NOTES:
1. METER BOX SHALL BE INSTALLED AS SHOWN IN THE LOCATION DETAIL SHOWN BELOW.
2. ALL BENDS IN PLASTIC PIPE SHALL HAVE A MINIMUM RADIUS OF 30 PIPE DIAMETERS.
3. NO COUPLINGS OR UNIONS IN PLASTIC PIPE UNLESS AS SHOWN PER DETAIL.
4. PROVIDE 2' MIN. OF COVER OVER SERVICE LATERAL PIPE IN ALL LOCATIONS.
5. INSTALL 6" PORTLAND CEMENT CONCRETE FOOTING UNDERNEATH TRAFFIC RATED METER BOXES.
6. ALL NON-RESIDENTIAL USES SHALL BE PROTECTED WITH A BACKFLOW PREVENTION DEVICE AS REQUIRED AND APPROVED BY THE CITY'S CROSS-CONNECTION CONTROL TEAM.
7. ALL DRY AND WET TAPS SHALL BE PERFORMED ACCORDING TO THE PIPE MANUFACTURERS RECOMMENDATION.

FACE OF CURB
NEW SERVICE LATERAL
INSTALL NEW YARD PIPING, AS NEEDED

LOCATION DETAIL
NEW METER BOX, IF NO LANDSCAPE STRIP EXISTS MAINTAIN METER BOX LOCATE AT BACK OF SIDEWALK.

CONNECT NEW YARD PIPING TO EXIST. YARD PIPING

WIRE NUT, SEE DETAIL W-40

FRIALEN ELECTROFUSION SERVICE SADDLE
W/ UNDERCLAMP MIN. CL200, AS MANUFACTURED BY FRIATEC PRODUCTS, OR APPROVED EQUAL. PROVIDE W/ SS316 BOLTS. PROVIDE SS316 HOSE CLAMPS TO MAINS 10" AND LARGER.

1" WIDE TAPE SCOTCH #898 OR APPROVED EQUAL, 5" MIN. SPACING

2" CORPORATION STOP MUELLER B-25028

METER BOX TABLE

<table>
<thead>
<tr>
<th>METER SIZES</th>
<th>ARMORCAST BOX</th>
<th>ARMORCAST Lid</th>
<th>TRAFFIC RATED Lid</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/8&quot; &amp; 1/3&quot;</td>
<td>A600 1429</td>
<td>A600 1429-H7</td>
<td>A600 1428T-H7</td>
</tr>
<tr>
<td>1.5&quot; &amp; 2&quot;</td>
<td>A600 1640PCX12</td>
<td>A600 1643-H7</td>
<td>A600 1643T-H7</td>
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</tbody>
</table>

NOT TO SCALE

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
WATER SERVICE LINE
CONNECTIONS TO HDPE MAINS
FOR 5/8" TO 2" METERS

DATE: 11/25/19

STANDARD DETAIL
W - 1
HDPE
CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION

4" AND 6" HDPE POTABLE WATER SERVICE TO HDPE MAIN

DATE: 11/25/19

NOT TO SCALE

GENERAL CONDITIONS:

1. **All pipe sizes shall be 4" or 6", as shown on the plans.**
2. **For services to 3" water meters, provide and install reducers between vault and gate valves to reduce to 3" water meter. All other pipe and fittings exterior to the vault shall be 4" or 6".**
3. **All PVC pipe shall be blue PVC AWWA C900 CL305 DR14.**
4. **Provide meter box lid with 2-piece cover w/ one piece to have a touch read hole (flex net hole).**
5. **Install cathodic protection for DI pipes, valves, and fittings located outside of meter box see details W-20 HDPE, W-21, W-22, and W-23.**
6. **All joints shall be restrained and wrapped per detail W-23.**
7. **All ductile iron pipe spools and fittings shall be CL53 and fusion epoxy lined and coated.**
8. **Gate valves shall be supported by concrete, see detail W-10.**
9. **All gate valves shall have box and risers, see detail W-42.**
1. ALL NUTS, BOLTS, AND WASHERS SHALL BE ASTM A-276 TYPE 316 STAINLESS STEEL.
2. SEE STANDARD SPECIFICATION FOR EPOXY COATING AND LINING OF VALVES AND FITTINGS.
3. INSTALL THRUST BLOCKS AND JOINT RESTRAINTS TO SUPPORT TEE, PER PLANS OR AS DIRECTED BY THE CITY ENGINEER.
4. PROVIDE 3-FOOT MINIMUM CLEARANCE AROUND FIRE HYDRANT. PROVIDE 5-FOOT IF REQUIRED BY PLAN.
5. ALL MECHANICAL JOINTS SHALL BE WRAPPED IN PETROLATUM TAPE WRAP SYSTEM, SEE DETAIL W-23 HDPE.
6. A NEW FIRE HYDRANT SHALL BE INSTALLED WITHIN 50- FEET OF UNHINDERED RUNNING HOSE TO ANY NEW FIRE DEPARTMENT CONNECTION, THE NEW HYDRANT REQUIREMENT AND LOCATION SHALL BE REVIEWED AND APPROVED BY THE FIRE AGENCY.

<table>
<thead>
<tr>
<th>FIRE HYDRANT TYPE</th>
<th>MODEL</th>
<th>OUTLET SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE A - DRY BARREL</td>
<td>MUELLER A-423</td>
<td>2-2 1/2&quot; &amp; 1-4 1/2&quot;</td>
</tr>
<tr>
<td>TYPE B - WET BARREL</td>
<td>LOW SILHOUETTE</td>
<td></td>
</tr>
<tr>
<td>TYPE C - WET BARREL</td>
<td>LOW SILHOUETTE</td>
<td>1-2 1/2&quot; &amp; 2-4 1/2&quot;</td>
</tr>
<tr>
<td>TYPE D - WET BARREL</td>
<td>LOW SILHOUETTE</td>
<td></td>
</tr>
</tbody>
</table>

**NOT TO SCALE**

BLUE MARKERS SHALL BE PLACED ON THE LEFT HAND SIDE OF ALL TRAVEL LANES ADJACENT TO THE FIRE HYDRANT UP TO THE CENTER OF THE STREET.

**NOTES:**

- SEE FIRE HYDRANT TABLE, SEE LEFT
- INSTALL INSULATION FLANGE KIT
- INSTALL AWG #4 HMWPE BOND WIRES ACROSS FLANGE (TYP.) SEE DETAIL W-20 HDPE AND W-21 FOR CATHODIC PROTECTION DETAIL
- BURY
- 30" WIDE TO UNDISTURBED EARTH
- GATE VALVE 6" FLXFL SEE STANDARD SPEC'S FOR GATE VALVE EXOTHERMIC WELD (TYP.) SEE DETAIL W-22
- HDPE FLANGE ADAPTER
- THRUST BLOCK SEE DETAIL W-10 & W-11
- VALVE BLOCK, SEE DETAIL W-10
- SPlice WIRE TO MAIN WIRE WITH BRASS SPLIT WIRE NUTS MAIN RUN X 6" HDPE TEE
- #8 AWG TRACING WIRE MUST BE LONG ENOUGH TO EXTEND 2' ABOVE BOX
- VALVE BOX & RISER SEE STANDARD W-42
- BREAKAWAY SPOOL
- BREAKAWAY BOLTS, (TYP.)
- FIRE HYDRANT CLEARANCES FROM FACE OF CURB: MONOLITHIC CURB & SIDEWALK - 18"
- PARKWAY STRIPS - 2'
- EXIST. AC
- EXIST. AC
- BURRY
- FIRE HYDRANT EXTENSION LENGTH - 6" MIN. AND 18" MAX.

**CITY OF REDWOOD CITY**

**ENGINEERING AND TRANSPORTATION**

**FIRE HYDRANT**

**DATE: 11/25/19**

**W - 3**

**HDPE**
FIRE HYDRANT CLEARANCES FROM FACE OF CURB:
MONOLITHIC CURB & SIDEWALK - 18”
PARKWAY STRIPS - 2’

BREAKAWAY BOLTS, (TYP.)
INSTALL INSULATION FLANGE KIT

LOCATOR WIRE, SEE DETAIL W-40

6” GATE VALVE (FLxFL)
AHC #4 HDPE JUMPER BONDS (TYP.), SEE DETAIL W-20 HDPE AND W-21

LOCATOR WIRE, SEE DETAIL W-40

THRUST BLOCK, SEE DETAIL W-11

ALL RESTRAINED JOINTS
SEE DETAIL W-20 HDPE AND W-23

KEY DETAIL, SEE W-11

CONCRETE BASE:
SIZE 24”x24”x6”

NOTES:
1. ALL NUTS, BOLTS, AND WASHERS SHALL BE ASTM A-276 TYPE 316 STAINLESS STEEL
2. IN REDWOOD SHORES, FIRE HYDRANT SHALL BE CLOW LOW-SILHOUETTE MODEL #92 WITH TWO 2-1/2” AND ONE 4-1/2” OUTLETS, FUSION EPOXY LINED AND COATED. FOR ALL OTHER AREAS, REFER TO THE TABLE IN DETAIL W-3 HDPE.
3. PROVIDE BLUE REFLECTIVE MARKER PER MARKER PLAN DETAIL ShOWN LEFT.
4. PROVIDE 5-FOOT MINIMUM CLEARANCE AROUND FIRE HYDRANT, OR AS SHOWN ON PLANS.

MARKER PLAN DETAIL:
BLUE MARKERS SHALL BE PLACED ON THE LEFT HAND SIDE OF ALL TRAVEL Lanes Adjacent TO THE FIRE HYDRANT UP TO THE CENTER OF THE STREET.
CONCRETE BASE, SEE DETAIL W-12

WATER MIN

8" MIN

48"

8" MIN

G5 BOX, SEE DETAIL W-12

2" BRASS CAP

2" FROM TOP OF BOX

3" MIN. PAVEMENT

EXIST. AC

LOCATOR WIRE, SEE DETAIL W-40

2" BRASS NIPPLE

IN-LINE VALVE, SEE DETAIL W-16 HDPE MJ CONNECTOR OR (FLxMJ) ADAPTER

3" MIN.

EXIST. AC

2" BRASS NIPPLE

2" x 15 1/2" BRASS NIPPLE

2" STRAIGHT THREADED CORP VALVE MUELLER B-2000 OR APPROVED EQUAL

2" BRASS NIPPLE

2" BRASS QUARTER BEND

2" BRASS QUARTER BEND

5/8" REBAR LOOP

HDPE FLANGE ADAPTER

2" x 12" BRASS NIPPLE, KEEP PIPE & FITTINGS CLEAR OF CONCRETE

RESTRAINED ECCENTRIC TAPPED CAP W/ 2" I.P. THREAD, MJ RETAINER GLAND ESAA IRON SERIES 2000PV FOR PVC OR 1100 FOR DUCTILE IRON, OR ROMAC ALPHA TAPPED CAP, OR APPROVED EQUAL

NOTES:

1. LOCATOR WIRE SHALL BE CAPABLE OF EXTENDING 2' ABOVE VALVE BOXES.

NOT TO SCALE

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION

DATE: 11/25/19

STANDARD DETAIL

W - 5

HDPE

2" BLOW OFF
ECLIPSE BB SAMPLING STATION ENCLOSURE, PIPE AND STAND RISER, STATION BASE, NOZZLES, AND LOCK SHALL BE PURCHASED FROM THE CITY AND INSTALLED BY CONTRACTOR.

#8 AWG TRACING WIRE. WIRE SHALL BE LONG ENOUGH TO EXTEND 2' OUT FROM SAMPLING STATION.

#8 AWG TRACING WIRE. WIRE SHALL BE LONG ENOUGH TO EXTEND 2' OUT FROM SAMPLING STATION.

WATER METER BOX, ARMORCAST BOX A600 1429 AND AN ARMORCAST LID A600 1428-H7. LID SHALL BE MARKED "WATER".

NOTES:
1. SAMPLE STATION WATER LINE TO BE WET TAP AT EXISTING MAINS. FOR NEW MAINS, NEW SERVICES CAN BE DRY TAPPED PER THE MAIN LINE MANUFACTURERS INSTALLATION CRITERIA, OR AS DIRECTED BY THE CITY ENGINEER.
2. USE #8 AWG TRACING WIRE IN A SINGLE LENGTH OF WIRE WITH INSULATION INTACT. LOCATOR WIRE MUST BE CONNECTED TO WATERMAIN LOCATOR WIRE USING BRASS WIRE SPLICE AND ELECTRICAL COATING OR EQUIVALENT.
3. FOR TRAFFIC RATED LIDS, INSTALL 6" PORTLAND CEMENT CONCRETE FOOTING UNDERNEATH THE METER BOX FOR SUPPORT.

90° BRASS ELBOW (COMPXCOMP)
MUELLER H-15526 OR APPROVED EQUAL

ROTATE BOX AND STATION PARALLEL TO CURB

3/4" PE PIPE CLASS 250
POLYETHYLENE TUBING, PE/HDPE
4710 ASTM D2737 w/ ID: 0.802"

3/4" PE PIPE CLASS 250
POLYETHYLENE TUBING, PE/HDPE
4710 ASTM D2737 w/ ID: 0.802". BENDS SHALL NOT EXCEED 30 PIPE DIAMETERS.

3/4" x 1" CORPORATION STOP MUELLER
B-25028, OR APPROVED EQUAL

SERVICE SADDLE:
FRIALEN ELECTROFUSION SERVICE SADDLE W/ UNDERCLAMP MIN. CL200, AS MANUFACTURED BY FRIATEC PRODUCTS, OR APPROVED EQUAL. PROVIDE W/ SS316 BOLTS. PROVIDE SS316 HOSE CLAMPS TO MAINS 10" AND LARGER.

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
WATER SAMPLING STATION

DATE: 11/25/19
VALVES AT CROSSES AND TEES

- INSTALL CATHODIC PROTECTION FOR DI Fittings and Valves, see details W-20 HDPE, W-21 and W-22
- HDPE FLANGE ADAPTER
- HDPE FLANGE ADAPTER
- HDPE FLANGE ADAPTER
- GATE VALVE (FL×FL) (TYP.)
- GATE VALVE (FL×FL), SEE SPECIFICATIONS 02680
- BUTTERFLY VALVE (FL×FL)
- BUTTERFLY VALVE (FL×FL)
- LOCATOR WIRE SEE DETAIL W-40
- FL×FL CROSS OR TEE
- FL×FL BUTTERFLY VALVE, SEE NOTE #3, BELOW.
- 12" MIN. LENGTH DIP SPOOL (FL×FL)
- 12" MIN. LENGTH DIP SPOOL (FL×FL) (TYP.)
- CONCRETE SHALL BE CLASS A, SEE DETAIL W-10 FOR TRHUST BLOCK AND REBAR HOOKS

IN-LINE VALVES

- GATE VALVE
- BUTTERFLY VALVE

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
GATE VALVES & BUTTERFLY VALVES
JOINT TYPES AND ADAPTERS

DATE: 11/25/19
CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
POISSON FORCE RESTRAINT
ANCHOR WALL FOR HDPE POTABLE WATER MAIN

DATE: 11/25/19

DESIGN PARAMETERS:
1. SOIL BEARING VALUE OF 2000 LBS. PER SQ. FT
2. DR 11 HDPE PIPE (L.P.S.) PE 4710, CONFORMING TO AWSRA C906-07.
3. DESIGN SYSTEM PRESSURE = 100 PSI
4. RECURRING SURGE PRESSURE = 100 PSI
5. FLOW VELOCITY = 7 FPS
6. FLEX RESTRAINT CAPACITY OF 7000 LBS. EACH.
7. PAVEMENT SURFACE MAX. 8".
8. SAFETY FACTOR = 1.5
9. IN CASES NOT CONFORMING TO DESIGN PARAMETERS RECALCULATE WALL DIMENSIONS, PER AWSRA MANUAL M55

CONNECT AND RESTRAIN EXISTING PIPE FLANGE TO HDPE FLANGE ADAPTER. INSTALL RESTRAIN FLANGE COUPLING ADAPTER, AS NEEDED.

EPOXY COATED DUCTILE IRON BACKUP RING

HDPE BUTT FUSION FLANGE ADAPTER

FLEX RESTRAINT DEVICE ELECTROFUSION FITTING BY GEORG FISCHER CENTRAL PLASTICS OR APPROVED EQUAL

MIN. 4,000 PSI STRENGTH CONCRETE

#8 AWG COPPER TRACING WIRE WITH BLUE JACKET

#4 REBAR w/ 3" COVER MIN. (TYP.)

POUR CONCRETE WALL TO UNDESTRUBED SOIL AT BASE

PAVEMENT SURFACE

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
POISSON FORCE RESTRAINT
ANCHOR WALL FOR HDPE POTABLE WATER MAIN
STANDARD DETAIL
W - 17
HDPE

<table>
<thead>
<tr>
<th>NOMINAL PIPE SIZE (L.P.S.)</th>
<th>&quot;W&quot; WIDTH</th>
<th>&quot;H&quot; HEIGHT</th>
<th>&quot;D&quot; DEPTH</th>
<th>&quot;C&quot; COVER</th>
<th>&quot;P&quot;</th>
<th># OF BARS</th>
<th>RE-BAR SPACING (IN.)</th>
<th># OF FLEX RERAINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>3.0'</td>
<td>2.0'</td>
<td>0.75'</td>
<td>3.0'</td>
<td>1.0'</td>
<td>2</td>
<td>12&quot;</td>
<td>3</td>
</tr>
<tr>
<td>8&quot;</td>
<td>3.75'</td>
<td>2.5'</td>
<td>0.75'</td>
<td>3.5'</td>
<td>1.25'</td>
<td>3</td>
<td>12&quot;</td>
<td>4</td>
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<tr>
<td>10&quot;</td>
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<td>0.75'</td>
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<td>4</td>
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<tr>
<td>12&quot;</td>
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<td>3.5'</td>
<td>1.75'</td>
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<td>12&quot;</td>
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</tr>
<tr>
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<td>7</td>
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<tr>
<td>18&quot;</td>
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<td>4.5'</td>
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<td>3.5'</td>
<td>2.25'</td>
<td>6</td>
<td>12&quot;</td>
<td>9</td>
</tr>
</tbody>
</table>
CONNECT AND RESTRAIN EXISTING PIPE FLANGE TO HDPE FLANGE ADAPTER. INSTALL RESTRAIN FLANGE COUPLING ADAPTER, AS NEEDED.

HDPE BUTT FUSSION FLANGE ADAPTER.

FLEX RESTRAINT DEVICE ELECTROFUSION FITTING BY GEORG FISCHER CENTRAL PLASTICS OR APPROVED EQUAL

MIN. 4,000 PSI STRENGTH CONCRETE

#4 REBAR w/ 3" COVER MIN. (TYP.)

PAVEMENT SURFACE

KEEP BOLTS AND NUTS CLEAR OF CONCRETE 6" MAX. CLEARANCE

HDPE MAIN

"W"

"T"

"D"

"C"

"H"

"L"

FACE
N.T.S

SIDE
N.T.S

POUR CONCRETE WALL TO UNDESTUBED SOIL AT BASE

<table>
<thead>
<tr>
<th>NOMINAL PIPE SIZE (L.P.S.)</th>
<th>&quot;W&quot;</th>
<th>&quot;H&quot;</th>
<th>&quot;D&quot;</th>
<th>&quot;C&quot;</th>
<th>&quot;T&quot;</th>
<th>FOOTING DIM. (FT)</th>
<th># OF BARS</th>
<th>RE-BAR SPACING (IN)</th>
<th>WEI.</th>
<th># OF FLEX RESTRAINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot;</td>
<td>4.5</td>
<td>3.0</td>
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</tbody>
</table>

DESIGN PARAMETERS:
1. SOIL BEARING VALUE OF 600 LBS. PER SQ. FT
2. DR 11 HDPE PIPE (L.P.S.) PE 4710, CONFORMING TO AWWA C906-07.
3. DESIGN SYSTEM PRESSURE = 100 PSI
4. RECURRING SURGE PRESSURE = 100 PSI
5. FLOW VELOCITY = 7 FPS
6. FLEX RESTRAINT CAPACITY OF 7000 LBS. EACH.
7. PAVEMENT SURFACE MAX. 8".
8. SAFETY FACTOR = 1.5
9. IN CASES NOT CONFORMING TO DESIGN PARAMETERS RECALCULATE WALL DIMENSIONS, PER AWWA MANUAL M55

CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
(BAY MUD) POISSON FORCE
RESTRAINT ANCHOR WALL FOR
HDPE POTABLE WATER MAIN

DATE: 11/25/19

STANDARD DETAIL
W - 18 HDPE
NOTES:

1. INSTALL THRUST BLOCKS PER CITY STANDARD DETAIL W-10.
2. LANDSCAPE PLANTINGS, WHEN FULLY GROWN, SHALL NOT OBSCURE VALVE OR FIRE DEPARTMENT CONNECTION (THREE FEET MINIMUM CLEARANCE REQUIRED ON ALL SIDES) FOR OPERATION, TESTING, AND MAINTENANCE.
3. ALL UNDERGROUND BOLTS NUTS, AND WASHERS SHALL BE 316 STAINLESS STEEL.
4. BACKFLOW PREVENTER LOCATION SHALL BE AS CLOSE AS POSSIBLE TO THE PROPERTY LINE, NOT EXCEEDING 6 FEET FROM PROPERTY LINE, OR IMMEDIATELY INSIDE THE BUILDING BEING SERVED.
5. BACKFLOW DEVICES INSTALLED INSIDE OF A BUILDING SHALL BE ACCESSIBLE TO CITY STAFF AND REQUIRE A DRAIN. CONTRACTOR SHALL ENSURE CITY METER FLEX-NET MAY BE READ AT ALL TIMES.
6. ALTERNATE BACKFLOW DEVICES, RISERS, AND MATERIALS SHALL BE REVIEWED AND APPROVED BY THE FIRE DEPARTMENT AND THE CITY'S CROSS-CONNECTION PROTECTION TEAM AND BY THE CITY ENGINEER.
7. ARRANGEMENT AND AS EQUAL BACKFLOW DEVICES SHALL BE REVIEWED AND APPROVED BY THE CROSS-CONNECTION PROTECTION TEAM AND BY THE CITY ENGINEER.