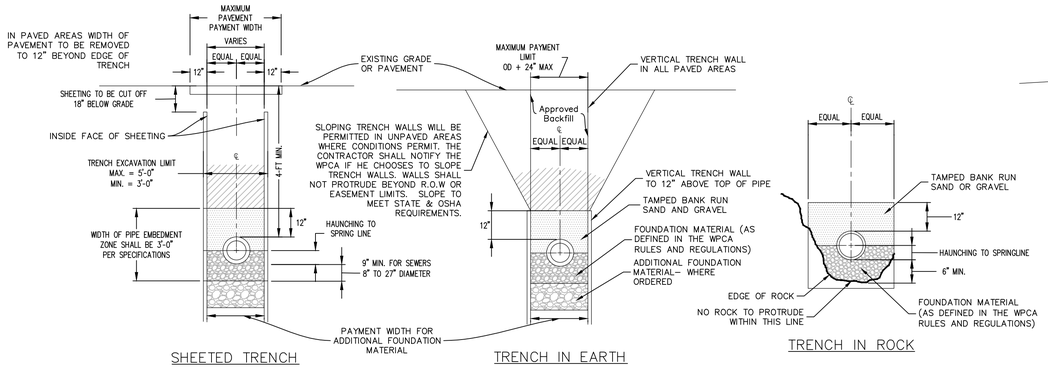
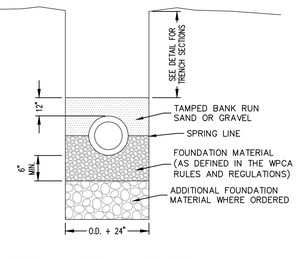
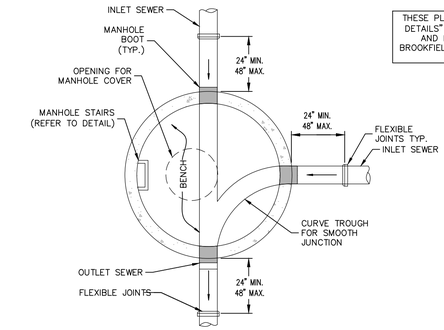


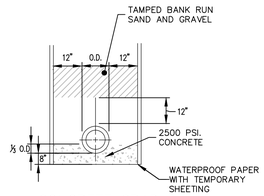


TYPICAL TRENCH SECTION FOR HOUSE CONNECTION (6" OR SMALLER)

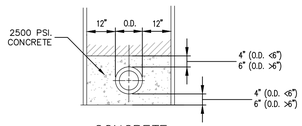


PLAN

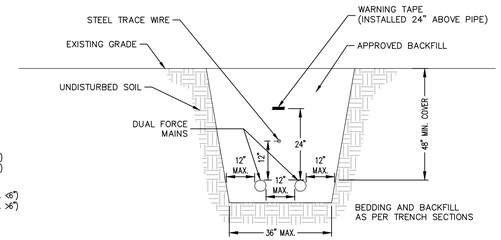
THESE PLANS OF "STANDARD CONSTRUCTION DETAILS" ACCOMPANY THE ADOPTED RULES AND REGULATIONS OF THE TOWN OF BROOKFIELD, CONNECTICUT, WATER POLLUTION CONTROL AUTHORITY



