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**CITY OF SPOKANE STANDARD PLANS – SECTION Y**

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SEE SEC. 9–30.5 OF
STANDARD SPECIFICATIONS

NOTES:

1. WATER DISTRIBUTION MATERIALS AND APPURTENANCES SHALL CONFORM TO SEC 9–30.

2. SEE SECTION 9–33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1"–6" MIN. WRAP AND SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.

3. SEE SECTION 9–03.12(5) FOR GRAVEL BACKFILL FOR DRYWells.

4. SEE COS GSP SPEC 7–14.3 FOR FIRE HYDRANT PLACEMENT DISTANCE FROM CURB RAMPS AND DRIVEWAYS.

5. MAINTAIN MINIMUM 3' DISTANCE FROM HYDRANT TO TRAVELED ROADWAY OR CURB.

6. MINIMUM 3' CLEAR TO OBSTRUCTIONS REQUIRED FOR OPERATING NUT AND STORZ FITTING.

7. STORZ FITTING REQUIRED ON SITE PRIOR TO INSTALLATION.

HYDRANT SETTING STANDARD

ADOPTED: 07/2020
REVISED: 07/2020
SUPERSEDES: 02/2017
SCALE: NTS
DWG./REV BY: MB/MLD

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON
STANDARD PLAN No. Y–101

APPROVED BY

KYLE TIMCHIK
ENGG. SRvc. DIV RTG NR
"DPM" P.E.

DAN BULLER, P.E.
SRvc. ENGG. RTG NR
See Sec. 9-30.5 of Standard Specifications

Raised Offset

Depressed Offset

Notes:
1. Water distribution materials and appurtenances shall conform to Sec 9-30.
2. See section 9-33 for woven geotextile fabric (Moderate Survivability, Class A). Overlap all fabric joints 1’-6” min. Wrap and secure fabric around pipe to prevent migration of fines into gravel envelope.
3. See Section 9-03.12(5) for gravel backfill for drywells.
4. See COS OSP Spec 7-14.3 for hydrant placement distance from curb ramps & driveways. Maintain min 3’ hydrant placement distance from traveled roadways & curbs. Min 3’ clear to obstructions required for operating nut and Storz fitting.

Approved by

Engineering Services Director
City of Spokane, Washington

Hydrant Setting Offsets

A adopts: 07/2020
Revised: 02/2017
Supercedes: NTS
Scale: NTS
DWG./REV BY: MB/MLD

Standard Plan No. Y-101A
NOTES:

1. SEE SEC. 7-100 FOR VALVE CHAMBERS, & SEC. 9-12.4 FOR PRECAST CONCRETE MANHOLES.
2. SEE SECS. 7-12 & 9-30 FOR WATER FITTINGS.
3. SEE STD PLANS A-12 (BY DEFAULT) & A-13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
5. SEE STD PLAN Z-108 FOR MANHOLE TOP SLAB REINFORCEMENT DETAILS.
6. TOP SLAB & BARREL JOINT(S) MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
7. ADJUSTMENT SECTION, TOP SLAB, & BARREL JOINT(S) TO BE SEALED PER SECS. 7-05 & 9-04.
8. USE MANHOLE – 48” W/ CONCENTRIC CONE TOP WHEN VERTICAL CLEARANCE IS ADEQUATE. USE MANHOLE – 54” W/ TOP SLAB AS SHOWN ABOVE, WHEN VERTICAL CLEARANCE IS MINIMAL.
9. ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQ’D (3” MIN–16” MAX)
1. SEE SEC 9–12 FOR PRECAST CONCRETE DRYWELLS.
2. SEE SEC 9–03.12(5) FOR GRAVEL BACKFILL FOR DRYWELLS.
3. SEE SEC 9–33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1’–6” MIN.
WRAP & SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
4. SEE STD PLANS A–12 (BY DEFAULT) & A–13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
5. SEE STD PLANS B–102C & Z–118 FOR BASE & FOUNDATION DETAILS.
6. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
7. ADJUSTMENT SECTION, CONE & BARREL JOINTS TO BE SEALED PER SEC 7–05.
8. ONE DRYWELL MAY SERVE MORE THAN ONE INTERIOR BLOW-OFF VALVE.
9. ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQUIRED SEE STANDARD PLAN A–8.
10. WATER DISTRIBUTION MATERIALS AND APPURTENANCES SHALL CONFORM TO SEC 9–30.
NOTES:
1. SEE SEC 9–12 FOR PRECAST CONCRETE DRYWELLS.
2. SEE SEC 9–0.3.12(5) FOR GRAVEL BACKFILL FOR DRYWELLS.
3. SEE SEC 9–33 FOR WOVEN GEOTEXTILE FABRIC (MODERATE SURVIVABILITY, CLASS A). OVERLAP ALL FABRIC JOINTS 1 "WRAP & SECURE FABRIC AROUND PIPE TO PREVENT MIGRATION OF FINES INTO GRAVEL ENVELOPE.
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10. WATER DISTRIBUTION MATERIALS AND APPURTENANCES SHALL CONFORM TO SEC 9–30.
NOTES:

1. SEE SECTIONS 7–05 & 9–12.4 FOR PRECAST CONCRETE MANHOLES
2. SEE SECTIONS 7–12 & 9–30 FOR WATER FITTINGS.
3. SEE STD PLAN Z–109 FOR MANHOLE STEP DETAILS.
4. CONE & BARREL JOINTS MAY BE EITHER TONGUE & GROOVE OR REVERSE TONGUE & GROOVE.
NOTES:
1. SEE SEC 9–12 FOR PRECAST CONCRETE MANHOLES.
2. SEE STD PLANS A–12 (BY DEFAULT) & A–13 (IF LOCATED IN ARTERIAL STREET) FOR MANHOLE FRAME & COVER.
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7. ADJUSTMENT SECTION HEIGHT FOR EXISTING STRUCTURES TO MATCH FIELD CONDITIONS AS REQUIRED SEE STANDARD PLAN A–8
8. WATER DISTRIBUTION MATERIAL AND APPURtenances SHALL CONFORM TO SEC 9–30.
SIDE VIEW

Center Bolt Hole (Hole 7/8" Diameter)

3/4" BOLT

1/2" x 1 1/4" FLAT TAB WELDED IN PLACE

1/2" x 2" FLAT BAR

TOP VIEW

5"

7/8" BOLT HOLE

7-1/2"
**TOP SECTION**

*OLYMPIC FOUNDRY MODEL 930 - 15” TOP, 5 1/4” HEAVY LID (OR APPROVED EQUAL)*

**TOP SECTION & COVER TO ALSO BE USED TO PROTECT CURB STOPS LOCATED IN PAVED OR CONCRETE AREAS*
Sidewalk (if present)  
Swale (if present)  
Finished Grade  

Maintain min 5’ cover through swale, planting strip areas etc where present  

Valve Box  

Property Line  

3’ max to meter; if easement exists, meter at back of easement (see below)  

Water Main  

Corr Stop  

1” type K copper or 2” HDPE CTS  

Plan View  

Property Line  

3’ max  

Curb Stop  

Meter  

No Border Easement  

Property Line  

Curb Stop  

Easement  

Border Easement Present  

Plan View  

Typical 1-2” Water Service  

Approved by:  

ADOPTED: 04/2021  

REVISED: 04/2021  

SUPERSEDES: 01/2017  

CHECKED BY:  

Scale:  

ENGINEERING SERVICES  
CITY OF SPOKANE, WASHINGTON  

PLAN No. Y-111
NOTES:
1) IF CURB STOP IS NOT AT 5’ DEPTH FROM FINISHED GRADE, SERVICE WILL NEED TO BE EXCAVATED 3–4’ TOWARD THE STREET TO FACILITATE RAISING OR LOWERING CURB STOP, BY CITY FORCES, TO 5’ DEPTH
2) EXCAVATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS
3) BEDDING MUST BE ON SITE, FILL IN 1’ LIFTS TO AVOID OVALING
4) 5/8”, ¾”, 1” T–10 METERS ONLY
5) BOX IS NOT TRAFFIC RATED, NOT TO BE INSTALLED IN SIDEWALKS, DRIVEWAYS OR STREETS
6) MUST BE AT FINISH GRADE FOR FINAL INSPECTION OR IT WILL NEED TO BE RESET
FINISHED GRADE
STD PLAN A-12
MH FRAME & COVER

