



SANITARY SEWER

Construction

Standards

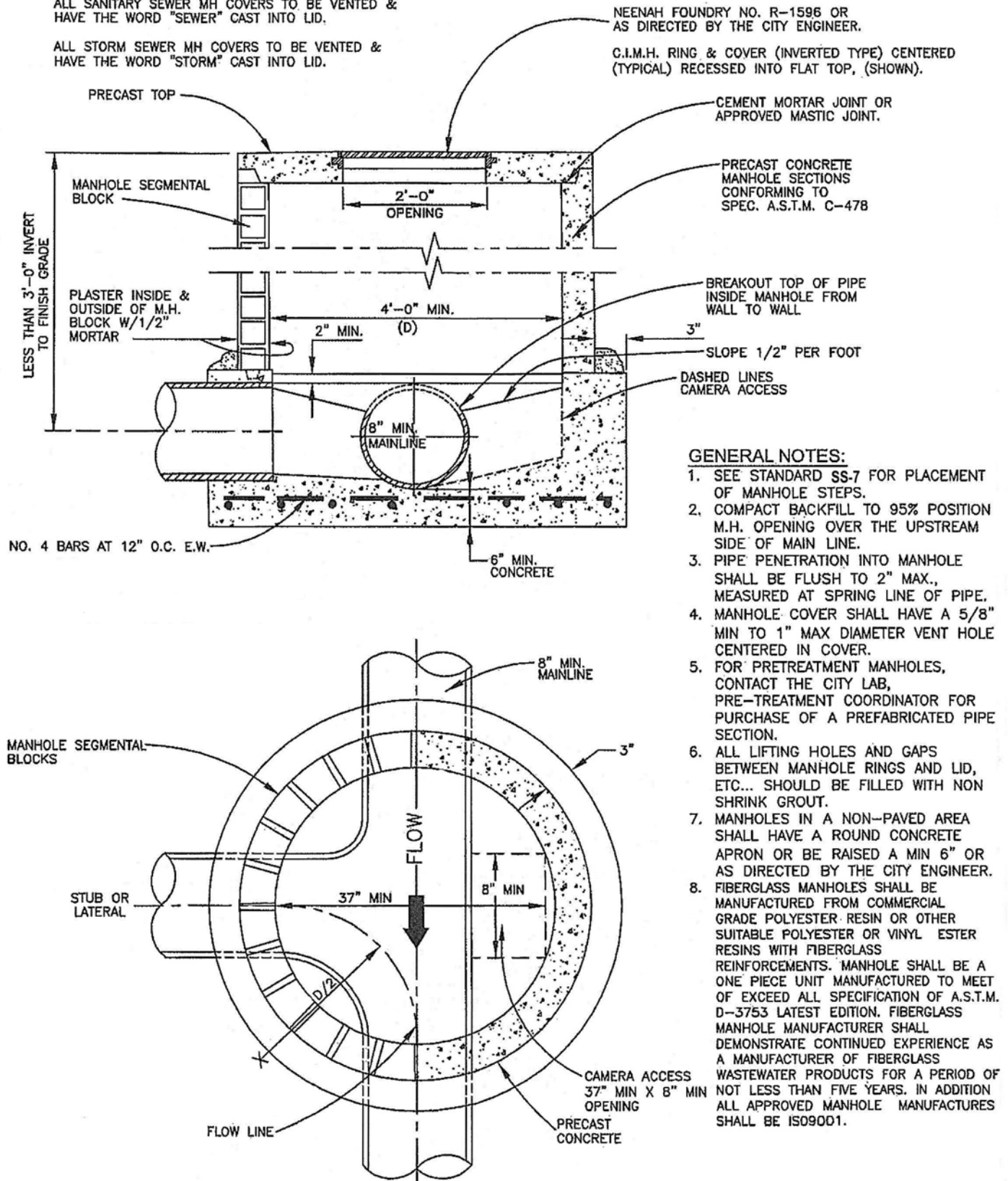
SHEET INDEX

Sheet #	Title
SS-1	Shallow Manhole Type "A"
SS-2	Shallow Manhole Type "B"
SS-3	Drop Manhole Type "D"
SS-4	Standard Manhole Type "E"
SS-5	Sewer Service at Dead Ends and Cul-De-Sac
SS-6	Manhole Bases
SS-7	Standard Manhole Steps
SS-8	Typical Manhole Cover Raising
SS-9	Tap Saddle Connection
SS-10	Slip Liner Tap Connection
SS-11	Trench Cuts & Widths
SS-12.1	Trench Details 72" O.D. Pipe or Less
SS-12.2	Trench Details Pipe Over 72" O.D.
SS-12.3	Trench Pay Width
SS-12.4	Trench Details
SS-13	Approximate Angle of Repose for Sloping Sides of Excavations
SS-14	Sewer Service Location
SS-15	Sanitary Sewer Mains
SS-16	Typical Sanitary Sewer Air Relief Detail
SS-17	Pressure Sanitary Sewer Cleanout Detail
SS-18.1	1-½" Pressure Sanitary Sewer Lateral Detail
SS-18.2	2" Pressure Sanitary Sewer Lateral Detail

NOTES

ALL SANITARY SEWER MH COVERS TO BE VENTED & HAVE THE WORD "SEWER" CAST INTO LID.

ALL STORM SEWER MH COVERS TO BE VENTED & HAVE THE WORD "STORM" CAST INTO LID.



GENERAL NOTES:

1. SEE STANDARD SS-7 FOR PLACEMENT OF MANHOLE STEPS.
2. COMPACT BACKFILL TO 95% POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
3. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
4. MANHOLE COVER SHALL HAVE A 5/8" MIN TO 1" MAX DIAMETER VENT HOLE CENTERED IN COVER.
5. FOR PRETREATMENT MANHOLES, CONTACT THE CITY LAB, PRE-TREATMENT COORDINATOR FOR PURCHASE OF A PREFABRICATED PIPE SECTION.
6. ALL LIFTING HOLES AND GAPS BETWEEN MANHOLE RINGS AND LID, ETC... SHOULD BE FILLED WITH NON SHRINK GROUT.
7. MANHOLES IN A NON-PAVED AREA SHALL HAVE A ROUND CONCRETE APRON OR BE RAISED A MIN 6" OR AS DIRECTED BY THE CITY ENGINEER.
8. FIBERGLASS MANHOLES SHALL BE MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR OTHER SUITABLE POLYESTER OR VINYL ESTER RESINS WITH FIBERGLASS REINFORCEMENTS. MANHOLE SHALL BE A ONE PIECE UNIT MANUFACTURED TO MEET OF EXCEED ALL SPECIFICATION OF A.S.T.M. D-3753 LATEST EDITION. FIBERGLASS MANHOLE MANUFACTURER SHALL DEMONSTRATE CONTINUED EXPERIENCE AS A MANUFACTURER OF FIBERGLASS WASTEWATER PRODUCTS FOR A PERIOD OF NOT LESS THAN FIVE YEARS. IN ADDITION ALL APPROVED MANHOLE MANUFACTURES SHALL BE ISO9001.



City of Aztec
Public Works
Department

SHALLOW MANHOLE TYPE "A"

CONSTRUCTION STANDARDS

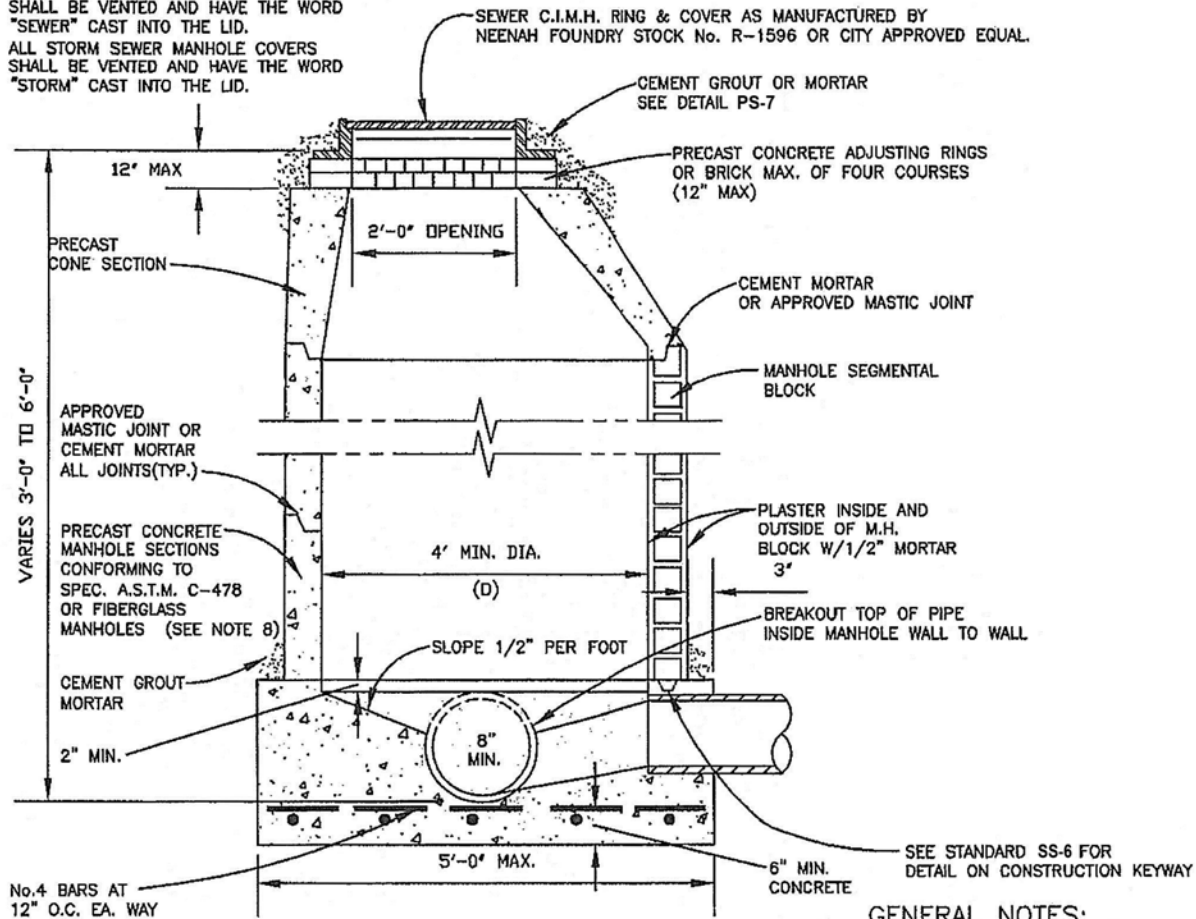
STANDARD NO. SS-1

SHEET 1 OF 1

APP'D R. Salcido
DATE Oct. 11, 2023

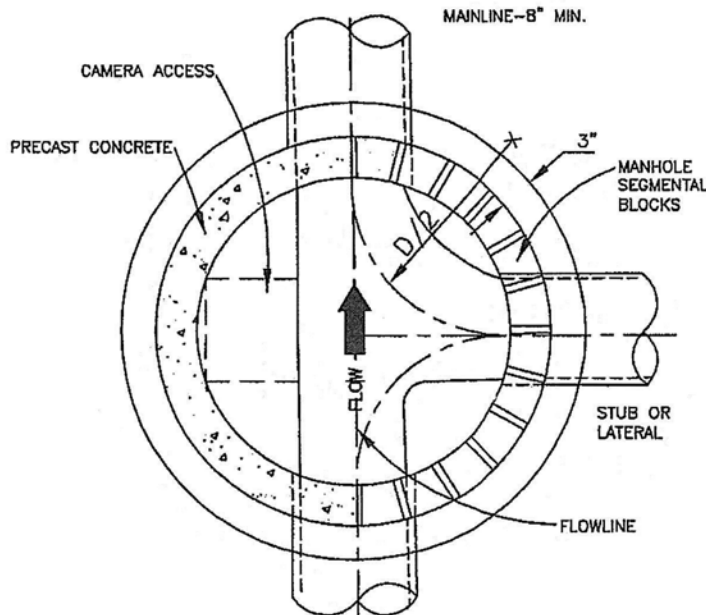
NOTE:

- 1) ALL SANITARY SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "SEWER" CAST INTO THE LID.
- 2) ALL STORM SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "STORM" CAST INTO THE LID.



