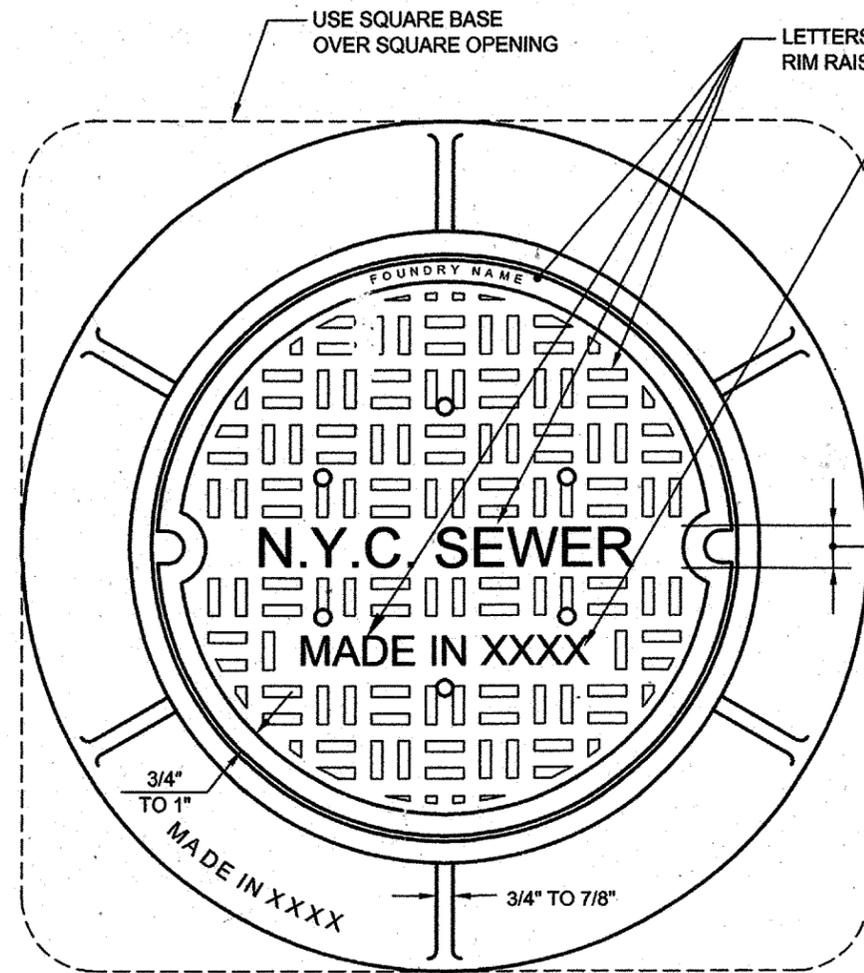
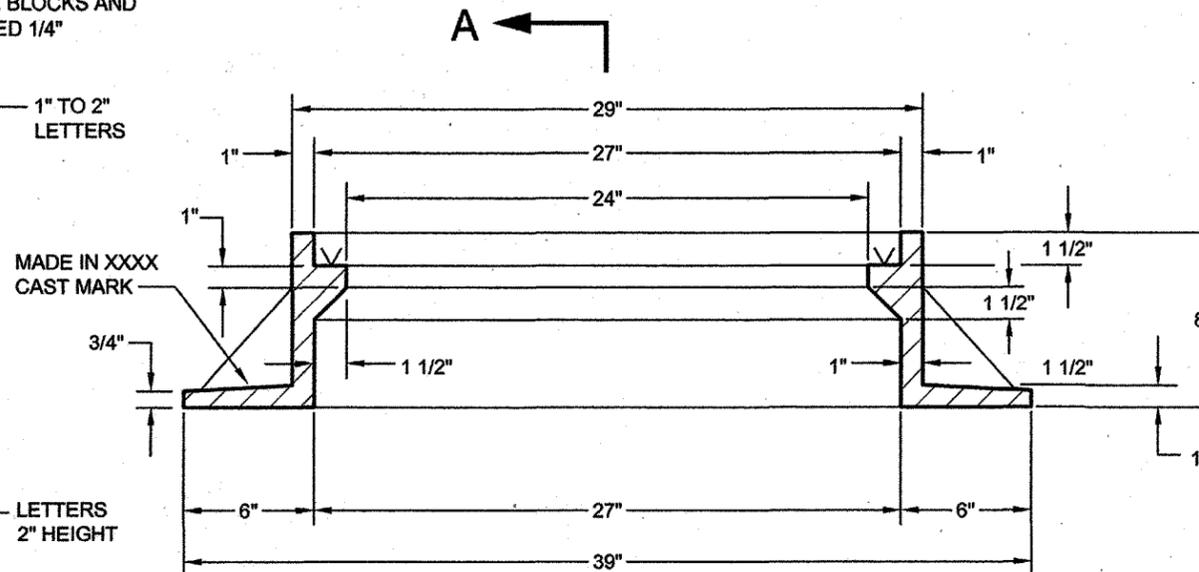