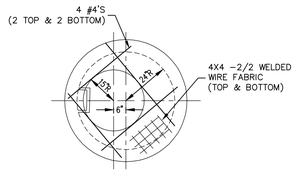
CONCRETE CRADLE ON EARTH



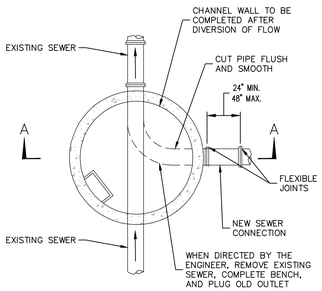
CONCRETE ENCASEMENT



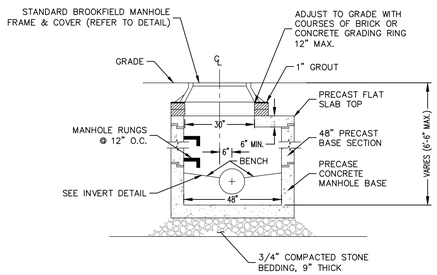
DUAL FORCE MAIN TRENCH DETAIL



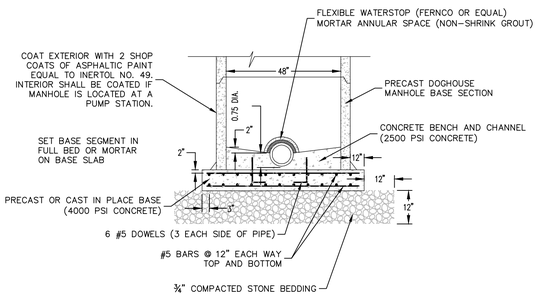
FLAT SLAB TOP



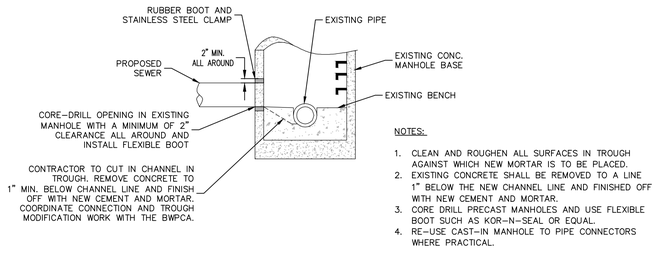
DOGHOUSE MANHOLE



SECTION SHALLOW MANHOLE



DOGHOUSE MANHOLE SECTION A-A



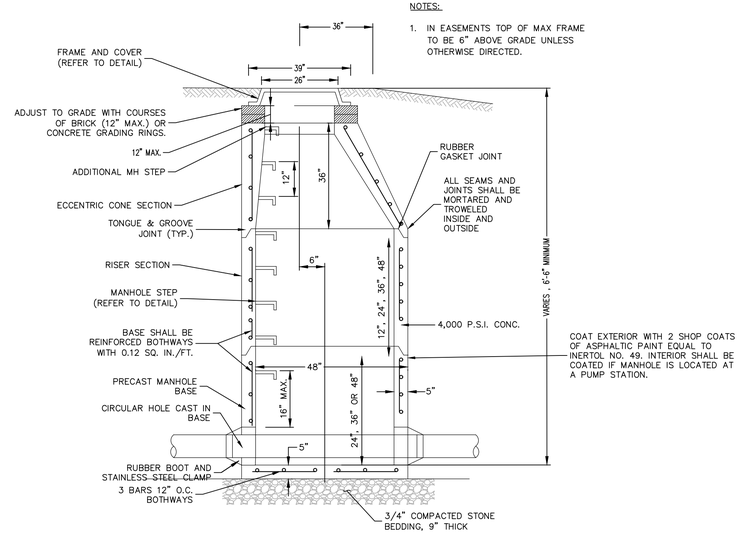
NOTES:

1. CLEAN AND ROUGHEN ALL SURFACES IN TROUGH AGAINST WHICH NEW MORTAR IS TO BE PLACED.
2. EXISTING CONCRETE SHALL BE REMOVED TO A LINE 1" BELOW THE NEW CHANNEL LINE AND FINISHED OFF WITH NEW CEMENT AND MORTAR.
3. CORE DRILL PRECAST MANHOLES AND USE FLEXIBLE BOOT SUCH AS KOR-N-SEAL OR EQUAL.
4. RE-USE CAST-IN MANHOLE TO PIPE CONNECTORS WHERE PRACTICAL.

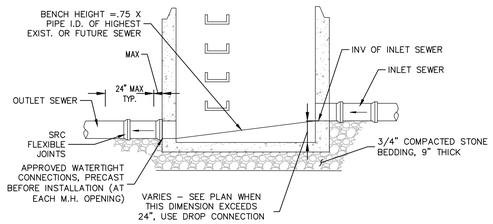
PROPOSED CONNECTION TO EXISTING SEWER MANHOLE

NOTES:

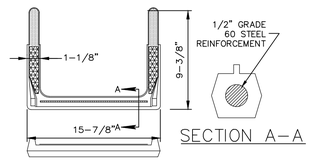
1. IN EASEMENTS TOP OF MAX FRAME TO BE 6" ABOVE GRADE UNLESS OTHERWISE DIRECTED.



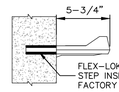
SANITARY PRECAST REINFORCED CONCRETE MANHOLE ASSEMBLY



MANHOLE INVERT DETAIL



SECTION A-A



NOTES:
1. STEP CONSISTS OF COPOLYMER POLYPROPYLENE PLASTIC
2. CAMPBELL FOUNDRY PAT. 2593, 2254 OR EQUAL.

PLASTIC MANHOLE STEP

Date	Description	No.
10/28/26	REVISED DETAILS	1.

