BRIGHTON TOWNSHIP SEWAGE AUTHORITY

Board Members Jack E Erath Kerien Fitzpatrick Jeffrey S. Maze Mark Piccirilli Gordon R. Sheffer, PhD. 1300 Brighton Road Beaver, PA 15009 Phone: (724) 774-4802 Fax: (724) 774-3565

ADOPTION

The "Standard Details for Sewer Line Construction" dated January 2024 are hereby approved and adopted this 19th day of February, 2024 by the Board of Directors of the Brighton Township Sewage Authority. This version of the standard detail drawings for Sanitary Sewage Construction date January 2024 shall supersede all previous versions of same.

0.10-Ch

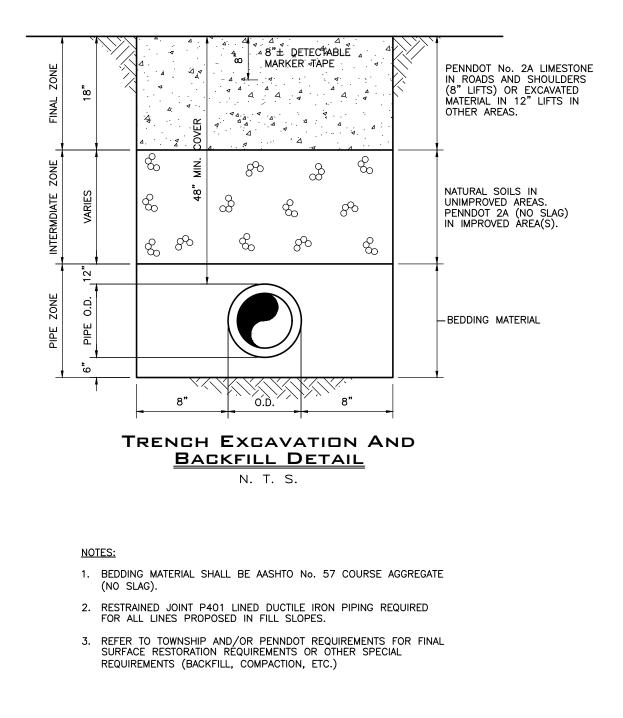
Secretary

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BTSA-SAN-32	Sewer Termination Manhole Repair Detail

<u>NOTE:</u>

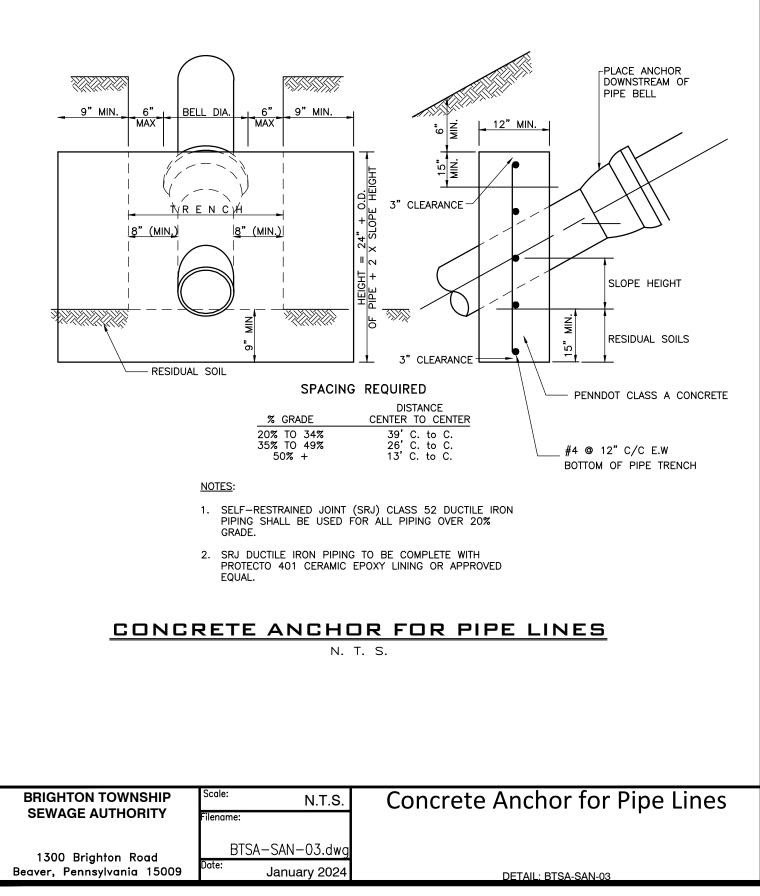
REFER TO SEWER MAIN AND SERVICE LATERAL INSTALLATION OF THE SPECIFICATIONS FOR FURTHER DETAIL AND SPECIFICATIONS.

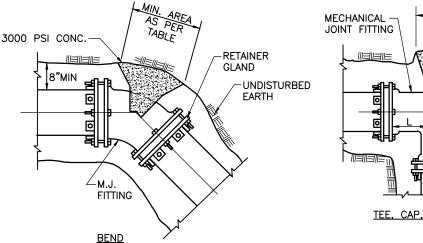


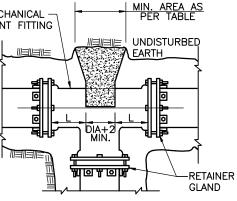
BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S. Filename:	Trench Excavation and Backfill Detail
1300 Brighton Road Beaver, Pennsylvania 15009	BTSA-SAN-01.dwg ^{Date:} January 2024	

	WATER MAIN	
	HORIZONTAL SEPARATION 10' MINIMUM	
SEF	ERTICAL PARATION MINIMUM	
	SANITARY SEWER	
	NOTES: 1. WHEN THE HORIZONTAL SEPARATION OF THE WATER MAIN AND SEWER LINE IS LESS THAN 10', THE VERTICAL SEPARATION BETWEEN THE TOP (CROWN) OF THE SEWER LINE AND THE BOTTOM (INVERT) OF THE WATER MAIN SHALL BE AT LEAST 18". ENCASE WATERLINE IN CONCRETE WHERE SEWER / WATERLINE CROSSINGS OCCUR AND, WHERE THE CONDITIONS PREVENT AN 18" VERTICAL SEPARATION.	
	 NO OTHER UNDERGROUND UTILITIES, SUCH AS GAS, ELECTRIC, TELEPHONE, OR CABLE, SHALL BE PLACED ABOVE THE SANITARY SEWER OR WITHIN THREE FEET OF EACH SIDE OF THE SANITARY SEWER. 	
	UTILITY SEPARATION	
	N. T. S.	
SHIP	Scale: N.T.S. Utility Sep	6

BRIGHTON TOWNSHIP	Scale: N.T.S.	Utility Separation
SEWAGE AUTHORITY	Filename:	
1300 Brighton Road	BTSA-SAN-02.dwg	
Beaver, Pennsylvania 15009	Date: January 2024	DETAIL BTSA-SAN-02

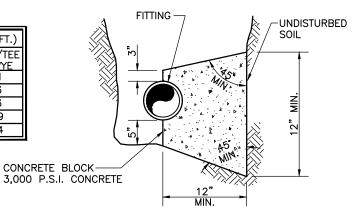






TEE, CAP, VALVE AND WYE

ĺ	PIPE		MINIMUM	BEARING	AREA (OF BLOC	K(SQ. FT.)
	SIZE (in)	L (in.)	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS	VALVE/TEE OR WYE
	4	5	2.9	1.6	1.0	1.0	2.1
	6	6	6.0	3.3	1.7	1.0	4.3
	8	6.5	10.3	5.6	2.9	1.5	7.3
	10	6.5	15.4	8.4	4.3	2.2	10.9
	12	7	21.8	11.8	6.0	3.1	15.4



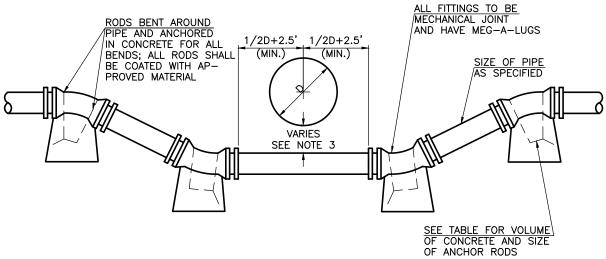
1. EARTH PRESSURE = 2,000 LBS./SQ.FT.

- 2. APPLIED PRESSURE = 150 P.S.I.+50% FOR WATER HAMMER OR SURGE
- 3. IF EARTH IN FIELD WILL NOT SUPPORT THE ABOVE EARTH PRESSURE, AREA OF BLOCK MUST BE INCREASED PROPORTIONATELY.
- 4. CONCRETE TO BE 3,000 P.S.I., PADOT CLASS A, 3" SLUMP
- 5. ALL MECHANICAL JOINT FASTENERS (I.E. BOLTS, NUTS, ETC.) SHALL BE FREE OF CONCRETE. ALL FITTINGS SHALL BE MECHANICAL JOINT AND HAVE MEG-A-LUG RETAINER GLANDS (OR EQUAL) INSTALLED TO MANUFACTURERS SPECIFICATIONS.
- 6. WRAP FITTING AND JOINT WITH TAR PAPER (OVER POLYETHYLENE ENCASEMENT) PRIOR TO POURING CONCRETE.
- 7. CONCRETE WITH BEARING AREAS GREATER THAN 3 S.F. TO HAVE W4 \times W4 WELDED WIRE FABRIC.
- 8. ALL FITTINGS TO BE DUCTILE IRON WITH EPOXY LINING.