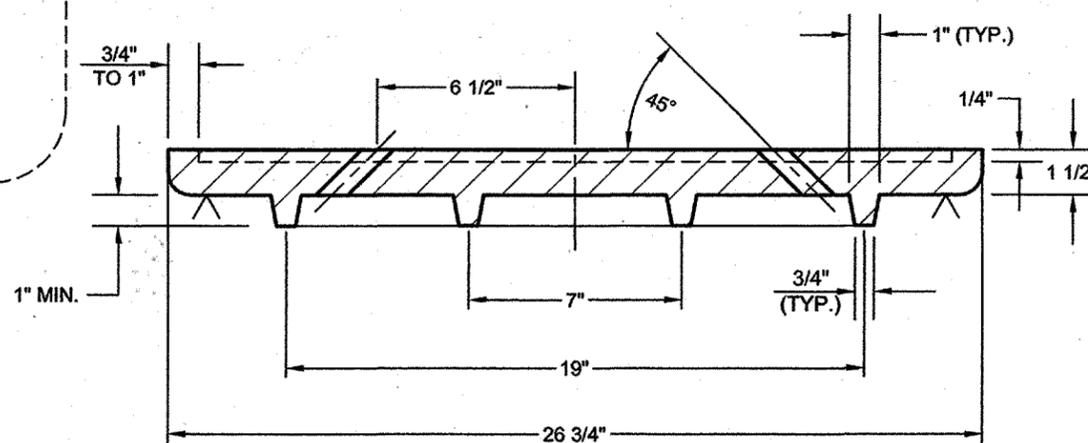
CITY OF NEW YORK
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
STANDARD FOR 27" DIAMETER CAST IRON MANHOLE FRAME AND COVER
 (FOR ACCESS OR CLEANOUT)