REVISIONS

SIGNATURE DATE SIGNED

W. CHARLES UTSCHIG, JR.
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Project

WATER POLLUTION CONTROL AUTHORITY

TOWN OF BROOKFIELD
FAIRFIELD COUNTY CONNECTICUT

Drawing Title

STANDARD CONSTRUCTION DETAILS

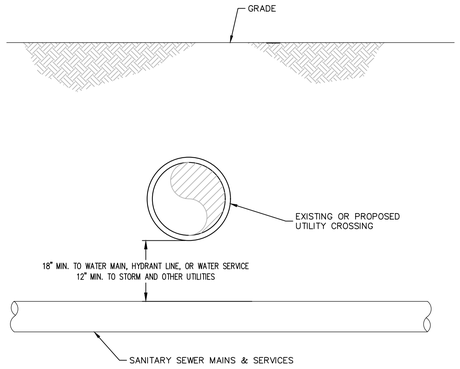
Project No.	Drawing No.
190085105	CS501
Date: 06/26/2024	
Drawn By: AC	
Checked By: RS/LM	

Sheet 1 of 4

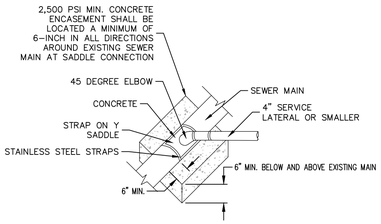
LANGAN

PROJECT NO. 190085105

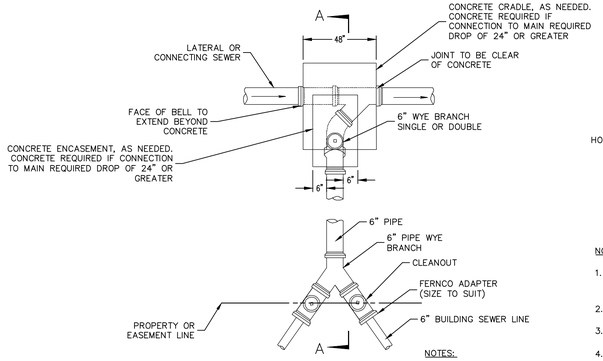
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UTILITY CROSSING



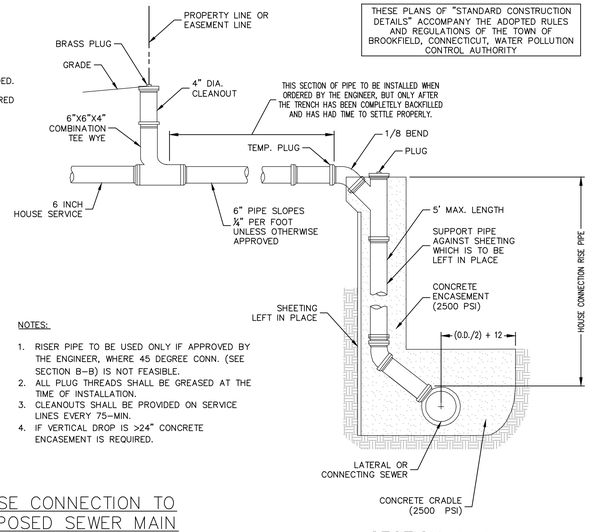
RESIDENTIAL / HOUSE SERVICE LATERAL CONNECTION TO EXISTING SEWER MAIN



DOUBLE PLAN VIEW

NOTES:

1. DROP CONNECTION TO BE USED ONLY WHERE 45 DEGREE CONNECTION IS NOT FEASIBLE.



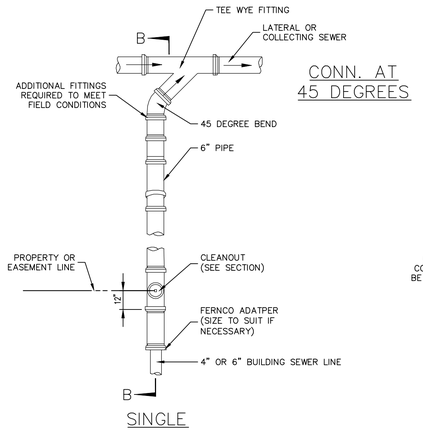
SECTION A–A

NOTES:

1. RISER PIPE TO BE USED ONLY IF APPROVED BY THE ENGINEER, WHERE 45 DEGREE CONN. (SEE SECTION B–B) IS NOT FEASIBLE.
2. ALL PLUG THREADS SHALL BE GREASED AT THE TIME OF INSTALLATION.
3. CLEANOUTS SHALL BE PROVIDED ON SERVICE LINES EVERY 75–MIN.
4. IF VERTICAL DROP IS >24" CONCRETE ENCASEMENT IS REQUIRED.

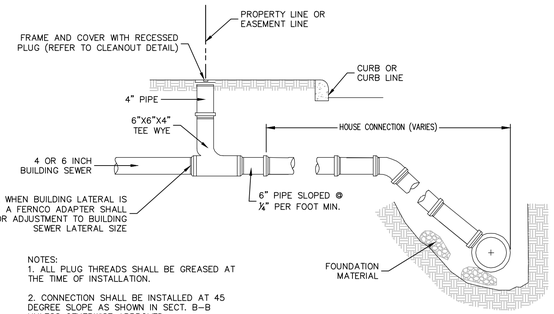
HOUSE CONNECTION TO PROPOSED SEWER MAIN WITH VERTICAL DROP

THESE PLANS OF "STANDARD CONSTRUCTION DETAILS" ACCOMPANY THE ADOPTED RULES AND REGULATIONS OF THE TOWN OF BROOKFIELD, CONNECTICUT, WATER POLLUTION CONTROL AUTHORITY



SINGLE

CONN. AT 45 DEGREES



NOTES:
1. ALL PLUG THREADS SHALL BE GREASED AT THE TIME OF INSTALLATION.

2. CONNECTION SHALL BE INSTALLED AT 45 DEGREE SLOPE AS SHOWN IN SECT. B–B UNLESS OTHERWISE APPROVED.

3. THIS DETAIL IS TO BE USED IN ALL AREAS EXCEPT WHEN THE CLEANOUT IS IN A PAVED AREA OR SIDEWALK.

SECTION B–B

HOUSE CONNECTION DETAILS

DROP MANHOLE PLAN

DROP MANHOLE – EXTERNAL SECTION

DROP MANHOLE – INTERNAL SECTION

NOTE:
1. FRAME AND COVER SHALL BE MODEL NO. 1203B AS MANUFACTURERED BY CAMPBELL FOUNDRY OR APPROVED EQUAL. MODEL NO 1203A = 4" FRAME HEIGHT.
2. MANHOLE COVER SHALL SAY "BROOKFIELD SEWER."
3. MATERIAL: GRAY CAST IRON, ASTM A48–83, CLASS 35B;
4. AASHTO HS20–44 HIGHWAY LOADING;
5. BEARING SURFACE AT SEAT OF COVER AND FRAME SHALL BE MACHINED FOR UNIFORMED FIT;
6. COVER SHALL HAVE TWO NON–PENETRATING PICK HOLES;
7. MADE IN THE USA.

MANHOLE FRAME & COVER

SANITARY SEWER CLEAN–OUT FRAME AND COVER DETAIL

Date	Description	No.
10/28/26	REVISED DETAILS	1.

REVISIONS

SIGNATURE DATE SIGNED

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Project

WATER POLLUTION CONTROL AUTHORITY

TOWN OF BROOKFIELD
FAIRFIELD COUNTY CONNECTICUT

Drawing Title

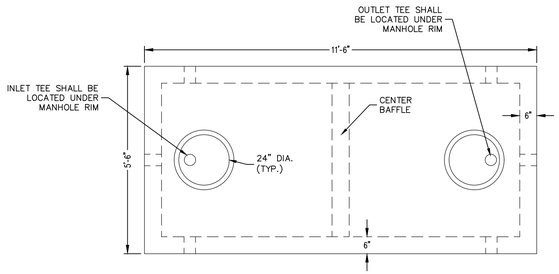
STANDARD CONSTRUCTION DETAILS

Project No. 190085105	Drawing No. CS502
Date 06/26/2024	
Drawn By AC	
Checked By RS/LM	Sheet 2 of 4

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PROJECT NO. 190085105

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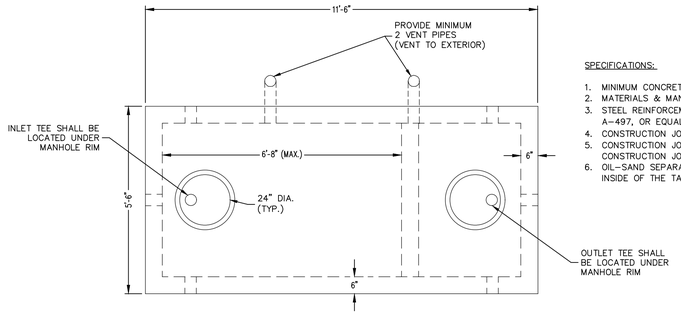
THESE PLANS OF "STANDARD CONSTRUCTION DETAILS" ACCOMPANY THE ADOPTED RULES AND REGULATIONS OF THE TOWN OF BROOKFIELD, CONNECTICUT, WATER POLLUTION CONTROL AUTHORITY



H-20 GREASE TRAP

SPECIFICATIONS:

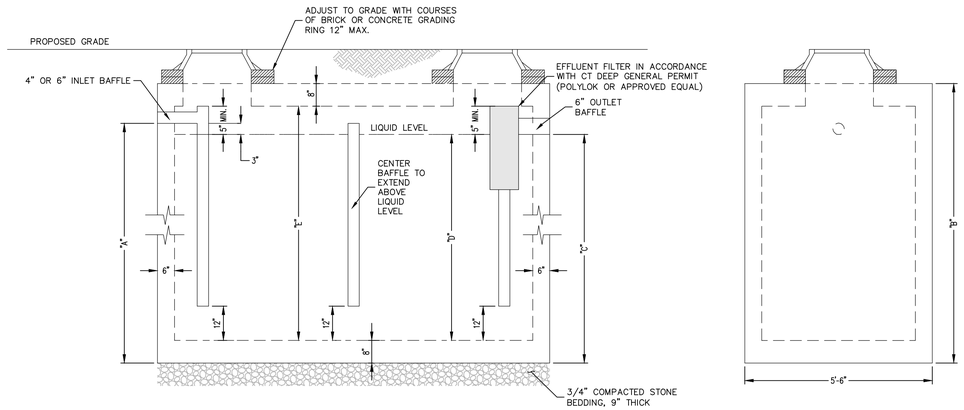
1. MINIMUM CONCRETE STRENGTH – 5,000 PSI @ 28 DAYS.
2. GREASE TRAP SHALL BE PRODUCED WITH 4.0% TO 7.0% AIR ENTRAINMENT.
3. MATERIALS & MANUFACTURING PER ASTM C-1227.
4. STEEL REINFORCEMENT – WELDED DEFORMED BARS 4"x4" D6.5/D6.5 (GR. 80) ASTM A-497, OR EQUAL.
5. CONSTRUCTION JOINT SEALED WITH 1" BUTYL MASTIC ASTM C-990.
6. 6" DIA. OUTLET TEE EQUIPPED WITH GAS DEFLECTOR OR EFFLUENT FILTER.
7. 4"-6" PIPE SEALS: RISSY PLASTICS MINI BOOT, OR EQUAL, MEETS PRESSURE REQUIREMENTS OF ASTM C-923.
8. CAPACITY @ FLOW LINE: 1,026 GALLONS.
9. 28.5 GALLONS/INCH OF RISE.
10. APPROXIMATE ASSEMBLED WEIGHT: 19,800 LBS.
11. CONSTRUCTION JOINT ON 1000 GAL IS ABOVE STATIC LIQUID LEVEL. CONSTRUCTION JOINT OR LARGER SIZES IS BELOW STATIC LEVEL.
12. GREASE TRAP SHALL BE A MINIMUM OF 10-FT FROM THE BUILDING FACE.
13. SEPARATION DISTANCES SHALL COMPLY WITH CTDOH TABLE 1 AS LISTED IN THE APPENDIX TO THE BROOKFIELD WPCA RULES AND REGULATIONS.
14. GREASE TRAPS SHALL BE SUPPLIED WITH AN EPOXY COATING ON THE INSIDE OF THE TANK AND A TAR COATING ON THE OUTSIDE OF THE TANK.



H-20 OIL – SAND SEPARATOR

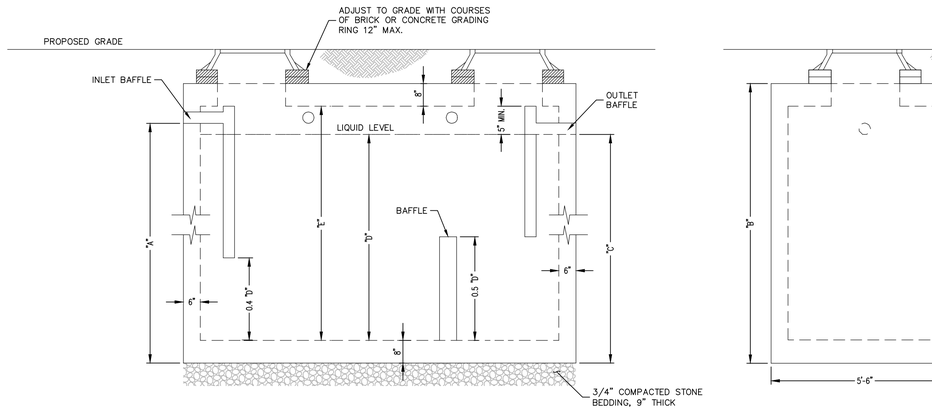
SPECIFICATIONS:

1. MINIMUM CONCRETE STRENGTH – 5,000 PSI @ 28 DAYS.
2. MATERIALS & MANUFACTURING PER ASTM C-1227.
3. STEEL REINFORCEMENT – WELDED DEFORMED BARS 4"x4" (GR. 60) ASTM A-497, OR EQUAL.
4. CONSTRUCTION JOINT SEALED WITH 1" BUTYL MASTIC ASTM C-990.
5. CONSTRUCTION JOINT ON 1000 GAL IS ABOVE STATIC LIQUID LEVEL. CONSTRUCTION JOINT ON LARGER SIZES IS BELOW STATIC LEVEL.
6. OIL-SAND SEPARATOR SHALL BE SUPPLIED WITH AN EPOXY COATING ON THE INSIDE OF THE TANK AND A TAR COATING ON THE OUTSIDE OF THE TANK.

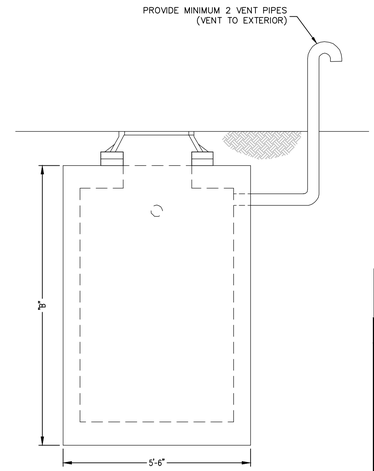


TANK CAPACITY	"A" INLET HGT.	"B" O.A. HGT.	"C" OUTLET HGT.	"D" LIQUID LEVEL	"E" INSIDE HGT.
1000 GAL. *	47"	61"	44"	36"	45"
1250 GAL.	56"	70"	53"	45"	54"
1500 GAL.	66"	79"	63"	55"	63"
2000 GAL.	82"	95"	79"	71"	79"
2500 GAL.	102"	115"	98"	92"	99"
3000 GAL.	117"	130"	114"	108"	114"
3500 GAL.	135"	148"	132"	124"	132"

* 1000 GALLONS MINIMUM SIZE



TANK CAPACITY	"A" INLET HGT.	"B" O.A. HGT.	"C" OUTLET HGT.	"D" LIQUID LEVEL	"E" INSIDE HGT.
1000 GAL.	47"	61"	44"	36"	45"
1250 GAL.	56"	70"	53"	45"	54"
1500 GAL.	66"	79"	63"	55"	63"
2000 GAL.	82"	95"	79"	71"	79"
2500 GAL.	102"	115"	98"	92"	99"
3000 GAL.	117"	130"	114"	108"	114"
3500 GAL.	135"	148"	132"	124"	132"



Date	Description	No.
10/28/26	REVISED DETAILS	1.

REVISIONS

SIGNATURE DATE SIGNED

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Project

WATER POLLUTION CONTROL AUTHORITY

TOWN OF BROOKFIELD
FAIRFIELD COUNTY CONNECTICUT

Drawing Title

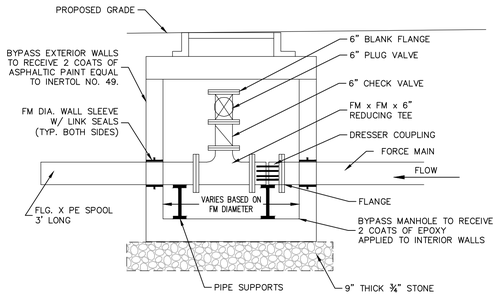
STANDARD CONSTRUCTION DETAILS

Project No.	Drawing No.
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Date: 06/26/2024	
Drawn By: AC	
Checked By: RS/LM	Sheet 3 of 4

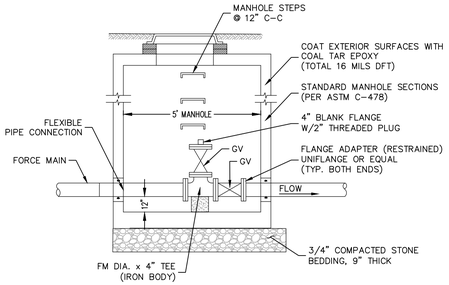
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PROJECT NO. 190085105

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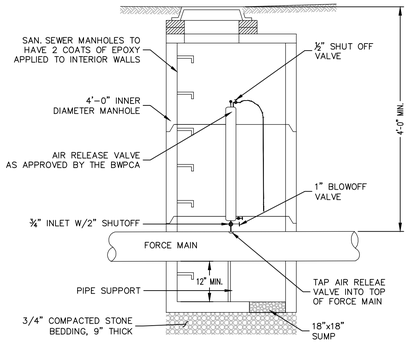
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PUMP STATION BYPASS CONNECTION



