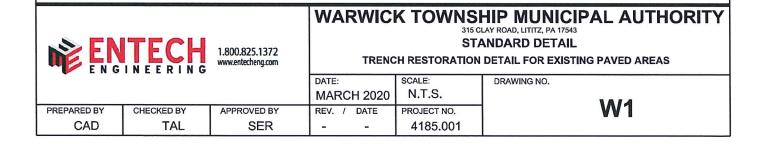
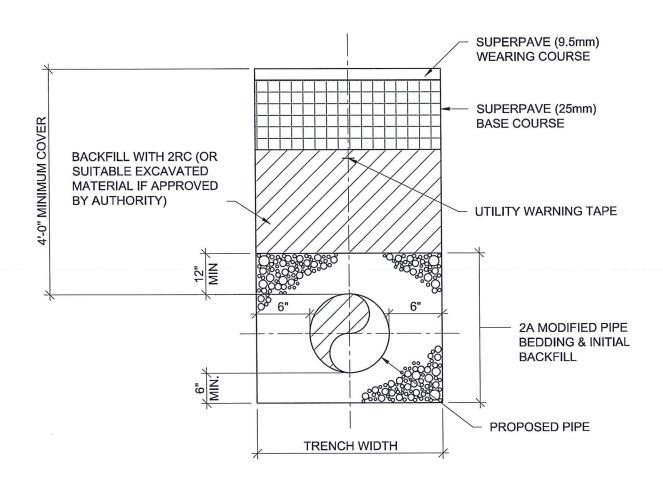


# **TOWNSHIP PAVEMENT RESTORATION NOTES:**

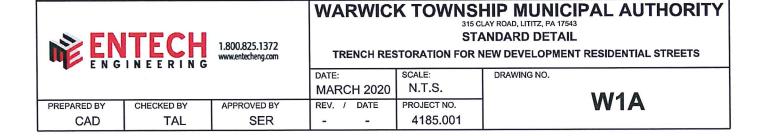
- RESTORE WITH SUPERPAVE (25mm) TO SURFACE AND ALLOW TO SETTLE FOR 90 DAYS. SUPERPAVE DEPTH OF 6-1/2" OR TO MATCH EXISTING PAVING, WHICHEVER IS GREATER.
- MILL RESTORED AREA PLUS 1 FOOT TO EACH SIDE OF TRENCH TO 1-1/2" DEPTH.
- 3. PAVE MILLED AREA WITH 1-1/2" OF SUPERPAVE (9.5mm).
- SEAL EDGES WITH PG64-22.
- PAVEMENT SAWCUTTING SHALL PROVIDE A CLEAN AND NEAT EDGE AT RIGHT ANGLES OF SURFACE OF PAVEMENT TO REMAIN.

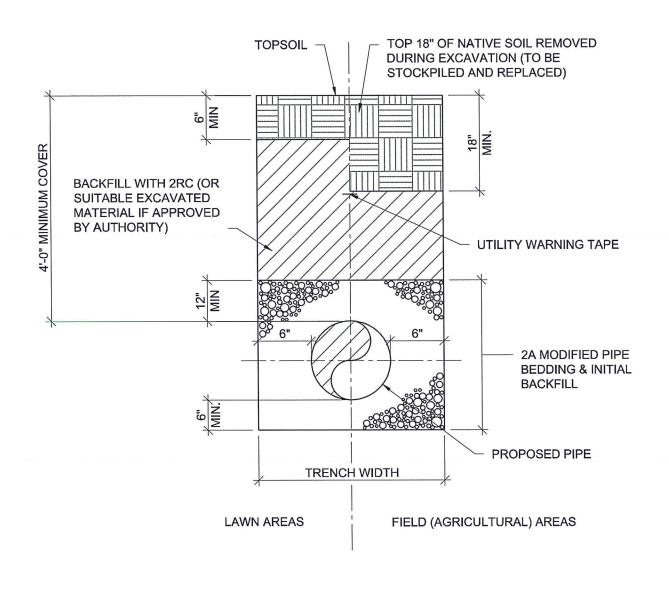


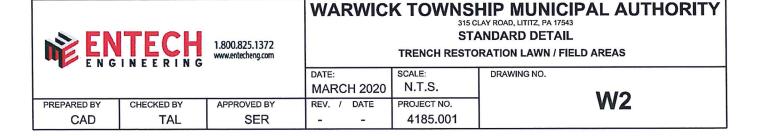


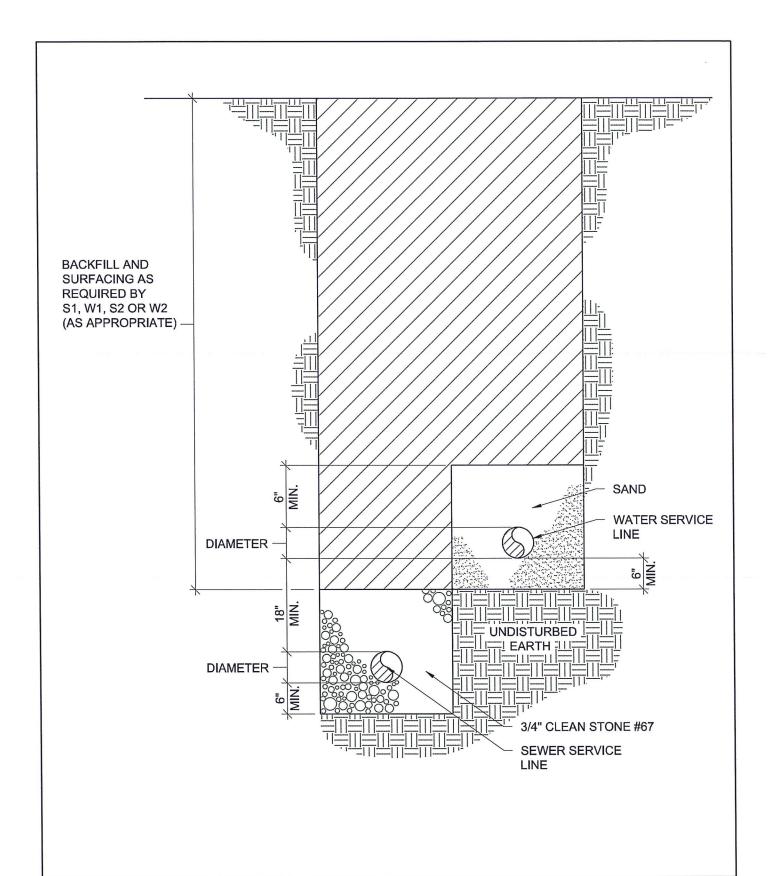
## **NEW DEVELOPMENT RESIDENTIAL STREET PAVMENT NOTES:**

- RESTORE WITH SUPERPAVE (25mm) TO SURFACE AND ALLOW TO SETTLE FOR 90 DAYS.
- 2. FINAL PAVE WITH SUPERPAVE (9.5mm)
- 3. PAVEMENT CROSS SECTION AS REQUIRED BY TOWNSHIP.