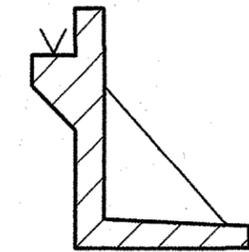
PLAN VIEW OF FRAME AND COVER



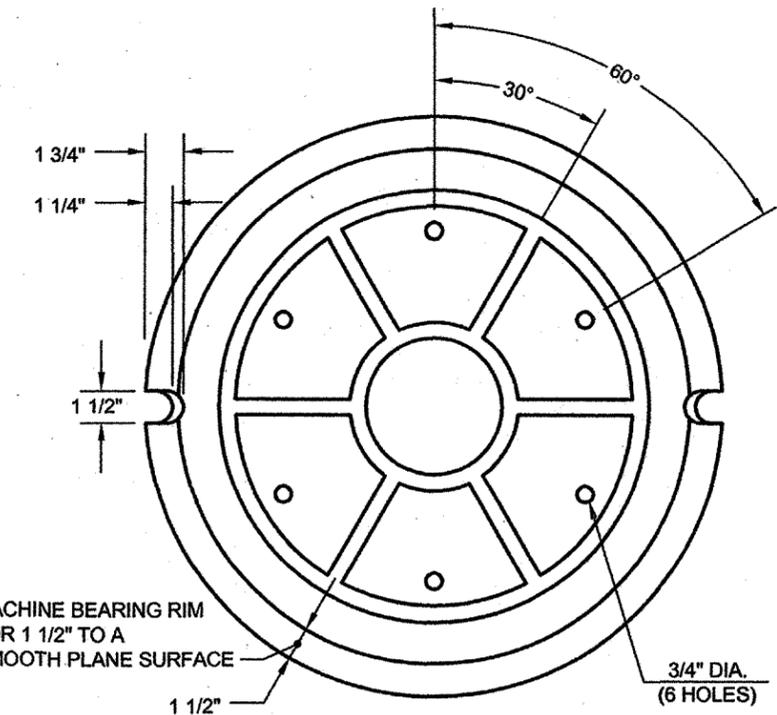
SECTION OF FRAME



SECTION OF COVER



SECTION A-A



BOTTOM VIEW OF COVER

NOTES:

- (1) FRAME MATERIAL: GRAY CAST IRON ASTM A-48 CLASS 35B. MINIMUM WEIGHT OF FRAME IS 345 LBS.
- (2) COVER MATERIAL: GRAY CAST IRON ASTM A-48 CLASS 35B. MINIMUM WEIGHT OF COVER IS 195 LBS.
- (3) DESIGN LOADING: HS20-44 HIGHWAY LOADING.
- (4) ALL MANHOLE FRAMES & COVERS SHALL HAVE THE MANUFACTURER'S IDENTIFICATION, CAST DATE OR HEAT NUMBER AND COUNTRY OF ORIGIN INTEGRALLY CAST ON INDIVIDUAL PIECES AT THE TIME OF MANUFACTURE IN ACCORDANCE WITH THE DEP SPECIFICATION.

REVISED NOVEMBER 2006: L. ADRIEN

Gundip S. Saini
 P.E.

ASSISTANT COMMISSIONER, DESIGN
 DEPARTMENT OF DESIGN AND CONSTRUCTION

9/15/08

DATE

Moadi J. Jurek
 P.E.

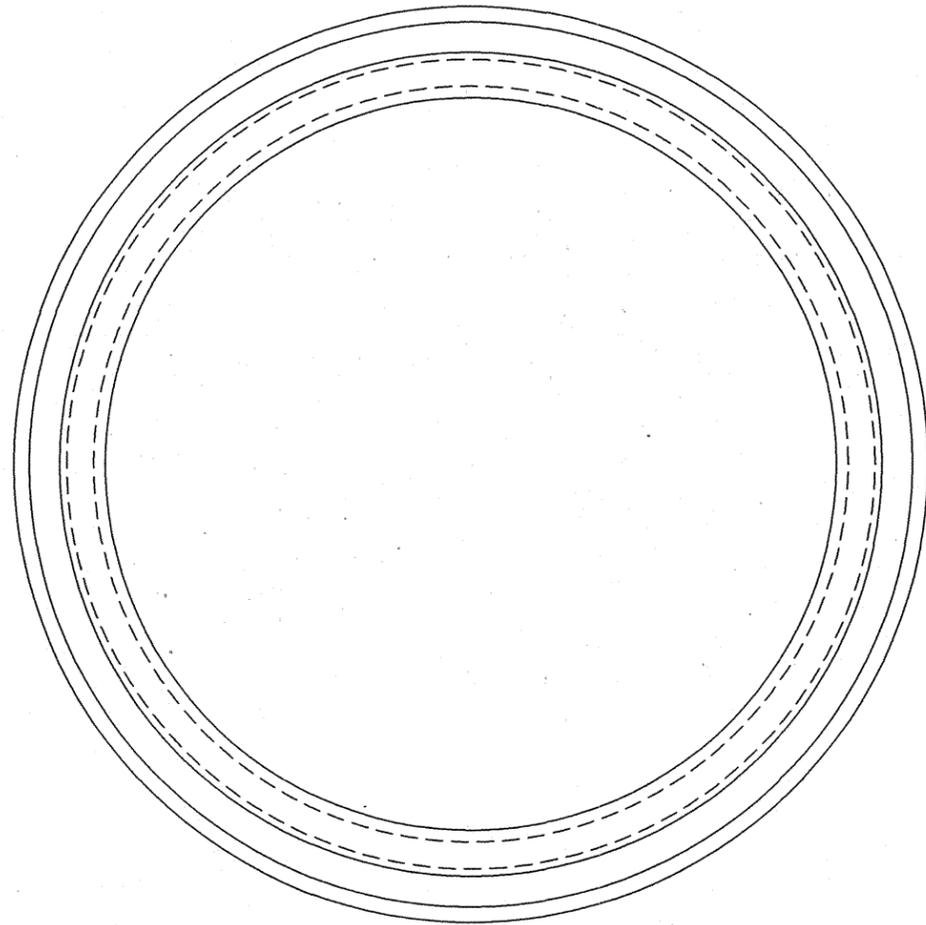
DIRECTOR OF ENGINEERING
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

