WEST BOUNTIFUL CITY

ORDINANCE 416-19

AN ORDINANCE UPDATING CONSTRUCTION STANDARDS
AND SPECIFICATIONS FOR WEST BOUNTIFUL CITY

WHEREAS, the West Bountiful City Council desires to maintain current standards and
specifications for construction, design, and on-site review of all public improvements such that the
health, safety and welfare of the community is preserved; and

WHEREAS, the Utah Legislature adopted House Bill 322 in 2017 stating that Land Use
Regulations, including Construction Standards and Specifications, be adopted by Ordinance; and

WHEREAS, the City Engineer is recommending updates and modifications to the previously
adopted City design standards, which provide requirements specific to West Bountiful for the
construction of municipal infrastructure such as streets, water, and storm drain systems, and

WHEREAS, the planning commission held a public hearing on July 9, 2019 and voted unanimously
to recommend approval of the proposed updates to the West Bountiful Minimum Construction
Standards.

NOW, THEREFORE, BE IT ORDAINED BY THE WEST BOUNTIFUL CITY COUNCIL
THAT THE UPDATES PROPOSED BY THE CITY ENGINEER AND RECOMMENDED BY
THE PLANNING COMMISSION BE MODIFIED AS SHOWN IN EXHIBIT A.

ADOPTED this 16th day of July, 2019. This Ordinance will become effective upon signing and
posting.

[Signature]
Kenneth Romney, Mayor

Voting by the City Council:  Ave  Nay
Councilmember Ahlstrom  ✓  ✓
Councilmember Bruhn  ✓  ✓
Councilmember Enquist  ✓  ✓
Councilmember Preece  ✓  ✓
Councilmember Williams  ✓  ✓

ATTEST:

[Signature]
Cathy Brightwell, City Recorder
West Bountiful City
Minimum Construction Standards

This policy defines the general requirements for improvements to be constructed by any developer, sub-divider, owner, or contractor for construction, including residential, commercial, industrial, institutional, governmental entities. All improvements which are in areas that are or will become public rights-of-way and/or easements, or that will be under the responsibility of a homeowner’s association shall meet these requirements.

The Utah Chapter, American Public Works Association (APWA) Manual of Standard Specifications and Standard Plans, latest addition with all approved supplements is the City’s general construction standard. The City has some local standards that deviate from the APWA standards. City Municipal Code and the standards included in this policy shall supersede APWA and other standards whenever they conflict. Any variation, substitution or exception from the standards in this policy must be authorized by the City Engineer or his/her designee. Any item of construction not covered by the provided standards must have plans and specifications approved by the City Engineer or his/her designee.

1. Storm drainage system
   a. Inlet boxes
      i. Installed at intersections to eliminate waterways (cross gutters) wherever possible
      ii. Installed at 800± foot spacing along curb & gutter streets
      iii. Max. gutter flow is 1.6 CFS for 25-year recurrence frequency
      iv. Standard box is 18" X 42" with bicycle safe inlet grate
      v. Wood shims and similar materials are not permitted to adjust frame elevations
   b. Cleanout boxes
      i. Installed at all pipe junctions with pipes 8 inch or larger
      ii. Installed at change in grade or change in alignment
      iii. Standard box is 18 X 48 solid cover
      iv. May be 60-inch manholes
   c. Line size, type and capacity
      i. Minimum size shall be 15" in street right of ways
      ii. Pipe material is RCP
      iii. The rational formula may be used to determine line capacity within each drainage sub-basin.
      iv. Minimum slope shall provide for 3 fps at 80% capacity
   d. A site drainage plan will show existing and finish grades for the entire property being considered as well as information relating to upstream and downstream contributing areas, flow rates, existing infrastructure capacity, proposed infrastructure design capacities and specifications.
e. Video inspection of pipelines is required prior to acceptance.

f. Minimum cover and placement
   i. The pipe, including the bell, shall be placed at least 15 inches below the lip of
      the curb & gutter.
   ii. Additional depth as required to accommodate area drain systems.
   iii. Storm drain line installed with the centerline of the pipe 24 inches into the street
        from the lip of the gutter.
   iv. Tangent lines may not cross behind curb & gutter on curve streets.

g. UPDES permit
   i. Comply with the City’s Storm Water Management Plan requirements
   ii. Prepare SWPPP with BMPs incorporated
   iii. Rear yard drains with an 8” minimum pipe size, are required whenever the
        average ground running slope is less than 2%.

