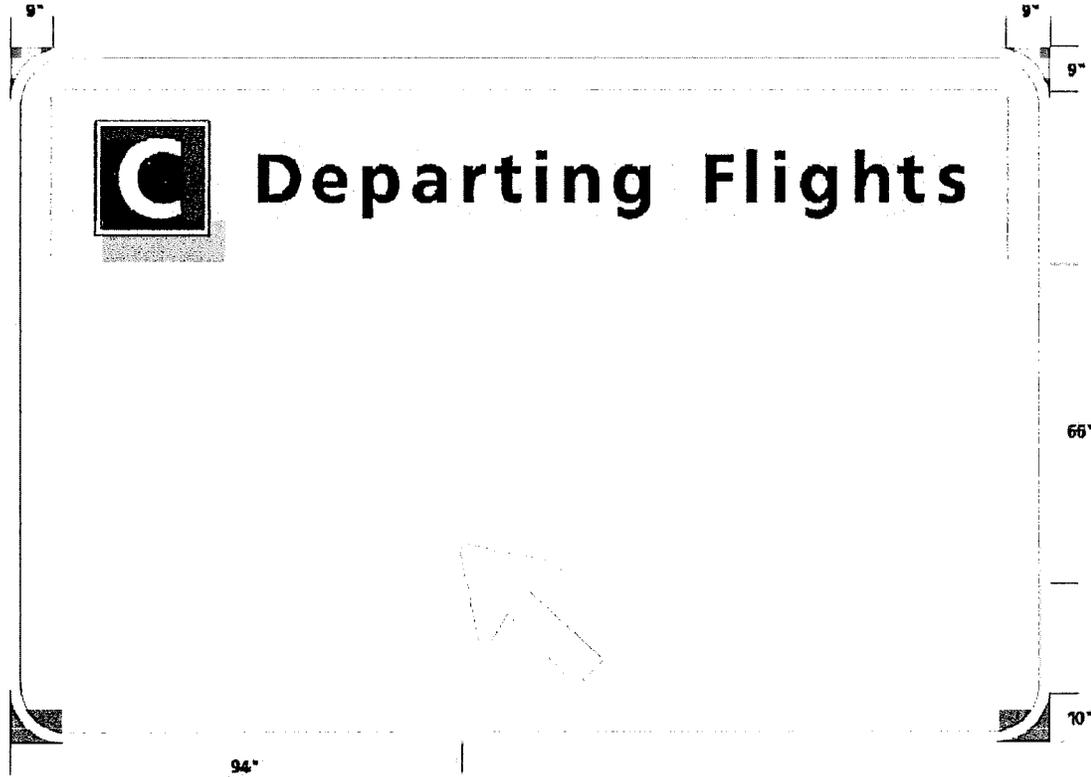
84" x 30" PANEL
Colors: Black / Yellow
Terminal D Logo: 12" x 12"
Black / Orange
Text: 6" Frutiger 65 @ 150%

914B - 1 REQUIRED
Colors: White / Green
Arrow: Interstate Type A 11.25" x 18.25"
Border: 1.5" White
Corner Radius: 6"

DETAIL

216" (18ft-0in)

144" (12ft-0in)



900A - 1 REQUIRED

Colors: White / Green

Arrow: Interstate Type A 22.25" x 36.625", Rotated 45 deg

Border: 2" White

Square corners with Radius: 12"



198" x 36" PANEL

Colors: Black / Yellow

Terminal C Logo: 24" x 24"

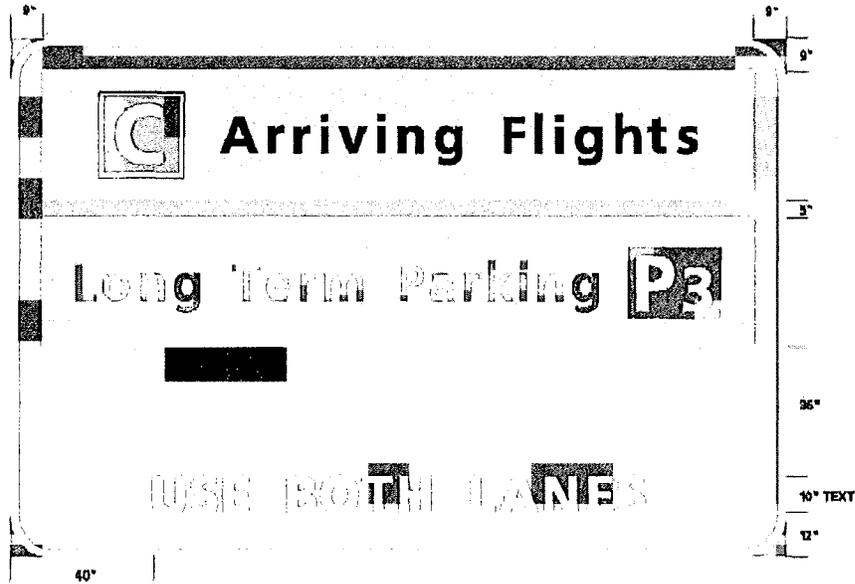
White / Red

Text: 10" Frutiger 65 @ 150%

DETAIL

216" (18ft-0in)

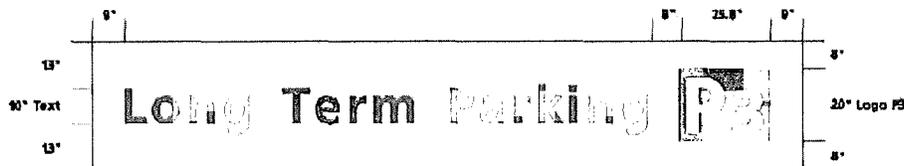
144" (12ft-0in)



900B - 1 REQUIRED
Colors: White / Green
Text: Frutiger 65 @ 150%
Border: 2" White
Square corners with Radius: 12"