9/15/08

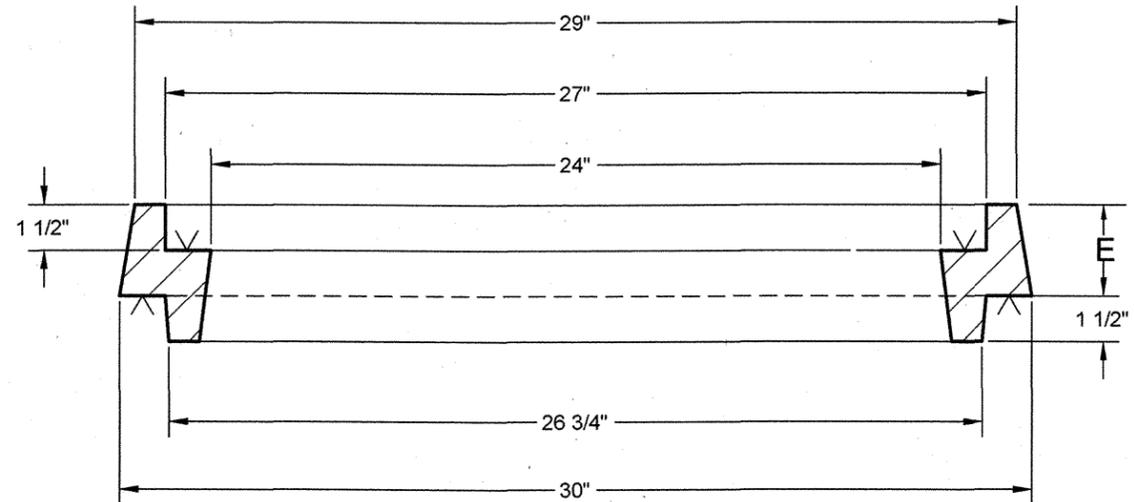
DATE

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STANDARD FOR 27" DIAMETER CAST IRON EXTENSION RING FOR 27" DIAMETER MANHOLE FRAME AND COVER



PLAN



SECTION

E = 2" for 2" raise
E = 3" for 3" raise
E = 4" for 4" raise
Minimum Raise: 2"
Maximum Raise: 4"

NOTES:

- (1) MATERIAL: GRAY CAST IRON ASTM A-48, CLASS 35B. MINIMUM WEIGHT OF EXTENSION RINGS:
2" = 120 LBS.; 3" = 150 LBS.; 4" = 170 LBS.
- (2) DESIGN LOADING: HS20-44 HIGHWAY LOADING.
- (3) ALL MANHOLE FRAMES & COVERS SHALL HAVE THE MANUFACTURER'S IDENTIFICATION, CAST DATE OR HEAT NUMBER AND COUNTRY OF ORIGIN INTEGRALLY CAST ON INDIVIDUAL PIECES AT THE TIME OF MANUFACTURE IN ACCORDANCE WITH THE DEP SPECIFICATION.