FORCEMAIN HORIZONTAL THRUST BLOCKING

N.T.S.

BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S.	Forcemain Horizontal Thrust
SEWAGE AUTHORITY	Filename:	Blocking (150 PSI)
1300 Brighton Road	BTSA-SAN-04.dwg	
Beaver, Pennsylvania 15009	Date: January 2024	DETAIL: BTSA-SAN-04



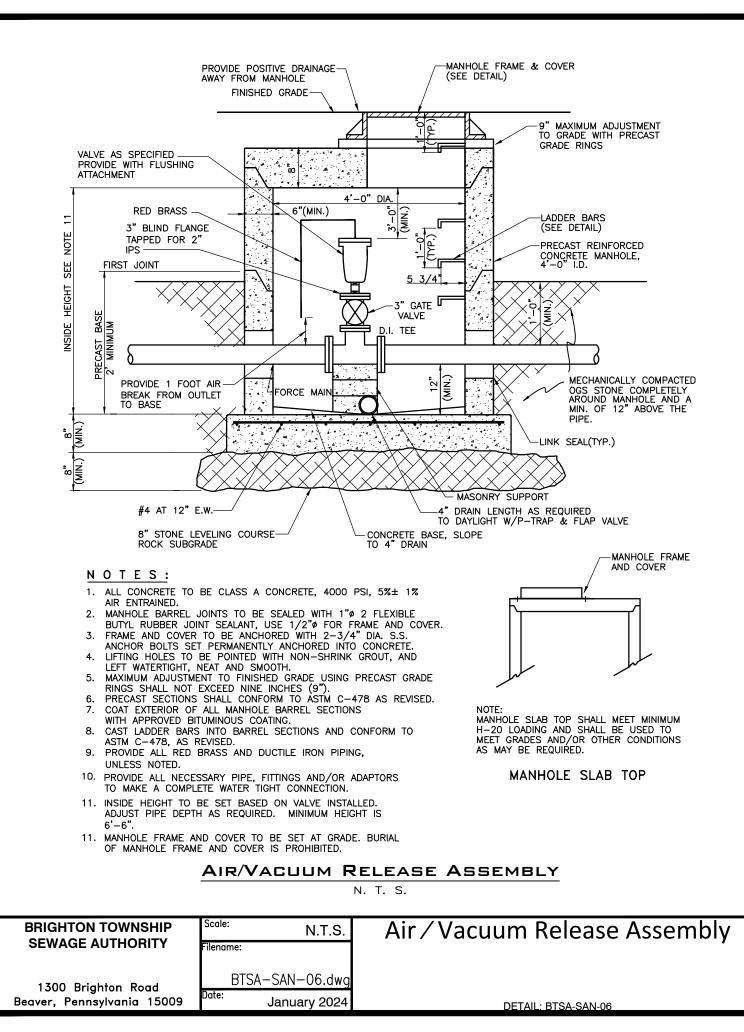
	TOTAL	VOLUME	IN CUB	IC FEET	SIZE AN	D No. OF A	NCHORS
PIPE SIZE	PRESSURE	45* BENDS	22.5* BENDS	11.25 [•] BENDS	45 [•] BENDS	22.5* BENDS	11.25* BENDS
4	3900	20	10	5	1-#4	1-#4	1-#4
6	7200	37	19	9	2-#4	1-#4	1-#4
8	11800	60	31	15	2-#4	2-#4	1-#4
10	17100	87	45	22	2-#4	2-#4	2-#4
12	23700	122	62	31	2-#5	2-#4	2-#4
14	31400	160	82	41	2-#6	2-#4	2-#4
16	42000	214	110	55	2-#7	2-#5	2-#4
18	51800	264	135	67	2-#7	2-#5	2-#4
20	63000	322	164	82	2-#8	2-#6	2-#4
24	86000	440	224	112	2-#9	2-#7	2-#5

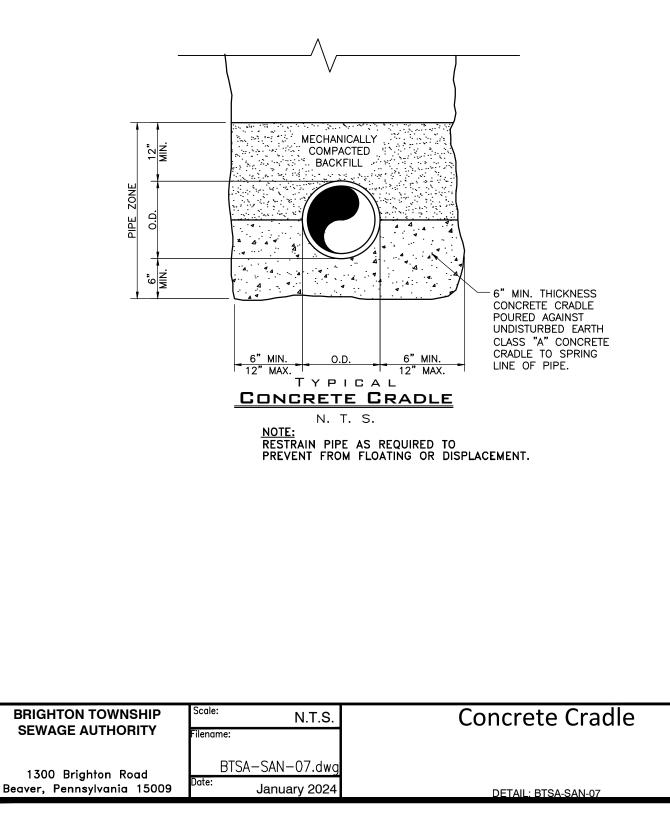
- 1. THE TABLE IS BASED ON 150# TEST PRESSURE.
- 2. REINFORCE ALL BLOCKS WITH #4 AT 6" E.F. MINIMUM 3" FROM ALL SIDES.
- 3. SEE "FORCEMAIN UNDER OBSTRUCTION" DETAIL.

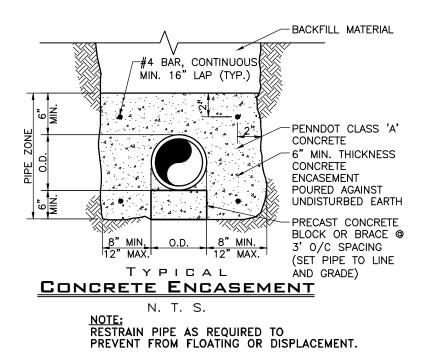
TYPICAL FORCEMAIN VERTICAL BLOCKING

N. T. S.

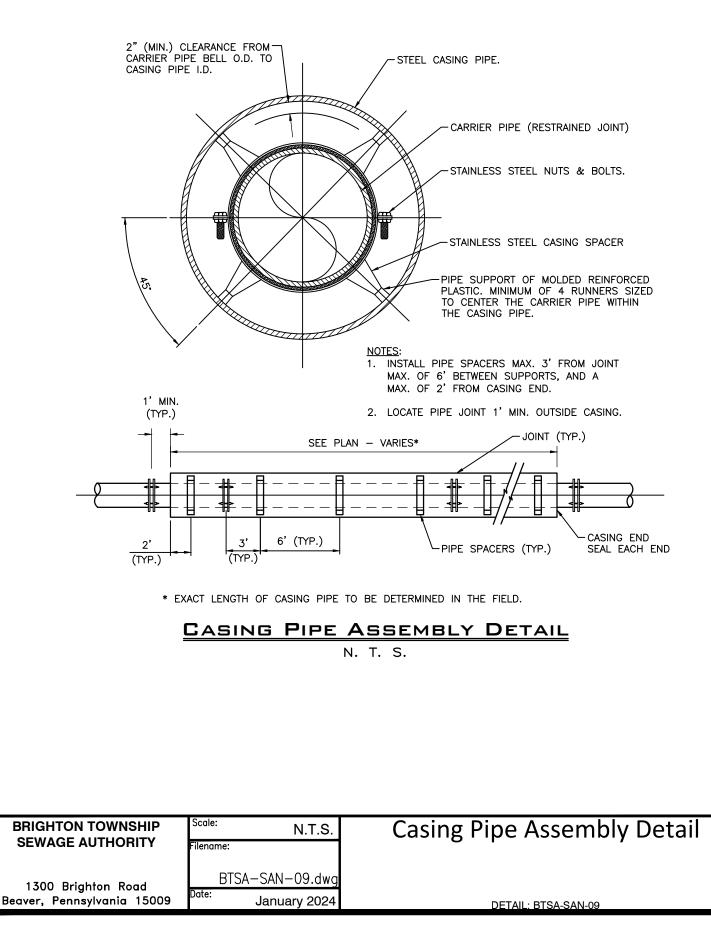
BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S. Filename:	Forcemain Vertical Blocking (150 PSI)
1300 Brighton Road Beaver, Pennsylvania 15009	BTSA-SAN-05.dwg ^{Date:} January 2024	