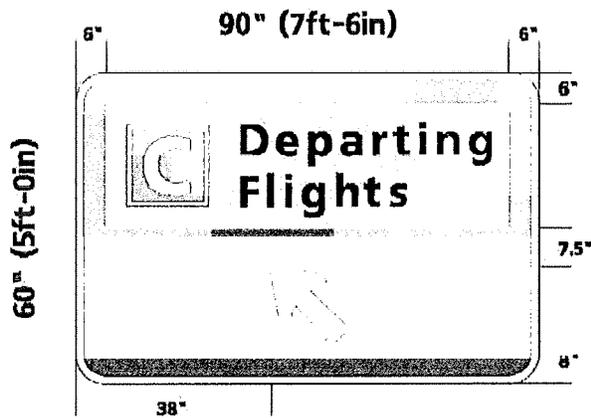


198" x 36" PANEL
Colors: Black / Yellow
Terminal C Logo: 24" x 24"
White / Red
Text: 10" Frutiger 65 @ 150%



198" x 36" PANEL
Colors: Green / White
Parking Logo: 24" x 24"
White / Green
Text: 10" Frutiger 65 @ 150%

DETAIL



78" x 24" PANEL
Colors: Black / Yellow
Terminal C Logo: 16" x 16"
White / Red
Text: 6" Frutiger 65 @ 150%

900C - 1 REQUIRED
Colors: White / Green
Arrow: Interstate Type A 11.25" x 18.25"
Rotated 45 deg
Border: 1.5" White
Corner Radius: 6"

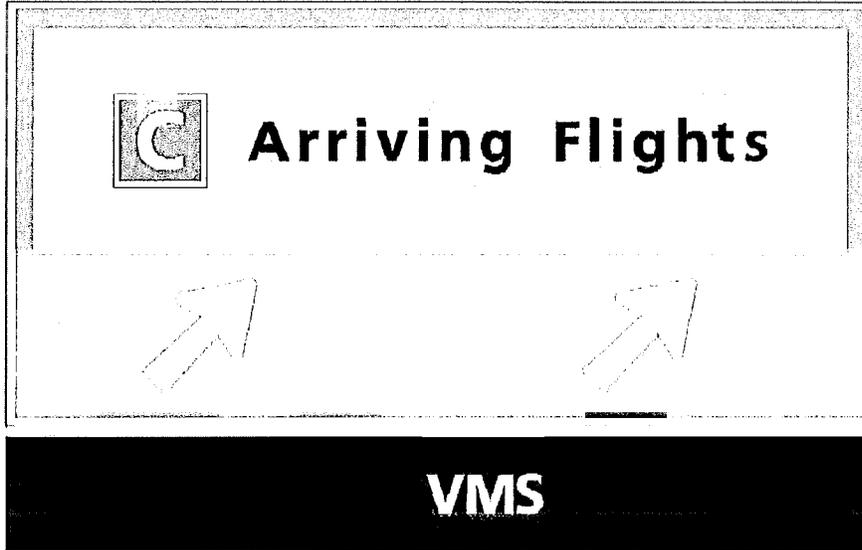
DETAIL

909B

(FOR REFERENCE ONLY)

7"

7"



7"

Panel 909B1
208" X 57"

208"

EQ.

10"

EQ.

57"

16.5"
24"
Logo C
16.5"



Arriving Flights

23.5"
10" Text
23.5"

FABRICATE

Panel 909B1

208"(W) X 57" (H)

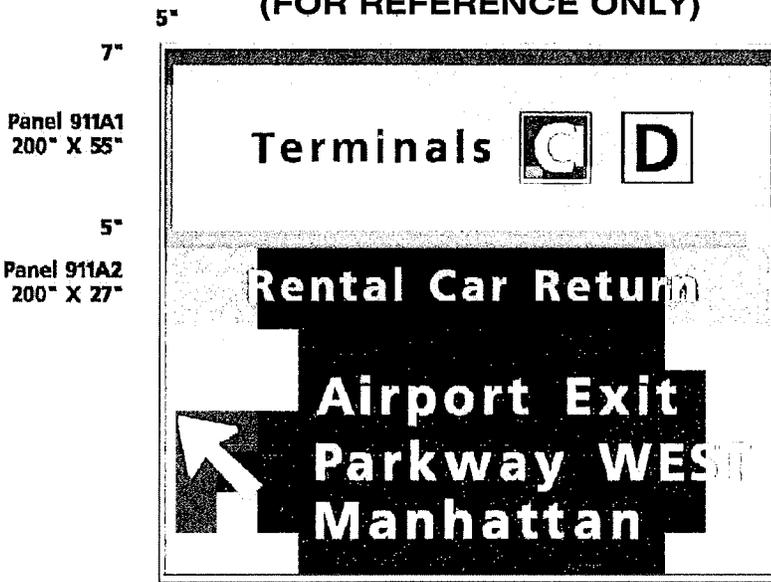
Text: Black, Frutiger 65 (+150%)

Background: Yellow

DETAIL

911A

(FOR REFERENCE ONLY)



Panel 911A1
200" X 55"

Panel 911A2
200" X 27"

Terminals **C** **D**

Rental Car Return

← Airport Exit
Parkway WEST
Manhattan

200"

Equal 10" 10" Equal



Terminals **C** **D**

FABRICATE: Panel 911A1
200"(W) X 55" (H)
Text: Black, Frutiger 65 (+150%)
Background: Yellow

200"