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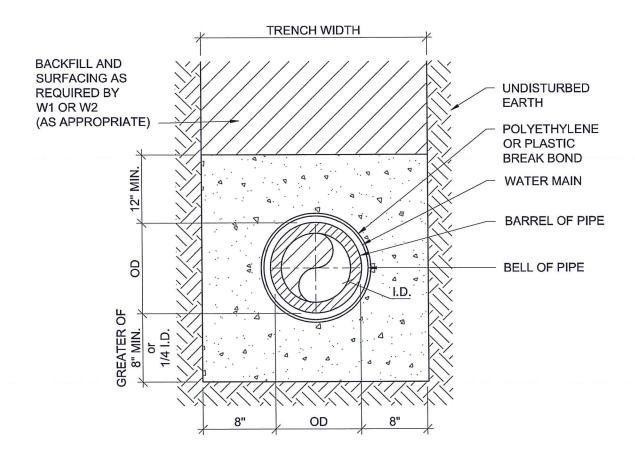
# WARWICK TOWNSHIP MUNICIPAL AUTHORITY

315 CLAY ROAD, LITITZ, PA 17543

STANDARD DETAIL

COMBINED WATER / SEWER TRENCH (LATERALS ONLY)

|            |             | DATE:  |        | SCALE:      | DRAWING NO. |             |   |
|------------|-------------|--------|--------|-------------|-------------|-------------|---|
|            |             | MARC   | H 2020 | N.T.S.      |             | W3          | 1 |
| CHECKED BY | APPROVED BY | REV. / | DATE   | PROJECT NO. |             | <b>VV</b> 3 |   |
| TAL        | SER         | -      | -      | 4185.001    |             |             |   |



NOTE: ALL CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT THE END OF 28 DAYS.



DATE: SCALE: N.T.S.

APPROVED BY REV. / DATE PROJECT NO.

SER - - 4185.001

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**WARWICK TOWNSHIP MUNICIPAL AUTHORITY** 

315 CLAY ROAD, LITITZ, PA 17543

STANDARD DETAIL

CONCRETE SLOPE COLLAR ANCHOR

DRAWING NO.

| DATE:<br>MARCH 2020 | SCALE: N.T.S. PROJECT NO. |  |  |  |  |
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| REV. / DATE         | PROJECT NO.               |  |  |  |  |
|                     | 4185.001                  |  |  |  |  |

**W5** 

| HORIZON   | HORIZONTAL BENDS  |       |     |     |     |           |         |  |
|-----------|---|-------|-----|-----|-----|-----------|---------|--|
| NOMINAL   | NOMINAL LENGTH OF PIPE RESTRAINT REQUIRED PER FITTING IN FEET |       |     |     |     |           |         |  |
| PIPE DIA. | 11.25°  | 22.5° | 45° | 90° | TEE | CAP/VALVE | REDUCER |  |
| 4         | 2   | 3     | 6   | 13  | 11  | 14        |         |  |
| 6         | 2   | 4     | 8   | 19  | 16  | 20        | 10      |  |
| 8         | 3   | 5     | 10  | 25  | 23  | 26        | 11      |  |
| 10        | 3   | 6     | 13  | 30  | 28  | 32        | 11      |  |
| 12        | 4   | 7     | 15  | 35  | 34  | 38        | 11      |  |
| 16        | 5   | 10    | 19  | 46  | 46  | 49        | 21      |  |

| VERTICAL  | VERTICAL BENDS  |         |       |    |          |         |          |    |
|-----------|---|---------|-------|----|----------|---------|----------|----|
|           | LENGTH OF PIPE RESTRAINT REQUIRED PER FITTING IN FEET |         |       |    |          |         |          |    |
| NOMINAL   | <b>VERTICAL</b>                                       | UP BEND | ANGLE |    | VERTICAL | DOWN BE | ND ANGLE |    |
| PIPE DIA. | PIPE DIA. 11.25° 22.5° 45° 90° 11.25° 22.5° 45° 90°   |         |       |    |          |         | 90°      |    |
| 4         | 2   | 3       | 6     | 13 | 3        | 6       | 12       | 28 |
| 6         | 2   | 4       | 8     | 19 | 4        | 8       | 16       | 39 |
| 8         | 3   | 5       | 10    | 25 | 6        | 11      | 22       | 52 |
| 10        | 10 3 6 13 30 7 13 26 63                               |         |       |    |          |         |          |    |
| 12        | 4   | 7       | 15    | 35 | 8        | 15      | 31       | 75 |
| 16        | 5   | 10      | 19    | 46 | 10       | 20      | 41       | 98 |

- LENGTHS ARE BASED ON THE DUCTILE IRON PIPE RESEARCH ASSOCIATION THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE ONLINE CALCULATOR, ACCESSED 01/03/2020. ASSUMING THE FOLLOWING: TRENCH - TYPE 5, SOIL - CLAY 1, BURY DEPTH 4', PRESSURE 150 PSI, SAFETY FACTOR 1.5, AND TEE RUN LENGTH TO FIRST JOINT 6'.
- 2. LENGTHS ARE PROVIDED FOR DUCTILE IRON PIPE WITHOUT POLYETHYLENE WRAP. POLYETHYLENE WRAP WILL REQUIRE ADDITIONAL RESTRAINT LENGTH TO BE DETERMINED ON AN AS NEEDED BASIS BY WTMA ENGINEER.
- 3. REDUCER LENGTHS ARE GIVEN FROM THE INDICATED SIZE TO THE NEXT SMALLER SIZE. REDUCER RESTRAINT LENGTHS SHOULD BE ADDED IF GREATER REDUCTION IS REQUIRED (I.E. 16" TO 8" = 21+11+11 = 43 FEET)



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# WARWICK TOWNSHIP MUNICIPAL AUTHORITY

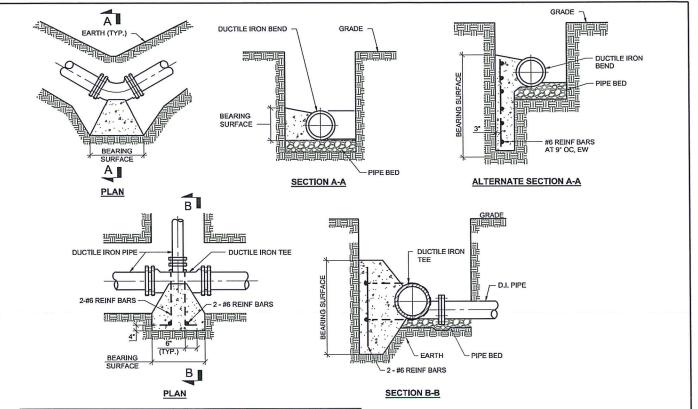
315 CLAY ROAD, LITITZ, PA 17543
STANDARD DETAIL