GENERAL NOTES:

1. COMPACT BACKFILL TO 95%
2. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
3. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
4. MANHOLE COVER SHALL HAVE A 5/8" MIN TO 1" MAX DIAMETER VENT HOLE CENTERED IN COVER.
5. FOR PRETREATMENT MANHOLES, CONTACT THE CITY LAB, PRE-TREATMENT COORDINATOR FOR PURCHASE OF A PREFABRICATED PIPE SECTION.
6. ALL LIFTING HOLES AND GAPS BETWEEN MANHOLE RINGS AND LID, ETC... SHOULD BE FILLED WITH NON SHRINK GROUT.
7. MANHOLES IN A NON-PAVED AREA SHALL HAVE A ROUND CONCRETE APRON OR BE RAISED A MIN. 6" OR AS DIRECTED BY THE CITY ENGINEER.
8. FIBERGLASS MANHOLES SHALL BE MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR OTHER SUITABLE POLYESTER OR VINYL ESTER RESINS WITH FIBERGLASS REINFORCEMENTS. MANHOLE SHALL BE A ONE PIECE UNIT MANUFACTURED TO MEET OR EXCEED ALL SPECIFICATION OF A.S.T.M. D-3753 LATEST EDITION. FIBERGLASS MANHOLE MANUFACTURER SHALL DEMONSTRATE CONTINUED EXPERIENCE AS A MANUFACTURER OF FIBERGLASS WASTEWATER PRODUCTS FOR A PERIOD OF NOT LESS THAN FIVE YEARS. IN ADDITION ALL APPROVED MANHOLE MANUFACTURERS SHALL BE ISO9001.



City of Aztec
Public Works
Department

SHALLOW MANHOLE TYPE "B"

CONSTRUCTION STANDARDS

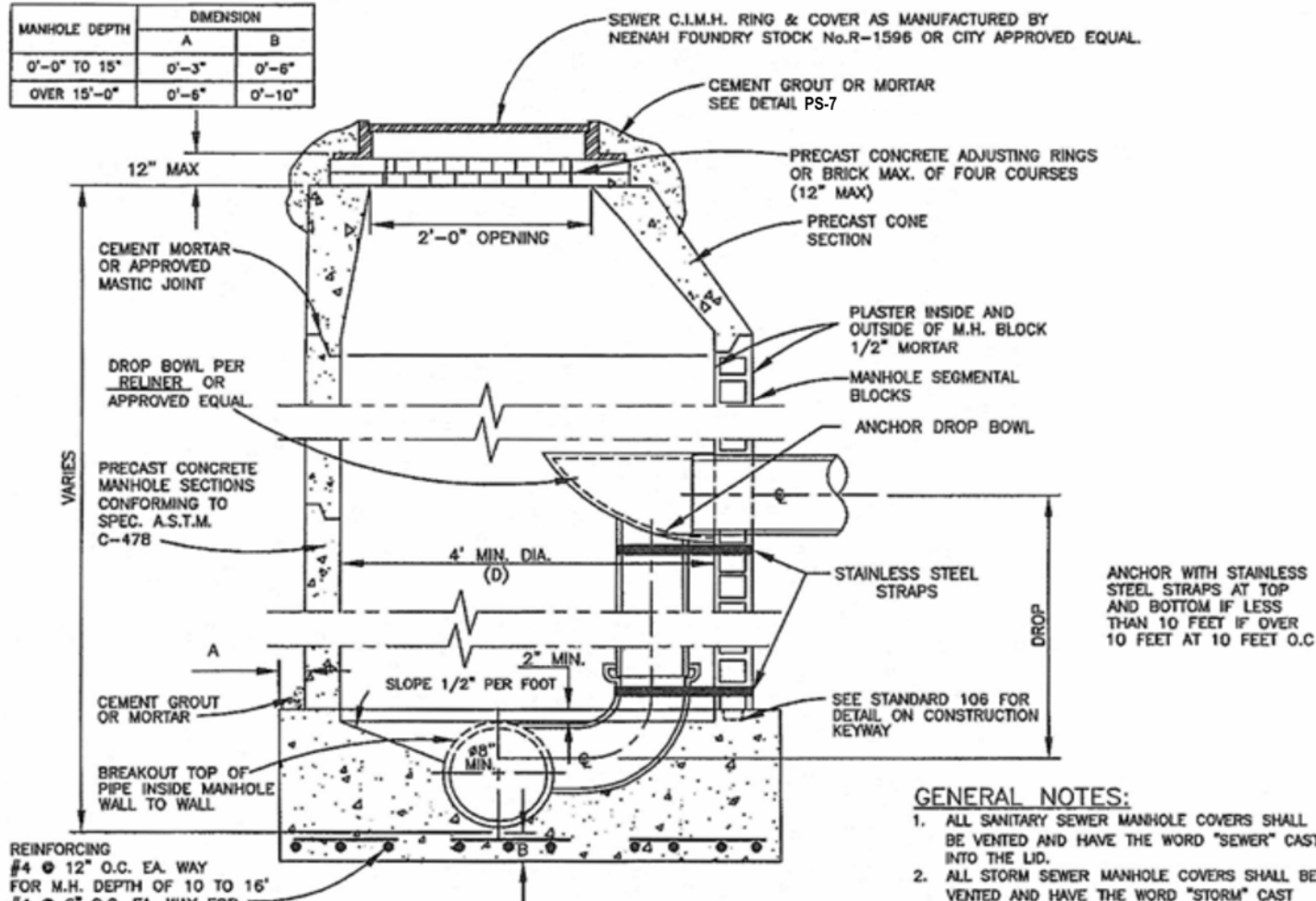
STANDARD NO. SS-2

SHEET 1 OF 1

APP'D R. Salcido

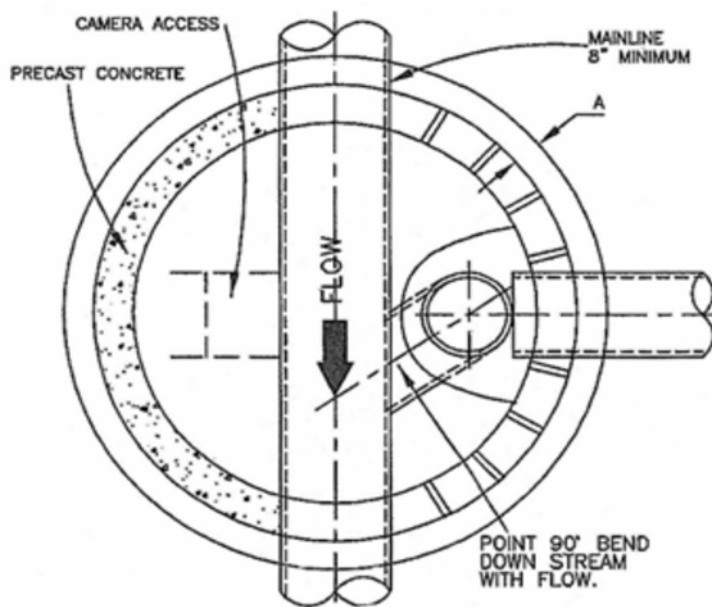
DATE Oct. 11, 2023

MANHOLE DEPTH	DIMENSION	
	A	B
0'-0" TO 15'	0'-3"	0'-6"
OVER 15'-0"	0'-6"	0'-10"



GENERAL NOTES:

1. ALL SANITARY SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "SEWER" CAST INTO THE LID.
2. ALL STORM SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "STORM" CAST INTO THE LID.
3. COMPACT BACKFILL TO 95% OF MODIFIED PROCTOR.
4. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF LINE.
5. PIPE PENETRATION INTO M.H. SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
6. MANHOLE COVER SHALL HAVE A 5/8" MIN TO 1" MAX DIAMETER VENT HOLE CENTERED IN COVER.
7. DROP DISTANCE VARIES.
8. ALL LIFTING HOLES AND GAPS BETWEEN MANHOLE RINGS AND LID, ETC., SHOULD BE FILLED WITH NON SHRINK GROUT.
9. MANHOLES IN A NON-PAVED AREA SHALL HAVE A 2FT CONCRETE APRON AROUND LID (SEE DETAIL) OR BE RAISED A MIN. 6" OR AS DIRECTED BY THE CITY ENGINEER.
10. FIBERGLASS MANHOLES SHALL BE MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR OTHER SUITABLE POLYESTER OR VINYL ESTER RESINS WITH FIBERGLASS REINFORCEMENTS. MANHOLE SHALL BE A ONE PIECE UNIT MANUFACTURED TO MEET OF EXCEED ALL SPECIFICATION OF A.S.T.M. D-3753 LATEST EDITION. FIBERGLASS MANHOLE MANUFACTURER SHALL DEMONSTRATE CONTINUED EXPERIENCE AS A MANUFACTURER OF FIBERGLASS WASTEWATER PRODUCTS FOR A PERIOD OF NOT LESS THAN FIVE YEARS. IN ADDITION ALL APPROVED MANHOLE MANUFACTURES SHALL BE ISO9001.
11. SEE STANDARD SS-7 FOR PLACEMENT OF MANHOLE STEPS.



DROP MANHOLE TYPE "D"

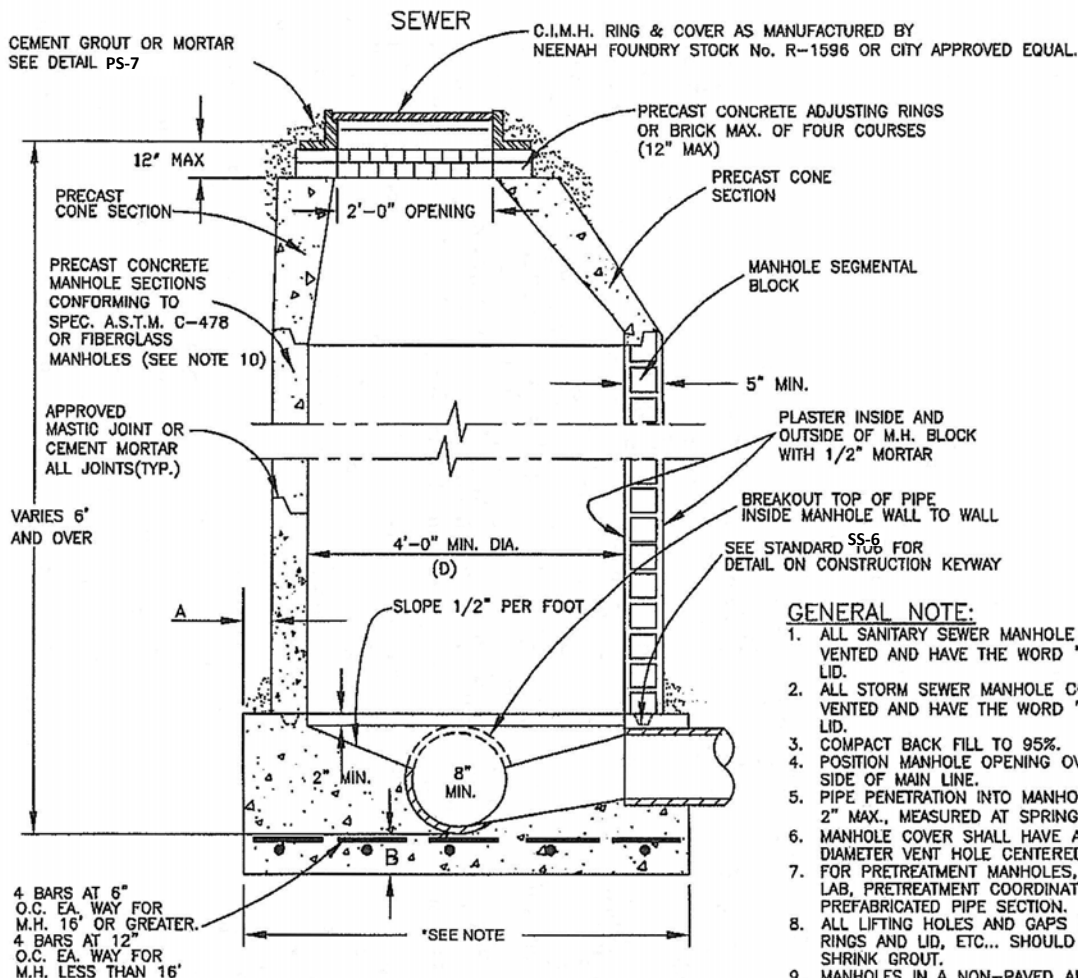
CONSTRUCTION STANDARDS

STANDARD NO. SS-3

SHEET 1 OF 1

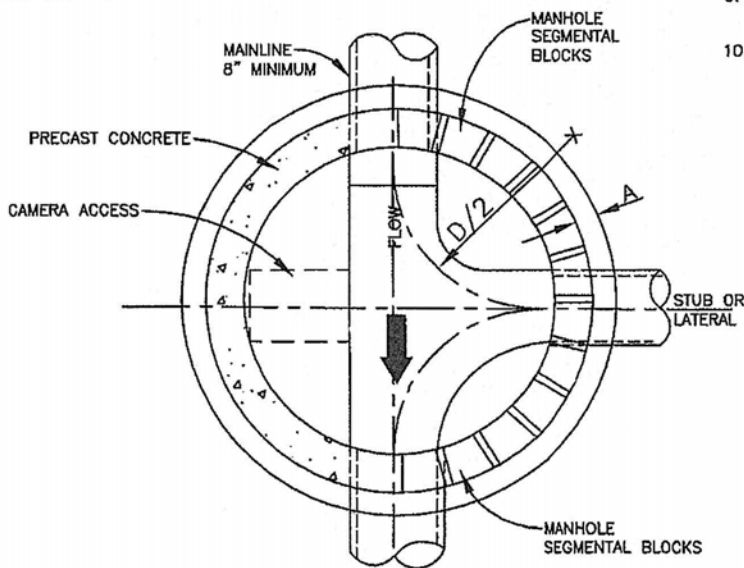
APP'D R. Salcido

DATE Oct. 11, 2023



GENERAL NOTE:

1. ALL SANITARY SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "SEWER" CAST INTO THE LID.
2. ALL STORM SEWER MANHOLE COVERS SHALL BE VENTED AND HAVE THE WORD "STORM" CAST INTO THE LID.
3. COMPACT BACK FILL TO 95%.
4. POSITION MANHOLE OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.
5. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRING LINE OF PIPE.
6. MANHOLE COVER SHALL HAVE A 5/8" MIN. TO 1" MAX. DIAMETER VENT HOLE CENTERED IN COVER.
7. FOR PRETREATMENT MANHOLES, CONTACT THE CITY LAB, PRETREATMENT COORDINATOR FOR PURCHASE OF PREFABRICATED PIPE SECTION.
8. ALL LIFTING HOLES AND GAPS BETWEEN MANHOLE RINGS AND LID, ETC... SHOULD BE FILLED WITH NON SHRINK GROUT.
9. MANHOLES IN A NON-PAVED AREA SHALL HAVE ROUND CONCRETE APRON OR BE RAISED A MIN. 6" OR AS DIRECTED BY THE CITY ENGINEER.
10. FIBERGLASS MANHOLES SHALL BE MANUFACTURED FROM COMMERCIAL GRADE POLYESTER RESIN OR OTHER SUITABLE POLYESTER OR VINYL ESTER RESINS WITH FIBERGLASS REINFORCEMENTS. MANHOLE SHALL BE A ONE PIECE UNIT MANUFACTURED TO MEET OR EXCEED ALL SPECIFICATIONS OF A.S.T.M. D-3753 LATEST EDITION. FIBERGLASS MANHOLE MANUFACTURER SHALL DEMONSTRATE CONTINUED EXPERIENCE AS A MANUFACTURER OF FIBERGLASS WASTEWATER PRODUCTS FOR A PERIOD OF NOT LESS THAN FIVE YEARS. IN ADDITION, ALL APPROVED MANHOLE MANUFACTURERS SHALL BE ISO9001 REGISTERED.



MANHOLE DEPTH	DIMENSION	
	A	B
6' TO 15'	0'-3"	0'-6"
OVER 15'	0'-6"	0'-10"

NOTE:

MAINLINE SIZE	MANHOLE DIMENSION
8" TO 24"	4'-0"



City of Aztec
Public Works
Department

STANDARD MANHOLE TYPE "E"

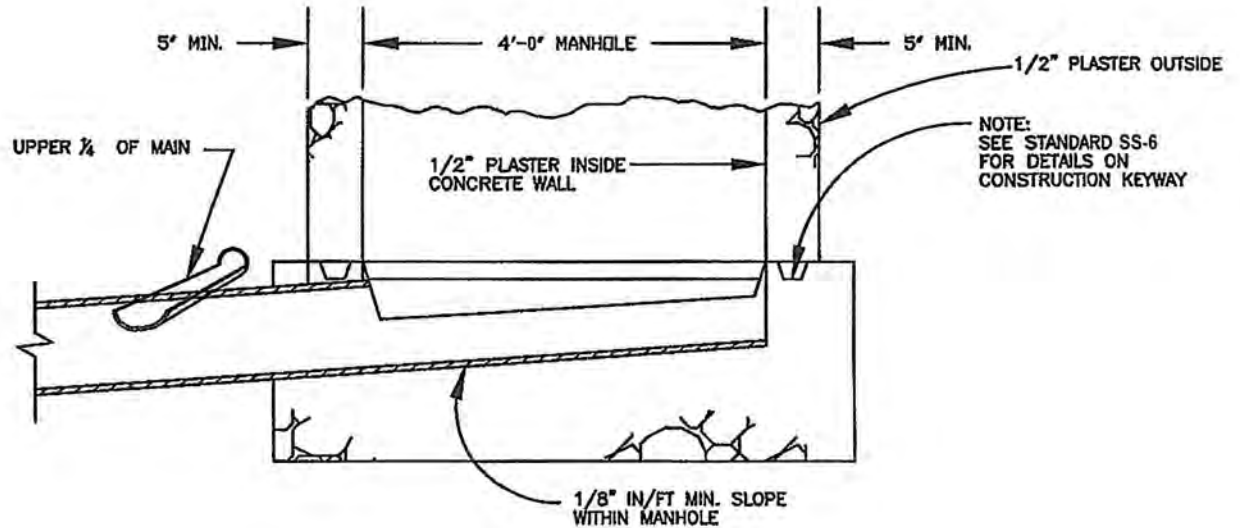
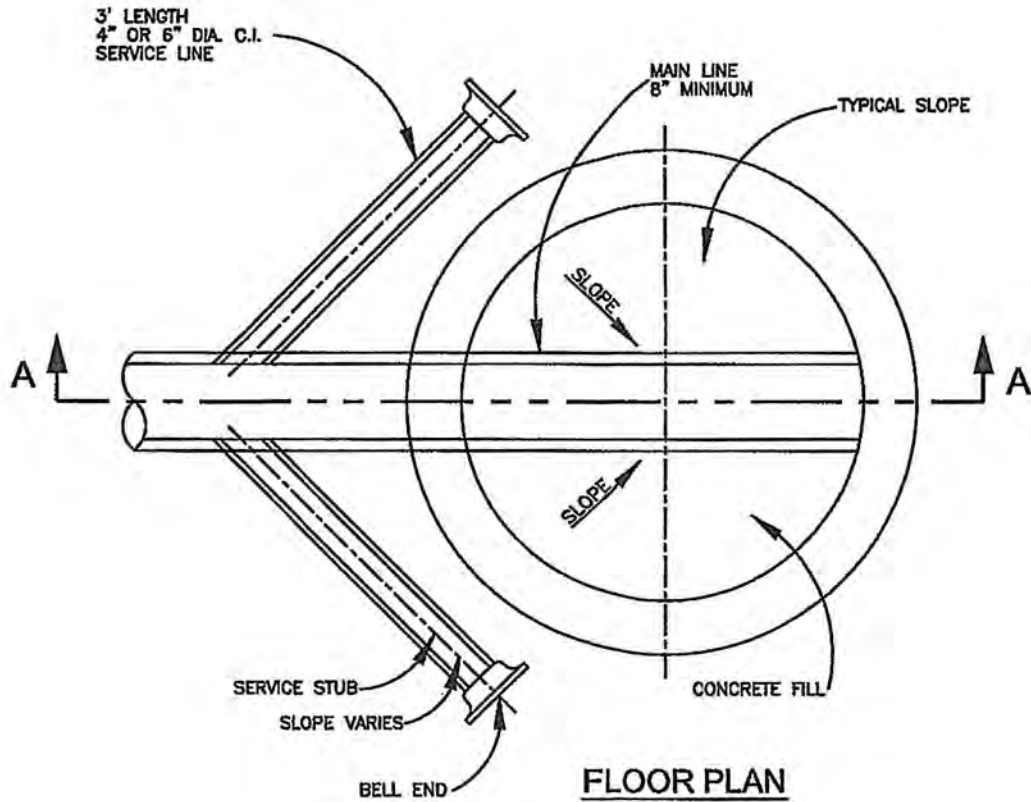
CONSTRUCTION STANDARDS

STANDARD NO. SS-4

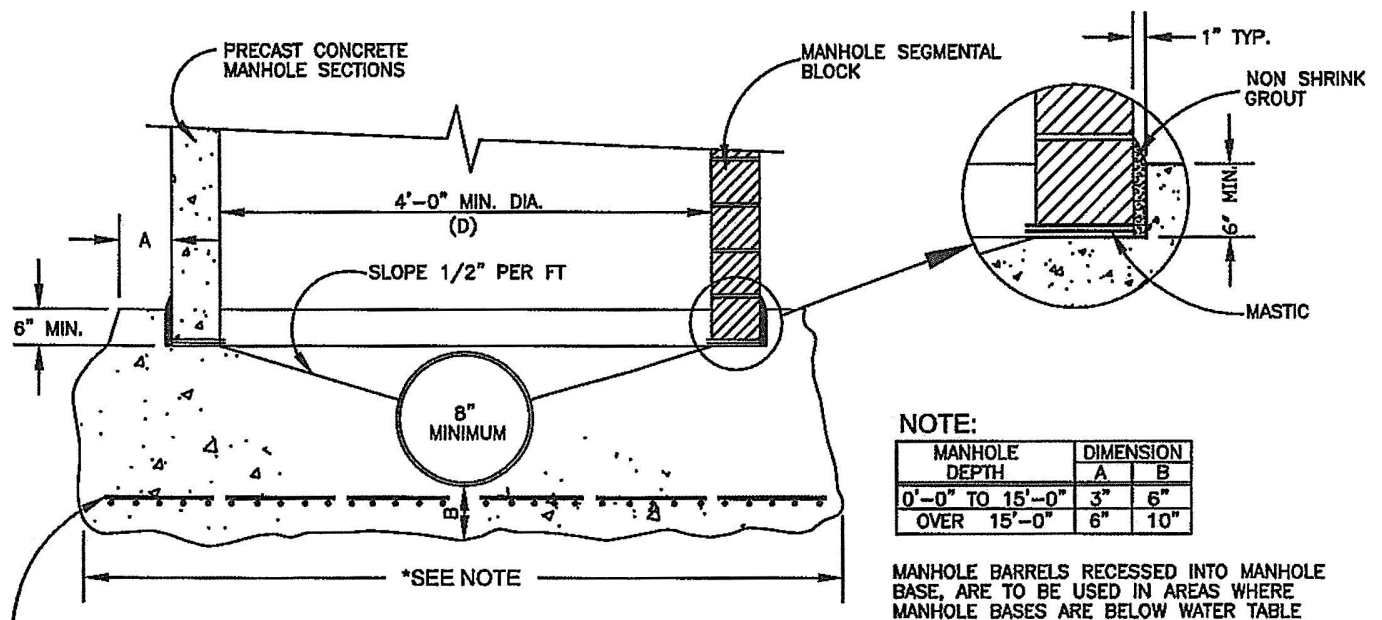
SHEET 1 OF 1

APP'D R. Salcido

DATE Oct. 11, 2023

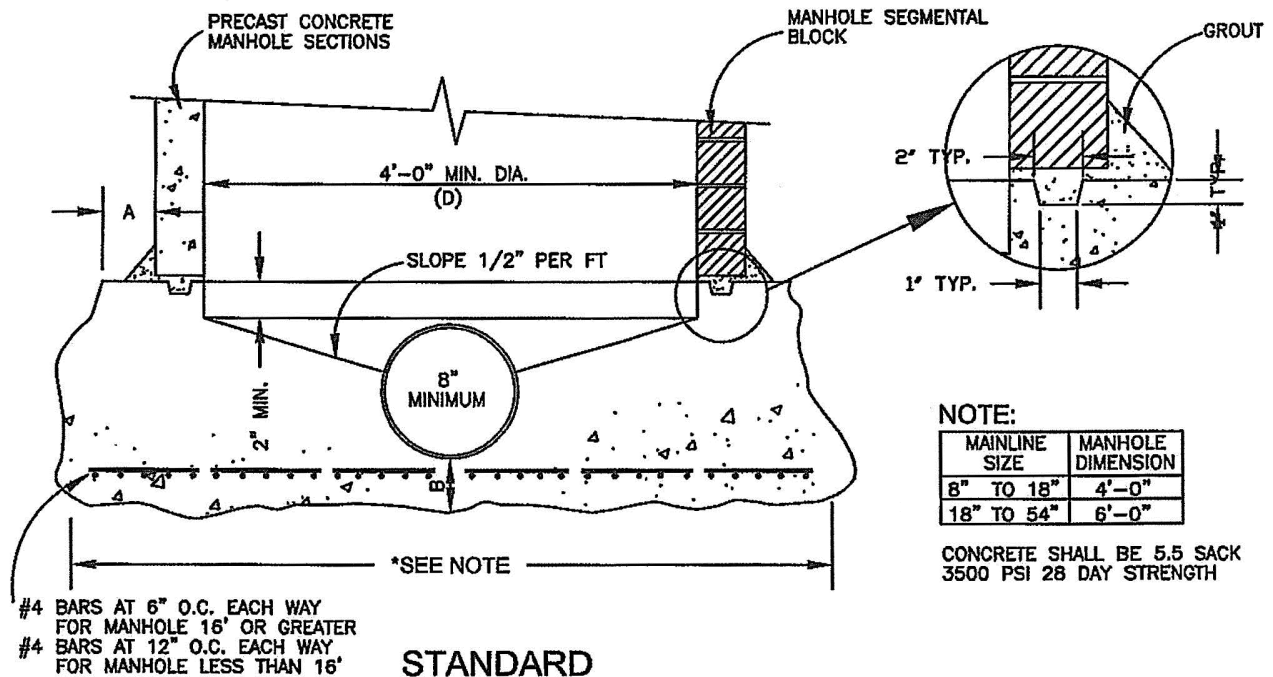


SECTION A-A

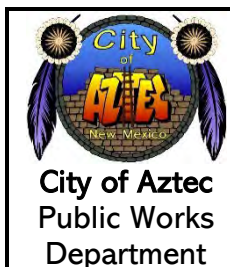


BELOW WATER TABLE

- #4 BARS AT 6" O.C. EACH WAY FOR MANHOLE 16' OR GREATER
- #4 BARS AT 12" O.C. EACH WAY FOR MANHOLE LESS THAN 16'