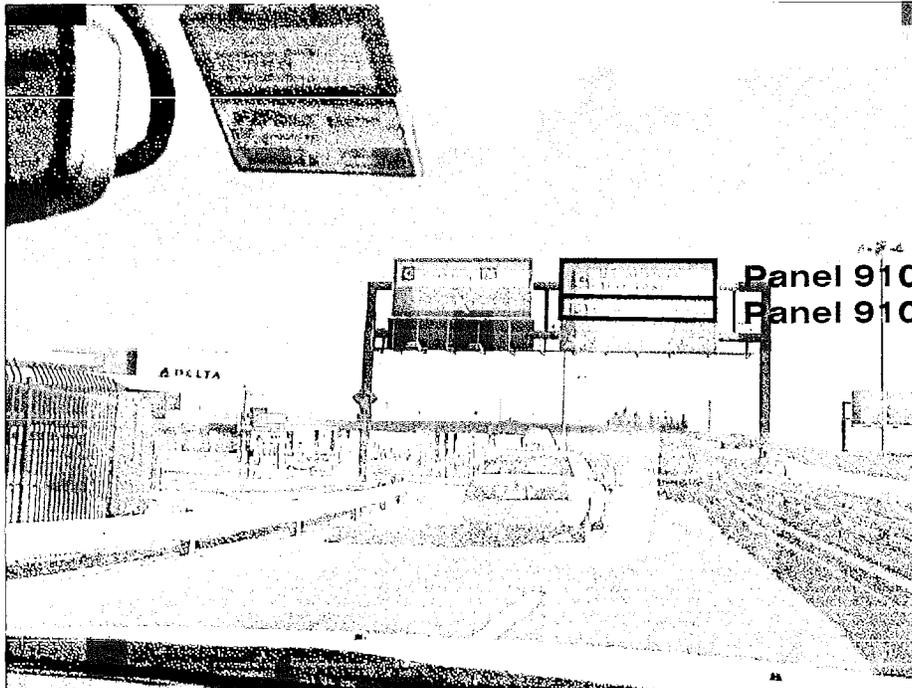
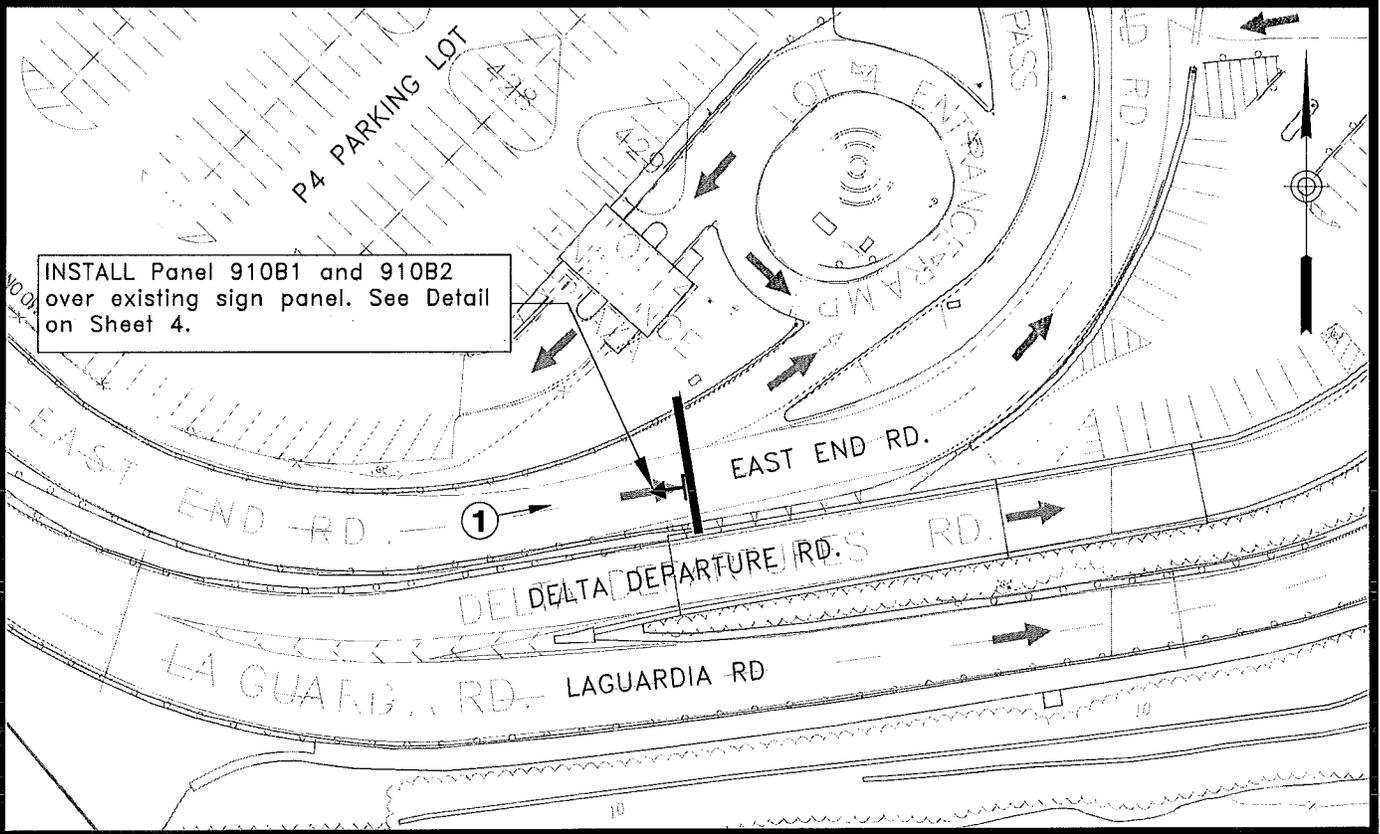
Equal Equal



