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 PURPLE JACKET

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

PAVEMENT SURFACE

POUR CONCRETE WALL TO UNDESTURBED SOIL AT BASE

DESIGN PARAMETERS:
1. SOIL BEARING VALUE OF 2000 LBS. PER SQ. FT
2. DR. 11 HDPE PIPE (I.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

<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>
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CITY OF REDWOOD CITY
ENGINEERING AND TRANSPORTATION
POISSON FORCE RESTRAINT
ANCHOR WALL FOR HDPE
RECYCLED WATER MAIN

STANDARD DETAIL
RW - 17
HDPE