STANDARD



MANHOLE BASES

CONSTRUCTION STANDARDS

STANDARD NO. SS-6

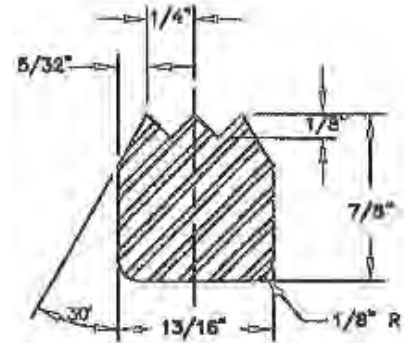
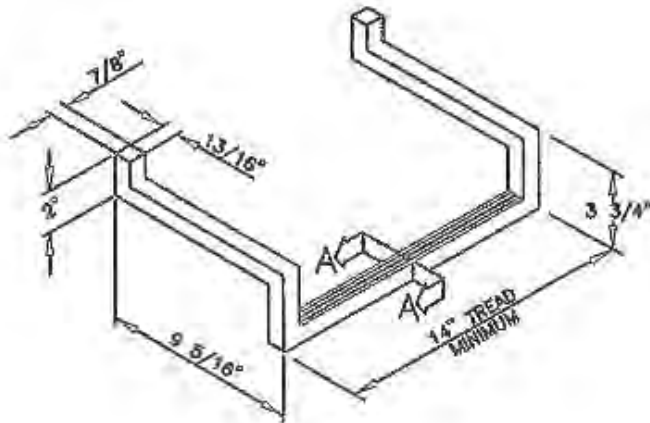
SHEET 1 OF 1

APP'D R. Salcido

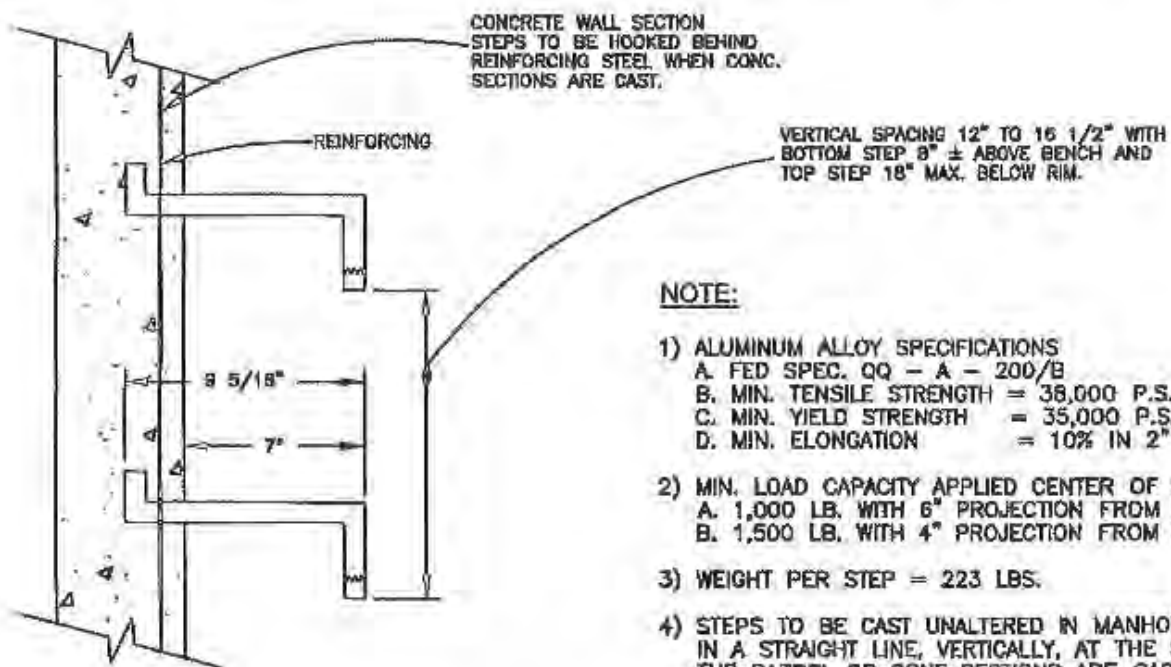
DATE Oct. 11, 2023

NOTE:

STEPS SHALL BE SIMILAR AND EQUAL TO COPOLYMER POLYPROPYLENE PLASTIC EQUAL TO M.A. INDUSTRIES MODEL PS2 - PF.

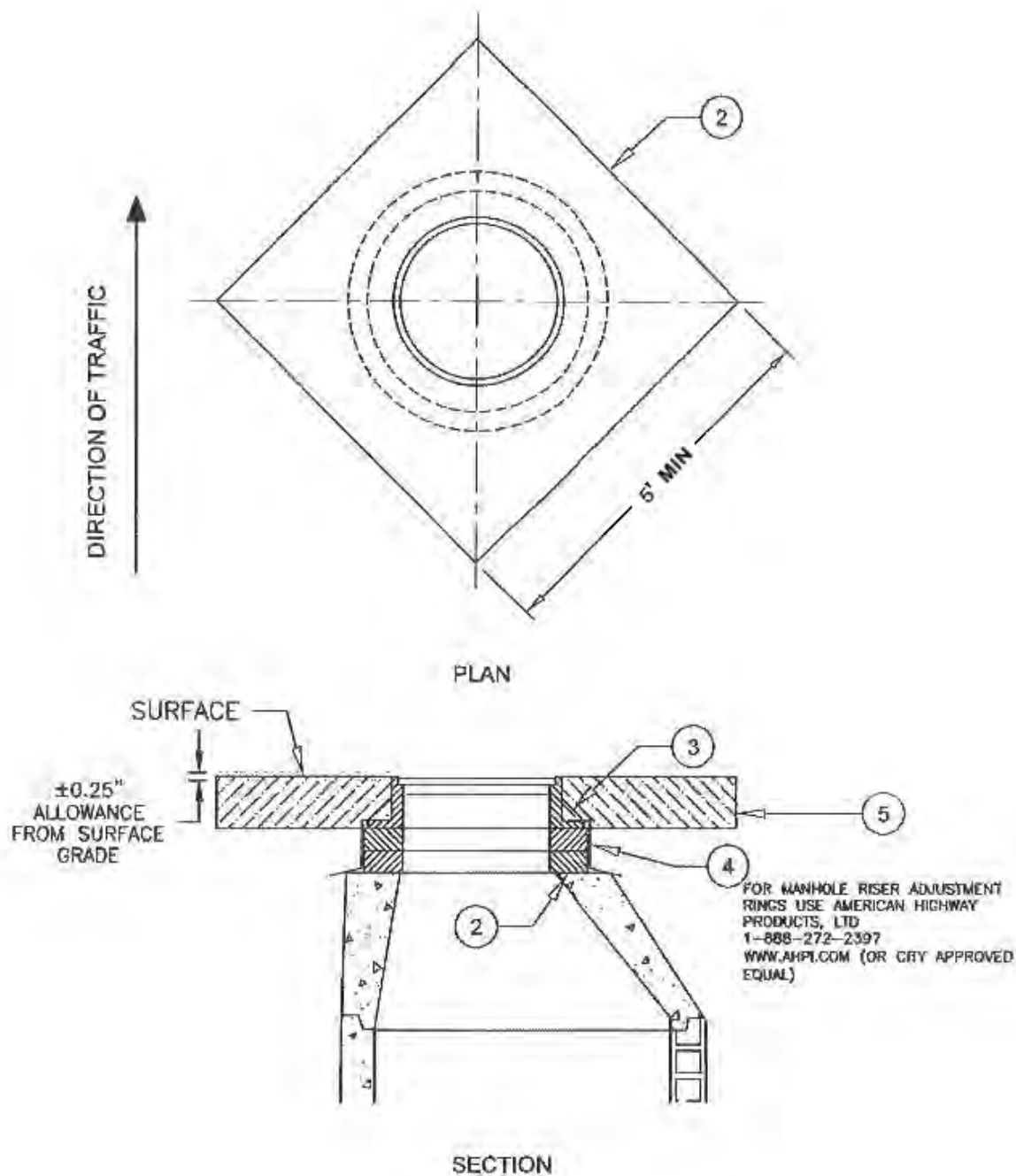


SECTION A-A



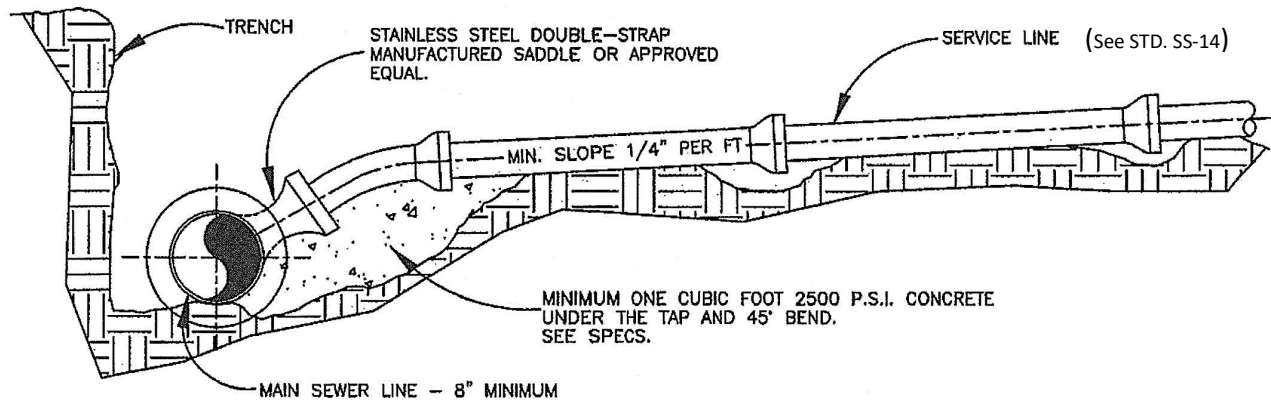
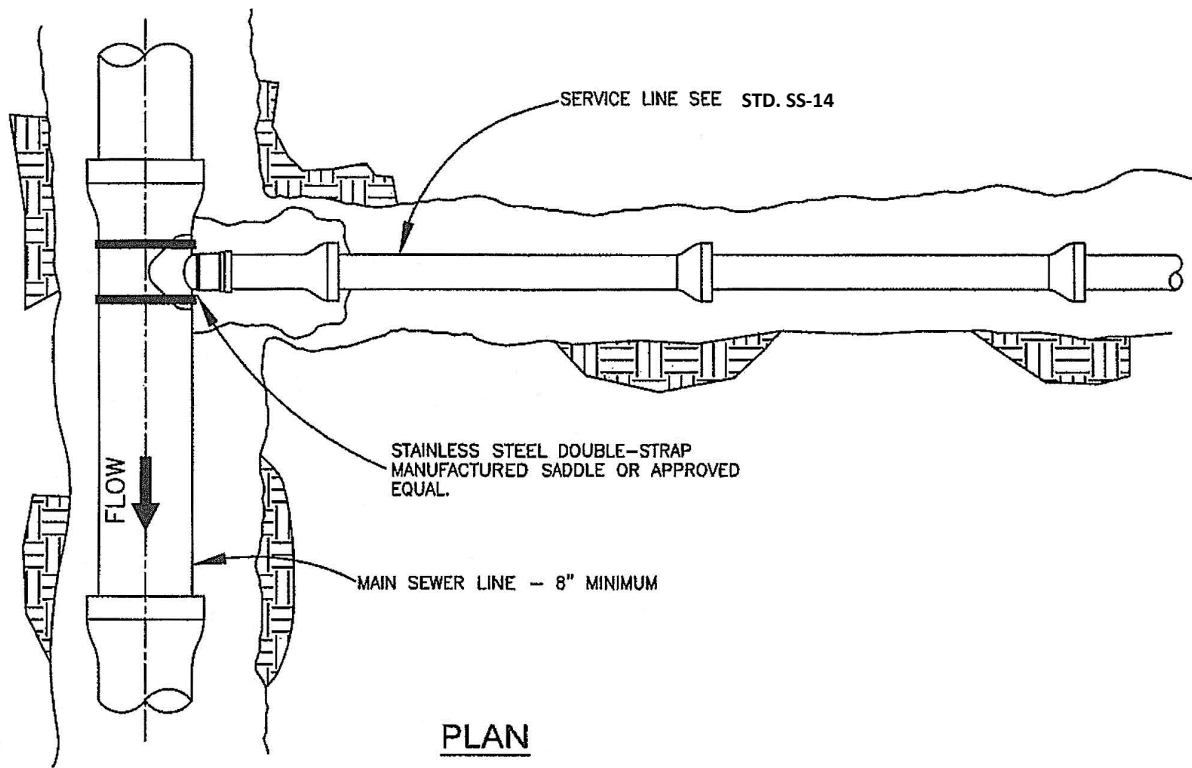
NOTE:

- 1) ALUMINUM ALLOY SPECIFICATIONS
 - A. FED SPEC. QQ - A - 200/B
 - B. MIN. TENSILE STRENGTH = 38,000 P.S.I.
 - C. MIN. YIELD STRENGTH = 35,000 P.S.I.
 - D. MIN. ELONGATION = 10% IN 2"
- 2) MIN. LOAD CAPACITY APPLIED CENTER OF STEP
 - A. 1,000 LB. WITH 6" PROJECTION FROM WALL
 - B. 1,500 LB. WITH 4" PROJECTION FROM WALL
- 3) WEIGHT PER STEP = 223 LBS.
- 4) STEPS TO BE CAST UNALTERED IN MANHOLE WALL IN A STRAIGHT LINE, VERTICALLY, AT THE SAME TIME THE BARREL OR CONE SECTIONS ARE CAST.
- 5) THE PORTION OF THE STEPS EMBEDDED IN THE CONCRETE SHALL BE COATED WITH BITUMINOUS MATERIAL AS SPECIFIED OR APPROVED BY CONTRACTING OFFICER.



NOTES:



1. MANHOLE LID SHALL BE ADJUSTED WHEN GREATER THAN OR EQUAL TO 0.75 INCH FROM FINAL SURFACE GRADE.
2. CUT AND REMOVE EXISTING PAVEMENT TO NEAT LINES AS SHOWN OR AS DIRECTED. REMOVE BITUMINOUS CONCRETE FROM THE MANHOLE FRAME AND COVERS. CIRCULAR PAVEMENT CUT AROUND MANHOLE COVER ALSO ACCEPTABLE.
3. REMOVE EXISTING MORTAR AND MASONRY WHICH IS LOOSE, DETERIORATED OR UNSOUND AS DIRECTED BY THE ENGINEER. REPLACE PAVEMENT WITH 3" BITUMINOUS CONCRETE ON TAMPED SUBBASE. SEAL PAVEMENT JOINT WITH ASPHALT.
4. SET MANHOLE FRAME TO REQUIRED GRADE WITH MANHOLE GRADE RINGS OR AS DIRECTED BY THE ENGINEER. MANHOLE FRAMES ARE TO BE SET IN FULL MORTAR BEDS.
5. CONTRACTOR TO FURNISH NEW MANHOLE FRAME AND COVER AS NECESSARY.
6. FINAL LID ADJUSTMENT SHALL BE FLUSH WITH EXISTING SURFACE ±0.25 INCH.
7. HOT ASPHALT MIX SHALL BE USED FOR MANHOLE LID ADJUSTMENT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

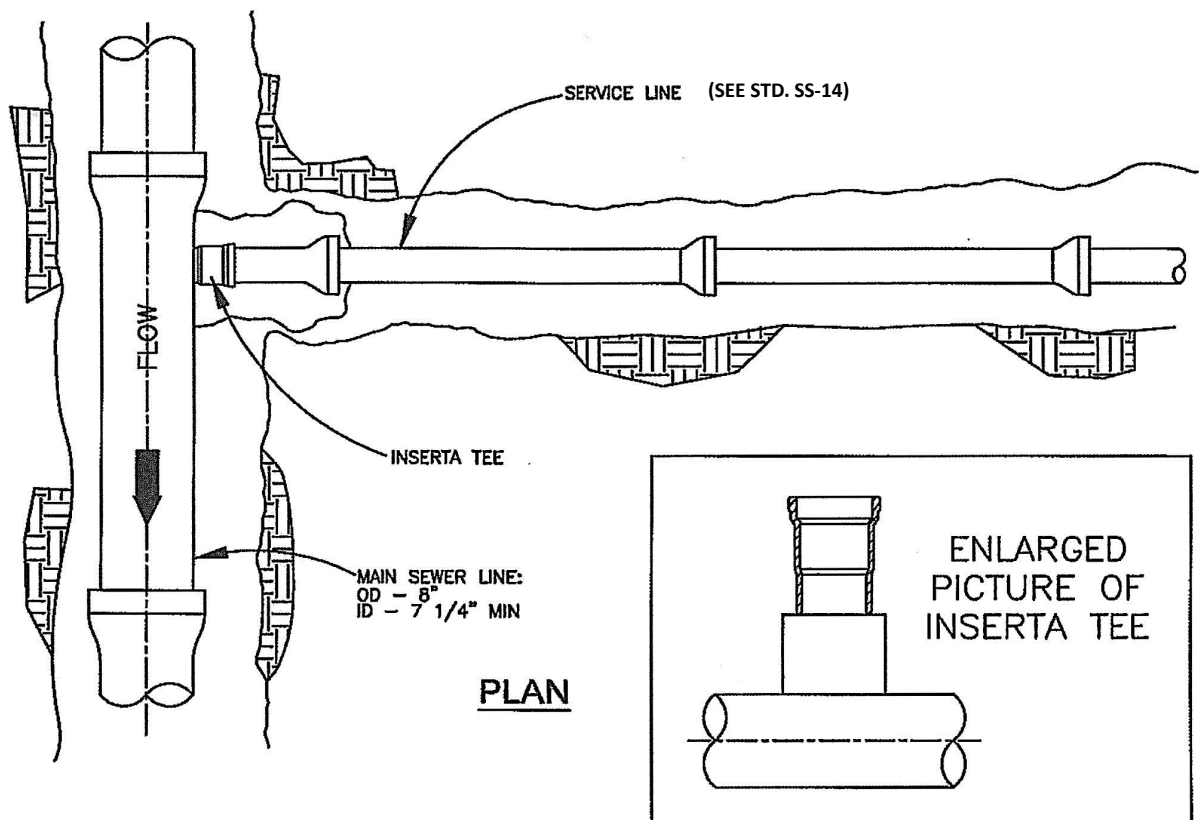


ELEVATION

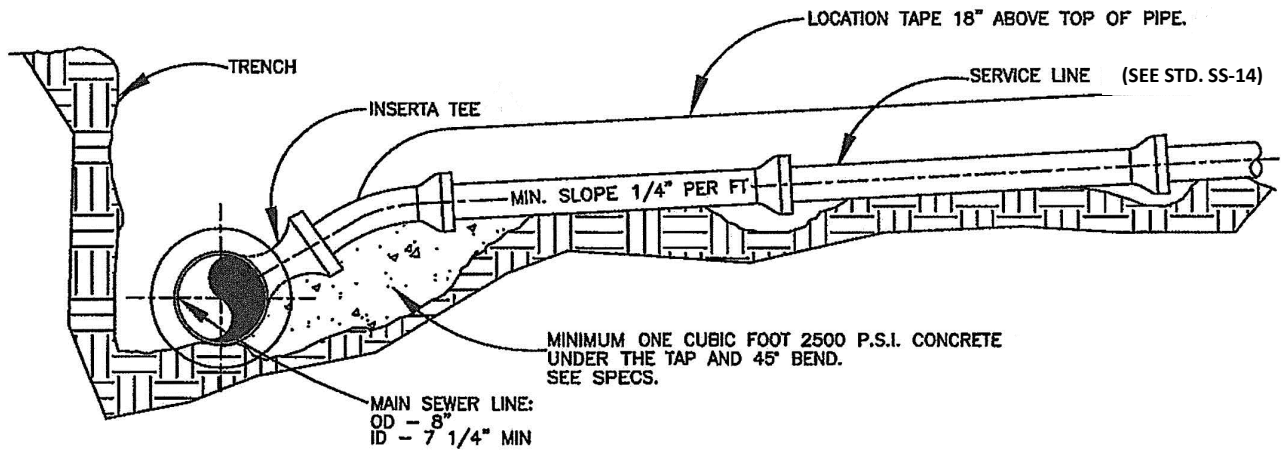
NOTES:

1. ALL SERVICE LINES SHALL CONFORM TO LOCAL PLUMBING CODE.
2. SERVICE LINE SHALL NOT PROTRUDE INTO SEWER MAIN.

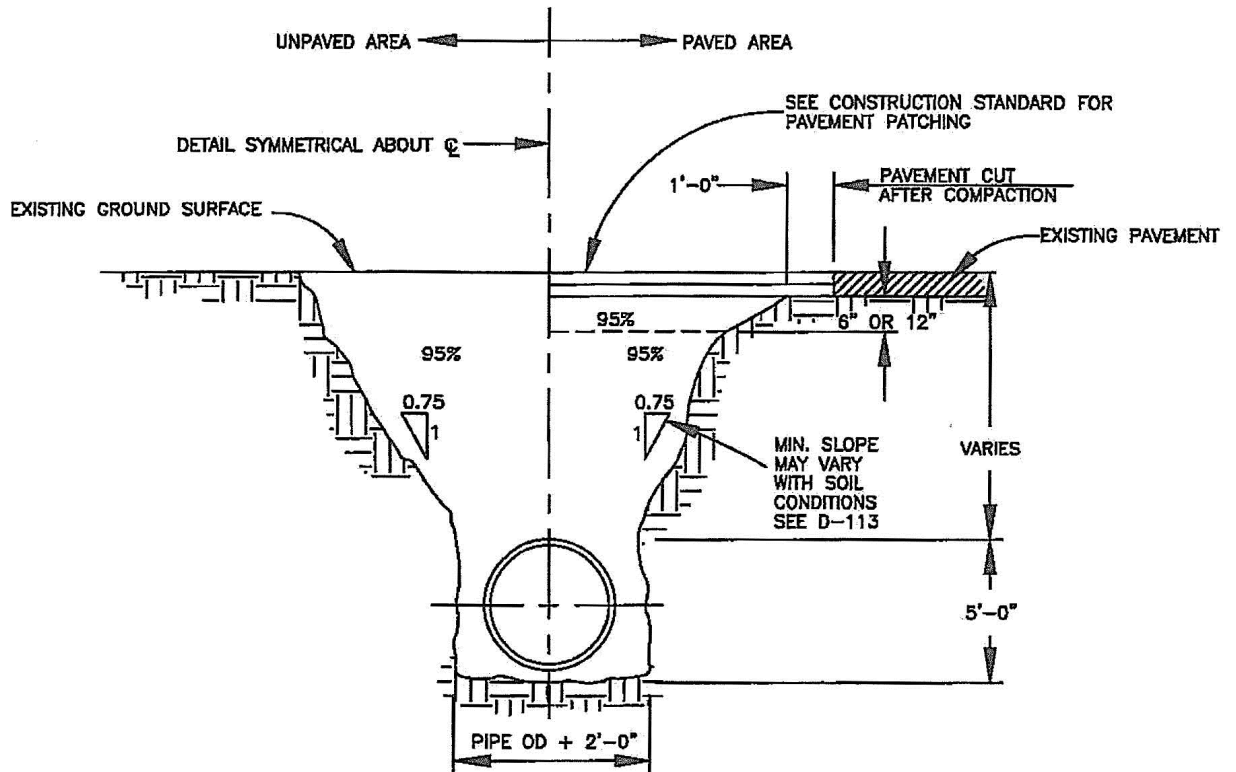
 <p>City of Aztec Public Works Department</p>	<p style="text-align: center;">TAP SADDLE CONNECTION</p>	<p>STANDARD NO. SS-9</p> <p>SHEET 1 OF 1 </p>
	<p style="text-align: center;">CONSTRUCTION STANDARDS</p>	<p>APP'D <u>R. Salcido</u></p> <p>DATE <u>Oct. 11, 2023</u></p>



- 1) ALL SERVICE LINES SHALL CONFORM TO LOCAL PLUMBING CODE.
- 2) SERVICE LINE SHALL NOT PROTRUDE INTO MAIN.



