

SEE DETAIL 506S-4A-SM FOR
GRADE RINGS, CONCRETE COLLAR,
AND RING & COVERS

PRECAST SECTION
SPL WW-146
SEE NOTE 4

BACKFILL
PER TRENCH
DETAILS

TYPICAL O-RING
SPL WW-146C

COATING AS
SPECIFIED AFTER
VACUUM TESTING
IS COMPLETED
SEE NOTE 7

CAULK INSIDE
OF ALL JOINTS

DROP BOWL

4' MIN.

MANHOLE REHAB
SPL 511A
STARTING POINT
SEE NOTE 7

NON-SHRINK
GROUT

12

1

SEE NOTE 6

CUT V NOTCH ON BOTTOM OF
PIPE FROM WALL TO
BOWL TO HELP FLOW

STD. PIPE TO MH
CONNECTOR SPL
WW-146D ALL WALL
PENETRATIONS TYP.

USE THE SAME PIPE
MATERIAL AS LINE
BEING CONSTRUCTED.

STAINLESS STEEL WITH
GASKET COUPLING BAND
CONNECTOR

STAINLESS STEEL PIPE
STRAPS ANCHORED IN CONCRETE
WALL AT 4" MAX. SPACING WITH
MIN. OF 2 PER PIPE JOINT

90° LONG BEND TO BE PLACE LEVELED
WITH BOTTOM OF INVERTED U CHANNEL

MAX. 8'
MIN. 18"

DEPTH AS SHOWN ON THE PLANS

MIN. MANHOLE DIAMETER	
PIPE SIZE	MIN. DIA.
LESS THAN 18"	5'-0"
18" - 24"	5'-0"
30" - 36"	6'-0"
GREATER THAN 36"	7'-0"

NOTES: THESE ARE MINIMUMS. DIAMETER
SIZE MAY INCREASE DEPENDING ON
NUMBER OF CONNECTIONS NEEDED.
(DROP DOWN PIPE WILL BE A MINIMUM OF
4 FEET FROM MANHOLE WALL OPPOSITE
OF IT'S PLACEMENT.)

1" NON-SHRINK GROUT
CONTINUOUS ALONG
MANHOLE BASE JOINT

6"

ASTM C33 EMBEDMENT
SIZE NO. 57 OR
SIZE NO. 67

#5 RING

2'

6" MIN.
2' MAX.

5 at 12" ON
CENTER VERTICAL

3,000 P.S.I. CONCRETE

3" CLR.
TYPICAL

SECTION A-A

NOTES:

1. SEE PLANS FOR MANHOLE LOCATION, CONFIGURATION, PIPE SIZES AND TYPES.
2. SEE SPECIFICATIONS ON MATERIALS AND CONSTRUCTION.
3. MONOLITHIC MANHOLE TO BE CAST-IN-PLACE SHALL CONFORM TO ASTM SPECIFICATION C478 FOR MATERIALS AND DESIGN. MANUFACTURER TO PROVIDE DETAILS.
4. MANHOLES FOR MAINS 24" AND LARGER SHALL HAVE ECCENTRIC RISER SECTIONS.
5. IF IN 100 YEAR FLOOD PLAIN USE MANHOLE COVER DETAIL 503S-5W-SM (BOLTED)
6. DEPTH OF U CHANNEL WILL BE 3/4 THE DIAMETER OF PIPES 24" OR LESS AND WILL BE THE DIAMETER OF PIPES GREATER THEN 24"
7. MANHOLE COATING LIMITS - COAT ALL OF THE MANHOLE WALLS
AT TOP OF MANHOLE: SEE DETAIL 506S-4A-SM FOR END LOCATION AT GRADE RINGS
AT BOTTOM OF MANHOLE:

