

CITY OF PAYETTE, IDAHO

DESIGN STANDARDS
FOR
DEVELOPMENT
AND
PUBLIC WORKS
CONSTRUCTION

Approved April 20th, 2009

Revised June 16, 2014

Revised May 1, 2017

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CHAPTER I GENERAL:

This Document is a summary of the design standards for the City of Payette. It is derived from the Payette Municipal Code (PMC), the City of Payette Transportation Master Plan (TMP), and the City of Payette Water Master Plan, as a convenience to people wishing to develop within the City. Additional information is available in the PMC and TMP, and in the event of conflict, the parent documents take precedence over this summary.

The City of Payette has adopted the current Edition of the Idaho Standards for Public Works Construction (ISPWC). Prior to any public work development or construction, the contractors or developers shall review the above adopted standards. The City has made construction standards in conjunction with the current edition of the ISPWC. These City standards include acceptable materials, construction practices, and other specified requirements, which may not be covered under the ISPWC standards or contained in the City Code.

These standards have been made in conjunction with the current ISPWC. The intention of these Construction Standards is not to conflict with the above stated standards but rather to supplement and specify construction methods, materials, sizes, and practices. If a question arises between the two because of a conflict, then this matter shall be brought to the attention of the City Engineer or the City Administrator for clarification.

NOTE: All traffic control devices are per current MUTCD standards

Erosion control must meet State and Federal standards. Any site 1 acre or more in size must have an erosion control plan and file a notice of intent with EPA. These are State and Federal requirements, not City requirements.

CHAPTER 2 WATER:

1. General:

All materials, construction, testing, and inspection shall be in accordance with the current ISPWC Divisions 300, 400, and all other applicable divisions therein. All proposed developments shall be submitted to the City for approval according to City Ordinance. Water pipe shall be extended to the furthest property boundaries of the development.

All private water mains shall have IDEQ approval prior to connecting to the public water system. The State definition of water mains is shown on the attached figures. Easements for water mains, where required, shall be at least twenty (20) feet wide.

2. Fire Hydrants:

A. Spacing:

- i. Hydrant spacing shall be at no more than 400 to 500 foot intervals as approved by the Fire Chief (2006 IFC).
- ii. Hydrant spacing and location shall be reviewed and approved by the Payette Fire Department during the standard review required by City Ordinance.
- iii. All water mains installed on cul-de-sacs or similar dead-end streets shall have a hydrant located at the end of the water line.

B . Fire Flow Requirements:

- i. Single family residential: 1,500 gpm minimum.
- ii. Commercial, industrial, and multi-family developments are dependent on the nature of the development and suppression needs per 2006 IFC.
- iii. Determination of fire flow requirements on an individual basis shall be based, as a minimum, on the requirements of the adopted edition of the International Fire Code and the proposed building site, configuration, size and type.

C. Materials:

- i. Fire Hydrants shall be Mueller Super Centurion and painted with two coats of approved red Hydrant Enamel.
- ii. Fire Hydrants shall be installed in accordance with the current edition of the ISPWC Section 403 and per SD 404 modified (attached)
- iii. Fire hydrant lines to be ductile iron from main to hydrant.

3. Water Pipe, Fittings and Valves:

A. Materials: All Water Pipe, Fittings, and Valves shall be in accordance with current edition of the ISPWC Section 400 and 402. Water pipe, Fittings and Valves shall be City approved equivalent or the following:

i. Water Pipe:

a) Lower Pressure Zone

- Pressure Class 350 cement-lined ductile iron pipe meeting ANSI/AWWA C151 for diameters of 6" to 64";
or
- AWWA C900 PVC Class 235 DR 18 pipe for diameters up to 12".

b) Intermediate and Upper Pressure Zones

- Pressure Class 350 cement-lined ductile iron pipe meeting ANSI/AWWA C151 for diameters of 6" to 64";
or
- AWWA C900 PVC Class 305 DR 14 pipe for diameters up to 12".

ii. Fittings: Ductile Iron flanged fitting or M.J. ANSI/AWWA C153.

iii. Valves:

- a) Ductile Iron flanged or M.J. valves ANSI/AWWA C509;
- b) Tracer wire at all valves shall be located on the outside of the valve box and pass through a drilled hole within 6" of the top of the box. The wire is not allowed to come into the valve box from the bottom or between the valve box and the slip top. See SD-9.
- c) Water valves manufactured by Mueller or Clow.
- d) Valve box in paved areas shall have a 24-inch diameter concrete collar per SD-9.