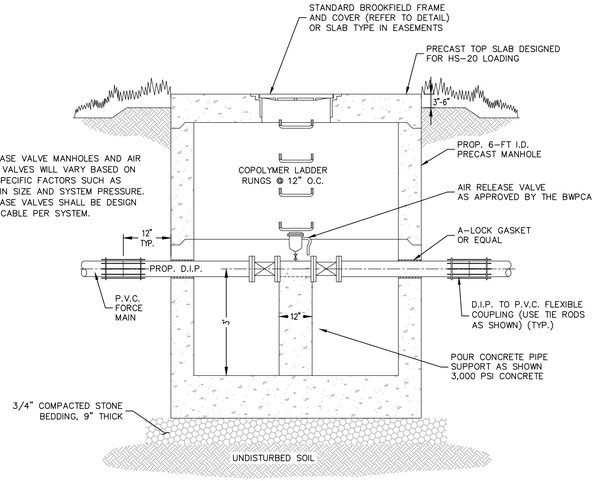
FORCE MAIN CLEANOUT MANHOLE
(4"–12" FORCE MAINS)



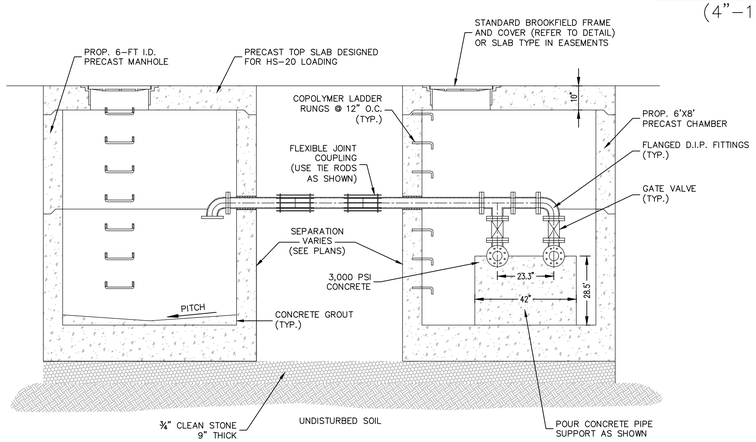
AIR RELEASE VALVE MANHOLE

NOTE:

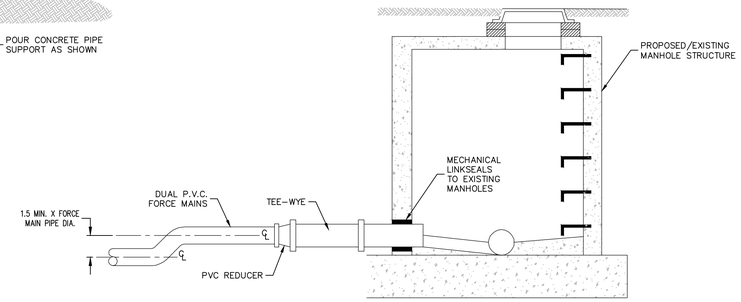
1. AIR RELEASE VALVE MANHOLES AND AIR RELEASE VALVES WILL VARY BASED ON DESIGN SPECIFIC FACTORS SUCH AS FORCEMAIN SIZE AND SYSTEM PRESSURE. AIR RELEASE VALVES SHALL BE DESIGN AS APPLICABLE PER SYSTEM.



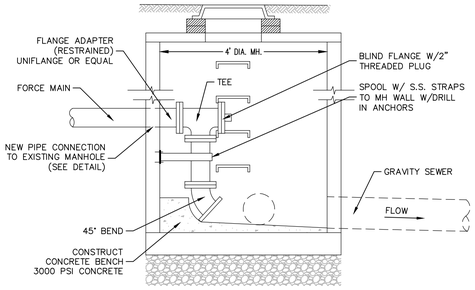
DUAL AIR RELEASE VALVE MANHOLE
SECTION A–A



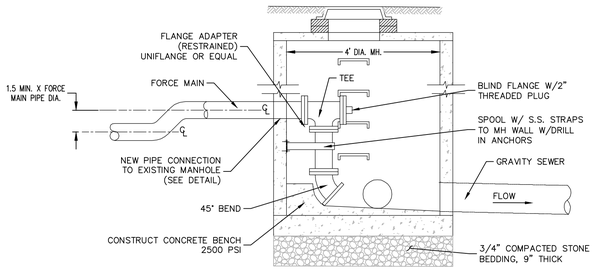
DUAL FORCE MAIN BLOWOFF MANHOLE
SECTION A–A