Rental Car Return

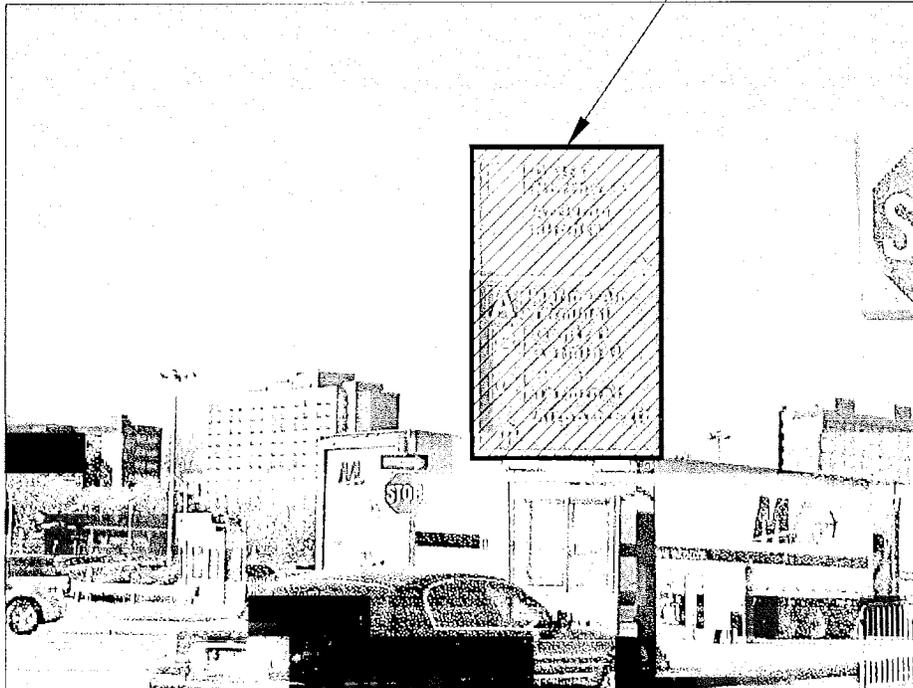
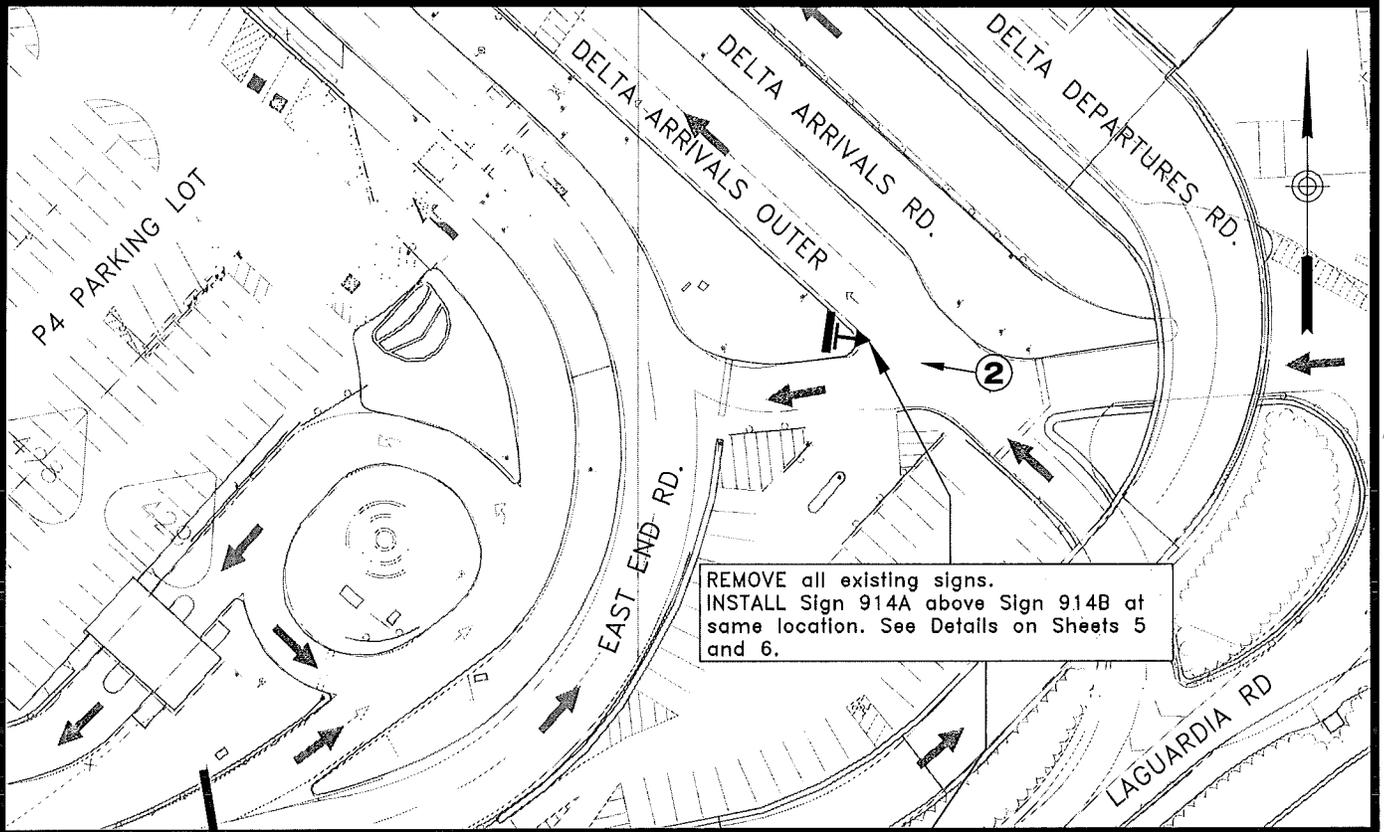
FABRICATE: Panel 911A2
200"(W) X 27" (H)
Text: White, Frutiger 65 (+150%)
Background: Blue