NEW MANHOLES - COAT PER SPL 511; INCLUDING THE BOTTOM AND INVERT

MANHOLE REHABILITATION - COAT PER SPL 511A; EXCLUDING THE BOTTOM AND INVERT

The City of San Marcos
Engineering and Capital Improvements

**PRE-CAST INSIDE DROP SANITARY
SEWER MANHOLE**

RECORD COPY SIGNED BY 6/1/2018

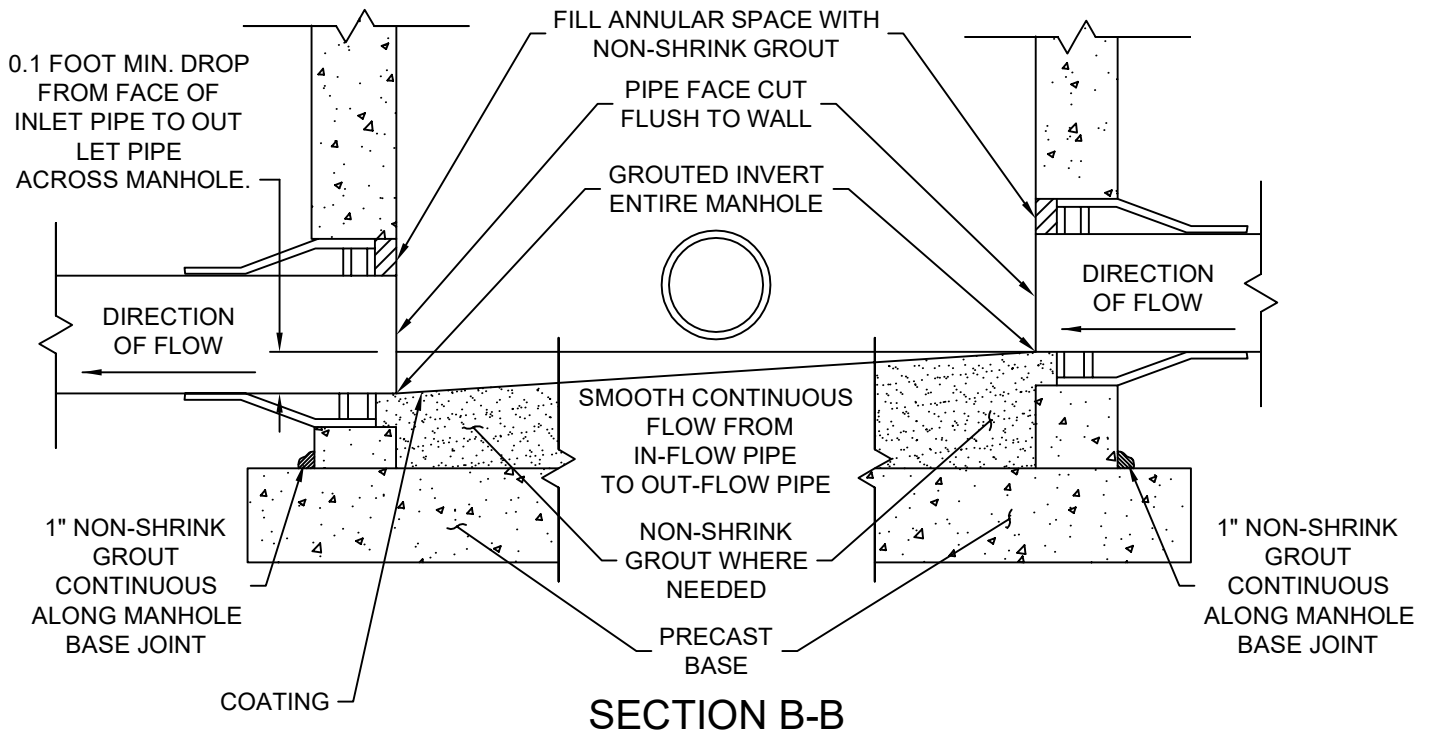
Laurie Moyer, P.E. ADOPTED

THE ARCHITECT/ENGINEER ASSUMES
RESPONSIBILITY FOR APPROPRIATE USE
OF THIS STANDARD.