REVISED MAY 2004: L. ADRIEN

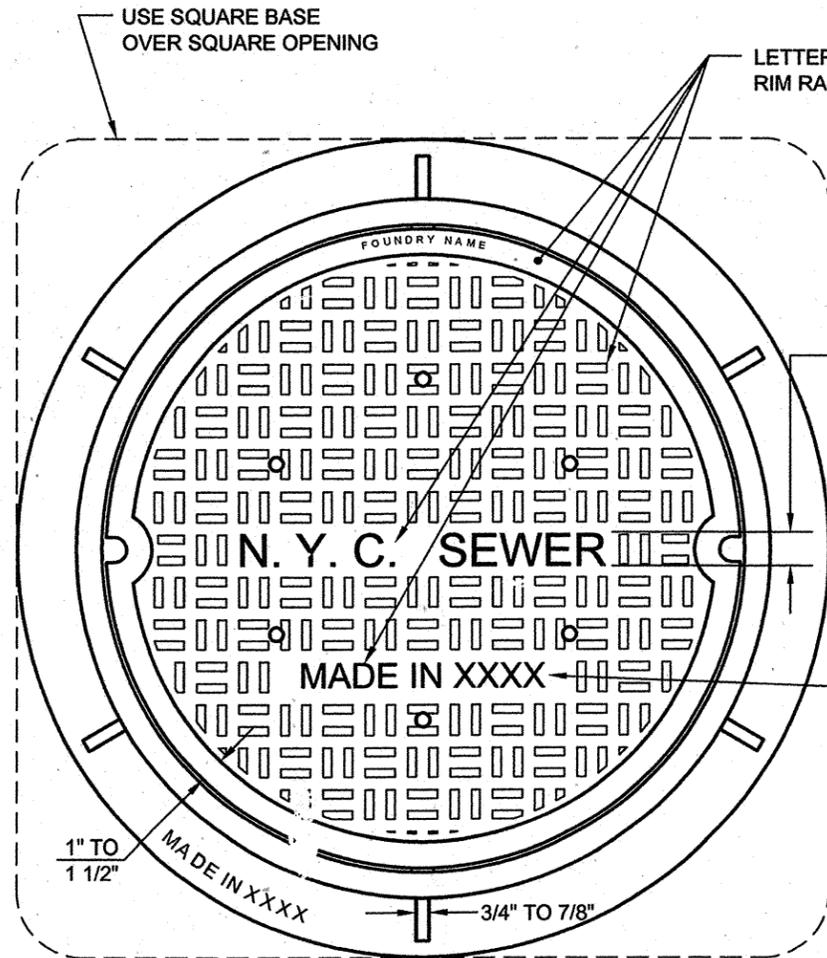
Joseph W. Carran P.E.
ASSISTANT COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION

7/9/07
DATE

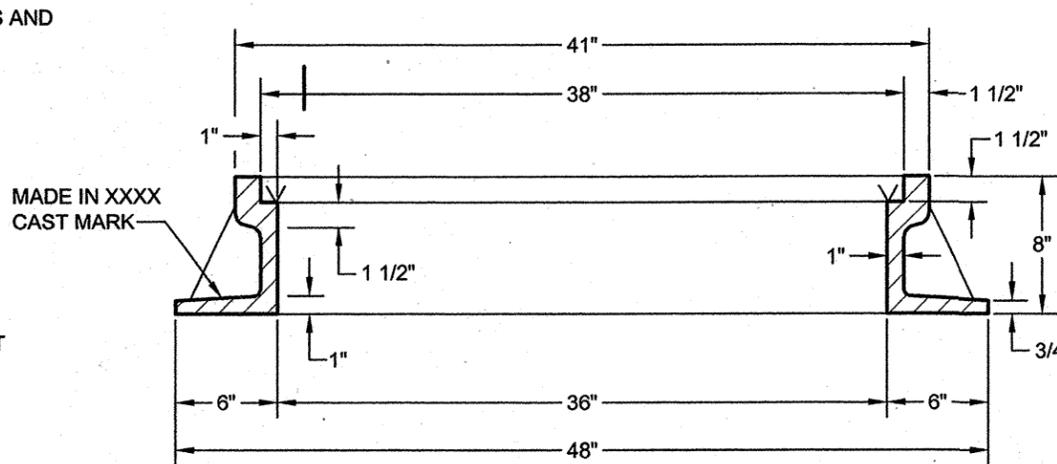
Magedi Taha P.E.
DIRECTOR OF ENGINEERING
DEPARTMENT OF ENVIRONMENTAL PROTECTION