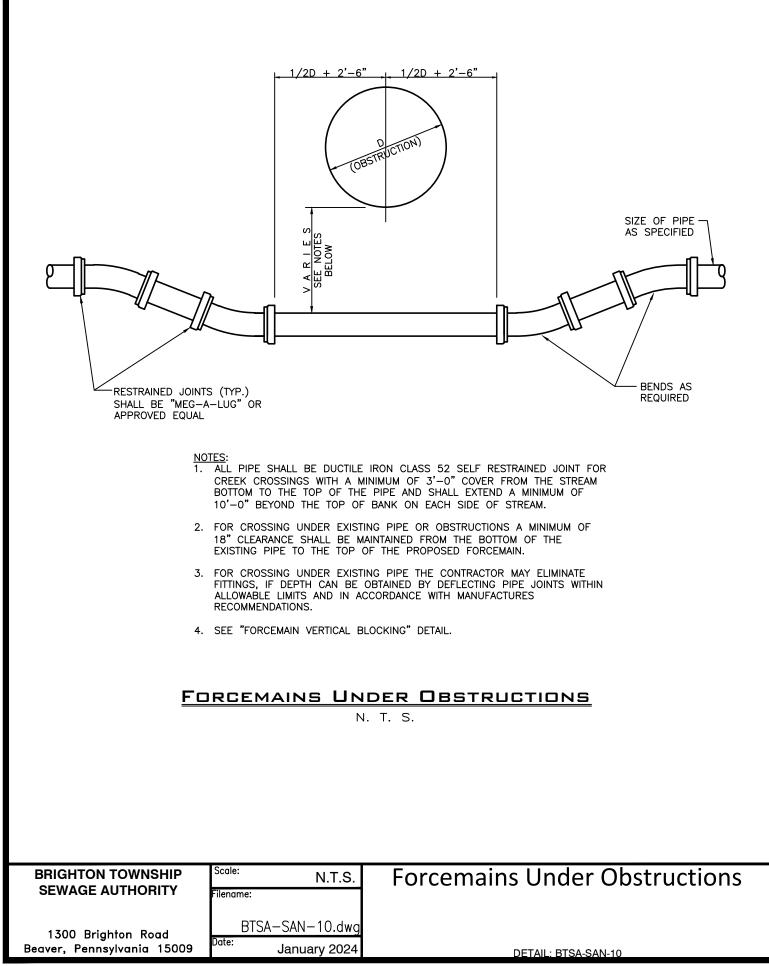


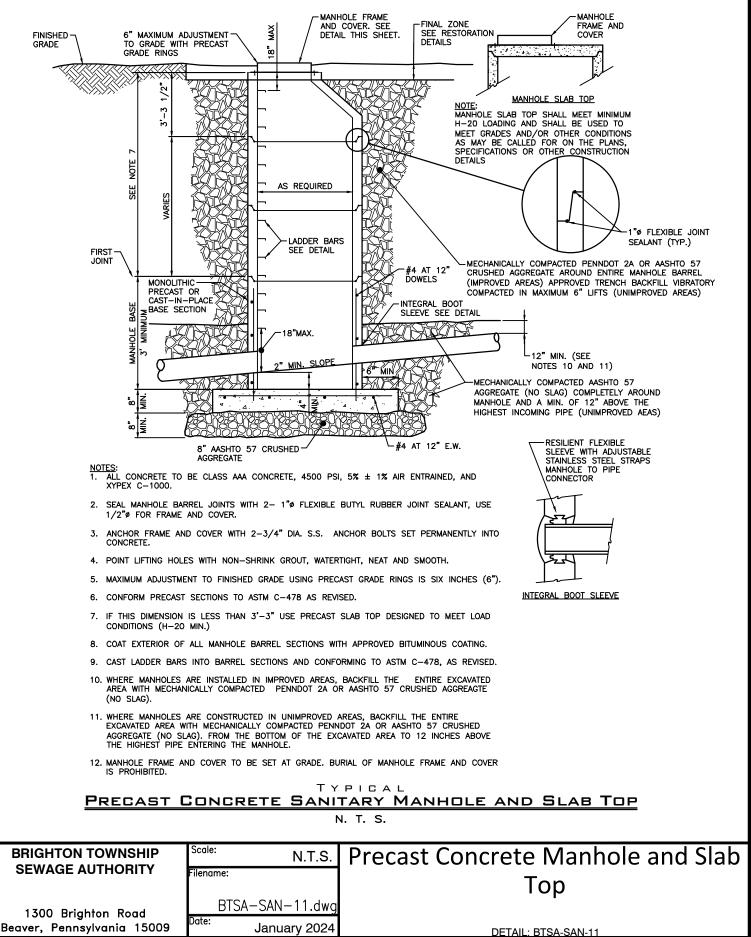




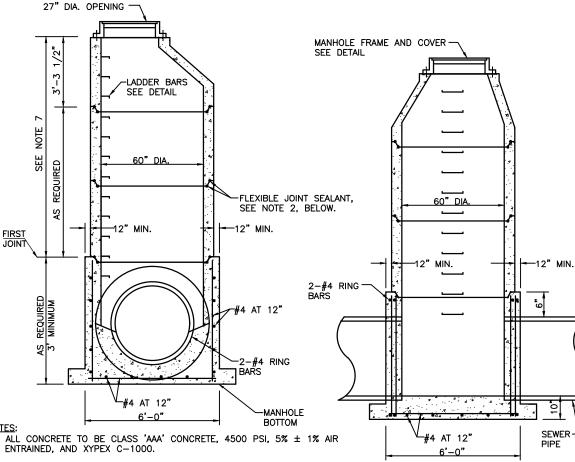
BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S. Filename:	Concrete Encasement
1300 Brighton Road Beaver, Pennsylvania 15009	BTSA-SAN-08.dwg ^{Dote:} January 2024	







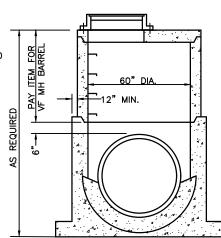
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- 1.
- 2. SEAL MANHOLE BARREL JOINTS WITH 2- 1" FLEXIBLE BUTYL RUBBER JOINT SEALANT, USE 1/2"Ø FOR FRAME AND COVER.
- ANCHOR FRAME AND COVER WITH 2-3/4" DIA. S.S. ANCHOR BOLTS SET PERMANENTLY ANCHORED INTO CONCRETE. 3.
- 4. POINT LIFTING HOLES WITH NON-SHRINK GROUT, AND LEFT WATERTIGHT, NEAT AND SMOOTH.
- MAXIMUM ADJUSTMENT TO FINISHED GRADE USING PRECAST GRADE RINGS SHALL 5. NOT EXCEED SIX INCHES (6").
- CONFORM PRECAST SECTIONS TO ASTM C-478 AS REVISED. 6.
- IF THIS DIMENSION IS LESS THAN 3'-3" USE PRECAST SLAB TOP DESIGNED TO 7. MEET LOAD CONDITIONS.(H-20 MIN).
- COAT EXTERIOR OF ALL MANHOLE BARREL SECTIONS WITH APPROVED BITUMINOUS 8. COATING.
- CAST LADDER BARS INTO BARREL SECTIONS AND SHALL CONFORM TO ASTM 9. C-478, AS REVISED.
- 10. WHERE MANHOLES ARE INSTALLED IN IMPROVED AREAS, THE ENTIRE EXCAVATED AREA SHALL BE BACKFILLED WITH PENNDOT 2A OR AASHTO 57 CRUSHED AGGREGATE.
- 11. WHERE MANHOLES ARE CONSTRUCTED IN UNIMPROVED AREAS, BACKFILL THE ENTIRE EXCAVATED AREA WITH PENNDOT 2A OR AASHTO 57 CRUSHED AGGREGATE FROM THE BOTTOM OF THE EXCAVATED AREA TO 12 INCHES ABOVE THE HIGHEST PIPE ENTERING THE MANHOLE.
- 12. PROVIDE FLANGED BASE.
- 13. MANHOLE FRAME AND COVER TO BE SET AT GRADE. BURIAL OF MANHOLE FRAME AND COVER IS PROHIBITED.



N. T. S. Cast-In-Place or Precast 5' Diameter Scale: **BRIGHTON TOWNSHIP** N.T.S **SEWAGE AUTHORITY** Filename: Sanitary Manhole BTSA-SAN-12.dwg 1300 Brighton Road Date: Beaver, Pennsylvania 15009 January 2024 DETAIL: BTSA-SAN-12

