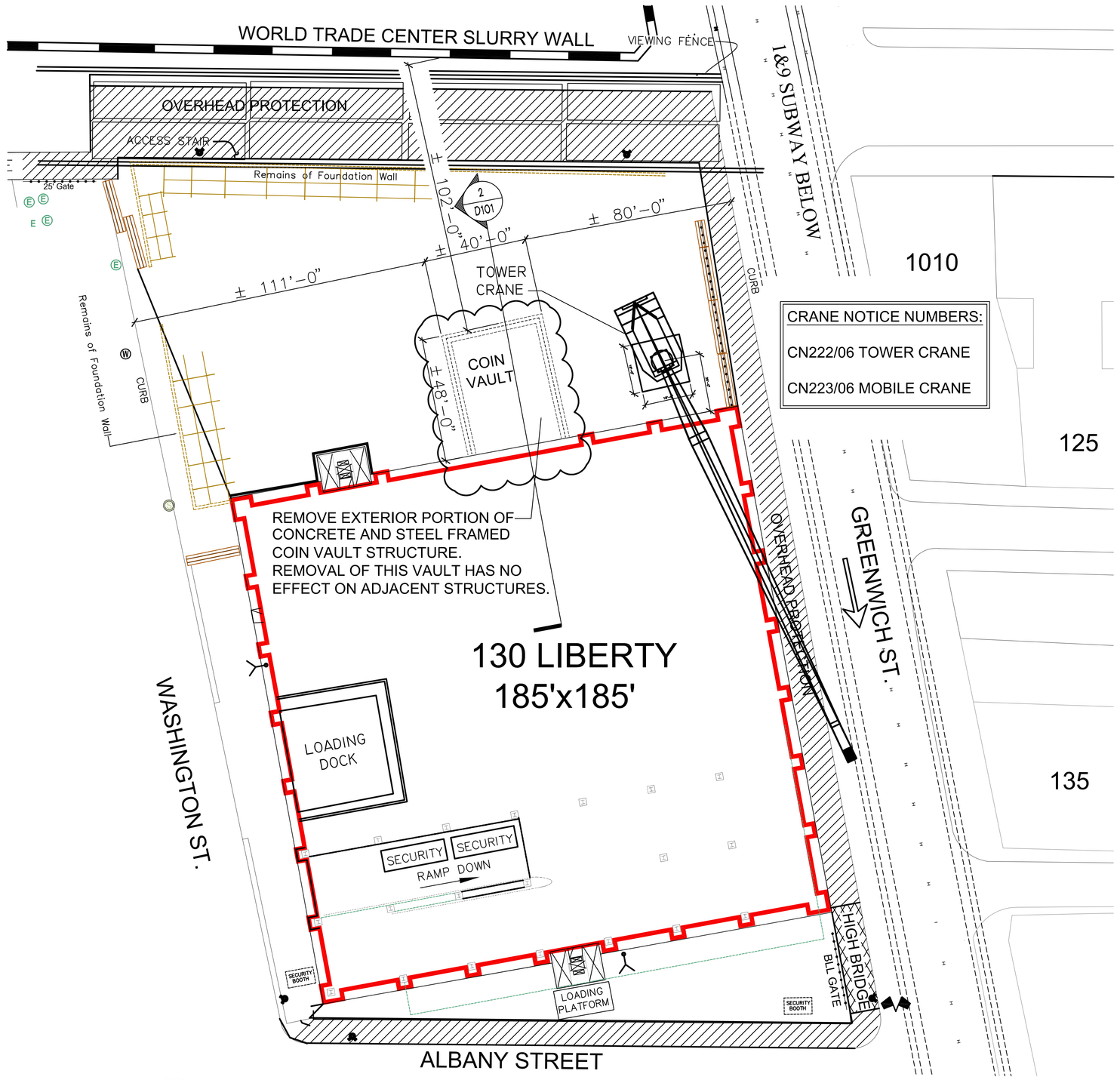
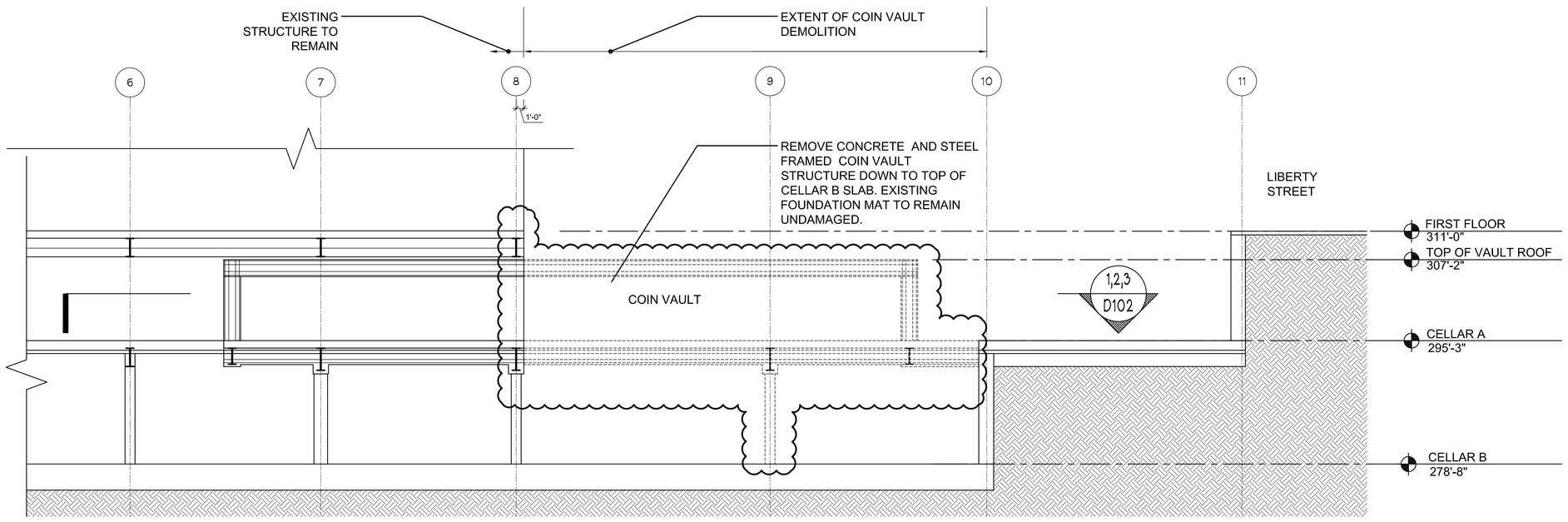


