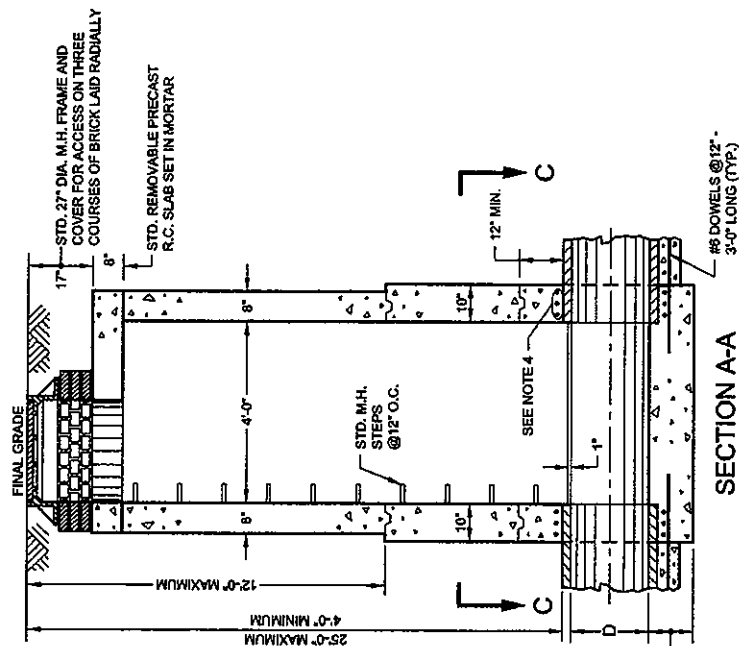
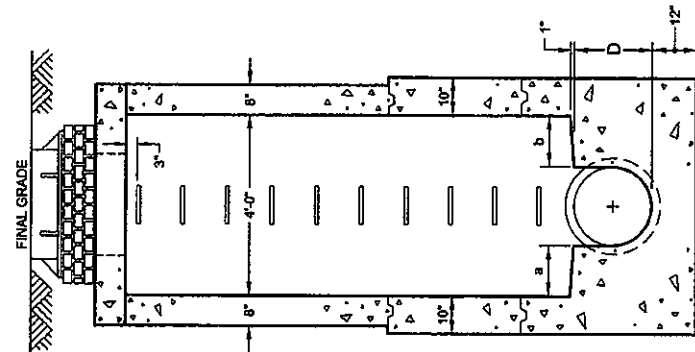


CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STANDARD FOR MANHOLE ON 8" DIA. TO 30" DIA. PIPE SEWERS IN DRY LOCATION
TYPE A-1 (12' MAX. COVER) AND TYPE A-2 (25' MAX. COVER)

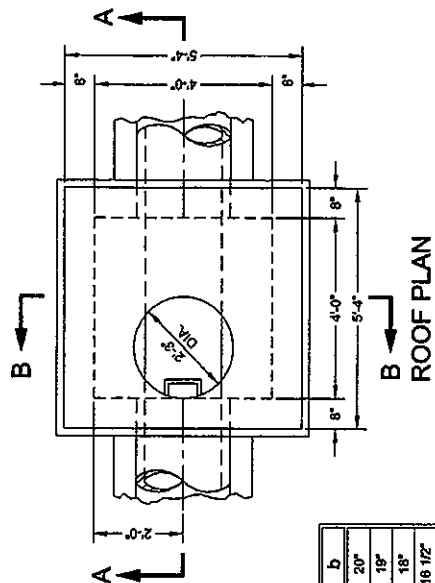


SECTION A-A

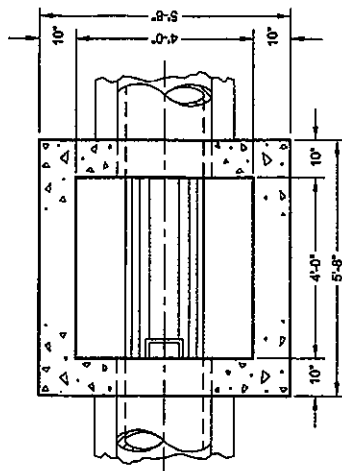


SECTION B-B

D	a	b
8"	20"	20"
10"	19"	18"
12"	18"	18"
15"	16 1/2"	16 1/2"
18"	15"	15"
24"	12"	12"
30"	12"	6"



ROOF PLAN



SECTION C-C

NOTES:

- (1) WHEN LEGAL GRADE IS BELOW FINAL GRADE SEE SEWER STANDARD NO. 38.
- (2) KEVD CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ANY SUCCESSIVE POURS.
- (3) CONCRETE IS TO BE CLASS 40. REBARS-GRADE 60.
- (4) FOR ALL PIPE SEWERS EIGHTEEN (18) INCHES IN DIAMETER AND GREATER, ADD 3'-46@3" ABOVE AND BELOW THE PIPE.