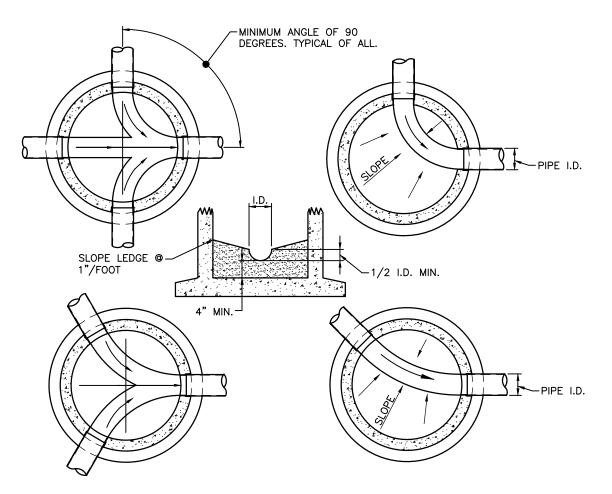


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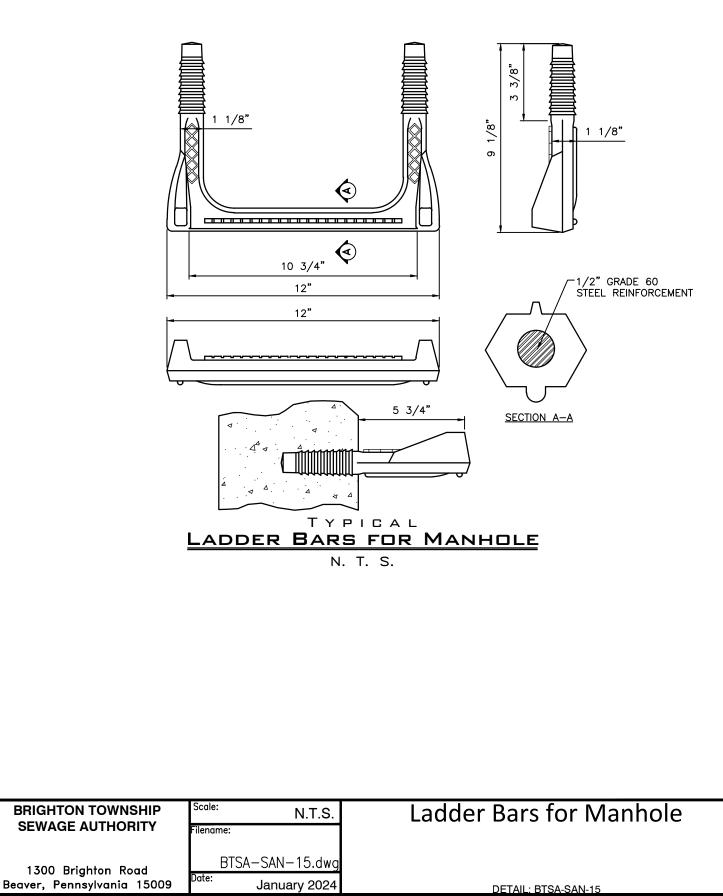
_		FINISHED
AASHTO CRUSHE		AASHTO 57 CRUSHED AGGREGATE (NO SLAG) COMPACTED IN MAXIMUM
AGGREC (NO SL	AG)	6 INCH LIFTS
UNDISTURBI EARTH NOTES: 1. USE 1. USE 1. USE 1. USE 1. OIAME PIPE.	SAME PIPE MATERIAL USED TO CONSCION PIPE SHALL BE A	PROPOSED SEWER PROPOSED SEWER PROPORT AND ANCHOR PO' BEND WITH CONCRETE DIRECT 90' BEND WITH CONCRETE DIRECT 90' BEND IN DIRECTION OF FLOW AASHTO 57 CRUSHED AASHTO 57 CRUSHED AASHTO 57 CRUSHED AASHTO 57 CRUSHED MAXIMUM 6 INCH LIFTS TRUCT THE MAIN FROM WHICH THE DROP CONNECTION
LEVEL	ING COURSE UNDER BOTTOM OF MA	
SANIT	ARY MANHOLE DETAIL.	
<u>8", 10</u>	INSIDE MANHOL 12" and 15	
BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S. Filename:	Inside Manhole Drop Connection 8",
	BTSA-SAN-13.dwg	10", 12", and 15" Diameter Sewer
1300 Brighton Road Beaver, Pennsylvania 15009	Date: January 2024	Pipes detail: btsa-san-13



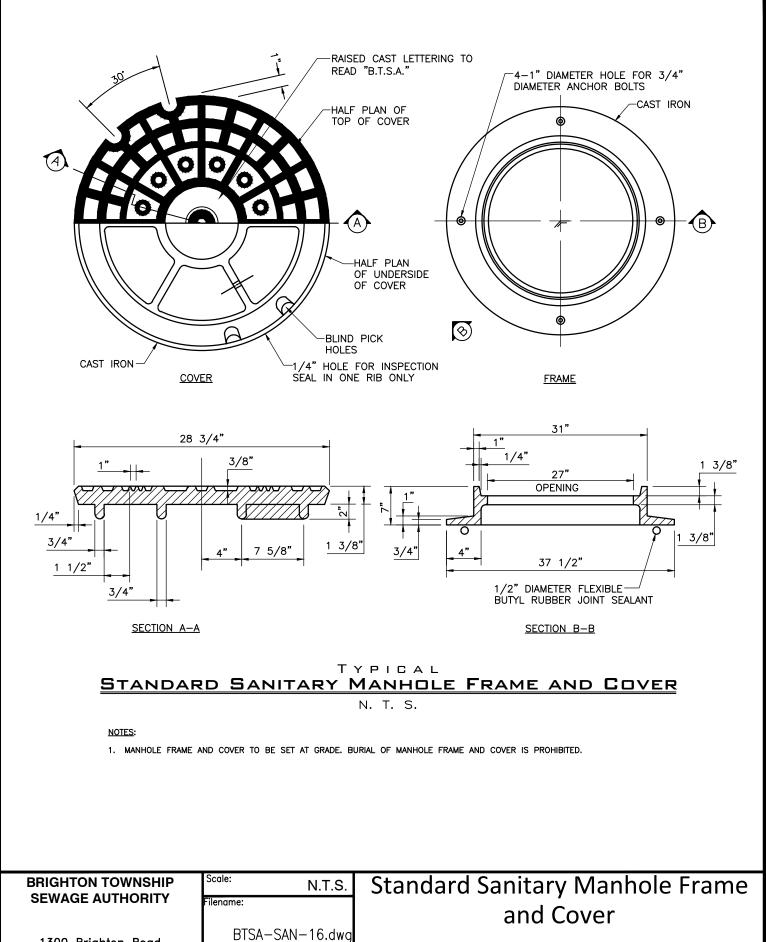
- NOTES: 1. CHANNELS TYPICAL, NUMBER AND LOCATION TO MEET FIELD CONDITIONS.
- 2. CHANNELS TO BE SEMI-CIRCULAR IN SECTION.
- 3. SLOPE MANHOLE FLOOR TO CHANNEL FOR DRAINAGE.
- 4. USE CLASS 'AAA' CONCRETE TO FORM CHANNELS AND HAVE A MINIMUM DEPTH OF 4 INCHES.
- 5. PROVIDE SMOOTH FLOAT FINISH. PROVIDE UNIFORM RADIUS.
- 6. PRE-POURED INVERTS PROHIBITED. ALL INVERTS TO BE FIELD POURED.
- 7. EDGE OF FILLET TO EXTEND 2" ABOVE INVERT AT PIPE.

TYPICAL MANHOLE CHANNELS N. T. S.

BRIGHTON TOWNSHIP	Scale: N.T.S.	Manhole Channels
SEWAGE AUTHORITY	Filename:	
1300 Brighton Road	BTSA-SAN-14.dwg	
Beaver, Pennsylvania 15009	Date: January 2024	DETAIL: BTSA-SAN-14



(\192.168.10.13\n-share\CAD\Details\Clients\BTSA\Dwg\BTSA-SAN-15.dwg Layout=SAN-15 Ladder Bars for Manhole User=Jeremy Durkota Plotted=1/9/2024 2:45 PM



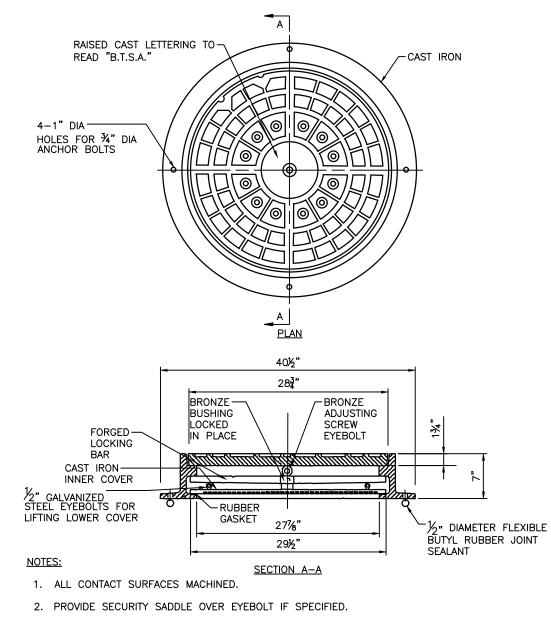
1300 Brighton Road

Beaver, Pennsylvania 15009

Date:

January 2024

DETAIL: BTSA-SAN-16

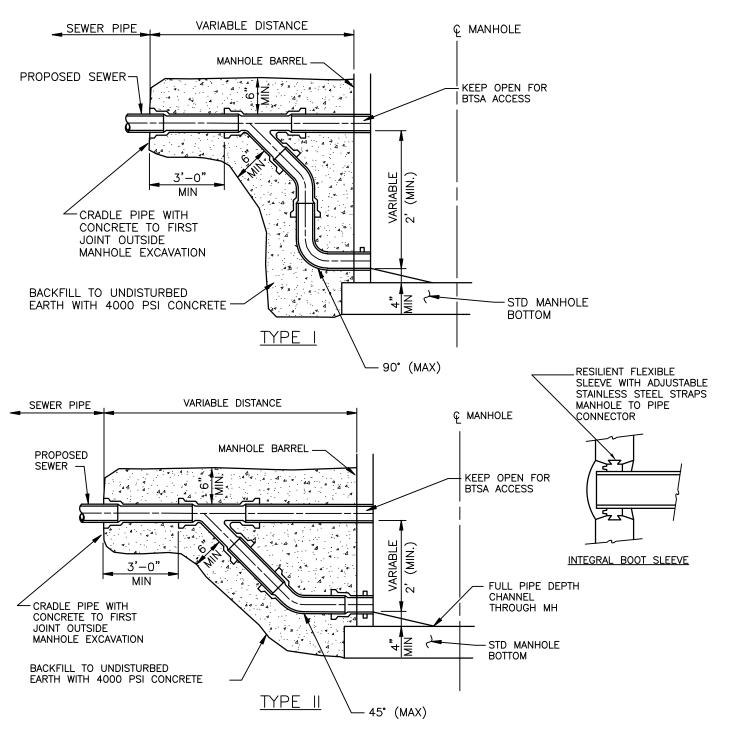


- 3. REFER TO STANDARD SANITARY MANHOLE FRAME AND COVER DETAIL FOR DETAIL ON COVER.
- 4. RAISED CAST LETTERING TO READ "B.T.S.A."
- 5. MANHOLE FRAME AND COVER TO BE SET AT GRADE. BURIAL OF MANHOLE FRAME AND COVER IS PROHIBITED.