5’ MIN TO BUILDING

5’ TO FINISHED
GRADE

CONCRETE
SETTER BOX

TRENCH SIDE,
1 1/2 : 1 SLOPE

2’

2’

CURB STOP

WATER SERVICE LINE
1” "K" COPPER OR 2” HDPE

4–6” THICKNESS 3/4” OR 5/8” MINUS CRUSHED ROCK, UNLESS QUESTIONABLE SOIL, THEN 1” THICKNESS REQUIRED

NOTES:
1) ONE SERVICE & METER PER BOX
2) IF CURB STOP IS NOT AT 5’ DEPTH FROM FINISHED GRADE, SERVICE WILL NEED TO BE EXCAVATED 3–4’ TOWARD THE STREET TO FACILITATE RAISING OR LOWERING CURB STOP, BY CITY FORCES, TO 5’ DEPTH
3) EXCAVATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS
4) BEDDING MUST BE ON SITE
5) DOMESTIC METERS: 3/4”, 1”, 1 1/2”, OR 2” T-10 METER OR
6) 1/2” CONDUIT MUST BE INSTALLED FROM BOX TO HOUSE OR BUILDING

CONCRETE WATER METER BOX
TYPICAL INSTALLATION

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN NO.
Y-1T2A

APPROVED BY

ENGINEERING SERVICES DIRECTOR
KYLE THOMAS

JUNIOR ENGINEER
DAN BULLER, P.E.

ADOPTED:
04/2021

SUPERSEDES:
01/2017

CHECKED BY:

DRAWN BY:

DWG/REV. BY:
ABM/MLD
48" VAULT PER WILBERT PRECAST PRODUCT # 484/480F

NOTES:
1) UP TO (2) 1" - 2" SERVICES & METERS PER VAULT
2) DCVA WILL FIT VERTICALLY OR MAY BE PLACED OUTSIDE VAULT IN IRRIGATION BOX
3) ½" CONDUIT TO BUILDING FOR WIRE IS REQUIRED
PLAN VIEW

SECTION VIEW

48" PRECAST CONCRETE VAULT

STANDARD PLAN A-12 MH FRAME & COVER

GROUT & SEAL
ADJUSTMENT SECTION
SEE STANDARD PLAN A-8
MINIMUM WATER SERVICE VAULT DIMENSIONS

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions (Inside)</th>
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<tr>
<td>3&quot; DOMESTIC</td>
<td>6’ X 8’ X 6’6”</td>
</tr>
<tr>
<td>3&quot; DOMESTIC W/DCVA</td>
<td>6’ X 10’ X 6’6”</td>
</tr>
<tr>
<td>3&quot; IRRIGATION W/DCVA</td>
<td>6’ X 10’ X 6’6”</td>
</tr>
<tr>
<td>4&quot; DOMESTIC</td>
<td>6’ X 8’ X 6’6”</td>
</tr>
<tr>
<td>4&quot; DOMESTIC W/DCVA</td>
<td>6’ X 10’ X 6’6”</td>
</tr>
<tr>
<td>4&quot; FIRE ONLY</td>
<td>6’ X 7’ X 6’6”</td>
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<tr>
<td>4&quot; FIRE &amp; DOMESTIC</td>
<td>6’ X 12’ X 6’6”</td>
</tr>
<tr>
<td>4&quot; IRRIGATION W/DCVA</td>
<td>6’ X 10’ X 6’6”</td>
</tr>
<tr>
<td>6&quot; DOMESTIC</td>
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<tr>
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<tr>
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<tr>
<td>8&quot; FIRE ONLY</td>
<td>6’ X 10’ X 6’6”</td>
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<tr>
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<td>10&quot; FIRE ONLY</td>
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<tr>
<td>10&quot; FIRE &amp; DOMESTIC</td>
<td>6’ X 16’ X 6’6”</td>
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1. IF THERE ARE 2 SERVICES, (E.G. TWO LINES 4” AND LARGER OR THREE LINES 2” AND LARGER RUNNING PARALLEL IN VAULT) ALL VAULTS SHALL BE A MINIMUM OF 8’ WIDE.