DETAIL



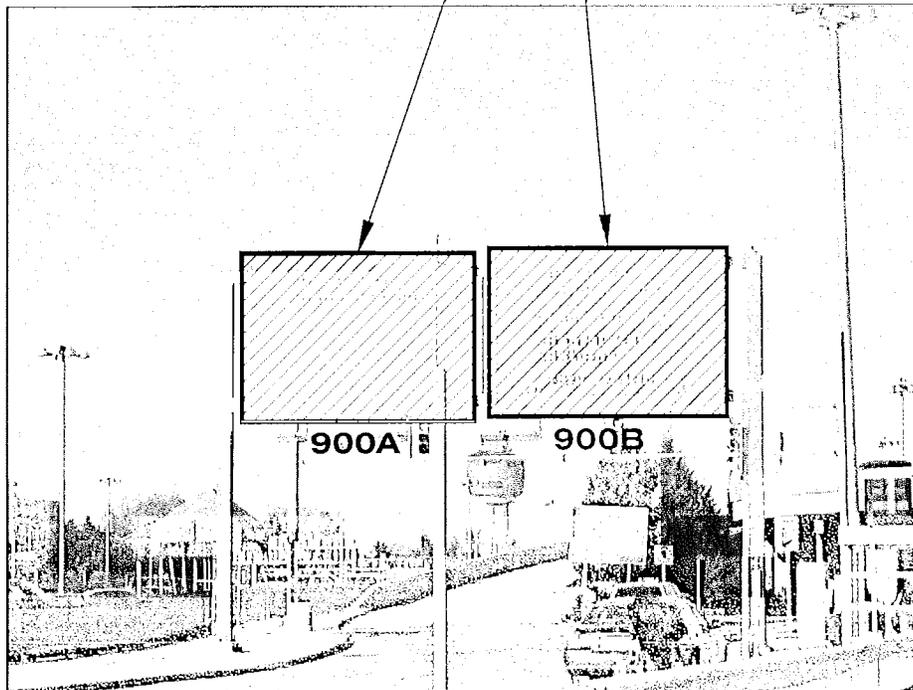
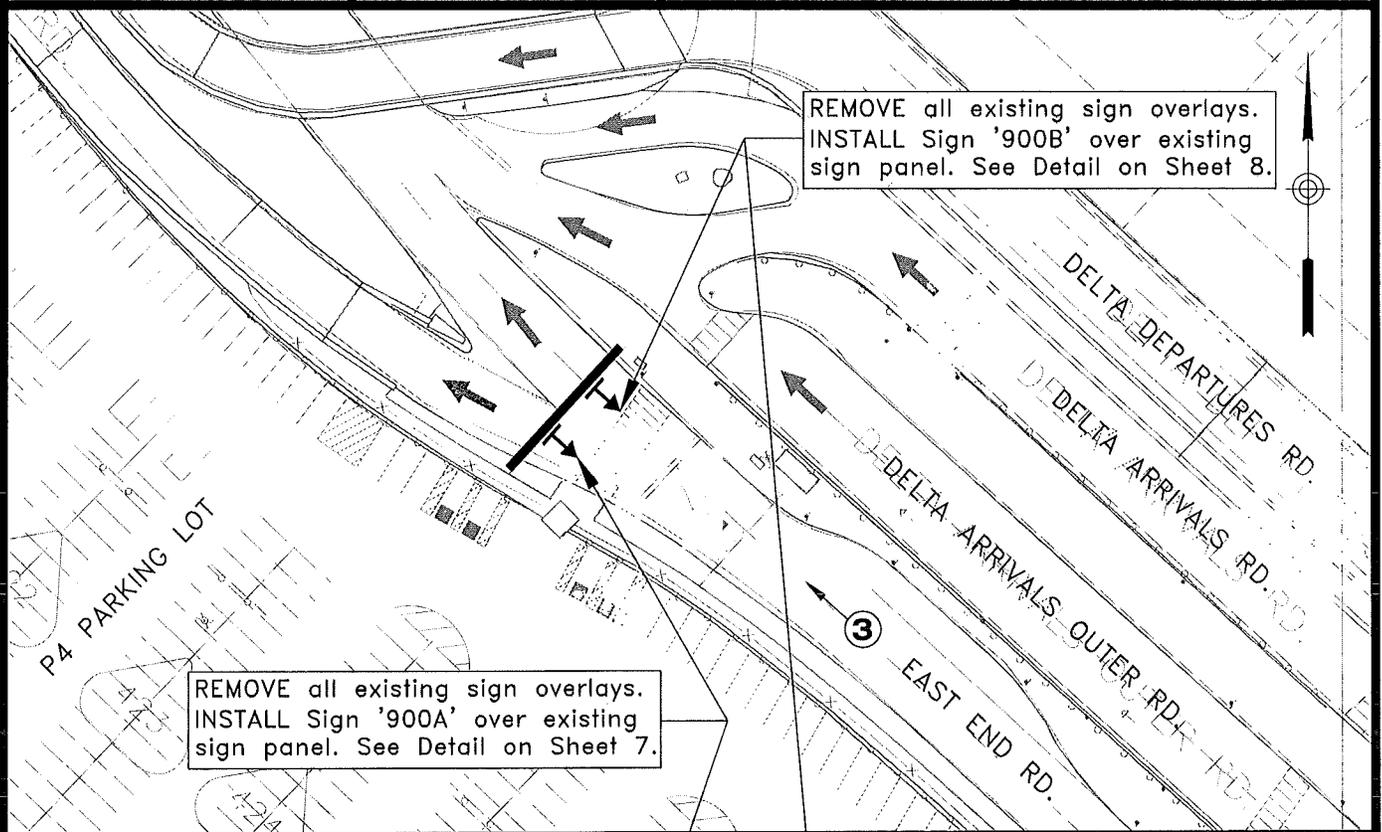
INSTALL PANELS 910B1 AND 910B2
EAST END RD.

Location 1



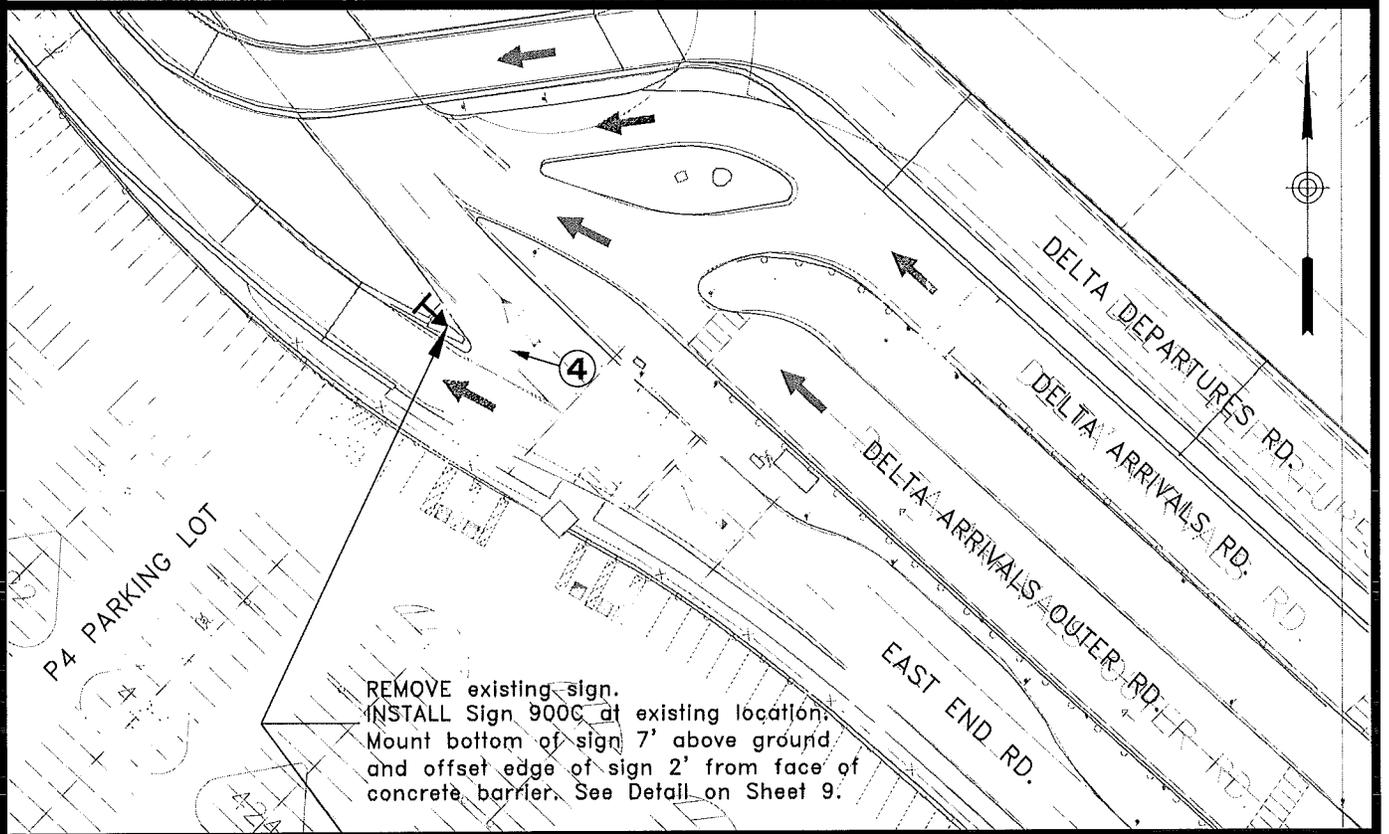
REMOVE EXISTING SIGNS AND INSTALL SIGN 914A AND 914B
EAST END RD.

Location 2

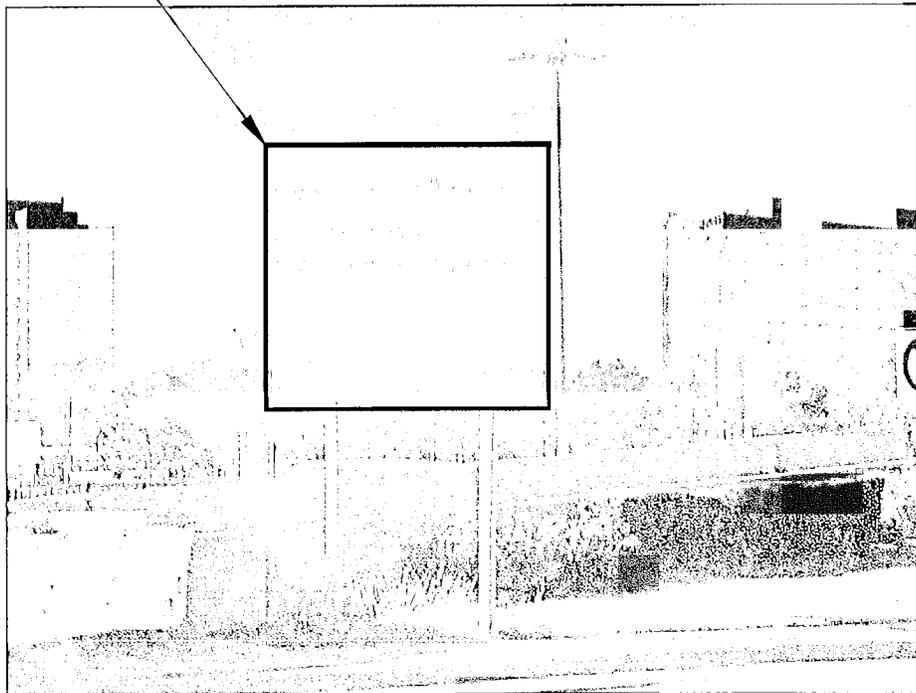


REMOVE OVERLAYS AND INSTALL SIGN 900A AND 900B
EAST END RD.

Location 3

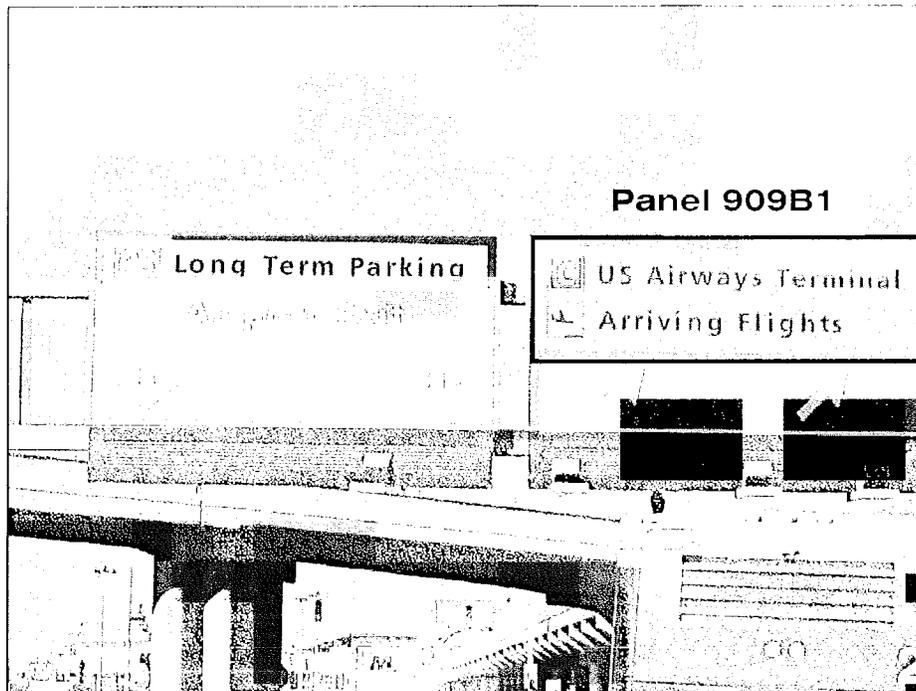
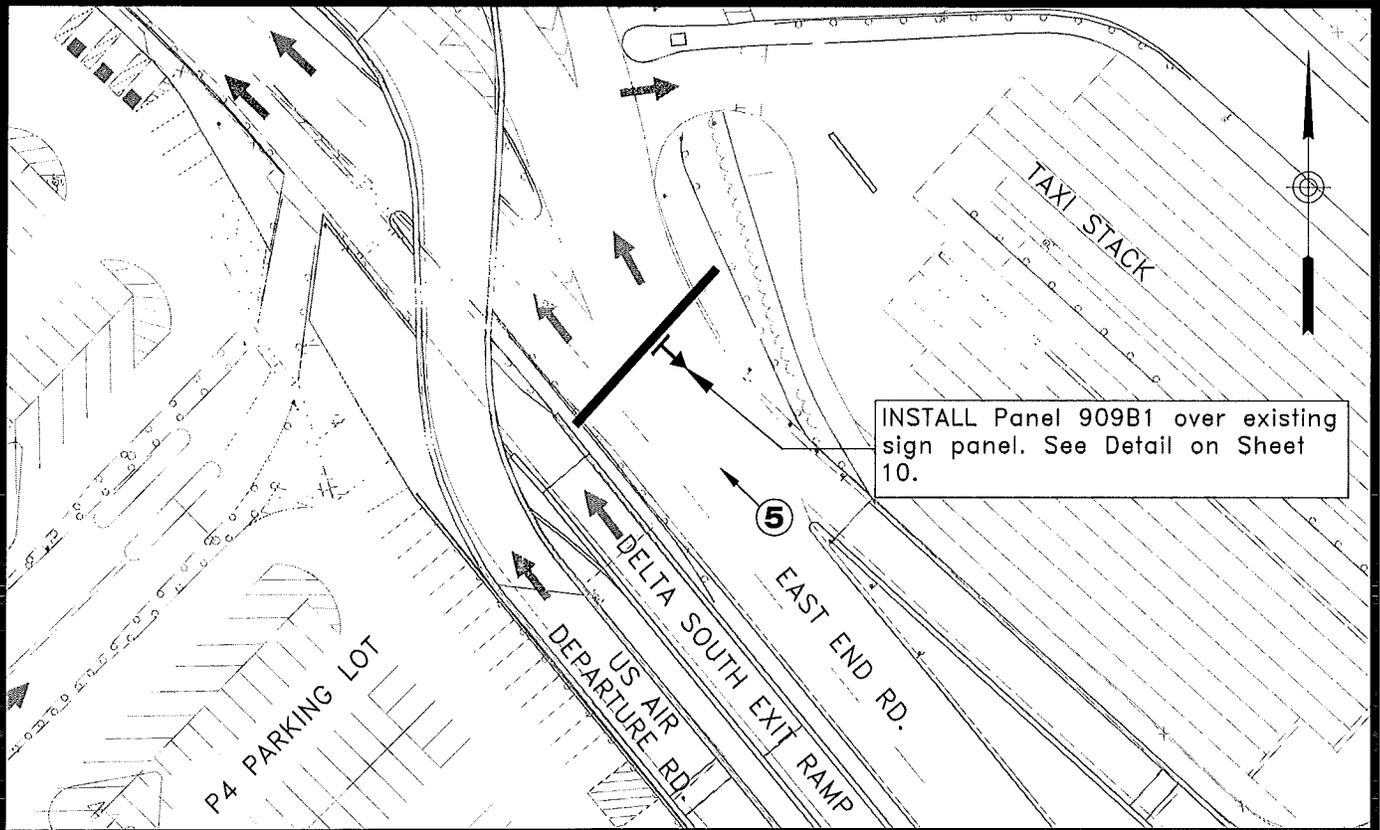


REMOVE existing sign.
INSTALL Sign 900C at existing location.
Mount bottom of sign 7' above ground
and offset edge of sign 2' from face of
concrete barrier. See Detail on Sheet 9.



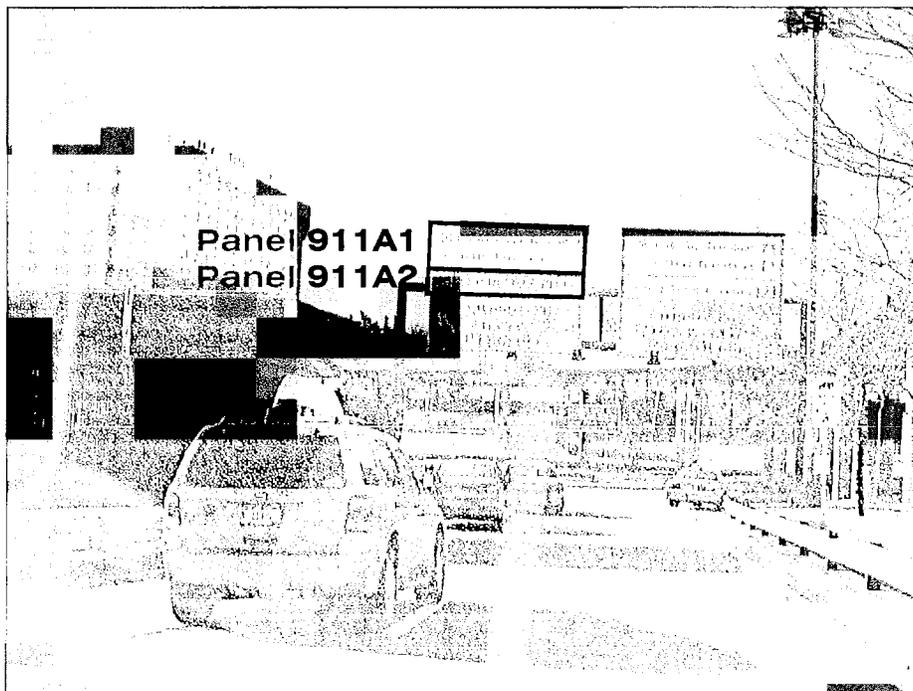
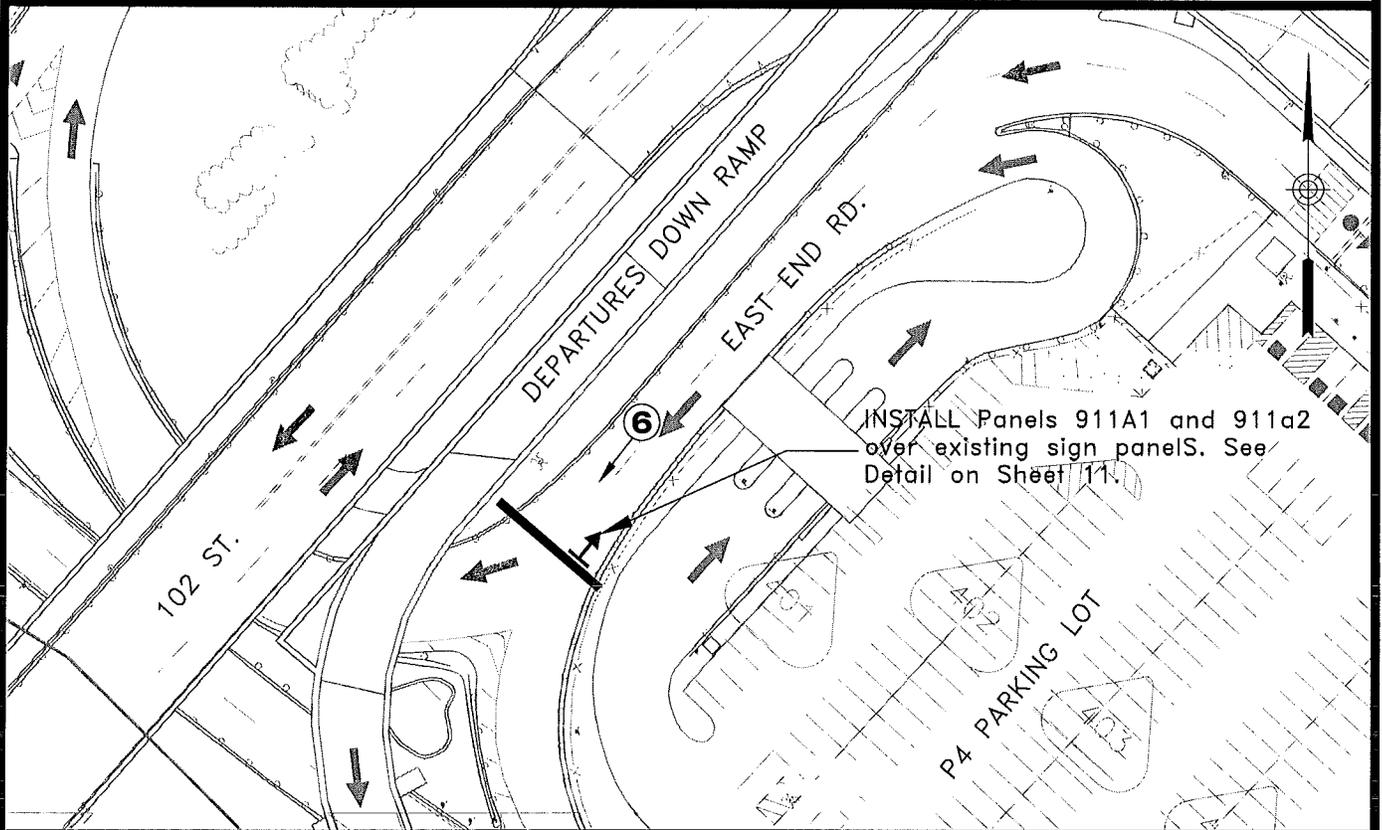
REMOVE EXISTING SIGN AND INSTALL SIGN '900C'
EAST END RD.

Location 4



INSTALL PANEL 909B1
EAST END RD.

Location 5



INSTALL PANELS 911A1 AND 911A2
EAST END RD.

Location 6