WATERTIGHT SANITARY MANHOLE FRAME AND COVER

N. T. S.

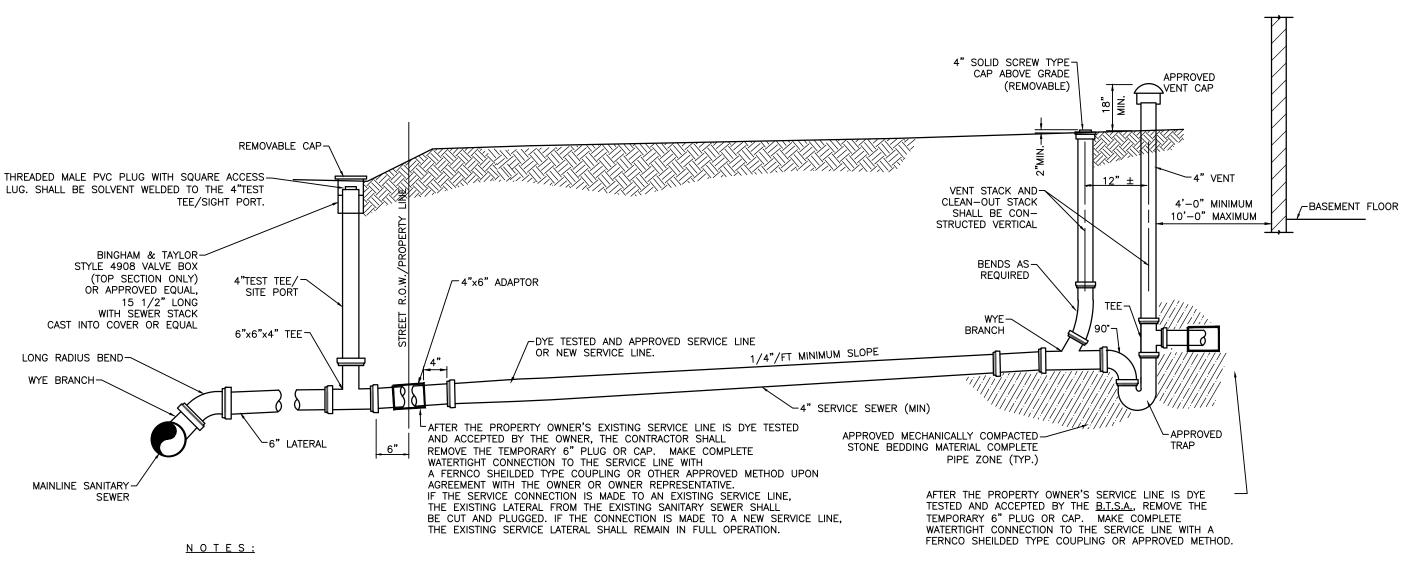
BRIGHTON TOWNSHIP	Scale: N.T.S.	Watertight Sanitary Manhole Frame
SEWAGE AUTHORITY	Filename:	and Cover (with Inner Cover Option)
1300 Brighton Road	BISA-SAN-17.0Wg	
Beaver, Pennsylvania 15009	Date: January 2024	DETAIL: BTSA-SAN-17



- 1. OUTSIDE DROP CONNECTIONS ARE PERMITTED ONLY WHEN CONNECTING TO EXISTING MANHOLES AND WITH APPROVAL FROM THE OWNER.
- 2. SEE STANDARD DRAWINGS AND SPECIFICATIONS FOR MANHOLE CONSTRUCTION REQUIREMENTS.
- 3. USE TYPE II UNLESS SHOWN OTHERWISE ON CONTRACT DRAWINGS.
- 4. ALL PIPING SHOWN TO BE DUCTILE IRON WITH EPOXY LINING. CONNECT TO UPSTREAM SEWER USING EPOXY COATED DRESSER COUPLING WITH STAINLESS STEEL NUTS AND BOLTS.

BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S. Filename:	Outside Drop Connection
1300 Brighton Road Beaver, Pennsylvania 15009	BTSA-SAN-18.dwg ^{Date:} January 2024	

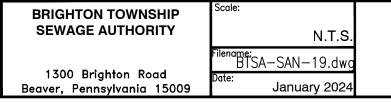
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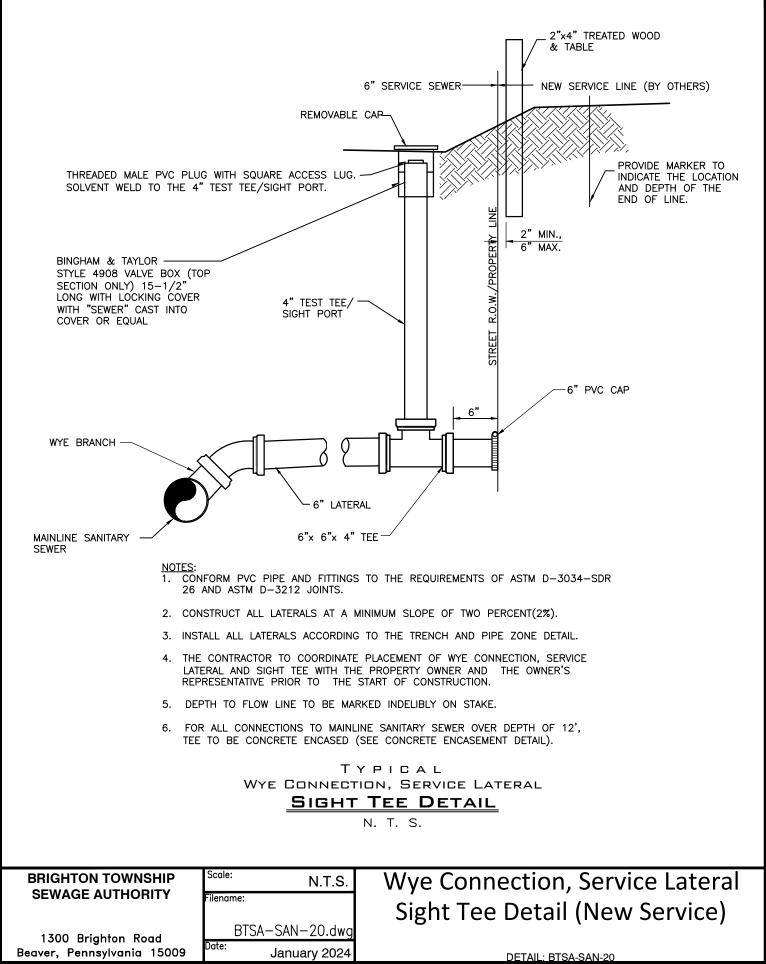
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF SERVICE LATERAL WITH PROPERTY OWNER TO BE SERVED.
- PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ASTM D-3034-SDR 26 AND ASTM D-3212 JOINTS. 2.
- PRIOR TO RECONNECTION TO THE EXISTING SERVICE LATERAL THE CONTRACTOR SHALL DYE TEST ROOF DOWN SPOUTS AND STORM WATER DRAIN LINES AS DETERMINED BY THE B.T.S.A. OR B.T.S.A. REPRESENTATIVE AND AT NO ADDITIONAL COST TO THE INSTALLATION. 3.
- THE CONTRACTOR SHALL SCHEDULE ALL HOUSE LATERAL CONNECTIONS WITH THE B.T.S.A. REPRESENTATIVE AND PROPERTY OWNER PRIOR TO START OF 4.
- CONSTRUCTION ON PRIVATE PROPERTY.
- PROVIDE A MINIMUM OF 42-INCHES OF COVER ALONG THE LENGTH OF SERVICE LATERAL LINE. 5.
- BTSA RESERVES THE RIGHT TO HAVE THE CONTRACTOR APPLY AN AIR TEST. AIR TEST TO BE PERFORMED BY PLUGGING FREE ENDS OF SEWER PIPING, INTRODUCING LOW PRESSURE AIR INTO SEALED SEWER SECTION UNTIL INTERNAL AIR PRESSURE IS 5 PSIG. MAINTAIN INTERNAL AIR PRESSURE OF 5 PSIG FOR 5 MINUTES WITH 6. 0.0 PSIG ALLOWABLE PRESSURE DROP FOR ACCEPTANCE.