Gandip S. Saini

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ASSOCIATE COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION

8/14/18

DATE _____

Thomas Wilson

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**EXECUTIVE DIRECTOR OF ENGINEERING
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

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DATE

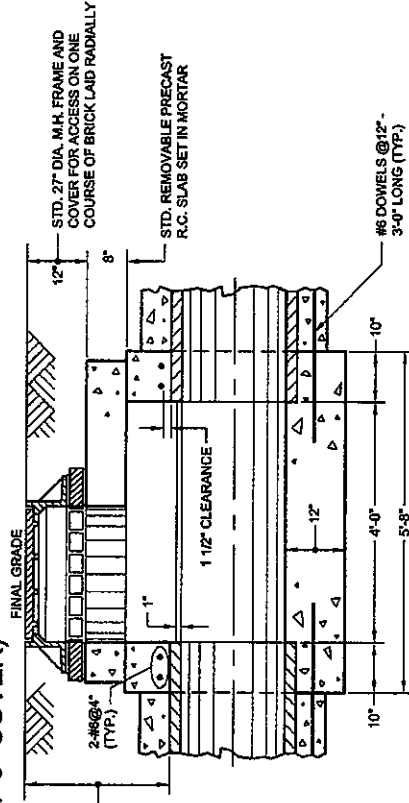
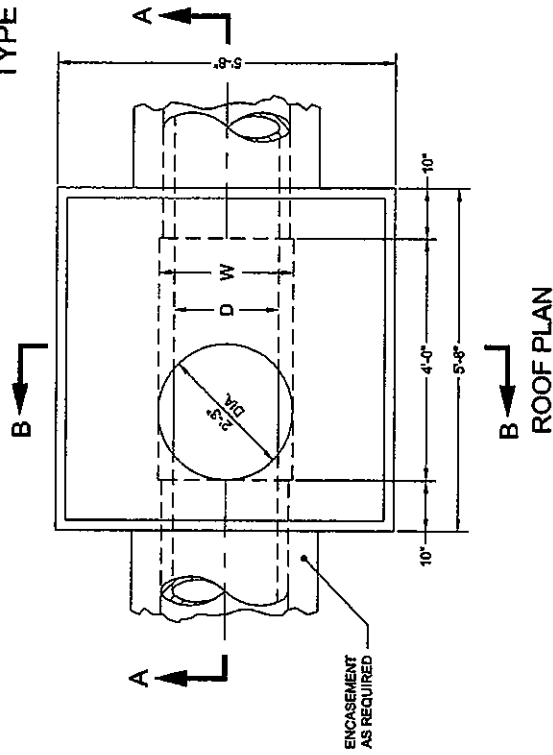
SE13

SE13

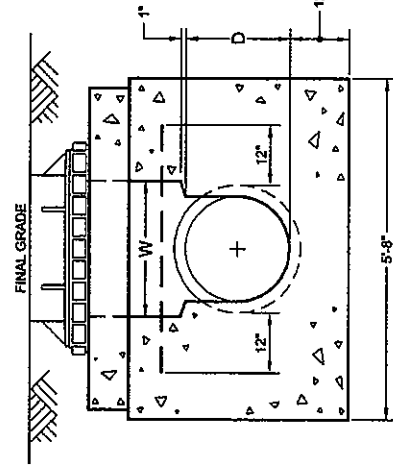
CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STANDARD FOR SHALLOW MANHOLE
ON 8" DIA. TO 30" DIA. PIPE SEWERS

TYPE A-3 (LESS THAN 4'-0" COVER)



SECTION A-A



SECTION B-B

D	W
8"-24"	27"
30"	30"

NOTES:

- (1) WHEN PILES ARE REQUIRED, REFER TO STANDARD MANHOLE TYPE A-2 FOR PILE DETAILS.
- (2) CONCRETE IS TO BE CLASS 40, REBARS-GRADE 60.

Sudip S. Saini

ASSOCIATE COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION

P.E.