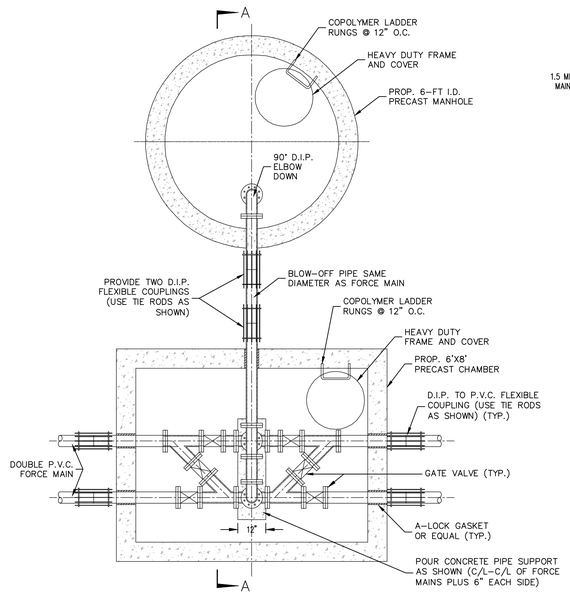
DUAL FORCE MAIN CONNECTION
TO MANHOLE AT COMMON INVERTS



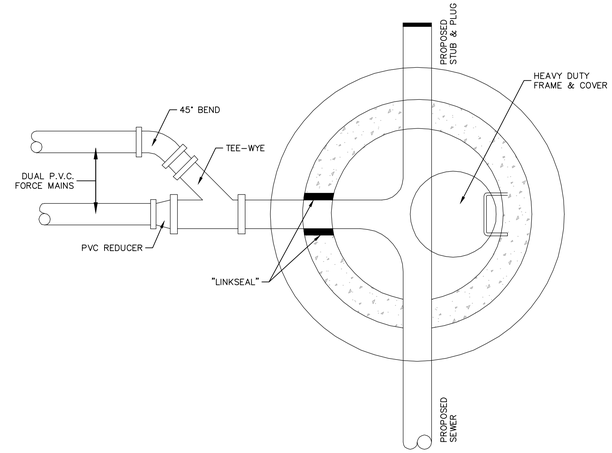
SINGLE FORCE MAIN DROP CONNECTION TO
GRAVITY SEWER MANHOLE



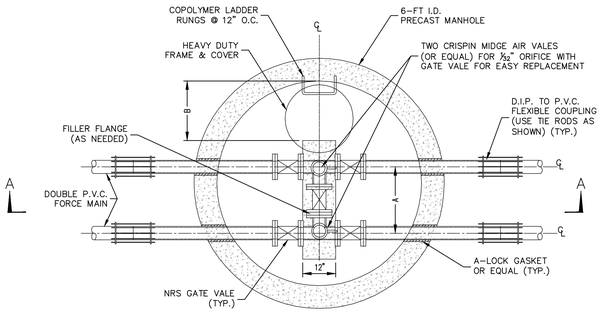
DUAL FORCE MAIN DROP
CONNECTION TO GRAVITY SEWER



DUAL FORCE MAIN BLOWOFF MANHOLE DETAIL



DUAL FORCE MAIN CONNECTION PLAN VIEW



DUAL FORCE RELEASE VALE MANHOLE DETAIL

	FORCE MAIN DIA.	
	4"	6"
A	22" (MIN.)	26.5" (MIN.)
B	22" (MIN.)	22" (MIN.)

THESE PLANS OF "STANDARD CONSTRUCTION DETAILS" ACCOMPANY THE ADOPTED RULES AND REGULATIONS OF THE TOWN OF BROOKFIELD, CONNECTICUT, WATER POLLUTION CONTROL AUTHORITY.

Date	Description	No.
10/28/26	REVISED DETAILS	1.

REVISIONS

SIGNATURE DATE SIGNED
W. CHARLES UTSCHIG, JR.
PROFESSIONAL ENGINEER CT Lic. No. 0019262

LANGAN
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Project
WATER POLLUTION CONTROL AUTHORITY
TOWN OF BROOKFIELD
FAIRFIELD COUNTY CONNECTICUT

Drawing Title
STANDARD CONSTRUCTION DETAILS

Project No.	190085105
Date	06/26/2024
Drawn By	AC
Checked By	RS/LM

Drawing No. CS504

Sheet 4 of 4

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PROJECT NO. 190085105

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Filename: \\langan.com\data\WPW\data1\190085105\Project Data\Specifications_CURRENT DETAILS\190085105-0101-CS501-0101.dwg Date: 10/7/2026 Time: 18:39 User: lmceneaney Style Table: Langan.stb Layout: CS504