ELEVATION



NOTE:

1. TOP 6" OF BASE COURSE ON PAVED RESIDENTIAL STREETS & TOP 12" OF PAVED ARTERIAL STREETS TO BE COMPACTED TO 95% MODIFIED PROCTOR.
2. UNPAVED STREETS & OTHER AREAS TO BE 95% MODIFIED PROCTOR.
3. WITHIN CITY ROW PIPE BEDDING & TRENCH BACK FILL SHALL BE BASE COURSE.
4. TRENCH DETAILS FOLLOW OSHA 1926 SUBPART P APP B - EXCAVATION: SLOPING AND BENCHING.

PIPE DIA.	TRENCH WIDTH	PIPE DIA.	TRENCH WIDTH
8"	2'-6"	30"	6'-8"
10"	2'-8"	36"	7'-0"
12"	3'-0"	42"	8'-0"
15"	3'-0"	48"	8'-6"
18"	4'-8"	54"	10'-6"
21"	4'-6"	66"	13'-0"
24"	5'-6"	72"	14'-0"



**City of Aztec
Public Works
Department**

TRENCH DETAILS 72" O.D. PIPE OR LESS

CONSTRUCTION STANDARDS

STANDARD NO. SS-12



SHEET 1 OF 4

APP'D R. Salcido
DATE Oct. 11, 2023

PIPE SIZE	TRENCH PAY WIDTH									
	3'	4'	6'	8'	10'	12'	14'	16'	18'	20'
4	5.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00
6	5.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00
8	5.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00
10	5.50	5.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50
12	5.50	5.50	7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50
14	5.75	5.75	7.75	9.75	11.75	13.75	15.75	17.75	19.75	21.75
15	5.75	5.75	7.75	9.75	11.75	13.75	15.75	17.75	19.75	21.75
16	5.75	5.75	7.75	9.75	11.75	13.75	15.75	17.75	19.75	21.75
18	6.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
20	6.25	6.25	8.25	10.25	12.25	14.25	16.25	18.25	20.25	22.25
21	6.25	6.25	8.25	10.25	12.25	14.25	16.25	18.25	20.25	22.25
24	6.50	6.50	8.50	10.50	12.50	14.50	16.50	18.50	20.50	22.50
27		6.75	8.75	10.75	12.75	14.75	16.75	18.75	20.75	22.75
30		7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00	23.00
36		7.50	9.50	11.50	13.50	15.50	17.50	19.50	21.50	23.50
42			10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
48			11.50	13.50	15.50	17.50	19.50	21.50	23.50	25.50
54			12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00
60			12.50	14.50	16.50	18.50	20.50	22.50	24.50	26.50
66				15.00	17.00	19.00	21.00	23.00	25.00	27.00
72				23.50	25.50	27.50	29.50	31.50	33.50	35.50
78				24.00	26.00	28.00	30.00	32.00	34.00	36.00
84				24.50	26.50	28.50	30.50	32.50	34.50	36.50
90				25.00	27.00	29.00	31.00	33.00	35.00	37.00
96				25.50	27.50	29.50	31.50	33.50	35.50	37.50
102				26.00	28.00	30.00	32.00	34.00	36.00	38.00
108				26.50	28.50	30.50	32.50	34.50	36.50	38.50

NOTE:

1. PAYMENT FOR PAVEMENT REMOVAL AND REPLACEMENT SHALL BE BASED ON ACTUAL TRENCH WIDTHS UP TO THE WIDTH NOTED ABOVE & WILL BE PAID FOR ACTUAL TRENCH MEASUREMENT.
2. EXCESSIVE TRENCH WIDTH ABOVE THAT LISTED IN THE TABLE ABOVE WILL BE AT THE CONTRACTORS EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE PAID. IF CONDITIONS EXIST THAT REQUIRES ADDITIONAL REMOVAL CONTRACTOR SHALL REQUEST CITY ENGINEER APPROVAL.
3. IN THE EVENT A LINE IS LOCATED SUCH THAT REMOVAL OF CURB, GUTTER AND SIDEWALK IS REQUIRED PAVEMENT WIDTH SHALL BE LIMITED TO 1/2 THE PAY WIDTH PLUS THE DISTANCE FROM THE CENTERLINE OF THE PIPE TO GUTTER. PAYMENT FOR REMOVAL AND REPLACEMENT OF CURB AND SIDEWALK SHALL BE AS MEASURED IN THE FIELD.
4. THE ADDITIONAL 1' PAVEMENT CUT BACK SHALL BE MADE AFTER BACKFILLING AND TESTING IS COMPLETE. THIS CUT SHALL BE REMOVED TO A NEAT LINE. IF THE CONTRACTORS OPERATION PRODUCES A JAGGED EDGE HE SHALL BE REQUIRED TO REMOVE ADDITIONAL PAVING UNTIL A NEAT STRAIGHT LINE IS OBTAINED.

 <p>City of Aztec Public Works Department</p>	<p>TRENCH PAY WIDTH</p> <hr/> <p>CONSTRUCTION STANDARDS</p>	<p>STANDARD NO. SS-12</p> <p>SHEET 3 OF 4 </p> <p>APP'D <u>R. Salcido</u> DATE <u>Oct. 11, 2023</u></p>



City of Aztec
Public Works
Department

TRENCH DETAILS

CONSTRUCTION STANDARDS

STANDARD NO. SS-12

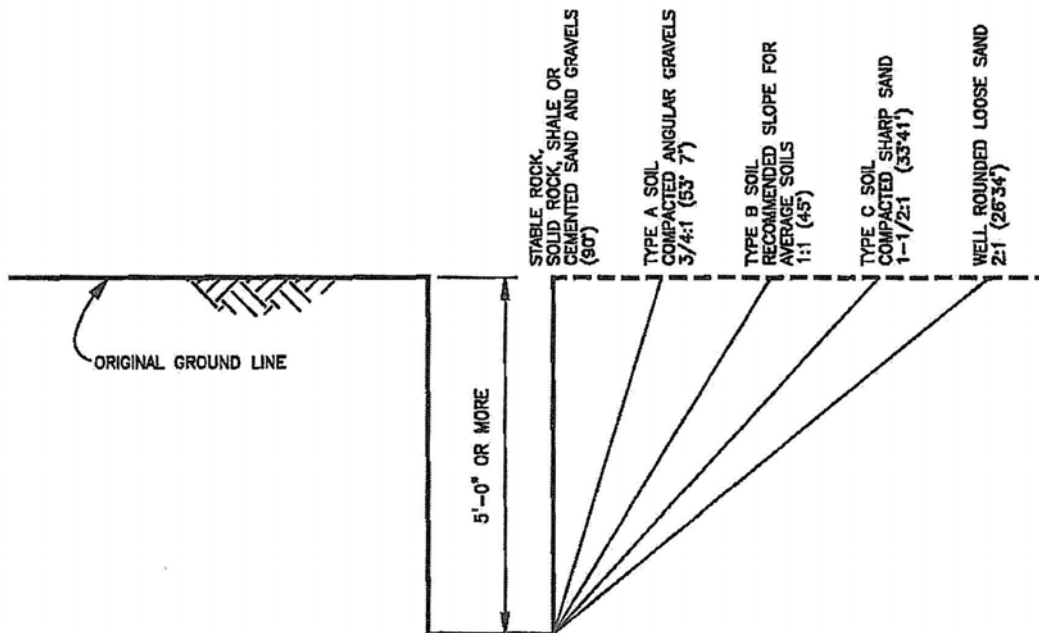
SHEET 4 OF 4

APP'D R. Salcido
DATE Oct. 11, 2023

TRENCH SHORING-MINIMUM REQUIREMENTS

DEPTH OF TRENCH	CONDITION OR KIND OF EARTH	SIZE & SPACING OF MEMBERS										
		UPRIGHTS		STRINGERS		CROSS BRACES—SEE NOTE 1						
		MINIMUM DIMENSION	MAXIMUM SPACING	MINIMUM DIMENSION	MAXIMUM SPACING	WIDTH OF TRENCH					MAXIMUM SPACING	
						UP TO 3'	3'TO 6'	6'TO 9'	9'TO 12'	12'TO 15'	VERTICAL	HORIZONTAL
FEET		INCHES	FEET	INCHES	FEET	INCHES	INCHES	INCHES	INCHES	FEET	FEET	
5' TO 10'	HARD, COMPACT.	3X4 OR 2X6	6			2X6	4X4	4X6	6X6	6X8	4	6
	LIKELY TO CRACK.	3X4 OR 2X6	3	4X6	4	2X6	4X4	4X6	6X6	6X8	4	6
	SOFT, SANDY, OR FILLED.	3X4 OR 2X6	CLOSE SHEETING	4X6	4	4X4	4X6	6X6	6X8	8X8	4	6
	HYDROSTATIC PRESSURE.	3X4 OR 2X6	CLOSE SHEETING	6X8	4	4X4	4X6	6X6	6X8	8X8	4	6
10' TO 15'	HARD.	3X4 OR 2X6	4	4X6	4	4X4	4X6	6X6	6X8	8X8	4	6
	LIKELY TO CRACK.	3X4 OR 2X6	2	4X6	4	4X4	4X6	6X6	6X8	8X8		6
	SOFT, SANDY, OR FILLED.	3X4 OR 2X6	CLOSE SHEETING	4X6	4	4X6	6X6	6X8	8X8	8X10	4	6
15' TO 20'	HYDROSTATIC PRESSURE.	3X6	CLOSE SHEETING	8X10	4	4X8	6X8	8X8	8X8	8X10	4	6
	ALL KINDS OR CONDITIONS.	3X6	CLOSE SHEETING	4X12	4	4X12	6X8	8X8	8X10	10X10	4	6
OVER 20'	ALL KINDS OR CONDITIONS.	3X6	CLOSE SHEETING	6X8	4	4X12	8X8	8X10	10X10	10X12	4	6

NOTES: 1) TRENCH JACKS MAY BE USED IN LIEU OF, OR IN COMBINATION WITH, CROSS BRACES. SHORING IS NOT REQUIRED IN SOLID ROCK, HARD SHALE, OR HARD SLAG. WHERE DESIRABLE, SHEET STEEL PILING AND BRACING OF EQUAL STRENGTH MAY BE SUBSTITUTED FOR WOOD.



NOTES

1. SIDES OF TRENCHES IN HARD OR COMPACTED SOIL, INCLUDING EMBANKMENTS SHALL BE SHORED, OR OTHERWISE SUPPORTED OR SLOPED WHEN THE TRENCH IS MORE THAN 5 FEET IN DEPTH AND 8 FEET OR MORE IN LENGTH.
2. CLAYS, SILLS, LOAMS OR NON HOMOGENOUS SOILS REQUIRE SHORING AND BRACING. THE PRESENCE OF GROUND WATER REQUIRES SPECIAL TREATMENT.
3. STANDARD DETAIL 112 SHALL BE APPLICABLE WHEN EXCAVATING IN PAVED STREETS.
4. ALL PAYMENT WILL BE BASED ON TRENCH PAY WIDTHS AS OUTLINED IN CITY STANDARD 112. NO EXTRA PAYMENT OUTSIDE THOSE LIMITS LISTED IN COF 112 WILL BE PAID.
5. DETAILS FOLLOW OSHA 1926 SUBPART P APP B - EXCAVATIONS: SLOPING AND BENCHING.