8/14/18

DATE

Thomas W. Lyons

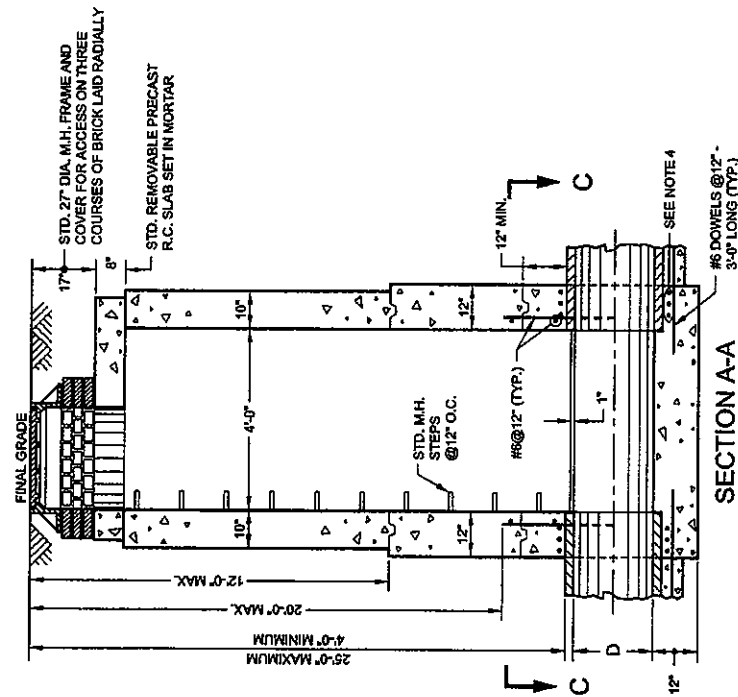
EXECUTIVE DIRECTOR OF ENGINEERING
DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.E.

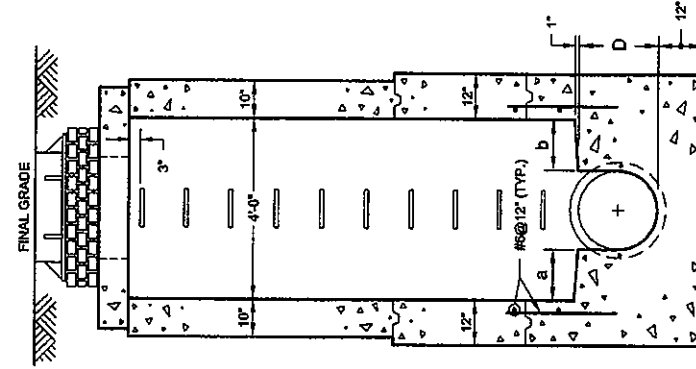
8/14/18

DATE

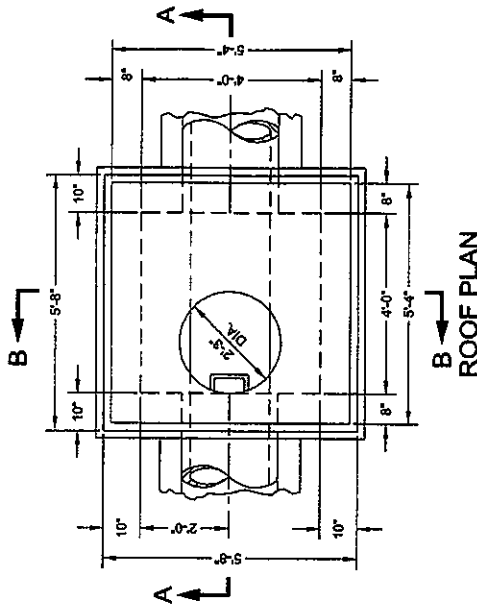
**STANDARD FOR MANHOLE ON 8" DIA. TO 30" DIA. PIPE SEWERS IN WET LOCATION
TYPE B-1 (12' MAX. COVER) AND TYPE B-2 (25' MAX. COVER)**



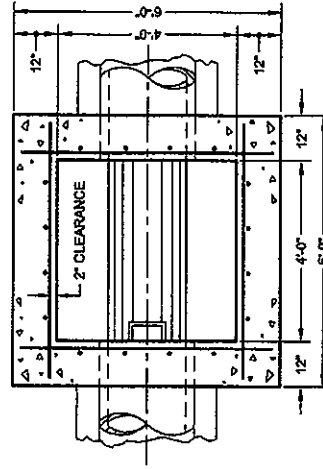
SECTION A-A



SECTION B-B



ROOF PLAN



SECTION C-C

D	a	b
8"	20"	20"
10"	18"	18"
12"	16"	16"
15"	16 1/2"	16 1/2"
18"	15"	15"
24"	12"	12"
30"	12"	6"

- NOTES:**
- (1) WHEN LEGAL GRADE IS BELOW FINAL GRADE SEE SEWER STANDARD NO. 38.
 - (2) KEVED CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ANY SUCCESSIVE POURS.
 - (3) CONCRETE IS TO BE CLASS 40. REBARS- GRADE 60.
 - (4) FOR ALL PIPE SEWERS EIGHTEEN (18) INCHES IN DIAMETER AND GREATER, ADD 3-#6@3" ABOVE AND BELOW THE PIPE.