TYPICAL SIGHT TEE, SERVICE LINE CLEANOUT AND VENT

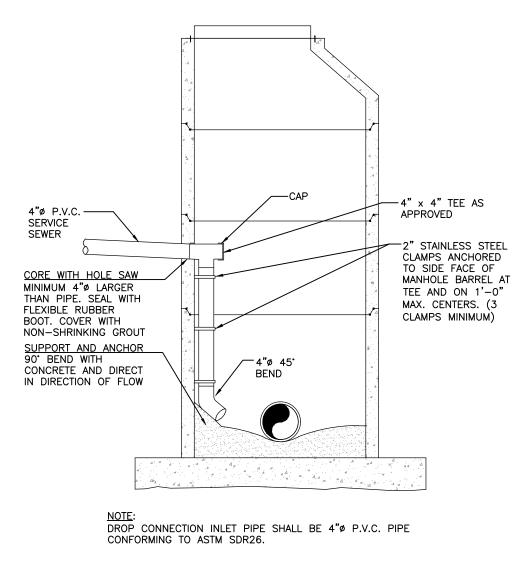
N. T. S.



Typical Sight Tee, Service Line **Cleanout and Vent**



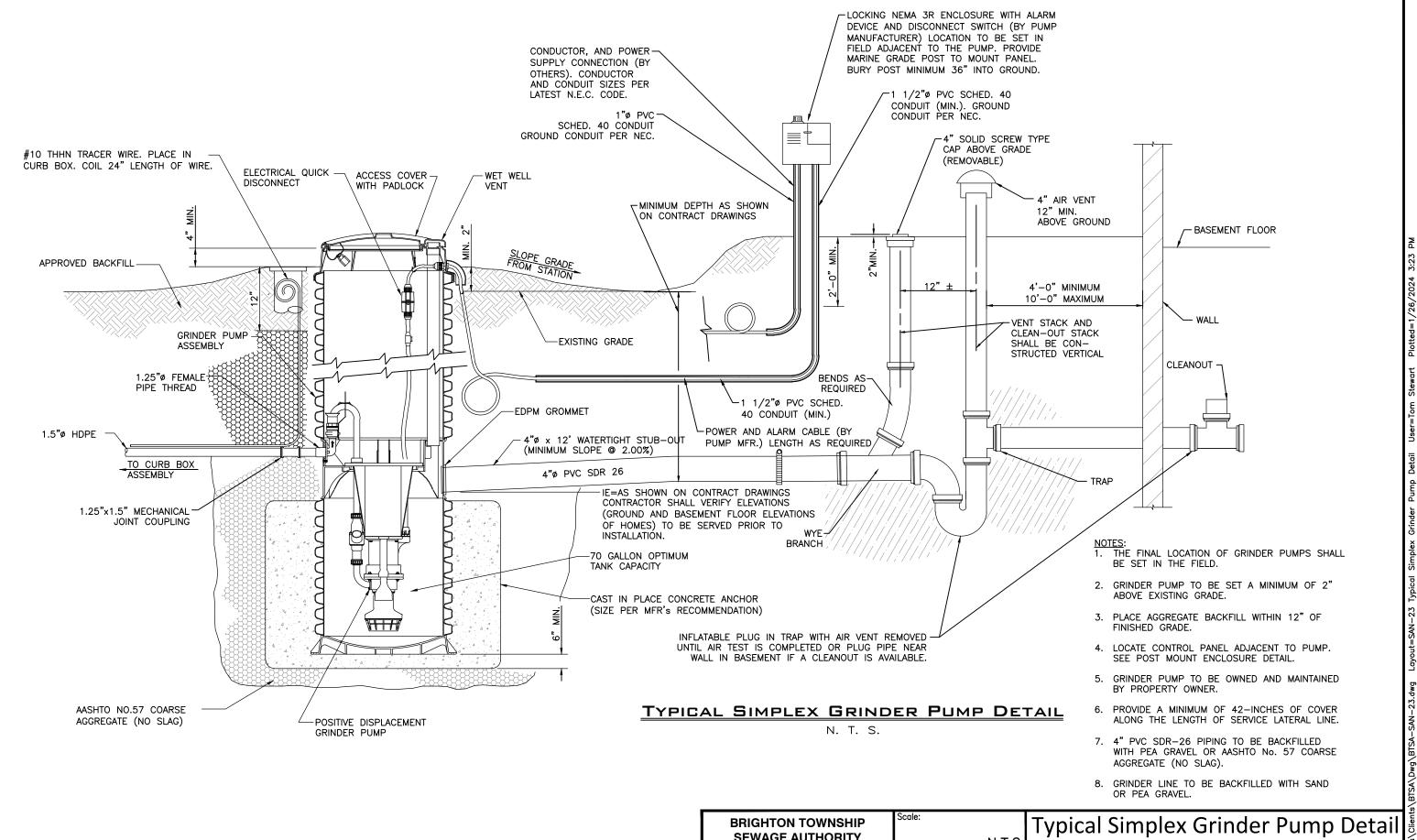
6" SERVICE SEWER EXISTING SERVICE SEWER REMOVABLE CAP THREADED MALE PVC PLUG WITH SQUARE ACCESS LUG. SOLVENT WELD TO THE 4" TEST TEE/SIGHT PORT. BINGHAM & TAYLOR STYLE 4908 VALVE BOX (TOP SECTION ONLY) 15 1/2" TEST TEE/ LONG WITH LOCKING COVER SITE PORT WITH SEWER STACK CAST INTO COVER OR EQUAL 6"x 6"x 4" TEE -DYE TESTED AND APPROVED SERVICE LINE OR NEW SERVICE LINE. WYE BRANCH <u>6</u>" 4"x6" ADAPTOR 6" LATERAL PROVIDE ALL PIPE, FITTINGS, AND/OR ADAPTERS TO MAKE COMPLETE WATERTIGHT CONNECTION TO THE SERVICE LINE WITH A SHIELDED FERNCO MAINLINE COUPLING OR OTHER APPROVED METHOD UPON AGREEMENT WITH THE AUTHORITY OR AUTHORITY SANITARY SEWER REPRESENTATIVE. PROVIDE ALL NECESSARY PIPE, FITTINGS AND/OR ADAPTERS TO MAKE A COMPLETE WATERTIGHT CONNECTION. WYE CONNECTION, SERVICE LATERAL, AND SIGHT TEE N. T. S. Wye Connection, Service Lateral Scale: **BRIGHTON TOWNSHIP** N.T.S. **SEWAGE AUTHORITY** ilename: Sight Tee Detail (Existing Service) BTSA-SAN-21.dwg 1300 Brighton Road Date: Beaver, Pennsylvania 15009 January 2024 DETAIL: BTSA-SAN-21





N. T. S.

	Scale:	
BRIGHTON TOWNSHIP	N.T.S.	Service Connection at Manhole
SEWAGE AUTHORITY	Filename:	
1300 Brighton Road	BTSA-SAN-22.dwg	
Beaver, Pennsylvania 15009	Date: January 2024	DETAIL: BTSA-SAN-22



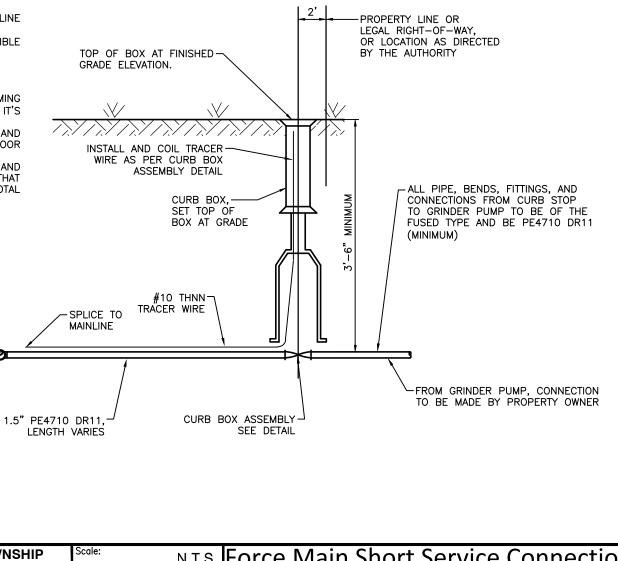


DETAIL: BTSA-SAN-23

- 1. THE CONTRACTOR AND/OR PROPERTY OWNER IS TO COORDINATE SERVICE LATERAL LOCATION WITH AN AUTHORITY REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- 2. EXCAVATOR IS RESPONSIBLE FOR ALL PA ONE CALLS.
- 3. AN AUTHORITY REPRESENTATIVE SHALL BE PRESENT DURING THE CONSTRUCTION OF THE SERVICE LATERAL, ANY CONNECTION TO AUTHORITY LINES, AND/OR TESTING. THIS INSPECTION SHOULD BE COORDINATED BY THE CONTRACTOR AND THE AUTHORITY.
- 4. SERVICE LATERAL FROM CURB BOX ASSEMBLY TO MAINLINE SHALL BE HYDROSTATICALLY TESTED PRIOR TO DISCHARGE.
- 5. THE CONTRACTOR AND/OR PROPERTY OWNER IS RESPONSIBLE FOR RESTORING SITE TO ORIGINAL CONDITIONS.

DISCLAIMER:

- 1. THE AUTHORITY IS NOT RESPONSIBLE FOR, NOR CLAIMING OWNERSHIP OF ANY GRINDER PUMPS INSTALLED ALONG WITH IT'S INDIVIDUAL GRINDER LINE.
- 2. IT IS THE ONUS OF THE PROPERTY OWNER TO INSTALL AND MAINTAIN THE GRINDER PUMP. ANY MALFUNCTIONS OR POOR PERFORMANCE WILL NOT BE INVESTIGATED BY THE AUTHORITY.
- 3. IT IS THE ONUS OF THE PROPERTY OWNER TO PURCHASE AND INSTALL A POSITIVE DISPLACEMENT GRINDER PUMP THAT AVERAGES 15 GALLONS PER MINUTE AT 60 FEET OF TOTAL DYNAMIC HEAD.

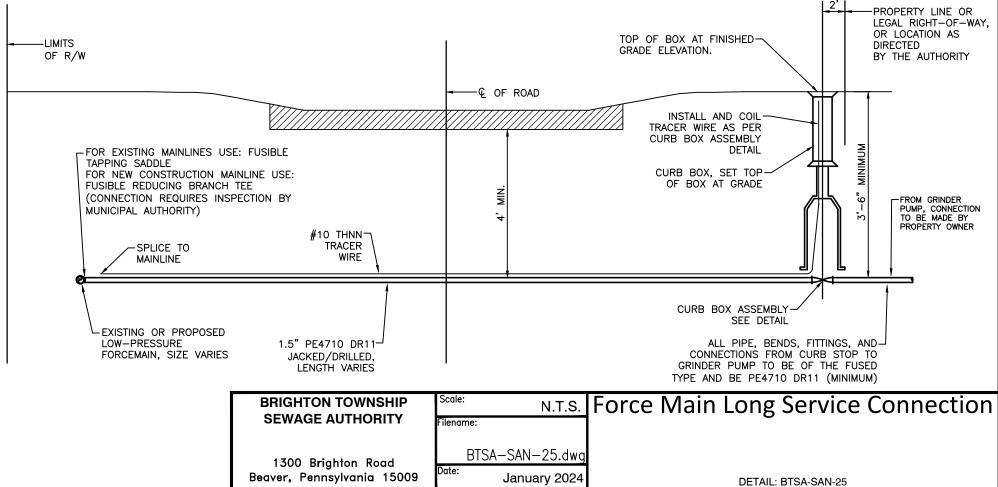


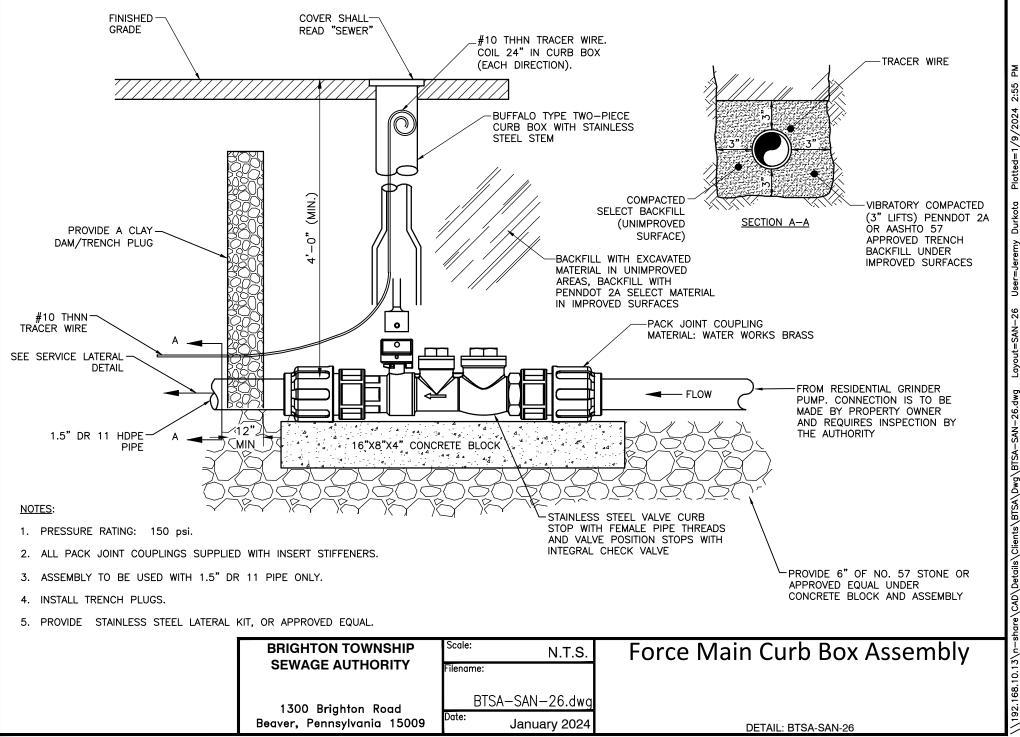
BRIGHTON TOWNSHIP SEWAGE AUTHORITY	Scale: N.T.S. Filename:	Force Main Short Service Connection	/ - t = = =
1300 Brighton Road Beaver, Pennsylvania 15009	BTSA-SAN-24.dwg ^{Dote:} January 2024		

- 1. THE CONTRACTOR AND/OR PROPERTY OWNER IS TO COORDINATE SERVICE LATERAL LOCATION WITH AN AUTHORITY REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION.
- 2. EXCAVATOR IS RESPONSIBLE FOR ALL PA ONE CALLS.
- 3. AN AUTHORITY REPRESENTATIVE SHALL BE PRESENT DURING THE CONSTRUCTION OF THE SERVICE LATERAL, ANY CONNECTION TO AUTHORITY LINES, AND/OR TESTING. THIS INSPECTION SHOULD BE COORDINATED BY THE CONTRACTOR AND THE AUTHORITY.
- 4. SERVICE LATERAL FROM CURB BOX ASSEMBLY TO MAINLINE SHALL BE HYDROSTATICALLY TESTED PRIOR TO DISCHARGE.
- 5. THE CONTRACTOR AND/OR PROPERTY OWNER IS RESPONSIBLE FOR RESTORING SITE TO ORIGINAL CONDITIONS.

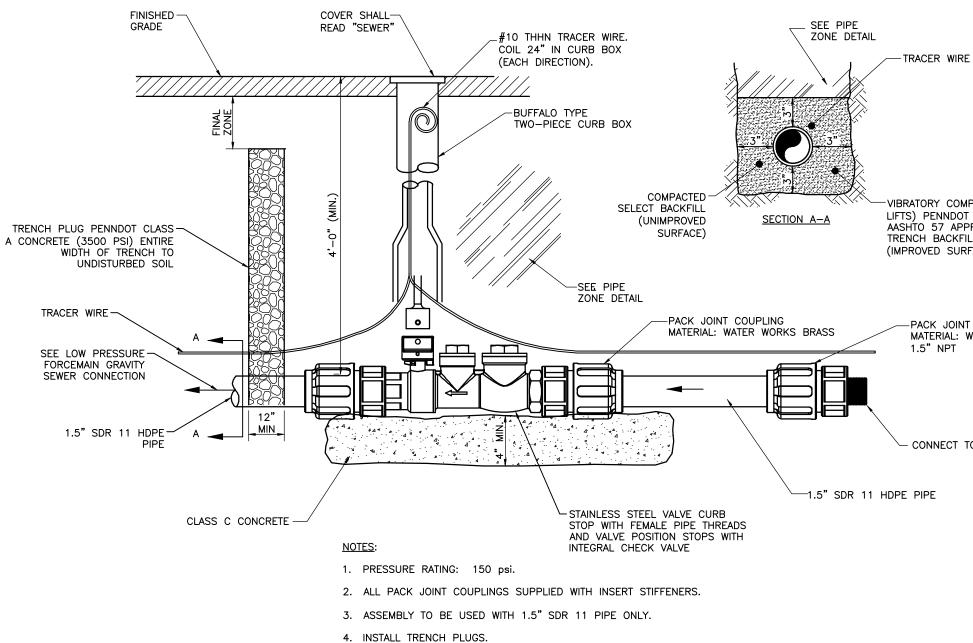
DISCLAIMER:

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- 2. IT IS THE ONUS OF THE PROPERTY OWNER TO INSTALL AND MAINTAIN THE GRINDER PUMP. ANY MALFUNCTIONS OR POOR PERFORMANCE WILL NOT BE INVESTIGATED BY THE AUTHORITY.
- 3. IT IS THE ONUS OF THE PROPERTY OWNER TO PURCHASE AND INSTALL A POSITIVE DISPLACEMENT GRINDER PUMP THAT AVERAGES 15 GALLONS PER MINUTE AT 60 FEET OF TOTAL DYNAMIC HEAD.