RESTRAINED PIPE LENGTH SCHEDULE

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| DATE:  |        | SCALE:      |
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| MARC   | H 2020 | N.T.S.      |
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**W6** 



#### THRUST BLOCKING SCHEDULE OF DIMENSIONS

MINIMUM SQUARE FEET OF BEARING SURFACE REQUIRED FOR HORIZONTAL THRUST
BLOCKING AND VERTICAL THRUSTS DOWNWARD
\* BASED UPON 150 PSI PRESSURE \*

| PIPE SIZES -                              |         | 4", 6"   | AND 8"  |        | 10" AND 12"               |         |       |       |
|---|---------|----------|---------|--------|---------------------------|---------|-------|-------|
| TYPE OF BEARING MATERIAL                  | DEGRE   | E BEND ( | OR DEFL | ECTION | DEGREE BEND OR DEFLECTION |         |       |       |
| AND ALLOWABLE LOADS                       | 11 1/4° | 22 1/2°  | 45°     | 90°    | 11 1/4°                   | 22 1/2° | 45°   | 90°   |
| SAND 1 TON/SQ FT<br>SOFT CLAY 1 TON/SQ FT | 1.50    | 3.00     | 6.00    | 12.00  | 3.00                      | 6.00    | 12.00 | 24.50 |
| SAND & GRAVEL<br>2 TON/SQ FT              | 1.00    | 1.50     | 3.00    | 6.00   | 1.50                      | 3.00    | 6.00  | 12.00 |
| CLAY 3 TON/SQ FT                          | 1.00    | 1.00     | 2.00    | 4.00   | 1.00                      | 2.00    | 4.00  | 8.00  |
| SOFT ROCK 5 TON/SQ FT                     | 1.00    | 1.00     | 1.00    | 2.50   | 1.00                      | 1.00    | 2.50  | 5.00  |
| ROCK 20 TON/SQ FT                         | 1.00    | 1.00     | 1.00    | 1.00   | 1.00                      | 1.00    | 1,00  | 1.00  |

MINIMUM SQUARE FEET OF BEARING SURFACE REQUIRED FOR HORIZONTAL THRUST
BLOCKING AND VERTICAL THRUSTS DOWNWARD
BASED UPON 150 PSI PRESSURE \*

APPROVED BY

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| PIPE SIZES -                              |                           | 1       | 6"    |       |  |  |  |
|---|---------------------------|---------|-------|-------|--|--|--|
| TYPE OF BEARING MATERIAL                  | DEGREE BEND OR DEFLECTION |         |       |       |  |  |  |
| AND ALLOWABLE LOADS                       | 11 1/4°                   | 22 1/2° | 45°   | 90°   |  |  |  |
| SAND 1 TON/SQ FT<br>SOFT CLAY 1 TON/SQ FT | 5.50                      | 11.00   | 21.50 | 43.00 |  |  |  |
| SAND & GRAVEL<br>2 TON/SQ FT              | 2.50                      | 5.50    | 11.00 | 21.50 |  |  |  |
| CLAY 3 TON/SQ FT                          | 2.00                      | 3.50    | 7.00  | 14.00 |  |  |  |
| SOFT ROCK 5 TON/SQ FT                     | 1.00                      | 2.00    | 4.50  | 8.50  |  |  |  |
| ROCK 20 TON/SQ FT                         | 1.00                      | 1.00    | 1.00  | 2.00  |  |  |  |

#### NOTES:

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT THE END OF 28 DAYS. POURED CONCRETE OR SAKCRETE ONLY.
- ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS.
- INSTALL CONCRETE THRUST BLOCKS AT EACH ELBOW, TEE AND CAPPED OR VALVED END FITTINGS LOCATED IN THE HORIZONTAL PLANE.
- 4. PAINT ALL EXPOSED STEEL WITH TWO COATS OF ASPHALT PAINT.
- 5. NO COUPLING OR JOINTS SHALL BE COVERED WITH CONCRETE.
- STAINLESS STEEL ALL-THREADS WITH PIPE STRAPS MAY BE USED IN PLACE OF REINFORCING BARS.
- ALL THRUST BLOCKS SHOWN ARE INTENDED AS A GUIDE AND SHALL WITHSTAND THE REQUIRED PRESSURE.
- 8. MEGALUGS REQUIRED ON ALL MECHANICAL JOINT FITTINGS.
- CERTAIN SITUATIONS MAY WARRANT THE USE OF TIE RODS AS INDICATED ON THIS DETAIL OR AS REQUIRED BY THE AUTHORITY.
- 10. PIPING SHALL BE WRAPPED WITH POLYETHYLENE PRIOR TO PLACEMENT OF CONCRETE.
- 11. FOR SOIL BEARING VALUES LESS THAN 1 TON / SQ. FT., CONSULT WITH AUTHORITY ENGINEER FOR RECOMMENDATION.
- 12. CONCRETE QUANTITY TO BE IN ACCORDANCE WITH THIS DETAIL. MINIMUM AMOUNT OF CONCRETE MUST BE INSTALLED.



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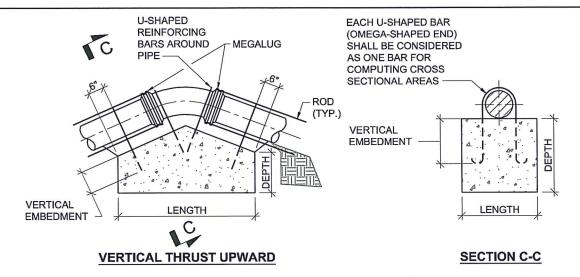
# WARWICK TOWNSHIP MUNICIPAL AUTHORITY

315 CLAY ROAD, LITITZ, PA 17543

STANDARD DETAIL

HORIZONTAL THRUST BLOCKING

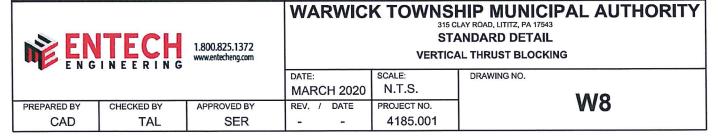
|   | DATE:<br>MARCH 2020 | SCALE:<br>N.T.S. | DRAWING NO. |
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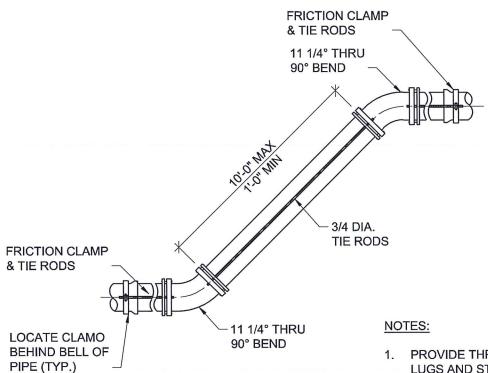


| VERTICAL                     | VERTICAL THRUST BLOCKING UPWARD THRUSTS SCHEDULE OF DIMENSIONS * BASED UPON 150 PSI PRESSURE * |         |      |         |           |      |         |         |       |
|------------------------------|--|---------|------|---------|-----------|------|---------|---------|-------|
| PIPE SIZE                    | PIPE SIZE 4", 6" AND 8"  |         |      | 1       | 0" AND 12 | 2"   | 16"     |         |       |
| DEGREE BEND OR<br>DEFLECTION | 11 1/4°  | 22 1/2° | 45°  | 11 1/4° | 22 1/2°   | 45°  | 11 1/4° | 22 1/2° | 45°   |
| LENGTH                       | 3.00   | 4.00    | 6.00 | 4.50    | 6.00      | 8.00 | 6.00    | 8.00    | 11.00 |
| WIDTH                        | 3.00   | 3.00    | 3.00 | 3.00    | 3.00      | 4.00 | 3.50    | 3.50    | 5.00  |
| DEPTH                        | 2.00   | 3.00    | 4.00 | 3.00    | 4.50      | 5.00 | 3.50    | 5.00    | 5.00  |
| SQ. IN. REINFORCING          | 0.17   | 0.33    | 0.65 | 0.37    | 0.74      | 1.46 | 0.66    | 1.32    | 2.60  |

| BAR NO.                     | 5      | 6    | 7    | 8    | 9    | 10   | 11   |
|-----------------------------|--------|------|------|------|------|------|------|
| CROSS-SECTIO<br>IN? PER BAR | N 0.31 | 0.44 | 0.60 | 0.79 | 1.00 | 1.27 | 1.56 |
| VERTICAL<br>EMBEDMENT       | 15"    | 19"  | 26"  | 35"  | 44"  | 56"  | 68"  |

- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT THE END OF 28 DAYS. POURED CONCRETE OR SAKCRETE ONLY.
- 2. ALL REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS.
- 3. INSTALL CONCRETE THRUST BLOCKS AT EACH ELBOW, TEE AND CAPPED OR VALVED END FITTINGS LOCATED IN THE VERTICAL PLANE.
- 4. PAINT ALL EXPOSED STEEL WITH TWO COATS OF ASPHALT PAINT.
- 5. NO COUPLING OR JOINTS SHALL BE COVERED WITH CONCRETE.
- 6. STAINLESS STEEL ALL-THREADS WITH PIPE STRAPS MAY BE USED IN PLACE OF REINFORCING BARS.
- 7. ALL THRUST BLOCKS SHOWN ARE INTENDED AS A GUIDE AND SHALL WITHSTAND THE REQUIRED PRESSURE.
- 8. MEGALUGS REQUIRED ON ALL MECHANICAL JOINT FITTINGS.
- 9. CERTAIN SITUATIONS MAY WARRANT THE USE OF TIE RODS AS INDICATED ON THIS DETAIL OR AS REQUESTED BY THE AUTHORITY.
- 10. PIPING SHALL BE WRAPPED WITH POLYETHYLENE PRIOR TO PLACEMENT OF CONCRETE.
- 11. FOR SOIL BEARING VALUES LESS THAN 1 TON / SQ. FT., CONSULT WITH AUTHORITY ENGINEER FOR RECOMMENDATION.
- 12. CONCRETE QUANTITY TO BE IN ACCORDANCE WITH THIS DETAIL. MINIMUM AMOUNT OF CONCRETE MUST BE INSTALLED.

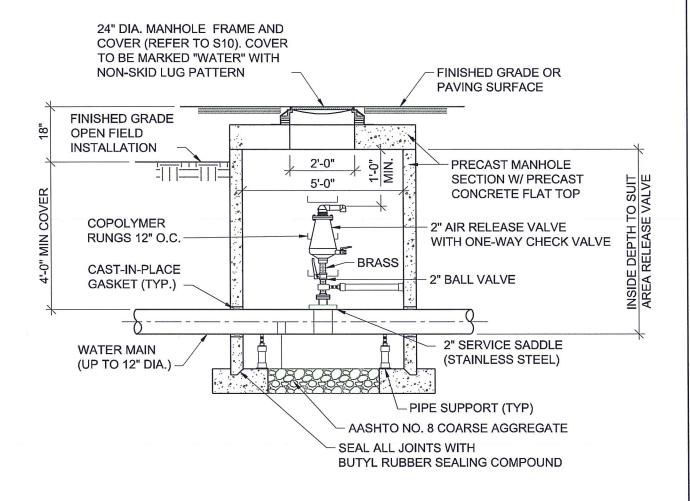




- 1. PROVIDE THRUST CLAMPS WITH LUGS AND STAINLESS STEEL TIE RODS AT EACH ELBOW LOCATED IN THE VERTICAL PLAN.
- 2. PROVIDE STAINLESS STEEL TIE RODS.

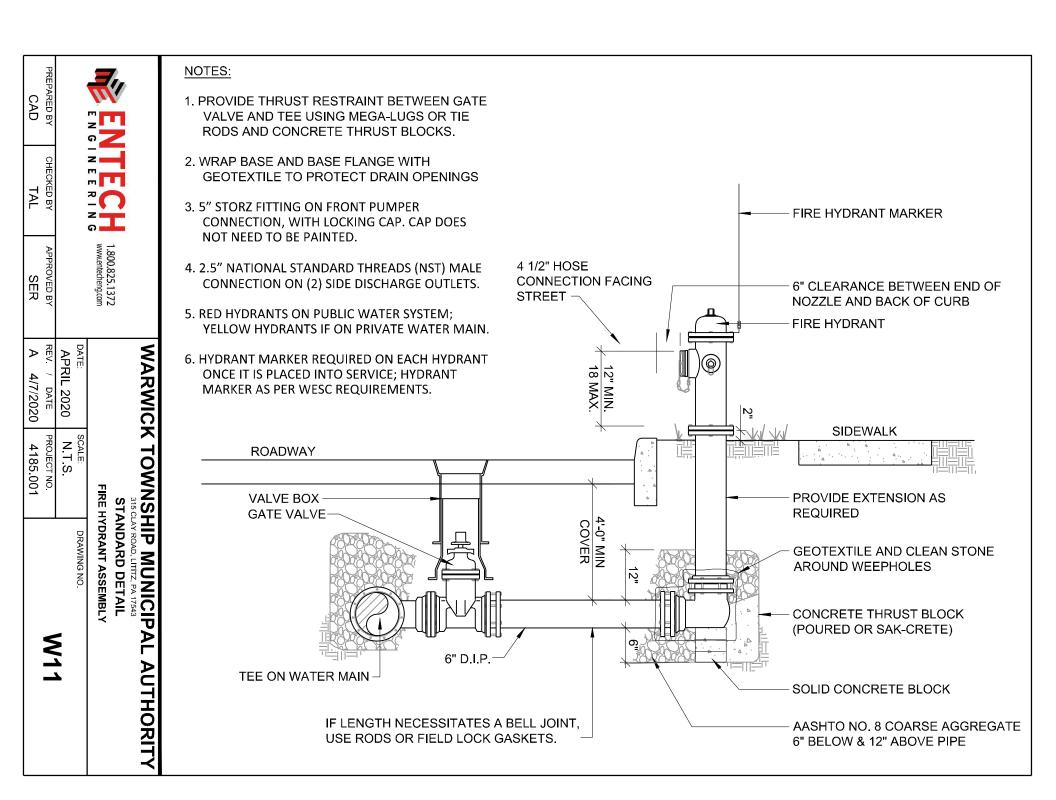
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|                            | WARWI   | <b>CK TOWNSI</b>   | HIP MUNICIPAL AUTHORITY     |
|                            |   | 315 C  | LAY ROAD, LITITZ, PA 17543  |
| ENTECH 1.800.825.13        |   |  | ANDARD DETAIL RUST CLAMPING |
| ENGINEERING www.entecheng. | com   | 113  | NOOT OLAIM ING              |
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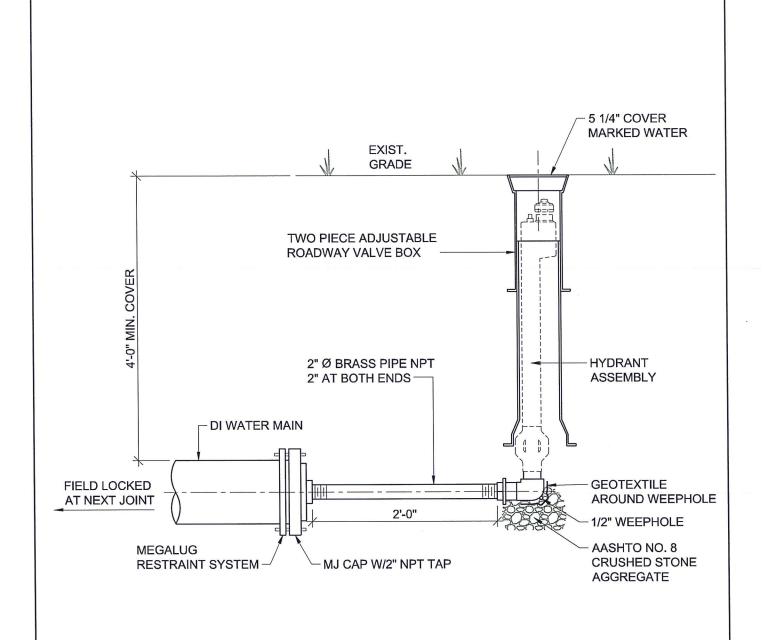
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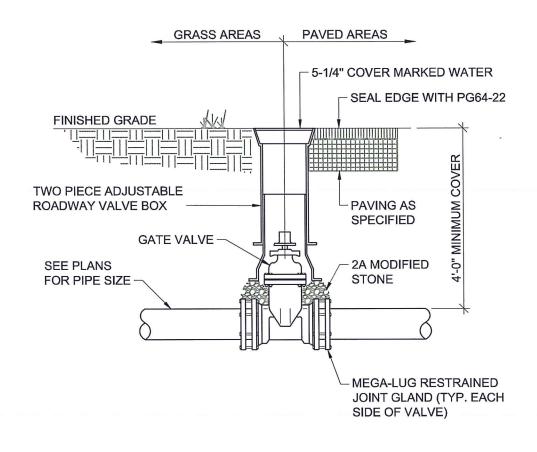
- 1. NO PIPE JOINTS IN MANHOLE
- 2. MANHOLE COVER SHALL BE 24 INCH DIAMETER BY 1 1/2 INCH THICK AT SEATING SURFACE OF FRAME.

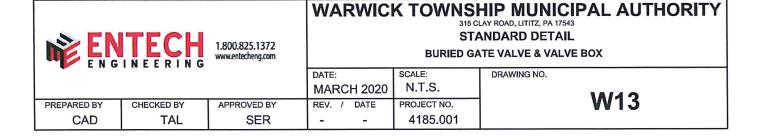
|                 |                   | 1.800.825.1372<br>www.entecheng.com | WARWICK TOWNSHIP MUNICIPAL AUTHORITY  315 CLAY ROAD, LITITZ, PA 17543  STANDARD DETAIL  AIR RELEASE VALVE AND MANHOLE |                         |             |  |
|-----------------|-------------------|-------------------------------------|---|-------------------------|-------------|--|
|                 |                   |                                     | DATE:<br>MARCH 2020   | SCALE:<br>N.T.S.        | DRAWING NO. |  |
| PREPARED BY CAD | CHECKED BY<br>TAL | APPROVED BY<br>SER                  | REV. / DATE   | PROJECT NO.<br>4185.001 | W10         |  |

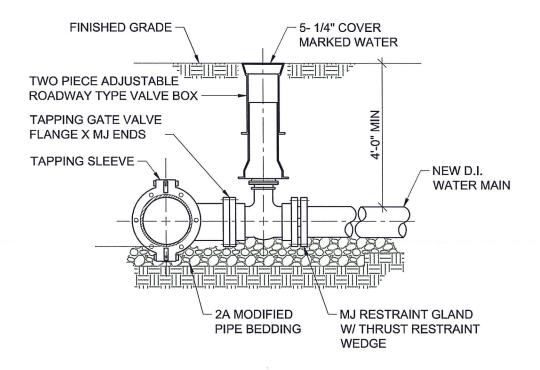


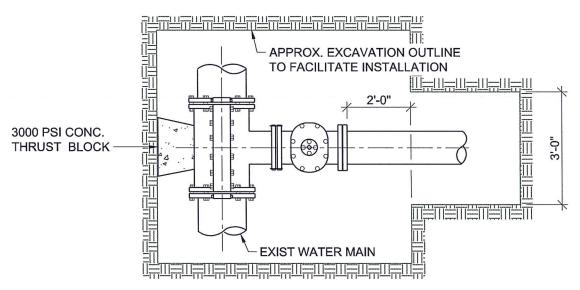


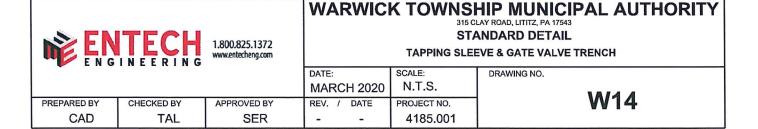






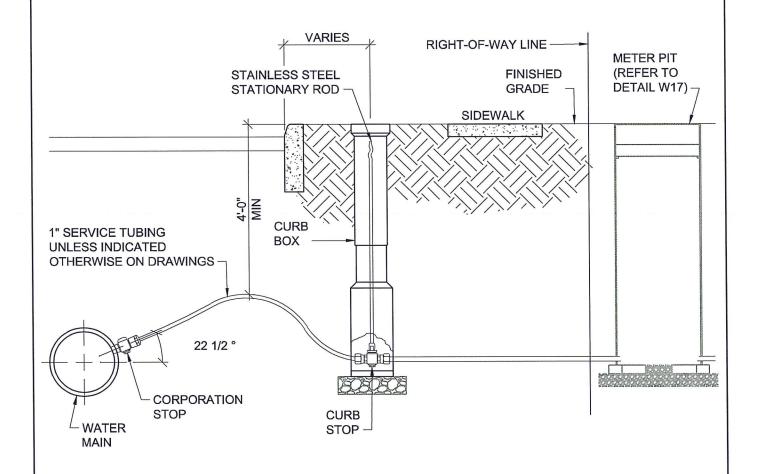






## **SERVICE LINE NOTES:**

- 1. BED COPPER SERVICE TUBING 6" BELOW AND 12" ABOVE WITH PADOT TYPE "A" CONCRETE CEMENT SAND.
- 2. HIGH POINT OF SERVICE LINE SHALL BE 3 INCHES ABOVE TOP OF WATER MAIN
- 3. RESTORE EXISTING ROADS DISTURBED AS PART OF THIS WORK TO COMPLY WITH TOWNSHIP STANDARDS.
- 4. WTMA IS RESPONSIBLE FOR SERVICE LINE TO AND INCLUDING CURB STOP. HOMEOWNER IS RESPONSIBLE FOR SERVICE LINE FROM CURB STOP TO HOME, INCLUDING VALVE BOX AND METER PIT.
- 5. IF NO SIDEWALK, WHETHER THERE IS CURB OR NOT, THE CURB STOP AND 1 FOOT STUB SHALL BE PLACED WITHIN A MAXIMUM DISTANCE OF 5 FEET FROM EDGE OF PAVE.
- 6. WARNING TAPE TO BE INSTALLED ABOVE TUBING.
- 7. PLACEMENT OF CURB AND METER PIT WILL VARY AND IS SUBJECT TO WTMA APPROVAL.
- 8. STAMP CURB WITH "W" FOR WATER.



| ENTECH 1.800.825.1372 www.entecheng.com |                   | WARWICK TOWNSHIP MUNICIPAL AUTHORITY  315 CLAY ROAD, LITITZ, PA 17543  STANDARD DETAIL  WATER SERVICE INSTALLATION - COPPER LINE |                  |                         |     |  |
|---|-------------------|--|------------------|-------------------------|-----|--|
|   |                   | DATE:<br>MARCH 2020  | SCALE:<br>N.T.S. | DRAWING NO.             |     |  |
| PREPARED BY  CAD                        | CHECKED BY<br>TAL | APPROVED BY<br>SER   | REV. / DATE      | PROJECT NO.<br>4185.001 | W15 |  |

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# WARWICK TOWNSHIP MUNICIPAL AUTHORITY

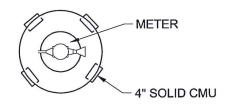
315 CLAY ROAD, LITITZ, PA 17543

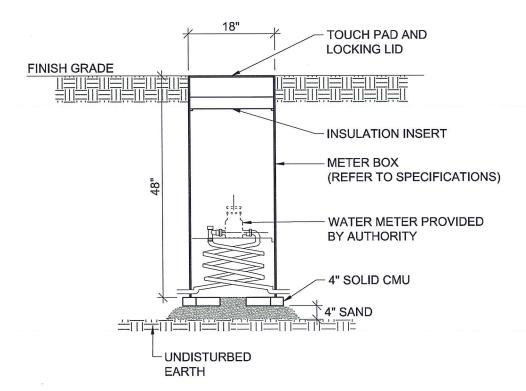
STANDARD DETAIL

WATER SERVICE INSTALLATION DETAIL - PE LINE (W/O CURB AND SIDEWALK)

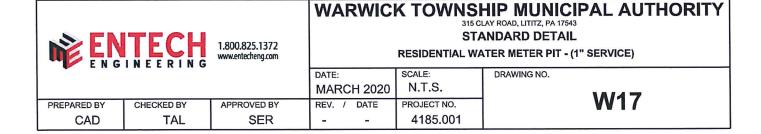
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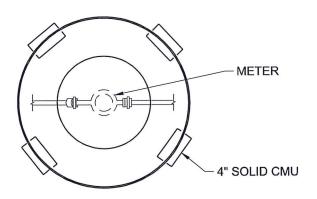
**W16** 

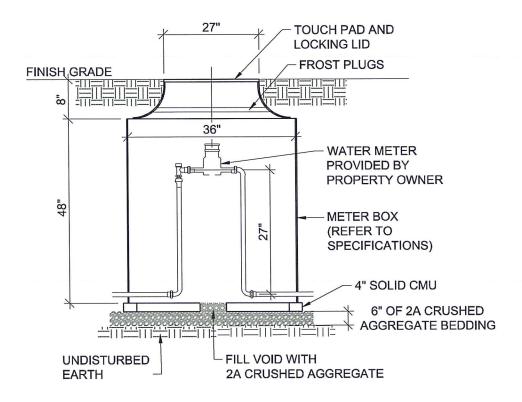




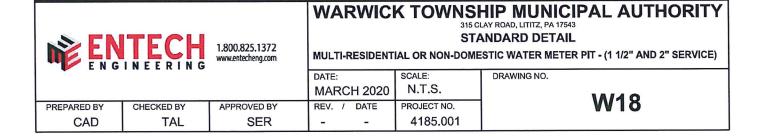
1. METER PIT TO INCLUDE BACK FLOW PREVENTION AND SHUT-OFF VALVES.

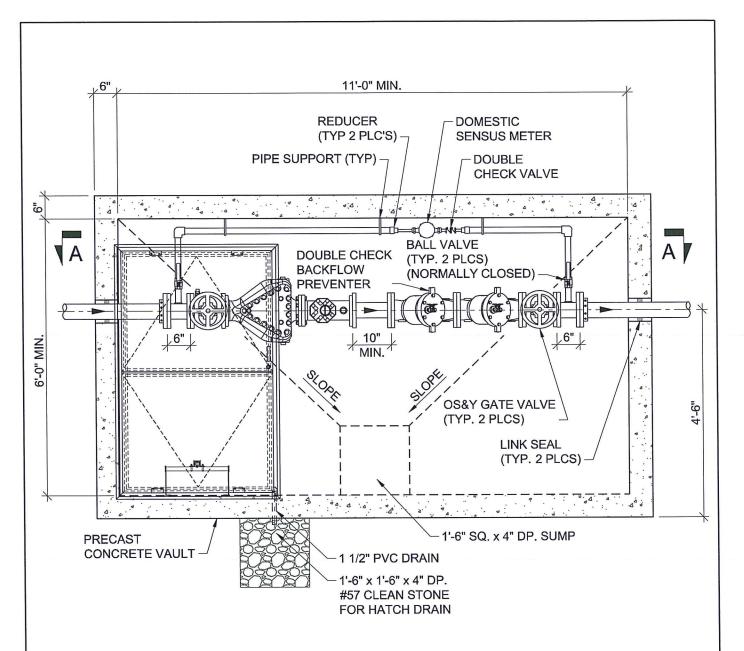






1. METER PIT TO INCLUDE BACKFLOW PREVENTION AND SHUT-OFF VALVE.

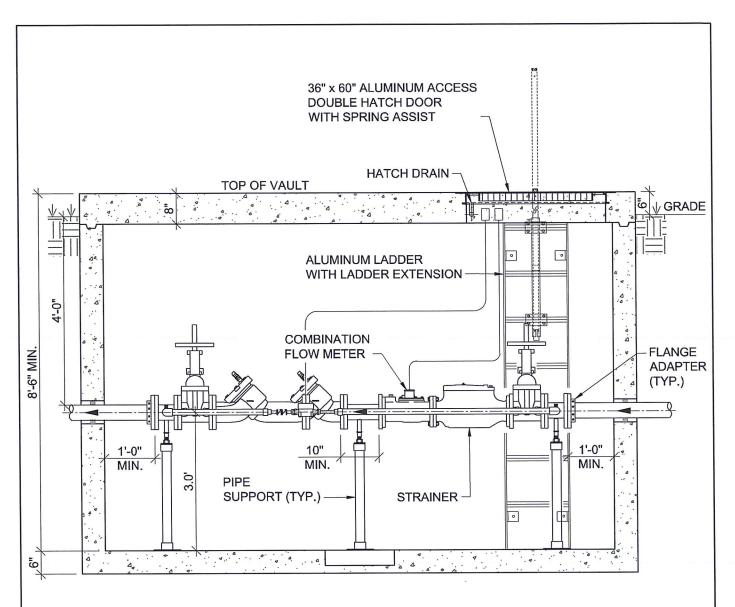




# **PLAN**

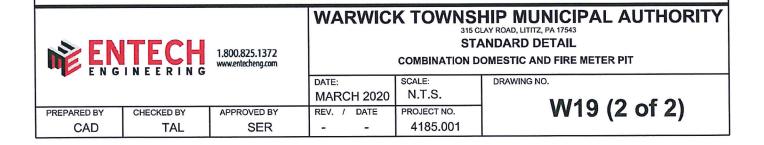
- 1. BYPASS LINE SHALL BE SIZED TO SUPPLY DOMESTIC FLOW WHEN PRIMARY FLOW METER OR ASSOCIATED COMPONENTS REQUIRE SERVICE.
- 2. FLOW METERS SHALL BE INSTALLED WITH THE MANUFACTURER'S RECOMMENDED STRAIGHT RUNS OF PIPE UP STREAM AND DOWN STREAM OF THE METER ASSEMBLY.

| ENTECH<br>ENGINEERING |                   | 1.800.825.1372<br>www.entecheng.com | WARWICK TOWNSHIP MUNICIPAL AUTHORITY 316 CLAY ROAD, LITITZ, PA 17543 STANDARD DETAIL COMBINATION DOMESTIC AND FIRE METER PIT |                         |              |  |
|-----------------------|-------------------|-------------------------------------|--|-------------------------|--------------|--|
|                       |                   |                                     | DATE:<br>MARCH 2020  | SCALE:<br>N.T.S.        | DRAWING NO.  |  |
| PREPARED BY  CAD      | CHECKED BY<br>TAL | APPROVED BY<br>SER                  | REV. / DATE  | PROJECT NO.<br>4185.001 | W19 (1 of 2) |  |



# **SECTION A-A**

- 1. PRECAST CONCRETE ASSEMBLY SHALL CONTAIN XYPEX CONCRETE WATERPROOF ADMIXTURE.
- 2. RACEWAY LOCATED WITHIN VAULT SHALL BE RIGID CONDUIT.



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APPROVED BY

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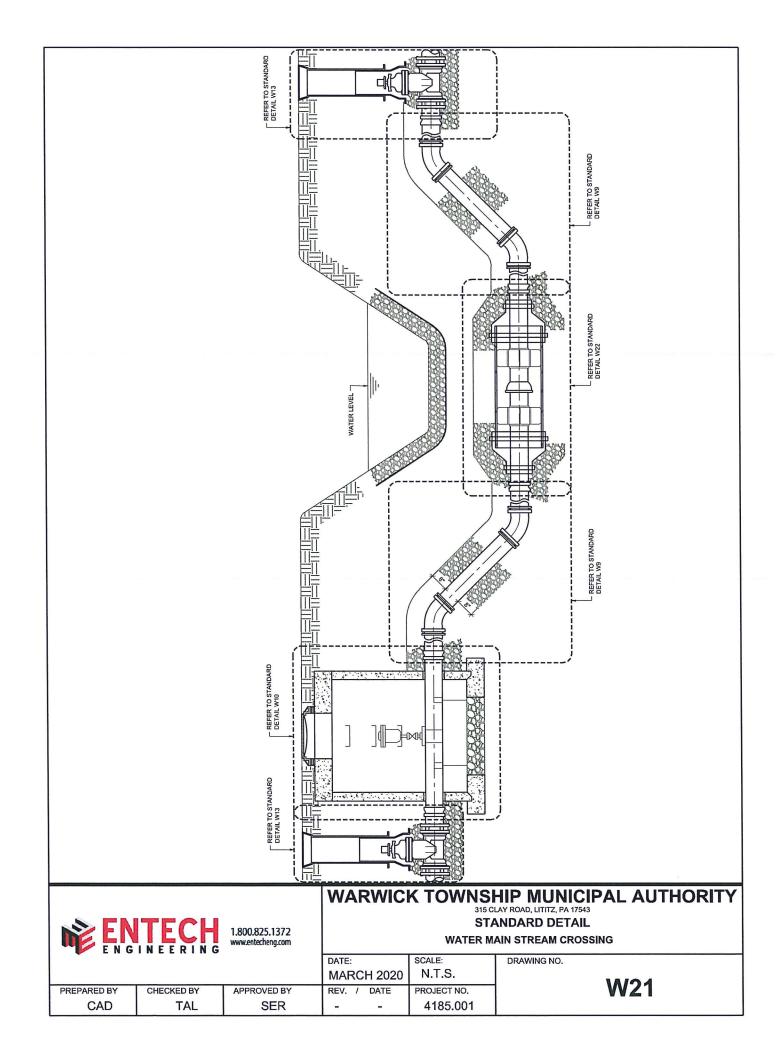
# WARWICK TOWNSHIP MUNICIPAL AUTHORITY

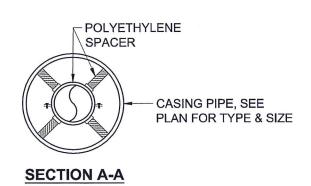
315 CLAY ROAD, LITITZ, PA 17543

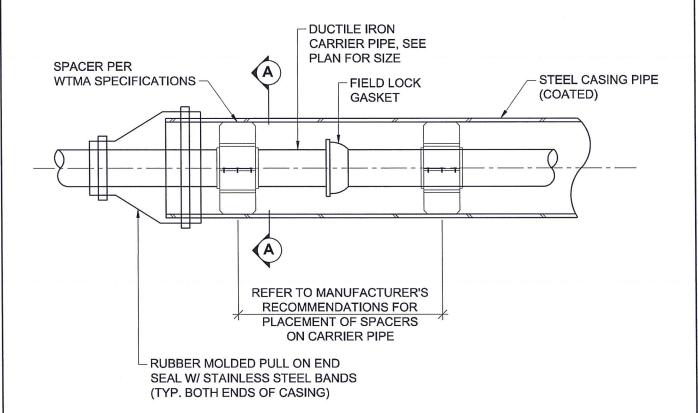
STANDARD DETAIL

FIRE METER PIT - HIGH DOMESTIC USE

| MARCH 2020  | N.T.S.                  | DRAWING NO. | 14/00 |
|-------------|-------------------------|-------------|-------|
| REV. / DATE | PROJECT NO.<br>4185.001 |             | W20   |
|             | 4100.001                |             |       |



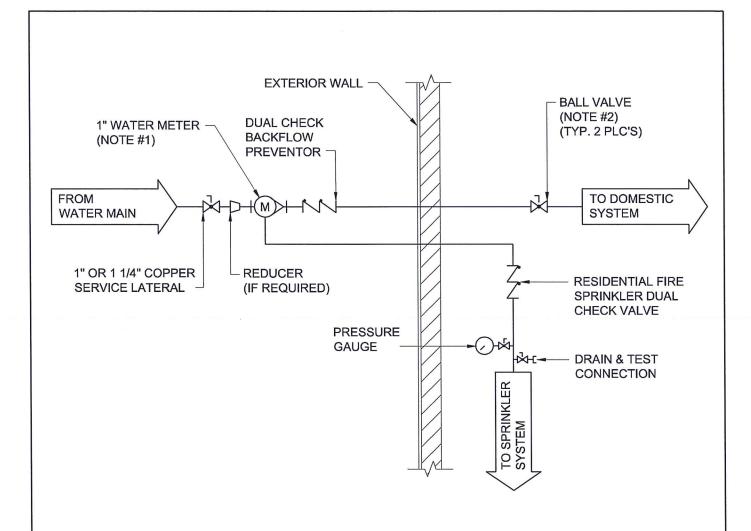




## **CASING NOTES:**

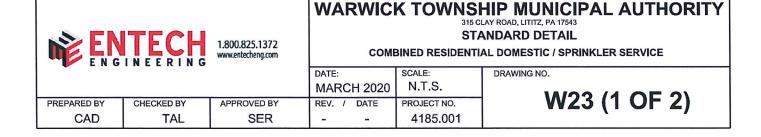
1. CASING PIPE TO BE 2 TIMES DIAMETER OF CARRIER PIPE.

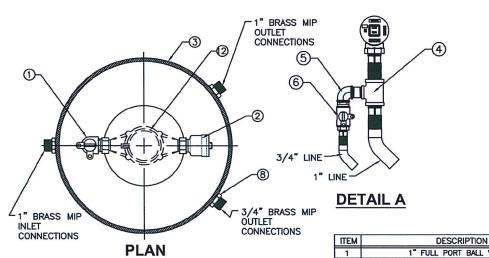
| ENTECH<br>ENGINEERING |                   | 1.800.825.1372<br>www.entecheng.com | WARWICK TOWNSHIP MUNICIPAL AUTHORITY  315 CLAY ROAD, LITITZ, PA 17543  STANDARD DETAIL  WATER MAIN PIPE CASING |                         |             |       |
|-----------------------|-------------------|-------------------------------------|--|-------------------------|-------------|-------|
|                       |                   |                                     | DATE:<br>MARCH 2020  | SCALE:<br>N.T.S.        | DRAWING NO. | 14/00 |
| PREPARED BY CAD       | CHECKED BY<br>TAL | APPROVED BY<br>SER                  | REV. / DATE  | PROJECT NO.<br>4185.001 |             | W22   |

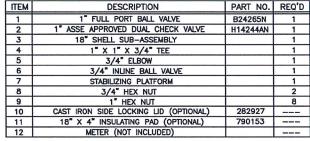


### **GENERAL METER INSTALLATION NOTES**

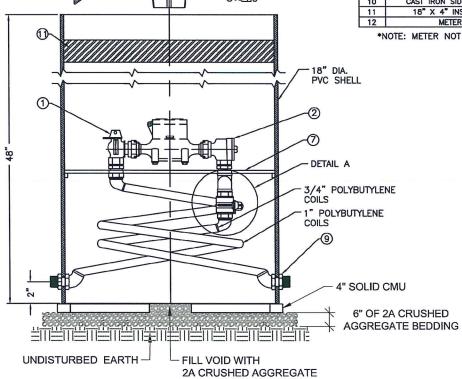
- 1. ISOLATION VALVES SHALL BE BRONZE FULL PORT BALL VALVES WITH THREADED ENDS.
- 2. PROVIDE PRESSURE REDUCER WHERE SYSTEM PRESSURE EXCEEDS 80 PSI.







\*NOTE: METER NOT INCLUDED



# **SECTION**

www.entecheng.com

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### WARWICK TOWNSHIP MUNICIPAL AUTHORITY 315 CLAY ROAD, LITITZ, PA 17543 STANDARD DETAIL 1.800.825.1372

COMBINED RESIDENTIAL/SPRINKLER WATER METER PIT - (1" SERVICE) DRAWING NO.

|            |             | DATE:  |        | SCALE:      |  |
|------------|-------------|--------|--------|-------------|--|
|            |             | MARC   | H 2020 | N.T.S.      |  |
| CHECKED BY | APPROVED BY | REV. / | DATE   | PROJECT NO. |  |
| TAL        | SER         | -      | -      | 4185.001    |  |

W23 (2 OF 2)