Sandeep S. Saini
ASSOCIATE COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION

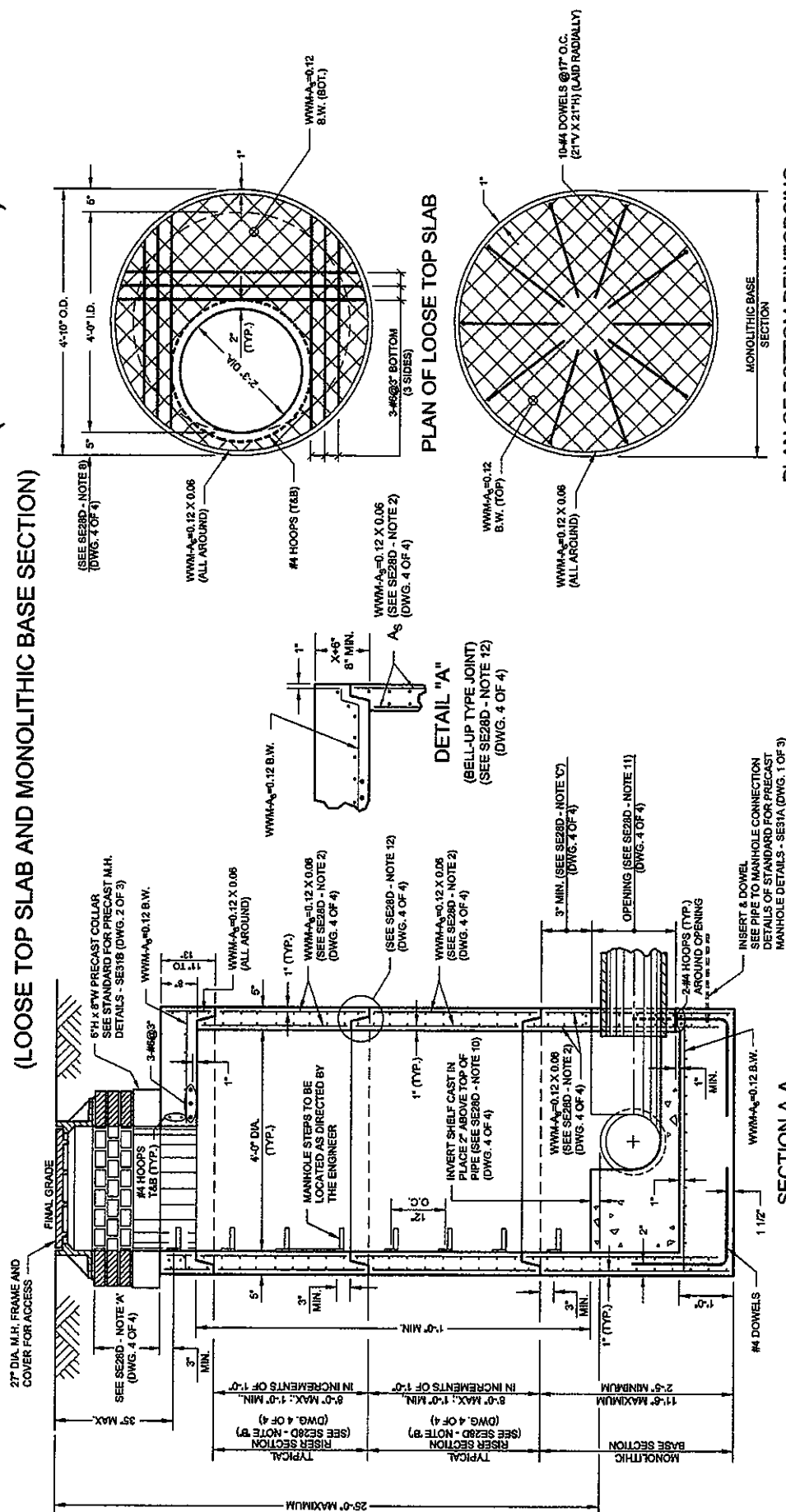
DATE 8/14/18

Thomas Wayne
EXECUTIVE DIRECTOR OF ENGINEERING
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DATE 8/19/18

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION

STANDARD FOR 4'-0" DIAMETER PRECAST MANHOLE (DWG. 1 OF 4)
(LOOSE TOP SLAB AND MONOLITHIC BASE SECTION)