8/10/07
DATE

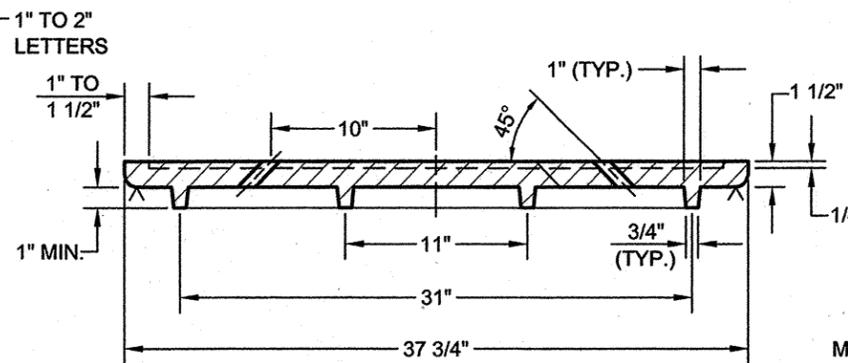
CITY OF NEW YORK
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
**STANDARD FOR 36" DIAMETER
 MANHOLE FRAME AND COVER FOR CLEANOUT**



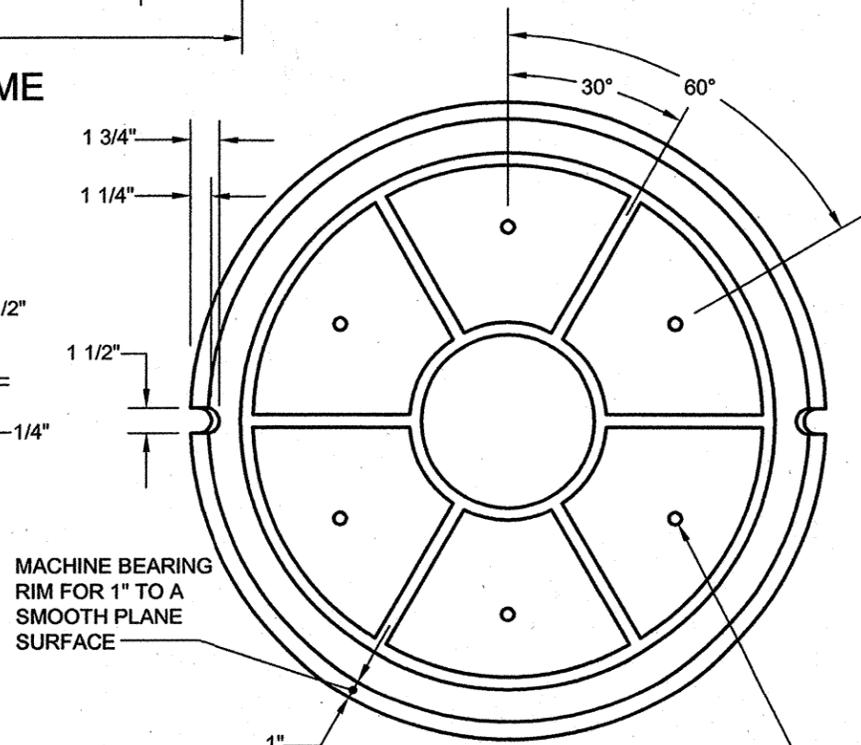
PLAN VIEW OF FRAME AND COVER



SECTION OF FRAME



SECTION OF COVER



BOTTOM VIEW OF COVER

NOTES:

- (1) FRAME MATERIAL: GRAY CAST IRON ASTM A-48 CLASS 35B. MINIMUM WEIGHT OF FRAME IS 480 LBS.
- (2) COVER MATERIAL: GRAY CAST IRON ASTM A-48 CLASS 35B. MINIMUM WEIGHT OF COVER IS 400 LBS.
- (3) DESIGN LOADING: HS20-44 HIGHWAY LOADING.
- (4) ALL MANHOLE FRAMES & COVERS SHALL HAVE THE MANUFACTURER'S IDENTIFICATION, CAST DATE OR HEAT NUMBER AND COUNTRY OF ORIGIN INTEGRALLY CAST ON INDIVIDUAL PIECES AT THE TIME OF MANUFACTURE IN ACCORDANCE WITH THE DEP SPECIFICATION.

REVISED DECEMBER 2006: L. ADRIEN

Gudis S. Saini
 ASSISTANT COMMISSIONER, DESIGN
 DEPARTMENT OF DESIGN AND CONSTRUCTION

P.E.