Plotted=1/9/2024 2:55 Durkota User=Jeremy Layout=SAN-26 (192.168.10.13/n-share\CAD\Details\Clients\BTSA\Dwg\BTSA-SAN-26.dwg



5. PROVIDE EONE SEWER SYSTEMS STAINLESS STEEL LATERAL KIT, PART NUMBER NC0193G01, OR APPROVED EQUAL.

CURB BOX ASSEMBLY & LOW PRESSURE SEWER PIPE ZONE

N. T. S.

BRIGHTON TOWNSHIP	Scale:	
SEWAGE AUTHORITY	N.T.S.	
	Filename: BTSA-SAN-27.dwg	
1300 Brighton Road Beaver, Pennsylvania 15009	Date: January 2024	
		_

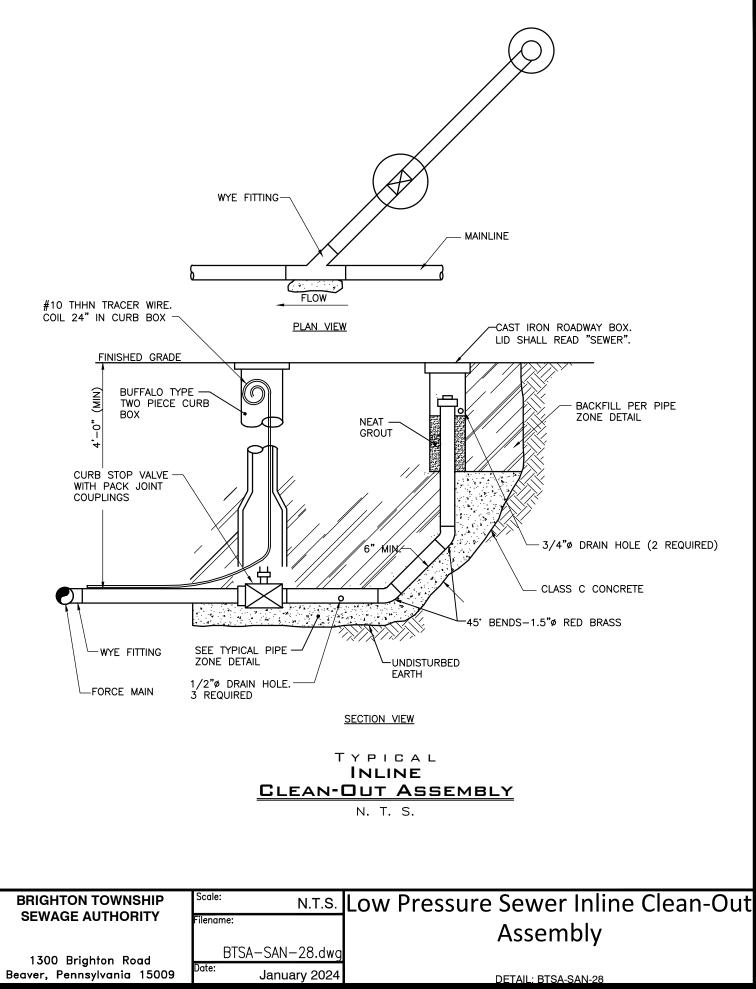
VIBRATORY COMPACTED (3" LIFTS) PENNDOT 2A OR AASHTO 57 APPROVED TRENCH BACKFILL (IMPROVED SURFACES)

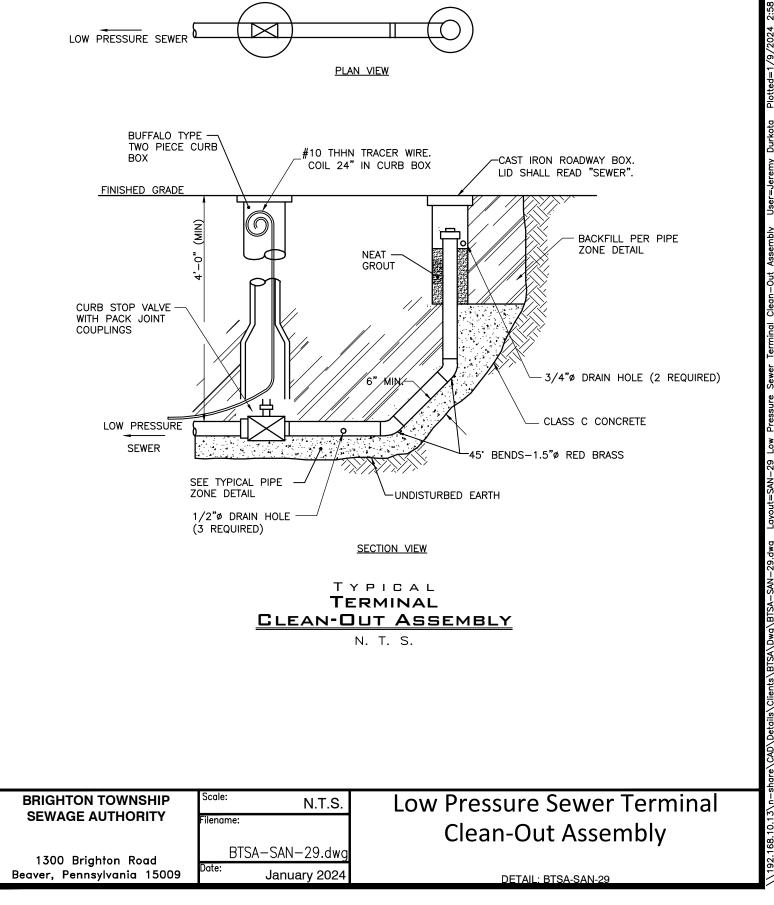
-PACK JOINT COUPLING MATERIAL: WATER WORKS BRASS

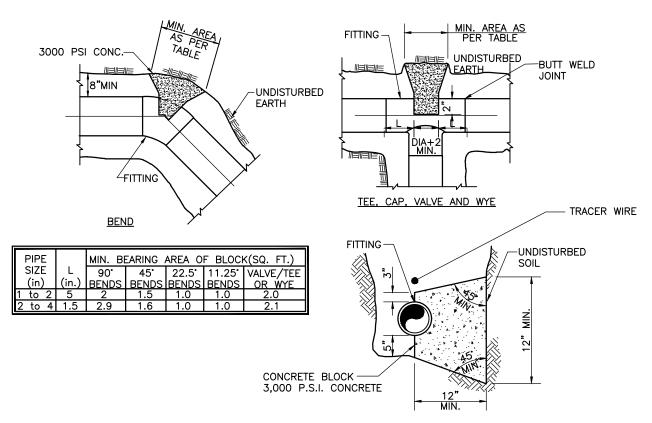
- CONNECT TO GRINDER PUMP

Curb Box Assembly

DETAIL: BTSA-SAN-27



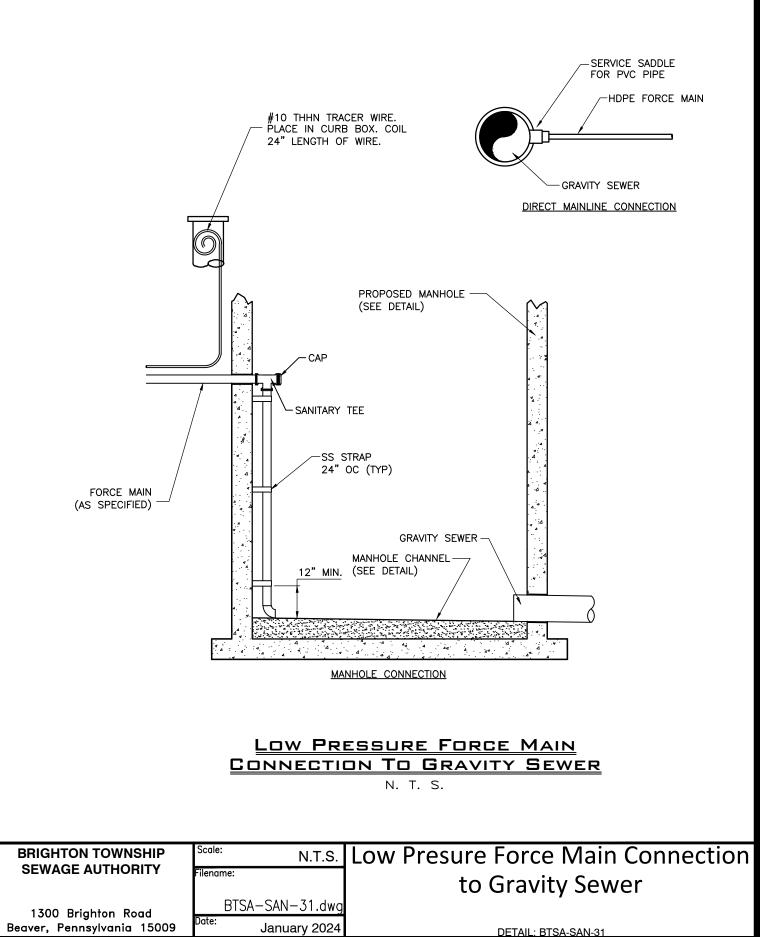




- 1. EARTH PRESSURE = 2,000 LBS./SQ.FT.
- 2. APPLIED PRESSURE = 150 P.S.I.+50% FOR WATER HAMMER OR SURGE.
- 3. IF EARTH IN FIELD WILL NOT SUPPORT THE ABOVE EARTH PRESSURE, AREA OF BLOCK MUST BE INCREASED PROPORTIONATELY.
- 4. CONCRETE TO BE 3,300 P.S.I., CLASS 'A', 3" SLUMP.

LOW PRESSURE (SEWER) HORIZONTAL THRUST BLOCKING DETAIL N. T. S.

BRIGHTON TOWNSHIP	Scale: N.T.S.	Low Pressure (Sewer) Horizontal
SEWAGE AUTHORITY	Filename:	Thrust Blocking Detail
1300 Brighton Road	BTSA-SAN-30.dwg	
Beaver, Pennsylvania 15009	January 2024	DETAIL: BTSA-SAN-30



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