2. Culinary Water System
   a. Isolation valves
      i. Installed at each intersection, all directions
      ii. Installed not to exceed 800 feet between valves
      iii. Placed at logical locations (fence lines, property corners, near fire hydrants)
      iv. Concrete collar is required
   b. Fire hydrants
      i. Installed not to exceed 400 feet spacing (residential)
      ii. Installed not to exceed 300 feet spacing (commercial)
      iii. Installed at property line projections
      iv. Installed at every dead-end line. These hydrants are for flushing purposes and
          are not considered part of the fire protection system.
      v. Installed at the intersection entrance to cul-de-sacs.
      vi. Auxiliary valve for hydrant installed at the mainline.
   c. Main Line size and placement
      i. Approved material is C-900 PVC class 200 w/#12 locator wire
      ii. Minimum line size is 8 inches or as per City Master Plan
      iii. Minimum depth is 48 inches of cover
      iv. Placed 10 feet north or east from the street centerline
      v. Waterline shall parallel street centerline, with bends as required.
      vi. All trace wire shall be tested for continuity in the presence of the inspector
   d. Culinary water service lines
      i. 3/4” minimum size for residential, 1” allowed
      ii. Commercial / industrial service and meter size determined by anticipated fixture
          unit demand
      iii. Residential meter vaults shall be 20” white PVC with 21” risers
      iv. Services placed to the center of the residential lot unless otherwise approved
      v. The property owner is responsible for concrete maintenance where water meters
         are in driveways.
      vi. Relocation of water meters which require splicing the service line between the
water main and the meter setter are not permitted.

vii. Service lateral extended 10 feet beyond property line and marked with a 2X4 or other full-depth marker

3. Street design
   a. Minimum street right-of-way width is 50 feet.
   b. Maximum length of cul-de-sac, 400 feet from the center of the intersecting street to the center of the cul-de-sac circle, as measured along the centerline.
   c. The maximum length of a dead-end street which is to extend in the future is 1000 feet from the center of the nearest through cross street intersection to the street end. A temporary turn around is required on the dead end if the street is more than 150 feet long.
   d. A second means of access is required for all development with a permanent dead end exceeding 400 feet and a temporary dead end exceeding 1000 feet, measured as described above.
   e. Minimum street curve radius is 150 feet.
   f. Cul-de-sac right-of-way radius is 50 feet.
   g. Street intersections at right angles preferred, with 10 degree approach angle allowance.
   h. “T” intersections preferred with centerline to centerline spacing of 295 foot offset between intersections.
   i. The approach to an intersection shall have at least 100 feet of tangent (perpendicular) approach.
   j. Standard street section
      i. 30" wide, 6" high back style curb & gutter
      ii. 48" park strip
      iii. 48" wide 6" thick concrete sidewalk (6" thick concrete & 6" base thru residential driveway). Sidewalks approved without an adjacent 4' wide park strip shall be a minimum 6" thick with 6" base course.
      iv. 29' wide asphalt surface (residential)
          (1) 4" asphalt
          (2) 8" roadbase
          (3) 12" subbase
          (4) Mirafi 160N geotextile fabric or equal
   v. Streets with right of ways greater than fifty feet wide
      (1) 5” asphalt
      (2) 8” road base
      (3) 12” subbase
      (4) Mirafi 160N geotextile fabric or equal
   vi. 20' back-of-curb radius at corners for 50' right of ways and 30' back-of curb radius if intersecting with a 60’ or larger right of way.
   vii. Construction of public improvements which does not meet the minimum required standard is to be removed and replaced at no cost to the city.
   viii. One compaction test per lift of imported granular base and sub-base material is
required for every 500 square yards

ix. In addition to the compaction test requirements, subbase and base course layers will be proof rolled by a loaded water truck or equivalent. Any noticeable deflection in base materials is to be removed and remediated.