City of Aztec
Public Works
Department

APPROXIMATE ANGLE OF REPOSE FOR SLOPING SIDES OF EXCAVATIONS

CONSTRUCTION STANDARDS

STANDARD NO. SS-13

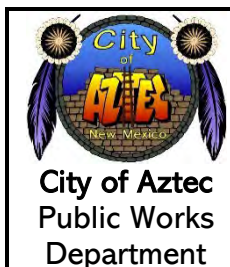
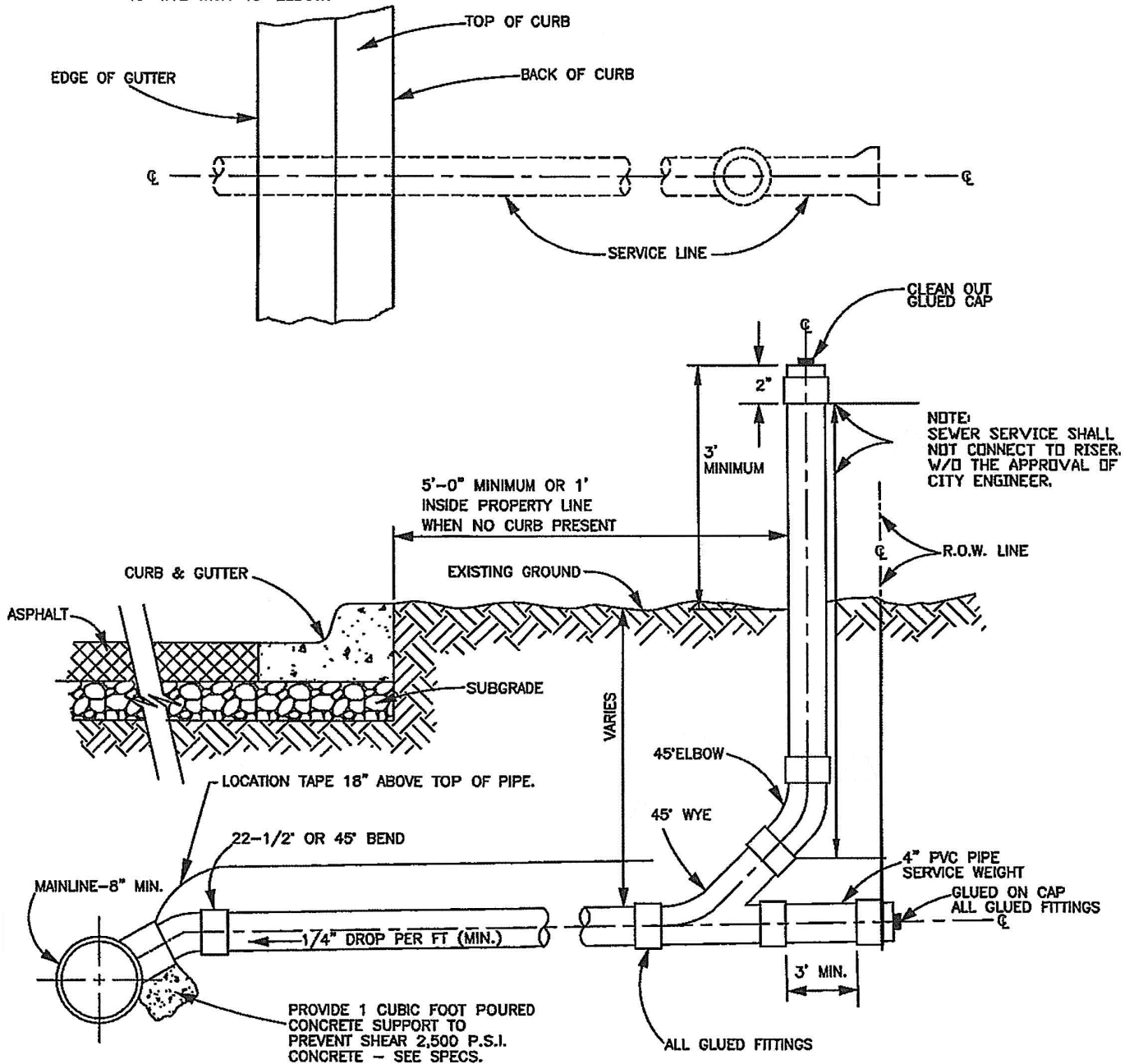
SHEET 1 OF 1

APP'D R. Salcido

DATE Oct. 11, 2023

NOTES:

1. ALL SERVICE LINES SHALL CONFORM TO LOCAL PLUMBING CODE.
2. SERVICE LINES SHALL NOT PROTRUDE INTO SEWER MAIN.
3. SEWER SERVICE SHALL BE A COMBO OR 45° WYE WITH 45° ELBOW.



SEWER SERVICE LOCATION

CONSTRUCTION STANDARDS

STANDARD NO. SS-14

SHEET 1 OF 1

APP'D R. Salcido

DATE Oct. 11, 2023

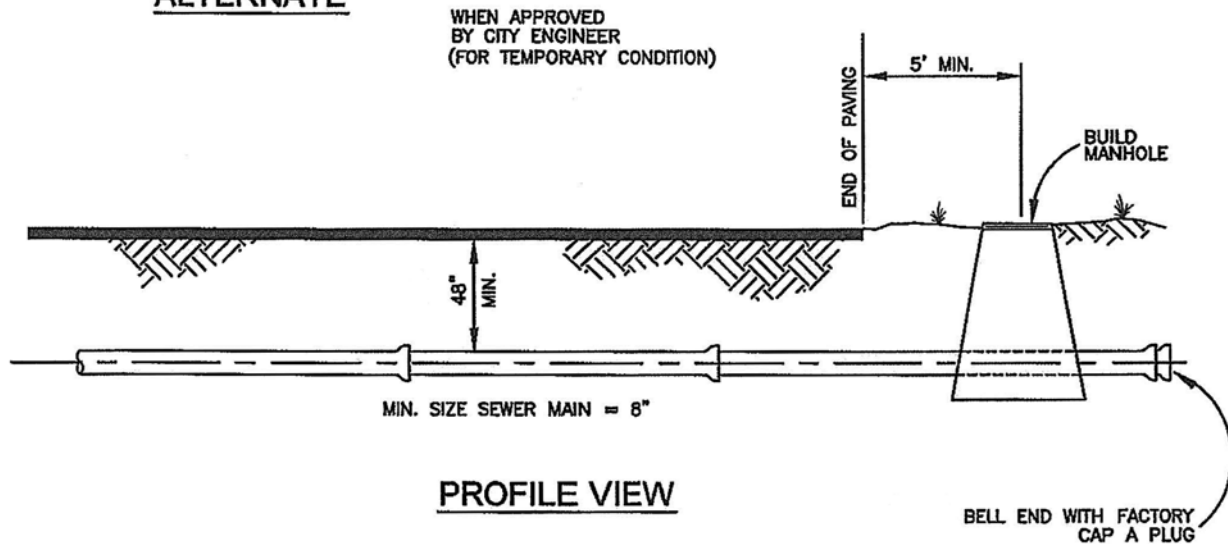
SANITARY SEWER MAINS
MINIMUM SLOPES

SIZE	SLOPE, FT./FT.
8"	0.004
10"	0.003
12"	0.0022
15"	0.0015
18"	0.0012
21"	0.0010
24"	0.0009
27" & LARGER	0.0008

NOTES:

1. PRIOR TO BACKFILLING, RECORD INVERT ELEVATIONS AND LOCATION ON CONSTRUCTION PLANS FOR AN AS-BUILT RECORD.
2. SEE LATEST EDITION OF THE N.M. STANDARD SPECIFICATIONS FOR PUBLIC WORKS FOR A LIST OF ACCEPTABLE SEWER MAIN MATERIALS & PIPE.
3. MINIMUM 4'-0" COVER UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
4. MAXIMUM MANHOLE SPACING 400 FEET.
5. THIS TYPE OF INSTALLATION WILL ONLY BE USED IF THE DOWN STREAM MANHOLE IS LESS THAN 100 FEET FROM END OF LINE.
6. MANHOLE WILL BE BUILT AT END OF MAINLINE UNLESS ALTERNATE IS APPROVED BY CITY ENGINEER OR BY DESIGNEE.
7. STUB OUT FOR FUTURE MAINLINE EXTENSION SHALL BE CONST. A MAX. OF 5' WITH BELL END AND FACTORY PLUG BEYOND LAST MANHOLE.