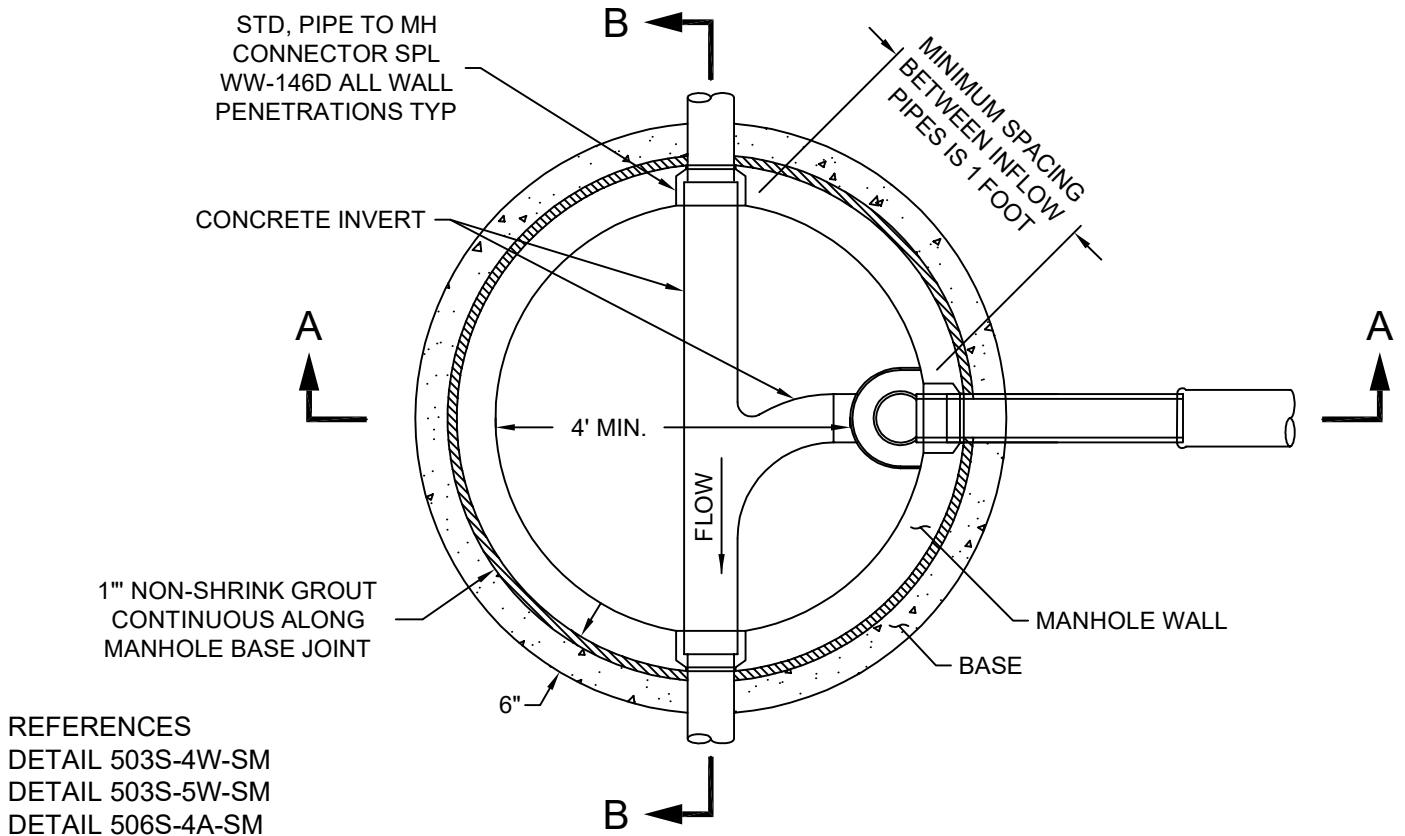
STANDARD NO.
506S-8A-SM

1 OF 2

INVERT DETAIL



INVERT PLAN VIEW



REFERENCES
 DETAIL 503S-4W-SM
 DETAIL 503S-5W-SM
 DETAIL 506S-4A-SM

The City of San Marcos Engineering and Capital Improvements		PRE-CAST INSIDE DROP SANITARY SEWER MANHOLE	
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LAURIE MOYER, P.E.	ADOPTED		2 OF 2