9/15/08
 DATE

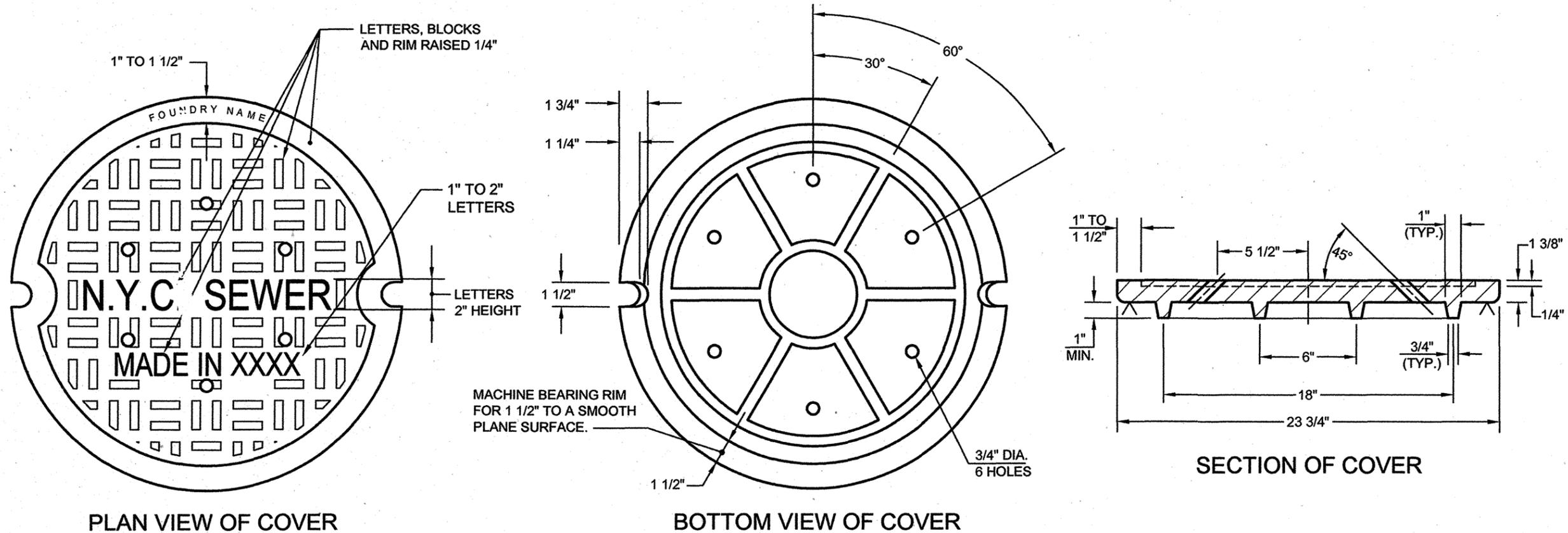
Maeedi Javed
 DIRECTOR OF ENGINEERING
 DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.E.

9/15/08
 DATE

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STANDARD FOR 24" DIAMETER CAST IRON MANHOLE COVER



NOTES:

- (1) COVER MATERIAL: GRAY CAST IRON ASTM A-48 CLASS 35B. MINIMUM WEIGHT OF COVER IS 130 LBS.
- (2) DESIGN LOADING: HS20-44 HIGHWAY LOADING.
- (3) ALL MANHOLE COVERS SHALL HAVE THE MANUFACTURER'S IDENTIFICATION, CAST DATE OR HEAT NUMBER AND COUNTRY OF ORIGIN INTEGRALLY CAST ON INDIVIDUAL PIECES AT THE TIME OF MANUFACTURE IN ACCORDANCE WITH THE DEP SPECIFICATION.
- (4) TO BE USED ONLY TO REPLACE BROKEN OR DAMAGED EXISTING 24" DIAMETER SEWER MANHOLE COVER.

REVISED DECEMBER 2006: L. ADRIEN

Gustaf S. Sandoz
P.E.
ASSISTANT COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION

9/15/08
DATE

Maeedi Faruqi
P.E.
DIRECTOR OF ENGINEERING
DEPARTMENT OF ENVIRONMENTAL PROTECTION

9/15/08
DATE