k. Street elevations
   i. 0.50% minimum gutter slope
   ii. 1.0% minimum and 4% maximum cross slope
   iii. Sidewalk installed 0.10’ above top of curb

l. Street Lights
   i. Lights shall be installed at street intersections, dead ends, group mailboxes, a maximum 350 feet spacing or as otherwise approved by the City.
   ii. Poles in residential areas shall be 14’ fiberglass with 100 Watt HPS equivalent LED fixtures with IES Type III distribution.
   iii. Street light installations shall include a concrete base per approved details
   iv. Fixtures shall be Granville or American Revolution unless otherwise approved by the City.
   v. All construction shall be in accordance with Rocky Mountain Power’s installation requirements

4. Other items
   a. Group mailboxes are to be located off main streets whenever possible and a 100’ minimum from the center of a street intersection.
   b. Extend all stub streets to property boundary, including extensions to future development as directed by the City.
   c. End of construction inspection shall be free of defects, damage and debris.
   d. Landscaped areas shall not be graded with a slope steeper than 30% without mechanical stabilization.
   e. Storm water basins which are designed to hold water deeper than 24” are to have slopes no steeper than 30% without mechanical stabilization and fenced with a 6’ high chain link fence unless an exception is granted by the City.
   f. Inspections to release residential and commercial construction bonds will not be completed until after all landscaping which may negatively impact public improvements is completed.
   g. Residential drive approaches shall be located a minimum of 50 feet from the center of a street intersection.
   h. Extraordinary repairs, as defined by the city code, as well as any new damage to public improvements are required to be repaired as a condition of a building permit for properties with existing main structures (as defined by municipal code).
   i. Concrete and other public improvements will be held to the same standard as newly constructed improvements for properties with a building permit for the original
construction of a main structure (as defined by municipal code).

j. All trenches in street right of way shall be backfilled with imported granular material as directed and approved by the public works department.

k. Required soils report shall include
   i. Subsurface water level fluctuations
   ii. Bearing capacity and foundation design requirements
   iii. Pavement design recommendation including subgrade CBR value (as applicable)
   iv. Slope stability
   v. Special considerations such as geologic hazards, collapsible or expansive soils

5. Water, secondary water, storm drain, sewer utility improvements are to be shown in plan and profile drawings for new construction.
A) Clean, free draining material (gravel 1/2" diameter or larger) is required for concrete protection. No native or imported soil is allowed.

B) Gravel sock or equivalent silt barrier is required at the property line.

C) Inlet protection such as a filter fabric under the grate is required if storm drain inlet is within 250 feet of lot line.

D) Silt fence is required on the down hill side of lot as necessary to prevent the discharge of soil material from the site.

E) Inspection will not occur if site is not in SWPPP compliance. Fines for tracking mud or the discharge of soil materials is $299 per occurrence.

F) Dust, debris and garbage must be controlled and contained.
TYPICAL WATERWAY
REVISED 2/11
PLAN 211 SP
CONCRETE COLLAR FOR SURVEY MONUMENT

REVISED 8/17

PLAN 275 SP
NOTES

1. TBC RADIUS SHALL BE 20' WHEN BOTH STREETS ARE 50' R.O.W., 30' RADIUS FOR ALL OTHER SITUATIONS.

TYPICAL STREET SECTION

REVISED 1/17

PLAN 295 SP
RIGHT OF WAY (a)
BACK CURB TO BACK CURB (b)
PAVEMENT WIDTH (c)