1 D-101 COIN VAULT DEMOLITION PLAN

SCALE: N.T.S.



2 D-101 COIN VAULT DEMOLITION SECTION

SCALE: 1/8" = 1'-0"

LEGEND
---------- INDICATES STRUCTURE TO BE REMOVED

COIN VAULT DEMOLITION SPECIFICATIONS

PART 1 - GENERAL

1.1 SUMMARY

A. THIS SCOPE OF WORK INCLUDES THE FOLLOWING:

1. DEMOLITION AND REMOVAL OF THE EXTERIOR PORTION OF THE BUILDING'S COIN VAULT STRUCTURE.
2. DEMOLITION AND REMOVAL OF THE EXTERIOR PORTION OF THE BUILDING'S COIN VAULT BELOW- GRADE STRUCTURE.
3. FOUNDATIONS FOR THE EXTERIOR PORTION OF THE BUILDING'S STRUCTURE WILL BE LEFT IN PLACE.

1.2 DEFINITIONS

A. REMOVE: DETACH ITEMS FROM EXISTING CONSTRUCTION AND LEGALLY DISPOSE OF THEM OFF-SITE UNLESS INDICATED TO BE REMOVED AND SALVAGED OR RECYCLED.

B. EXISTING TO REMAIN: EXISTING ITEMS OF CONSTRUCTION THAT ARE NOT TO BE REMOVED AND THAT ARE NOT OTHERWISE INDICATED TO BE REMOVED, REMOVED AND SALVAGED, OR RECYCLED.

1.3 QUALITY ASSURANCE

A. DEMOLITION FIRM QUALIFICATIONS: AN EXPERIENCED FIRM THAT HAS SPECIALIZED IN DEMOLITION WORK SIMILAR IN MATERIAL AND EXTENT TO THAT INDICATED FOR THIS PROJECT.

B. REGULATORY REQUIREMENTS: COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING DEMOLITION. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

C. STANDARDS: COMPLY WITH ANSI A10.6 AND NFPA 241.

D. PREDEMOLITION CONFERENCE: CONDUCT CONFERENCE AT PROJECT SITE TO COMPLY WITH REQUIREMENTS IN DIVISION 1 SECTION "PROJECT MANAGEMENT AND COORDINATION." REVIEW METHODS AND PROCEDURES RELATED TO BUILDING DEMOLITION INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. INSPECT AND DISCUSS CONDITION OF CONSTRUCTION TO BE DEMOLISHED.
2. REVIEW STRUCTURAL LOAD LIMITATIONS OF EXISTING STRUCTURES.
3. REVIEW AND FINALIZE BUILDING DEMOLITION SCHEDULE AND VERIFY AVAILABILITY OF DEMOLITION PERSONNEL, EQUIPMENT, AND FACILITIES NEEDED TO MAKE PROGRESS AND AVOID DELAYS.
4. REVIEW AND FINALIZE PROTECTION REQUIREMENTS.

1.4 PROJECT CONDITIONS

A. CONDUCT BUILDING DEMOLITION SO PUBLIC WAY, TRAVEL WILL NOT BE DISRUPTED.

1. PROVIDE NOT LESS THAN 120 HOURS NOTICE TO OWNER OF ACTIVITIES THAT WILL AFFECT OPERATION OF PUBLIC WAY.
2. MAINTAIN ACCESS TO EXISTING WALKWAYS, EXITS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.

A. DO NOT CLOSE OR OBSTRUCT WALKWAYS, OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.

B. HAZARDOUS MATERIALS:

1. ALL HAZARDOUS MATERIALS WILL BE REMOVED BY CONTRACTOR AS PART OF THE SCOPE OF THE OVERALL DEMOLITION CONTRACT.
2. IF ADDITIONAL MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; TEMPORARILY CEASE DEMOLITION ACTIVITY IN THIS VICINITY AND IMMEDIATELY NOTIFY OWNER IN WRITING. ALL HAZARDOUS MATERIALS WILL BE REMOVED BY CONTRACTOR UNDER THIS CONTRACT.

PART 2 - EXECUTION

2.1 EXAMINATION

A. SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF BUILDING DEMOLITION REQUIRED.

B. WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE ELEMENT.

C. VERIFY THAT HAZARDOUS MATERIALS HAVE BEEN REMEDIATED BEFORE PROCEEDING WITH BUILDING DEMOLITION OPERATIONS. PROVIDE PROOF TO OWNER, AS SUCH.

2.2 PREPARATION

A. EXISTING UTILITIES SERVING THE COIN VAULT HAVE BEEN PREVIOUSLY CAPPED OFF.

B. TEMPORARY SHORING: PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.

1. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF DEMOLITION.

2.3 PROTECTION

A. EXISTING FACILITIES: PROTECT ADJACENT BUILDING FACILITIES DURING DEMOLITION OPERATIONS.

B. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED.

1. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO STRUCTURE TO REMAIN.
2. PROVIDE PROTECTION TO ENSURE SAFE PASSAGE OF PEOPLE AROUND BUILDING DEMOLITION AREA

2.4 DEMOLITION GENERAL

A. GENERAL: DEMOLISH INDICATED EXISTING COIN VAULT STRUCTURE COMPLETELY. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:

1. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
2. MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
3. LOCATE BUILDING DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.

2.5 MECHANICAL DEMOLITION

A. REMOVE BUILDINGS, STRUCTURES AND SITE IMPROVEMENTS INTACT WHEN PERMITTED BY AUTHORITIES HAVING JURISDICTION.

B. PROCEED WITH DEMOLITION OF THE EXTERIOR PORTION OF THE COIN VAULT'S STRUCTURAL FRAMING MEMBERS SYSTEMATICALLY, FROM HIGHER TO LOWER LEVEL. COMPLETE BUILDING DEMOLITION OPERATIONS ABOVE EACH FLOOR OR TIER BEFORE DISTURBING SUPPORTING MEMBERS ON THE NEXT LOWER LEVEL.

C. REMOVE DEBRIS FROM ELEVATED PORTIONS BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL IN A CONTROLLED DESCENT.

1. REMOVE EXTERIOR PORTION OF THE COIN VAULT'S STRUCTURAL FRAMING MEMBERS AND LOWER TO CELLAR B BY METHOD SUITABLE TO MINIMIZE IMPACT OR DUST GENERATION.

D. CONCRETE: CUT CONCRETE FULL DEPTH AT JUNCTURES WITH CONSTRUCTION INDICATED TO REMAIN, USING POWER-DRIVEN SAW, THEN REMOVE CONCRETE BETWEEN.

E. STRUCTURAL STEEL: DISMANTLE FIELD CONNECTIONS WITHOUT BENDING OR DAMAGING STEEL MEMBERS.

2.6 EXPLOSIVE DEMOLITION

A. EXPLOSIVES: USE OF EXPLOSIVES IS NOT PERMITTED.

2.7 DISPOSAL OF DEMOLISHED MATERIALS

A. GENERAL: REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL.

1. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
2. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.

B. BURNING: DO NOT BURN DEMOLISHED MATERIALS.

C. DISPOSAL: TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.

CONTRACTOR'S PROCEDURE FOR COIN VAULT REMOVAL:

EQUIPMENT:

THE FOLLOWING EQUIPMENT WILL BE USED:

- KAMATSU PC-600 EXCAVATOR WITH HAMMER AND/OR MECHANICAL CONCRETE CRUSHER.
- KAMATSU PC-200 EXCAVATOR WITH HAMMER AND/OR BUCKET.
- BURNING TORCHES.

MEANS & METHODS:

STARTING ON THE NORTHEAST CORNER OF THE COIN VAULT, WE WILL USE THE PC 600 EXCAVATOR AND BEGIN TO REMOVE THE FIRST BAY OF THE COIN VAULT BY HAMMERING THE CONCRETE FROM EAST TO WEST. THE FIRST BAY IS APPROXIMATELY 1/3 OF THE VAULT. WHEN THE CONCRETE IS REMOVED, WE WILL THEN REMOVE THE EXPOSED STEEL WITH TORCHES. AFTER REMOVING THE STEEL, WE WILL REPOSITION THE EXCAVATOR SO THAT IT FACES THE BUILDING, AND WE WILL PROCEED TO REMOVE THE REMAINING CONCRETE TOWARDS THE BUILDING FACE. WE WILL STOP APPROXIMATELY 1 FOOT FROM THE FACE OF THE BUILDING. THE PC 200 EXCAVATOR WILL TAKE THE LARGER PIECES OF CONCRETE AND HAMMER THEM INTO SMALLER PIECES SO THAT THEY CAN BE STOCKPILED ON SITE, (TO BE PROCESSED AT A LATER DATE).

THE AREA BEHIND THE VAULT HAS AN INSIDE PROTECTION BARRIER WALL APPROXIMATELY 19' FROM THE FACE OF THE BUILDING. THIS AREA HAS BEEN PREVIOUSLY CLEANED, INSPECTED AND SIGN-OFF.

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CLIENT/ OWNER: LMDC Lower Manhattan Development Corporation; Bovis Lend Lease

PROJECT: DECONSTRUCTION OF 130 LIBERTY STREET
130 LIBERTY ST., NEW YORK, NY 10006

ISSUES/REVISIONS NO.	DESCRIPTION	DATES

KEY PLAN: NORTH

SEAL:

ARCHITECT/ ENGINEER: Thornton-Tomasetti Group
51 MADISON AVENUE , NEW YORK, NY 10010
TEL: (917) 661-7800; FAX: (917) 661-7801

DRAWING TITLE: COIN VAULT DEMOLITION PLAN

LZA JOB NO: 2546F00

DATE: MAY 3, 2006
DRAWING SCALE: AS NOTED
DRAWING NO. D-101
SHEET NO. OF