B. Trench Backfill: Type A backfill according to the specifications set forth in the current edition of the ISPWC section 306.3.3. and Chapter 6, Section N of these Design Standards.

C. Thrust Blocks: Thrust blocks shall be placed in dry conditions and in accordance to the specifications set forth in the current edition of the ISPWC, SD-403.

- D. Testing: Water Mains shall be tested by the Contractor prior to permitting such water mains to be open to the distribution system. City personnel or designer shall be present during all water main testing. Failure to have City personnel present is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City and City Engineer.
- i. Disinfection: Water mains shall be disinfected according to the specifications set forth in the current edition of the ISPWC section 401.3.9 prior to leak and pressure testing.
 - ii. Pressure Testing: Water mains shall be pressure tested according to the specifications set forth in the current edition of the ISPWC section 401.3.6. exceptions are as follows:
 - a) If pressure during testing drops 5 psi or more the test is considered to have failed regardless if leakage is below allowable;
 - b) All valves shall be exposed prior to any testing.
- E. Location: Water mains shall be designed so a minimal number of nonpotable water crossings occur in the construction for developments and that they generally follow the corridor described below. All water line locations will be approved by the City Water Works Supervisor or the City Engineer. Valves that are connected to the City main lines become city property and can only be operated by city personnel. Non-potable water crossings shall be in accordance with ISPWC SD-407. Lines shall be extended to furthest property boundary.
- F. Typical corridor: Water mains shall be located as follows unless otherwise approved by the City Water Works Supervisor or the City Engineer.
- i. 5'-10' north and east of centerline
 - ii. Minimum 4' from lip of gutter
 - iii. Minimum 10' separation from non-potable lines for mains and services
- G. Size: Water main sizes shall be the following except when otherwise recommended by the City Engineer for fire flows or other system conditions:
- i. Minimum size is 8" in diameter.
 - ii. Mains may have to be upsized per Water Master Plan (copy at City Hall).
- H. Valve configuration shall be as follows:
- i. All tees as a minimum shall have one valve on the run and one valve on the branch.
 - ii. All crosses shall have valves on all legs.
 - iii. When connecting new water line to an existing water line that is 10" or greater, a valve at all branches (except at a hydrant) is required.

- I. Cover: Water mains shall have a minimum of 48" cover and a maximum cover of 60". Cover greater than 60" may be allowed where obstructions occur, but must be approved by the City.
- J. Dead-end Water Mains: Dead end mains shall be avoided whenever possible.
 - i. Dead end water mains shall only be permitted when phased development is approved and water service scheduled to continue along the water main run, or on approved cul-de-sacs.
 - ii. Dead-end water mains shall terminate with a valve followed by at least 10 feet of water line with an end cap and thrust block clearly marked at the surface.
 - iii. Dead end water mains shall have a Fire Hydrant within 10 feet of the termination of the main.
 - iv. A water valve shall be placed at the nearest tee, cross, or other on the leg of the dead-end run.
- K. Water Main Stubs: No water services shall be installed on water main stubs to future developments.
- L. Water Mains shall be extended to the furthest property boundary to enable future development to connect and extend.
- M. Water Valves shall be anchored to tees or crosses when appropriate with all-thread bolts (stainless steel or galvanized) or strapped to thrust blocks with galvanized straps and approved by the City.
- N. At all times, when laying pipe is not in progress, open-end pipe shall be closed by watertight plug.
- O. Contractors working in the city are not to open, close, or tamper with any valve. The contractor shall notify the city when a valve needs to be opened or closed.

4. Water Services:

- A. Static delivery pressure at each service shall be between 50 + 80 psi as measured at the meter
- B. Separate services are required for each building. Separate services are required for each living unit in a building when the potential for individual ownership exists.
- C. Service Lines: Service lines shall be minimum 1" diameter Class K copper pipe on ductile iron mains or 200 psi copper tubing size poly pipe on PVC mains with stainless steel stiffeners with tracer wire from water meter to water main.

- D. Saddle: Saddles for water mains shall be stainless steel, Mueller with CC threads, or City approved equivalent. