AGENDA

1. *Project Update*

2. *Construction Contract Updates*

3. *72nd Street Station - Ancillary Facilities at 69th Street and 72nd Street*
## Contracts

### PROPOSED CONSTRUCTION SCHEDULE

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<td>C1</td>
<td>TBM Launch Box, Tunneling from 92nd St. to 63rd St &amp; shafts at 69th &amp; 72nd Streets</td>
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<td>96th - Site Work &amp; Heavy Civil</td>
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<td>96th - Station Shell Concrete, Backfill, Perm. Utilities &amp; Street Restoration, MEP &amp; Finishes</td>
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<td>72nd - Existing Building Demolition, Station Cavern Mine/ Line, G3 &amp; G4 Mine/ Line &amp; Heavy Civil</td>
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MTA has Acquired the Following Properties as of September 2009:

- 235 E. 69th Street
- 1315 2nd Avenue
- 253-259 E 72nd Street
- 247 E. 83rd Street

MTA has hired Colliers ABR as the Property Management Firm to Maintain & Manage all Acquired Properties
Total Number of Residential Relocations: 48 Units

Total Number Relocations to date: 30 Units

Remaining Residential Tenants have been contacted by our Relocation Consultant (O.R. Colan Associates)
All Acquired Properties are Currently Scheduled to Start Demolition by late 2010

Demolished Building Sites will be Secured & Maintained by our Contractor

Construction of New Ancillary Facilities will Commence by Mid 2013 and will be Completed by 3rd quarter of 2015
1. Project Update

2. Construction Contract Updates

3. 72nd Street Station - Ancillary Facilities at 69th Street and 72nd Street
Second Avenue Subway Construction Progress Update Contract C-26002

Presented by
S3 Tunnel Constructors
AND
MTACC
November 30, 2009
Progress Update (September-November)

- Launch Box Update – 95th to 91st Streets
- Shaft Site Work Update – 74th to 69th Streets
- Upcoming Work – 78th Street Pump Station
Launch Box Update

Excavation and Bracing
Launch Box Excavation with Bracing

Profile Looking North on 2nd Avenue

Concrete Deck System

Slurry/Secant Walls

Bracing System
Launch Box Excavation with Bracing

Sequence of Excavation and Bracing Installation
Launch Box Excavation with Bracing

Sequence of Excavation and Bracing Installation

11/30/2009

MTA New York City Transit Capital Construction
Launch Box Excavation with Bracing

Sequence of Excavation and Bracing Installation
Launch Box Excavation with Bracing

Sequence of Excavation and Bracing Installation

MTA New York City Transit Capital Construction
Launch Box Excavation

Current Status

• Upper level of bracing: completed
• Excavation to lower level of bracing: in progress
• Installation of lower level bracing: in progress
• Controlled blasting of rock: in progress
Launch Box Excavation

Progress viewed from underneath 2nd Avenue Decking System
Launch Box Excavation
Progress viewed from underneath 2^{nd} Avenue Decking System
Launch Box Excavation
Progress viewed from underneath 2nd Avenue Decking System
Launch Box Excavation

Rock Blasting Update

- Test Blast Program: successful
  - Department of Buildings, FDNY, MTA
  - Vibration Levels – below limits

- Production Blasting: in progress
  - 2\textsuperscript{nd} Shift Resumed November 18, 2009
  - Expected Completion: Early 2\textsuperscript{nd} Quarter 2010
Controlled Rock Blasting and Removal

• The safety of the public and our workers is the MTA’s top priority.

• Controlled Blasting Plans have been designed by a Specialty Blasting Consulting Expert.

• The Blasting Plans have been approved by FDNY Explosives Unit.

• All blasting work is being monitored by FDNY Explosives Unit.
Controlled Rock Blasting and Removal

• Buildings adjacent to the blasting area are being inspected before this work begins by:
  – The Department of Buildings; and
  – An independent engineer and specialty consultant with experience in old brick masonry.

• Blasting Vibration Monitoring Equipment has been installed in buildings within the blasting area.

• The allowable vibrations caused by controlled blasting have been set at levels that are lower than the standard for similar building types.
Upcoming Work

Launch Box:

• Ongoing Work Items
  - Excavation & Bracing
  - Rock Blasting and Removal

• New Work Items – 2nd Quarter 2010
  - Preparation for Tunnel Boring Machine Delivery
  - Installation of Vertical Conveyor
Shaft Site Work at 69th St. & 72nd St.
Shaft Site work at 69th St. & 72nd St.

Current Status

• Completing Utility Work on East Side

• Preparing to Excavate Shaft Area
Shaft Area Current Construction Plan

69th St. Shaft 72nd St. Shaft

11/30/2009
Utility Relocation Work Around Shafts
Utility Relocation Work Around Shafts
Upcoming Work

Shaft Area: 69th Street to 74th Street:

• Begin shaft excavation – 1st Quarter 2010

• Controlled blasting of rock at shafts – 2nd Quarter 2010
Upcoming Work

78th St Pump Station – Surface Work
MTA Capital Construction
Second Avenue Subway Project
96th St. Station

Contract C-26005 (2A): Heavy Civil, Structural and Utility Relocation
Contract 2A: 96th Street Station - Site Work & Heavy Civil
Progress Update (September to November)

- Gas Main Relocation along 2nd Ave. – Ongoing
- Sewer Main Relocation along 2nd Ave. – Ongoing
- Electrical Work Along 2nd Ave. – Ongoing
- Electrical Chambers on 96th St. – Ongoing
- Asbestos Abatement at Century Lumber - Complete
Current Work
STAGE 1

- Relocate Utilities on East side From 95th to 100th Street
- Century Lumber Building Asbestos Abatement
Site Overview
2nd Avenue and 97th Street Intersection
CONSTRUCTION PROGRESS:
2ND Ave & 97th St

Sewer Trench Along 2nd Avenue Between 97th & 99th

Construction of Sewer Chamber at 2nd Avenue and 97th Street (NE Corner)
CONSTRUCTION PROGRESS:
Gas Main Relocation

30-in Gas Main Excavation

2nd Avenue between 96th and 97th Streets
CONSTRUCTION PROGRESS:
Electric Relocation

Electric Relocation
96th Street and 2nd Avenue (SW Corner)
CONSTRUCTION PROGRESS:
2nd Ave & 96th St

96th Street and 2nd Avenue (SE Corner) 96th Street B/T 1st and 2nd Avenues
PROGRESS AND UPDATES

- **Upcoming Work** *(Next 3 Months)*
  - Demolition of Century Lumber at corner of 2nd Ave. & 97th St.
  - Sewer Main Relocation from 95th St. to 96th St.
  - Gas Main Relocation along 2nd Ave. – Ongoing
  - Sewer Main Relocation along 2nd Ave. – Ongoing
  - Electrical Work Along 2nd Ave. – Ongoing
Current Work
STAGE 1

- Relocate Utilities on East side From 95th to 100th Street
- Demo Century Lumber Building
CONSTRUCTION PROGRESS: Carnegie House Access

Carnegie East House Access
CONSTRUCTION PROGRESS: Bus Stop Relocation

SOUTHBOUND M15 BUS STOP LINES

BUS STOP KEY

- DISCONTINUED
- NEW
- REINSTATED

MTA New York City Transit Capital Construction
Second Avenue Subway
Construction Progress Update

Presented by:
J. D’ANNUNZIO & SONS, INC
Sergio Couto, P.E. - Project Manager
November 30th, 2009
Progress Update

1. Street Furniture & Tree Removals – Complete

2. Bus Stop Relocations – Complete

3. West Sidewalk Cutback Along 2nd Ave. Between 84th and 82nd Street – Complete

4. Work Zone on East Side of 2nd Ave. – Between 88th and 84th Street – In Progress
MPT STAGE - 1B (Present – Early First Quarter 2010)

86TH STREET STATION

STAGING OVERVIEW - STAGE 1B

J. D’ANNUNZIO & SONS, INC.

MTACC Second Avenue Project - 86th Street Station
Contract C-26013: Utility Relocation, Open Excavation and Road Decking
STAGE 1 (First Quarter 2010)

86TH STREET STATION

STAGING OVERVIEW – SEQUENCE 3

J. D’ANNUNZIO & SONS, INC.
MTACC Second Avenue Project - 86th Street Station
Contract C-26013: Utility Relocation, Open Excavation and Road Decking
NEW BUS STOPS

• Bus Stop Located at 82\textsuperscript{nd} Street.

• Bus Stop Located at 88\textsuperscript{th} Street.
J. D’ANNUNZIO & SONS, INC.
MTACC Second Avenue Project - 86th Street Station
Contract C-26013: Utility Relocation, Open Excavation and Road Decking
CROSS WALK CLOSED

KINDLY FOLLOW SIGNAGE

J. D’ANNUNZIO & SONS, INC.
MTACC Second Avenue Project - 86th Street Station
Contract C-26013: Utility Relocation, Open Excavation and Road Decking
CROSSWALKS CLOSED
EMERGENCY ACCESS

J. D’ANNUNZIO & SONS, INC.
MTACC Second Avenue Project - 86th Street Station
Contract C-26013: Utility Relocation, Open Excavation and Road Decking
COMMUNITY INFORMATION

LOCATION: SOUTHEAST CORNER OF 2ND & 85TH

MTACC Second Avenue Project - 86th Street Station
Contract C-26013: Utility Relocation, Open Excavation and Road Decking
1. *Project Update*

2. *Construction Contract Updates*

3. *72\textsuperscript{nd} Street Station - Ancillary Facilities at 69\textsuperscript{th} Street and 72\textsuperscript{nd} Street*
72nd Street Station Plan

Entrance 1
Ancillary 1

Entrance 2
Ancillary 2

Entrance 3
Existing Building at 72nd Street for Ancillary # 2

Existing Building
1391 Second Ave
Ancillary # 2 at 72nd Street
Ancillary # 2 at 72nd Street
Criteria Standard - Kit of Parts

- GRANITE BASE
- CERAMIC RAINSCREEN
- GRANITE BASE ARTICULATION
- CERAMIC RAINSCREEN ARTICULATION
- HORIZONTAL FRAMES
- STAIR CURTAINWALL (GLASS)
- VISUAL SCREEN
- WIRE MESH
Existing Buildings at 69th Street for Ancillary # 1

235 EAST 69TH / 1313 – 1315 2nd Ave
Ancillary # 1 at 69th Street