2. IF THERE ARE MORE THAN 2 SERVICES, VAULT DIMENSIONS MUST BE OBTAINED FROM THE TAPPING DEPARTMENT (509) 625–7847

3. ALL VAULTS WILL BE HEAVY DUTY TRAFFIC RATED

4. THESE VAULTS ARE MINIMUM INSIDE DIMENSIONS

ADOPTED: 07/2020
REVISED: 07/2020
SUPERSEDES: 02/2017
SCALE: NTS
DWG./REV BY: MB/MLD

WATER SERVICE VAULT
MINIMUM DIMENSIONS

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN No. Y-115
1. ALL EXCAVATION, BEDDING, BACKFILL, & RESTORATION, INCLUDING FOR CITY INSTALLED PIPING, IS TO BE DONE BY CONTRACTOR.

2. IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7 DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:

   a) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR EQUIVALENT). MIN 12" WIDE BY 8" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.
   b) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.

DCVA ON ALL COMMERCIAL APPLICATIONS AND RESIDENTIAL WHERE REQUIRED
BACKFLOW ASSEMBLY, IRRIGATION
VAULT (PER Y-115) PROVIDED AND INSTALLED BY CONTRACTOR
TEE OR TAPPING SADDLE
POST INDICATOR (THROUGH VAULT TOP)
CHECK WITH BALL DRIP
PUMPER CONNECTION (FDC) (THROUGH VAULT)
3/4" ELECTRICAL CONDUIT FOR REMOTE READER, VAULT TO BUILDING OR BOLLARD (36" ABOVE GROUND), ETC
TAP PERMIT REQUIRED

WATER METER VAULT
SMALL

APPROVED BY
ENGINEERING SERVICES DIRECTOR KYLE THWING
CITY ENGINEER DAN BULLER, P.E.

ADOPTED: REVISED: 04/2021
SUPERSEDES: 07/2020
CHECKED BY: DCS
SCALE: NTS
DWG/REV. BY: ABM/MLD

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON
STANDARD PLAN NO. Y-115
DCVA on all commercial applications and residential where required
Backflow assembly, irrigation

Vault (per Y-115) provided and installed by contractor

Tee or tapping saddle

Post indicator (through vault top)

Check with ball drip

Pumper connection (FDC) (through vault)

3/4" electrical conduit for remote reader, vault to building or bollard (36" above ground), etc

Tap permit required

1. All excavation, bedding, backfill, & restoration, including for city installed piping, is to be done by contractor.

2. In shallow groundwater areas where seasonal high level will reach bottom of vault or is <7' deep, meter vault shall be one of the following:

   a) Buoyant resistant vault with watertight joints and pipe penetrations, and exterior water proof coating (Xyplex or equivalent). Min 12" wide by 6" deep sump to be provided for pump out. Bolts for flanges and MJ fittings shall be ASTM 316.

   b) Be located above ground in the heated and insulated enclosure such as hotbox mounted on min 6" thick reinforced concrete base.

WATER METER VAULT

LARGE

APPROVED BY

REVISED: 04/2021
SUPERSEDES: 07/2020
CHECKED BY: JTG
SCALE: INTS
DWG/REV. BY: ABM/MLD

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN NO.
Y-117
SITE NOTES:
IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7 DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:
A) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEx OR EQUIVALENT). MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.
B) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.

VAULT NOTES:
1) TRAFFIC RATED LID
2) OPEN BOTTOM UNLESS IN HIGH GROUNDWATER AREAS, SEE SITE NOTE
3) DIMENSION BASED ON: WATTS 709 DCVA NEPTUNE HP PROCTUS III METER
4) EXCAVATION, BEDDING, BACKFILL & SURFACE RESTORATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS
5) 3/4" MIN CONDUIT REQUIRED FOR REMOTE READER, VAULT TO BUILDING OR BOLLARD (36" ABOVE GROUND), ETC
6) VAULT SIZE PER Y-115

DOMESTIC/FIRELINE 4"-10" SERVICE DOUBLE CHECK VALVE ASSEMBLY

APPROVED BY
ENGINEERING SERVICES DIRECTOR
KYLE THOMAS

CHECKED BY
LICENSED ENGINEER
DAN BULLER, P.E.

SUPERSEDES: 07/2020
CHECKED BY: LIC
SCALE: NTS
DWG/REV. BY: ABM/MLD

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD PLAN NO: Y-118

ADOPTED: 04/2021
REVISION: 07/2020
SITE NOTES:

IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7' DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:

A) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR EQUIVALENT). MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.

B) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.

VAULT NOTES:

1) TRAFFIC RATED LID
2) OPEN BOTTOM UNLESS IN HIGH GROUNDWATER AREAS, SEE SITE NOTE
3) EXCAVATION, BEDDING, BACKFILL & SURFACE RESTORATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS
4) 3/4" MIN CONDUIT REQUIRED FOR REMOTE READER, VAULT TO BUILDING OR BOLLARD (36" ABOVE GROUND), ETC
5) VAULT SIZE PER Y-115

APPROVED BY

ENGINEERING SERVICES DIRECTOR

KYLE WICKHO

CHECKED BY:

DCS

SCALE:

INTS

DWG/REV. BY:

ABM/MLD

IRRIGATION SERVICE WITH DCV:

3"-6"

ADOPTED: 04/2021
SUPERSEDES: 07/2020

ENGINEERING SERVICES
CITY OF SPOKANE, WASHINGTON

STANDARD
PLAN No.
Y-119
SITE NOTES:
IN SHALLOW GROUNDWATER AREAS WHERE SEASONAL HIGH LEVEL WILL REACH BOTTOM OF VAULT OR IS <7' DEEP, METER VAULT SHALL BE ONE OF THE FOLLOWING:
A) BUOYANT RESISTANT VAULT WITH WATERTIGHT JOINTS AND PIPE PENETRATIONS, AND EXTERIOR WATER PROOF COATING (XYPEX OR EQUIVALENT), MIN 12" WIDE BY 6" DEEP SUMP TO BE PROVIDED FOR PUMP OUT. BOLTS FOR FLANGES AND MJ FITTINGS SHALL BE ASTM 316.
B) BE LOCATED ABOVE GROUND IN THE HEATED AND INSULATED ENCLOSURE SUCH AS HOTBOX MOUNTED ON MIN 6" THICK REINFORCED CONCRETE BASE.

VAULT NOTES:
1) TRAFFIC RATED LID
2) OPEN BOTTOM UNLESS IN HIGH GROUNDWATER AREA, SEE SITE NOTE
3) DIMENSIONS BASED ON: WILKINS 350A NEPTUNE HP PROTECTUS III METER
4) EXCAVATION, BEDDING, BACKFILL & RESTORATION TO BE DONE BY CONTRACTOR PER L&I REGULATIONS.
5) 3/4" MIN CONDUIT REQUIRED, STUB 36" ABOVE GROUND
6) VAULT SIZE PER Y-115

DOMESTIC/FIRE LINE 4"-6", 8" OR 10" SERVICE REDUCED PRESSURE ASSEMBLY
(PER WAC 246.290.490)
NOTES:

1) BASE FOUNDATIONS FOR ALL UTILITY VAULTS AND PADS TO BE PLACED ON 6’ MINIMUM OF COMPACTED CSBC OR MATERIAL ALLOWED BY ENGINEER. MATERIAL TO BE COMPACTED TO DIV. 4 REQUIREMENTS

2) STAINLESS STEEL PIPE (SCH 40, ASTM 304), TYPE K COPPER OR RIGID HDPE 200 PSI CTS SDR9 WITH GALV STEEL (OR SCH. 40 PVC WITH ¼” ANNULAR CLEARANCE) SLEEVES THROUGH SLAB

ABOVE GROUND REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA)
PIPE SIZE 2” & UNDER

ENGINEERING SERVICES
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