BITUMINOUS SURFACE COURSE
6" 50' R.O.W. *3" ALL OTHERS
and SEAL COAT per APWA 30 01 13.68

8" GRANULAR BASE COURSE
12" IMPORTED SUBBASE
GRANULAR MATERIAL
OVER MIRAF 190N OR EQUAL

30"
4"
4'-0"
SLOPE 2' PER FOOT

EX QUESTAR GAS
SEWER

± 11'
± 10'
± 5'
± 19'

CONCRETE CURB & GUTTER
WATER
CONCRETE SIDEWALK
4' ROAD BASE

R.O.W. (a) | (b) | (c)
---|---|---
50' | 34' | 29'
66' | 50' | 45'

CRUSHED AGGREGATE
SUB BASE COURSE MATERIAL

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TYPICAL STREET CROSS SECTION
REVISED 6/19
PLAN 296 SP
A. Rear yard setback for an accessory building is 6' minimum or 3' if the structure is fire rated.

B. Side yard setback for an accessory building is 6' minimum or 3' if the structure is fire rated.

C. Accessory building cannot cover more than 35% of the rear yard.

No structure may be placed over a Public Utility Easement.

- 10' (min) sideyard
- 30 ft. minimum rear yard
- 30 ft. minimum front setback
- Sideyard facing street not less than 20'
- 32' max.
- 30' min. front setback
- 8' min.
- 30' ft. minimum rearyard
- 85' min. frontage
- 10' MIN
- 24 ft. total combined sideyard with 10 ft. minimum

TYPICAL LOT LAYOUT
REVISED 6/19
PLAN 297 SP
STANDARD CUL-DE-SAC

TEMPORARY EASEMENT, REVERSIONARY TO ABUTTING PROPERTY UPON CONSTRUCTED EXTENSION OF STREET.

TEMPORARY CUL-DE-SAC

NOTE: ALL TEMPORARY CUL-DE-SAC VARIATIONS MUST HAVE APPROVAL OF THE CITY ENGINEER PRIOR TO CONSTRUCTION.

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TYPICAL CUL-DE-SAC

REVISED 9/17

PLAN 298 SP
CONSTRUCTION IN LANDSCAPED AND OTHER UNIMPROVED AREAS COMPACT TO 92% MAX. DRY DENSITY PER ASTM D 1557

CONSTRUCTION IN STREETS, ROADS, AND OTHER PAVED AREAS COMPACT TO 98% AVERAGE MAX. DRY DENSITY PER ASTM D 1557

EXIST. ASPHALT THICKNESS +1" (4" MIN)

FINAL SAWCUT PRIOR TO PATCHING

GRANULAR BASE COURSE

SLOPE SIDE WALLS OR SHORE WALLS IN ACCORDANCE WITH OSHA STANDARDS

PLASTIC MARKING TAPE

3" MNUS IMPORTED GRANULAR BORROW BACKFILL MATERIAL

SEE PLAN FOR PIPE SIZES

INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE BARREL. EXCAVATE IN BEDDING FOR ALL PIPE JOINTS. (HAUNCHES TO BE COMPACTED)

1" CRUSHED STONE FOUNDATION TO THE SPRING LINE

UNDISTURBED NATIVE SOIL

PIPE COVER (VARES)

IMPORTED GRANULAR BORROW BACKFILL MATERIAL

1'-0" MIN.

1'-0" MIN.

TYPICAL CONCRETE PIPE TRENCH SECTION

REVISED 4/18

PLAN 385 SP
GENERAL WATER SYSTEM REQUIREMENTS:

1. 10'-0" MIN. EDGE TO EDGE HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER AND SEWER PIPE LINES.

2. WHERE WATER AND SEWER LATERALS MUST CROSS, WATER LATERAL SHALL BE 18" ABOVE THE SEWER LATERAL AS MEASURED FROM THE BOTTOM TO TOP OF PIPES. THIS SEPARATION SHALL BE MAINTAINED FOR AT LEAST 10'-0" EITHER SIDE OF CROSS POINT.