ALTERNATE



City of Aztec
Public Works
Department

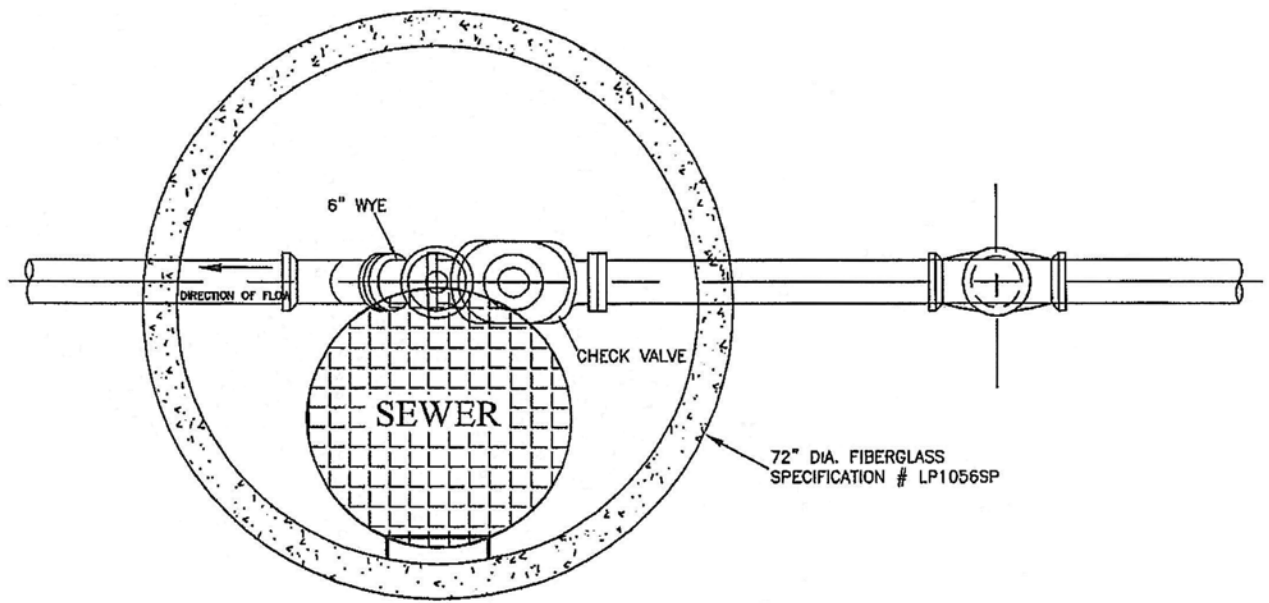
SANITARY SEWER MAINS

CONSTRUCTION STANDARDS

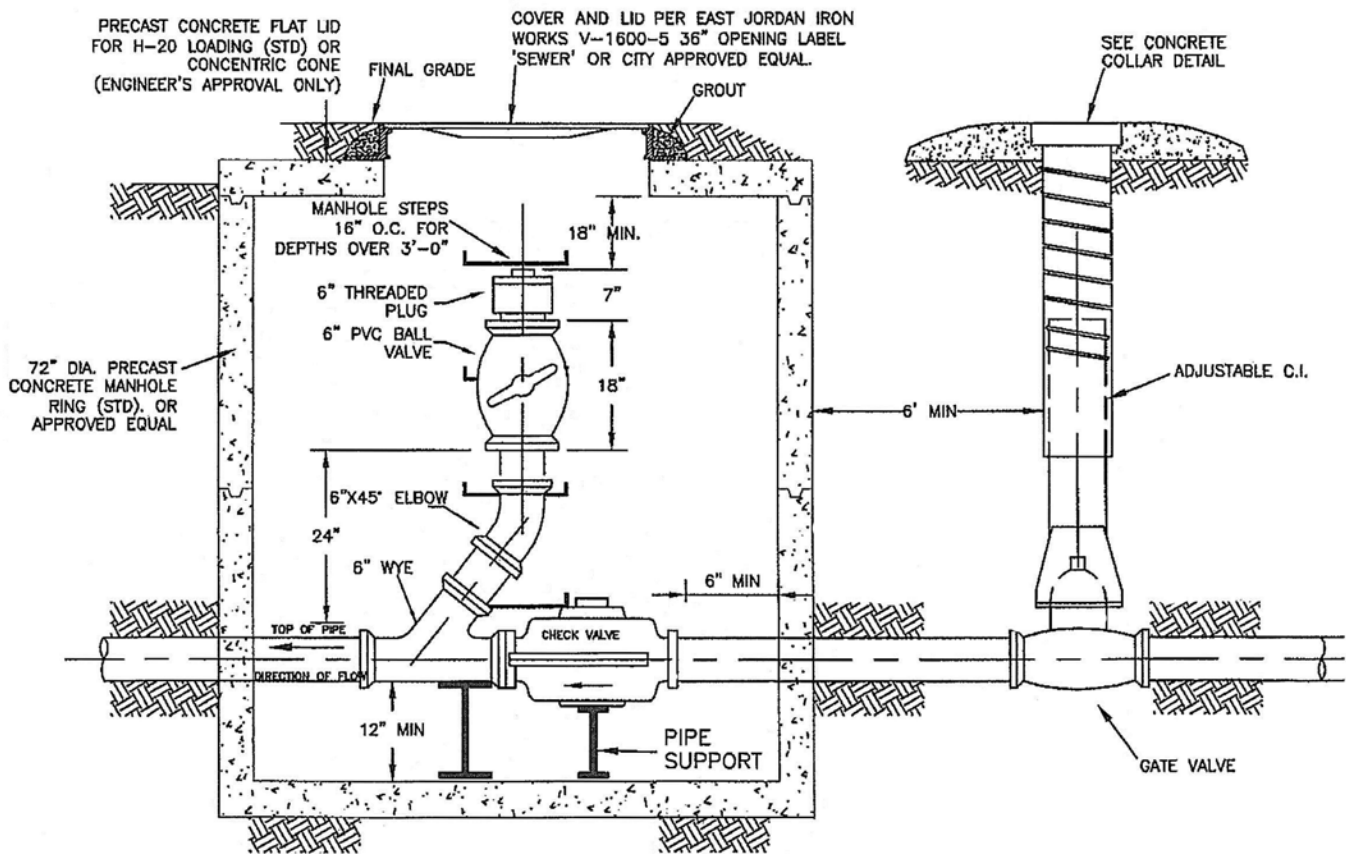
STANDARD NO. SS-15

SHEET 1 OF 1

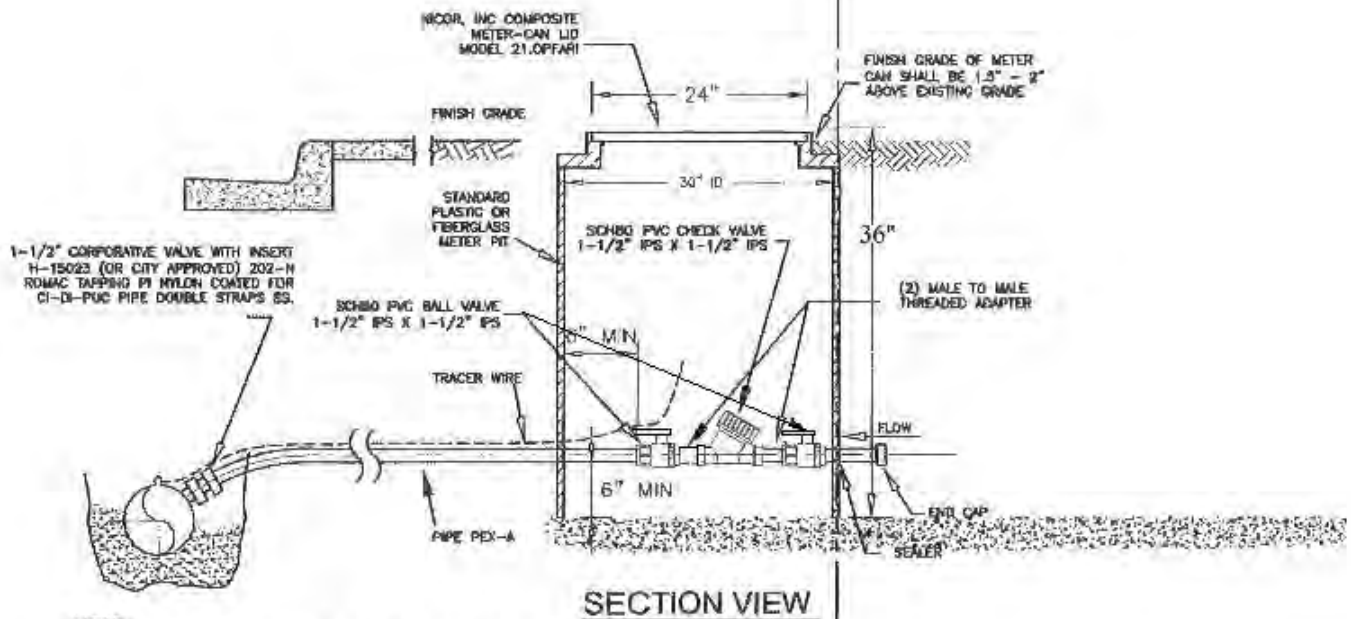
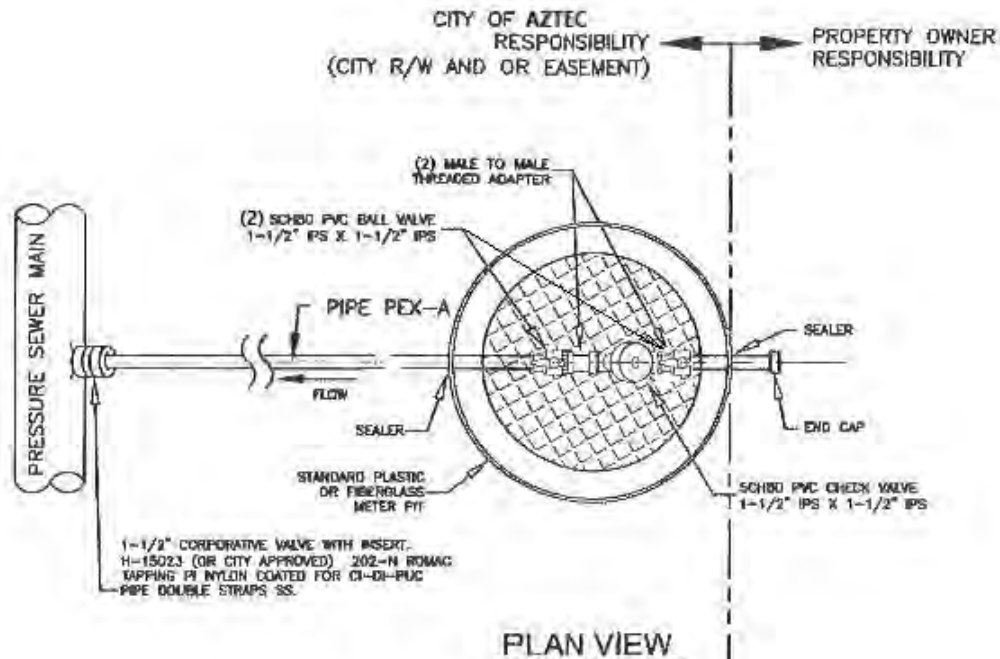
APP'D R. Salcido
DATE Oct. 11, 2023



PLAN VIEW



SECTION VIEW



NOTE:

1. CONTRACTOR SHALL REMOVE END CAP AND CONNECT TO EXISTING 1-1/2" CAP.
2. CONTRACTOR SHALL BORE A HOLE INTO EXISTING BOX TO RUN PIPE THROUGH AND PROVIDE SEALER TO PREVENT WATER SEEPAGE.
3. CENTRIFUGAL PUMP OR APPROVED EQUAL RECOMMENDED FOR THIS APPLICATION.
4. UPON DEVELOPMENT, THE OWNER SHALL INSTALL A PRIVATE BALL/CHECK VALVE WITH CAN AS SHOW ABOVE.



**City of Aztec
Public Works
Department**

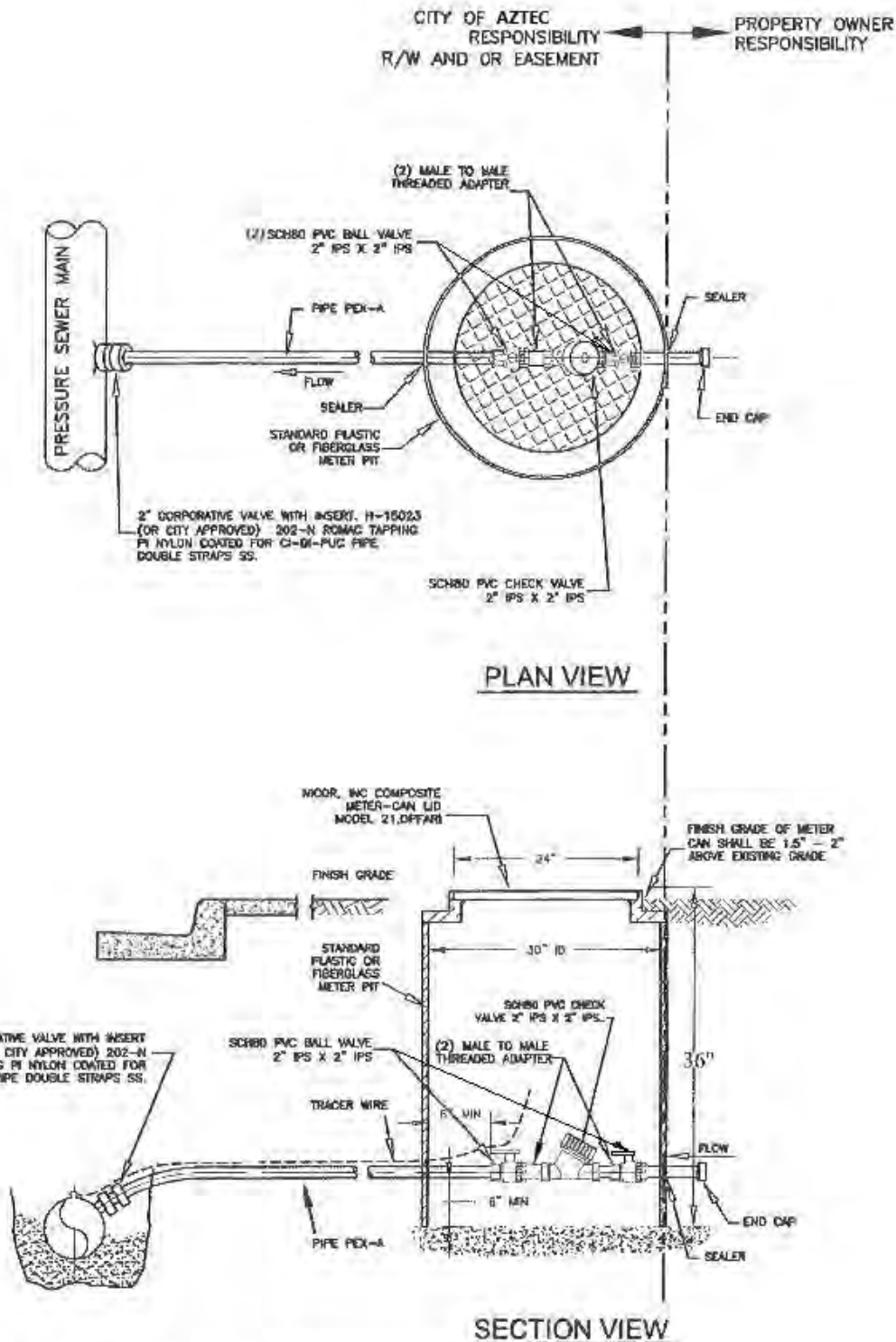
1 1/2" PRESSURE SANITARY SEWER LATERAL DETAIL

CONSTRUCTION STANDARDS

STANDARD NO. SS-18-1

SHEET 1 OF 2

APP'D R. Salcido
DATE Oct. 11, 2023



NOTE:

1. CONTRACTOR SHALL REMOVE END CAP AND CONNECT TO EXISTING 2" CAP.
2. CONTRACTOR SHALL BORE A HOLE INTO EXISTING BOX TO RUN PIPE THROUGH AND PROVIDE SEALER TO PREVENT WATER SEEPAGE.
3. CENTRIFUGAL PUMP OR APPROVED EQUAL RECOMMENDED FOR THIS APPLICATION.
4. TEE IS REQUIRED TO SEPARATE SERVICES SHALL BE CAPED ON OTHER IF NO OTHER SERVICE.
5. UPON DEVELOPMENT, THE OWNER SHALL INSTALL A PRIVATE BALL/CHECK VALVE WITH CAN AS SHOWN ABOVE



City of Aztec
Public Works
Department

2" PRESSURE SANITARY SEWER LATERAL DETAIL

CONSTRUCTION STANDARDS

STANDARD NO. SS-18-2

SHEET 2 OF 2

APP'D R. Salcido
DATE Oct. 11, 2023