PLAN OF BOTTOM REINFORCING

DATE 8/19/18

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Thomas Wygant
EXECUTIVE DIRECTOR OF ENGINEERING

DATE 8/14/18

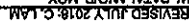
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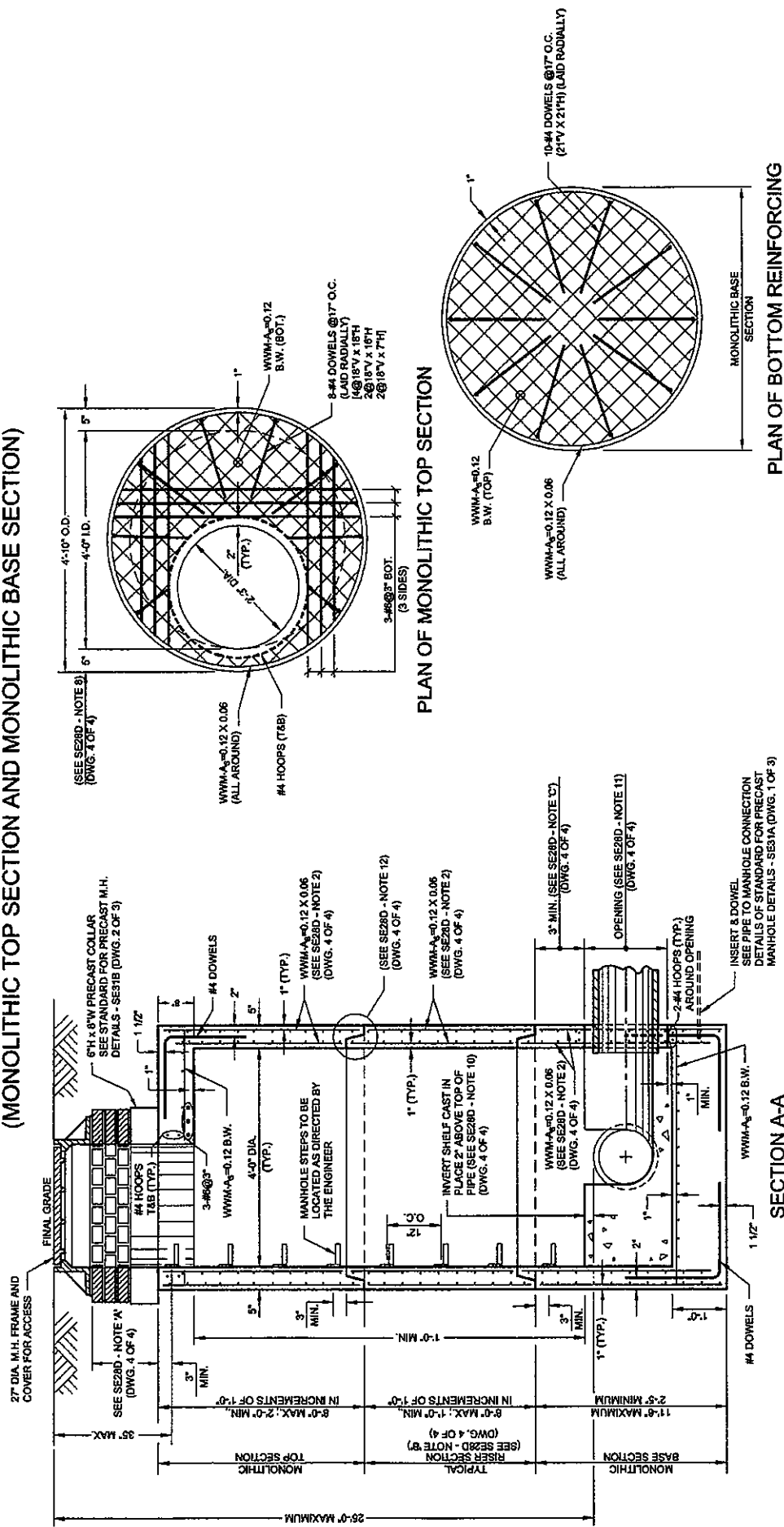
Sandip S. Saini
ASSOCIATE COMMISSIONER, DESIGN

EXECUTIVE DIRECTOR OF ENGINEERING
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DATE _____

ASSOCIATE COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION





SECTION A-A

3114118

Grady S. Searin
ASSOCIATE COMMISSIONER, DESIGN
DEPARTMENT OF DESIGN AND CONSTRUCTION
P.E.

REVISÉD JULY 2018: C.LAM
W. PATALANO/P. MOY