3. UTAH DIVISION OF DRINKING WATER APPROVAL IS REQUIRED TO LOOP ANY WATER PIPE LINE UNDER A SANITARY SEWER PIPE LINE.

4. ALL THRUST BLOCKS MUST BE INSPECTED BY WEST BOUNTIFUL CITY PUBLIC WORKS PRIOR TO CONCRETE PLACEMENT.

5. ALL FITTINGS MUST BE INSPECTED BY WEST BOUNTIFUL CITY PUBLIC WORKS PRIOR TO BACkFILL.

6. A THREE (3') FOOT SEPARATION IS REQUIRED BETWEEN WATER SERVICE LATERAL TAPS.

7. ALL BENDS, TEES, VALVES AND OTHER FITTINGS SHALL BE INSTALLED WITH CONCRETE AND MEICALUG OR APLHAGRP TYPE RESTRANT AND SHALL BE GREASED AND WRAPPED WITH 8 MIL POLYETHYLENE.

8. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 33.05.20. COMPACT PER APWA SECTION 31.23.28 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION. ALL BEDDING BACKFILL SHALL BE CONTINUOUS AND UNIFORM IMPORTED ENGINEERED 2" MINUS GRANULAR MATERIAL.

9. PRESSURE TEST ALL WATER LINES FOR A MINIMUM OF 2 HOURS AT 200 PSI PRESSURE WITH ZERO LOSS.

10. ALL NEW HYDRAULS SHALL BE MUELLER SUPER CENTURION

11. STAINLESS STEEL BOLTS ARE REQUIRED FOR ALL BURIED APPURtenANCES AND "COR-BLUE" OR EQUAL BOLTS ON ALL BURIED FITTINGS.

12. DISINFECTION SHALL BE IN ACCORDANCE WITH APWA STANDARD SPECIFICATIONS, STATE OF UTAH RULE 309-520, AWWA A100 WATER WELLS, AWWA C551 DISINFECTION OF WATER MAINS, AWWA C552 DISINFECTION OF WATER STORAGE FACILITIES AND AWWA C654 DISINFECTION OF WELLS

13. A MINIMUM FOUR FOOT DEPTH OF BURY FROM TOP OF PIPE TO GROUND SURFACE IS REQUIRED UNLESS SPECIFICALLY STATED OTHERWISE.

14. ALL 14" AND LARGER VALVES SHALL BE MUELLER LINESSEAL III SERIES BUTTERFLY VALVES CLASS 250 WITH BURIED SERVICE ACTUATORS. VALVES 12" AND SMALLER SHALL BE MUELLER A-2360 SERIES, AMERICAN FLOW SERIES 2500 OR APPROVED EQUAL GATE VALVES.

15. PIPE LENGTHS SHOWN IN PROFILE ARE HORIZONTAL LENGTHS. NO ADJUSTMENT FOR VERTICAL COMPONENT HAVE BEEN MADE.

16. DISCHARGING SUPER CHLORINATED WATER INTO THE SANITARY SEWER SYSTEM REQUIRES ADVANCE WRITTEN PERMISSION FROM SOUTH DAVIS SEWER DISTRICT.

17. ALL MATERIALS INCLUDING PIPE, GASKETS, LUBRICANTS AND O-RINGS SHALL BE ANSI-CERTIFIED AS MEETING THE REQUIREMENTS OF NSF STANDARD 61 AND STAMPED WITH THE NSF LOGO.

18. PIPES AND PIPE FITTINGS CONTAINING MORE THAN 8% LEAD AND LEAD-TIP GASKETS SHALL NOT BE USED. REPAIRS TO LEAD-JOINT PIPE SHALL BE MADE USING ALTERNATIVE METHODS.

19. PIPE, PIPE JOINTS, FITTINGS, VALVES AND HYDRANTS SHALL CONFORM TO NSF STANDARD 61 OR STANDARD 14, AND APPLICABLE ANSI/AWWA STANDARDS C100-AZ.4-03 THROUGH C500-05 AND C800-7 THROUGH C860-07.

20. DO NOT DROP PIPE INTO TRENCH. PIPE ACCIDENTALLY OR INTENTIONALLY DROPPED SHALL BE REMOVED FROM THE JOBSITE REGARDLESS WHETHER THERE IS VISIBEL DAMAGE OR NOT.

21. OPEN ENDS OF ALL PIPELINES UNDER CONSTRUCTION SHALL BE SEALED AND SAFELY SECURED AT THE END OF EACH WORK DAY.

22. ALL WATER SERVICE LATERALS INCLUDING PIPING, METER, METER SETTER AND CONNECTION TO PRIVATE PROPERTY OWNER'S SYSTEM SHALL CONFORM TO THE CURRENT PLUMBING CODE ADOPTED BY THE STATE OF UTAH. PLUMBING PIPES AND FITTINGS SHALL BE CERTIFIED TO MEET NSFANSI 372 OR NSFANSI 61, ANNEX G. CAP SERVICE FUTURE SERVICE LINES IF NOT IMMEDIATELY CONNECTED.


24. TRACE WIRE SHALL BE 12 GAUGE SHIELDED COPPER WITH WATERTITE CONNECTORS. TRACE WIRE TO BE RUN WITH ALL WATER MAINS, HYDRANT LATERALS AND SERVICE LATERALS TO THE METER BOX. WIRES ARE TO BE TERMINATED INSIDE Valve AND METER BOXES AND AT HYDRANT BASES.
NOTES:
1. INSPECTION: PRIOR TO BACKFILLING, SECURE Inspection OF INSTALLATION BY PUBLIC WORKS.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICATIONS.
3. HYDRANT: DRY BARREL PER AWWA C520.
   A. PROVIDE AT LEAST 1 CUBIC YARD OF SEWER ROCK AROUND DRAIN HOLE AT BASE OF HYDRANT. PLACE TAR PAPER OR PLASTIC OVER SEWER ROCK TO PREVENT SILTING.
   B. PAINT FIRE HYDRANT RED.
   C. APPLY POLY-FM GREASE TO ALL BURIED METAL SURFACES.
   WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
4. THRUST BLOCKS: NOT REQUIRED FOR FLANGED OR WELDED PIPE SYSTEMS.
5. BOLTS: STAINLESS STEEL BOLTS ARE REQUIRED ON ALL BURIED APPERTENANCES "COR-BLUE" OR EQUAL BOLTS ARE REQUIRED ON ALL BURIED FITTINGS.

TYPICAL FIRE HYDRANT
REVISED 1/17
PLAN 511 SP
Provide traffic rated meter box lid (bolt down)

Sidewalk

Water meter insulation blanket

Dual check valve
Connect existing service pipe to new yoke. Remove ex. meter box and yoke

Polyethylene pipe (200 psi class)

21" meter setter: Copper setter w shut off valves, angled dual cartridge check valve, and tie bar (see notes for ordering information)

Traffic rated lid

Drive approach a minimum 8" thick concrete with meter lid flush with concrete

Asphalt road surface

Standard curb & gutter

Base course

Concrete meter box

Pre fabricated meter insulation jacket

Shut off valve

Conduit line connections with Ford 70 series insert stiffener

FORD F700 SERIES CORP. STOP OR APPROVED EQUAL

45° MAX

For 1" polyethylene pipe (200 psi class) perpendicular to main with no fittings

FORD 202B SERIES DOUBLE STRAP BRASS SADDLE WIRED PIPE THREADS OR APPROVED EQUAL

Culinary water main

Traffic rated lid

Shut off valve

Dual check valve

MIN-18", MAX-21"

Typical residential water service in driveway or concrete

Revised 10/17

Plan 521 SP

1 of 2
NOTES:
1. 10'-0" MIN. EDGE TO EDGE HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER AND SEWER LATERAL SERVICE.

2. WHERE WATER AND SEWER LATERALS MUST CROSS, WATER LATERAL SHALL BE 18" ABOVE THE SEWER LATERAL AS MEASURED FROM THE BOTTOM TO TOP OF PIPES. THIS SEPARATION SHALL BE MAINTAINED FOR AT LEAST 10'-0" EITHER SIDE OF CROSS POINT.

3. NO METER BOXES SHALL BE INSTALLED IN DRIVE APPROACHES OR SIDEWALKS UNLESS APPROVED IN WRITING BY THE CITY ENGINEER AND ONLY AFTER OTHER ALTERNATIVES HAVE BEEN EXHAUSTED. RECORDED NOTICE REQUIRING THE PROPERTY OWNER TO BE RESPONSIBLE FOR CONCRETE REPLACEMENT DUE TO MAINTENANCE IS REQUIRED.

4. MINIMUM LATERAL SIZE 3/4".

5. ALL RESIDENTIAL METERS REQUIRE A MINIMUM 20" METER BOX Dia.

6. PRIOR TO BACKFILLING AROUND METER BOX SECURE INSPECTION OF INSTALLATION FROM CITY TO VERIFY INSTALLATION MEETS ALL REQUIREMENTS INCLUDING HEIGHT CLEARANCES.

7. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 28 TO A MODIFIED PROCTOR DENSITY OF 96-PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 6-INCHES BEFORE COMPACTION.

8. PRESSURE TEST ALL WATER LINES AND SERVICES.

9. NO CONCRETE IS ALLOWED AROUND METER BOX PER CITY POLICY.

10. FORD 70 SERIES INSERT STIFFENERS ARE TO BE USED AT ALL CONNECTIONS AND FITTINGS WHERE POLYETHYLENE PIPE OR TUBING IS USED.

11. CITY POLICY PROHIBITS THE USE OF JUMPERS, BYPASS PIPES, OR HOSE TYPE CONNECTIONS TO THE METER SETTER OR SERVICE LINE.

12. METER SETTER: FORD OR MUELLER

13. PROVIDE TRACER WIRE ON ALL WATER LATERALS FROM THE MAIN LINE TO THE METER BOX.

14. WATER METER BOX SHALL BE LOCATED BETWEEN BACK OF CURB AND FRONT OF SIDEWALK, IF CURB AND GUTTER AND SIDEWALK ARE NOT PRESENT, THEN METER BOX SHALL BE LOCATED AS SHOWN ON THE DRAWINGS.

15. WATER METER BLANKET SHALL BE FORD INSULATING BLANKET OR EQUAL

16. PRE MANUFACTURED MOLDED WATER METER INSULATION JACKET

TYPICAL RESIDENTIAL WATER SERVICE IN DRIVEWAY OR CONCRETE

REVISED 12/14

PLAN 521 SP
TYPICAL VALVE BOX

REVISED 1/17

PLAN 562 SP
STREET LIGHT POLE BASE

14' FLUTED ALUMINUM POLE PAINTED BLACK

ANCHOR BOLTS PER POLE MANUFACTURER REQUIREMENTS

(6) #4 HORIZ. TIES
(4) #4 VERT. REBAR

GROUND ELEV.

4'-0"

12"

18"

3/4" MIN. SCH 40 PVC CONDUIT

REBAR 2" MIN. COVER

REVISED 1/19
## WEST BOUNTIFUL CITY

### SHORT DURATION STORM INTENSITY

#### Precipitation Frequency Estimates (inches)

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* These precipitation frequency estimates are based on a partial duration series. ARI is the Average Recurrence Interval.

### Rainfall Distribution/Unit Hydrograph

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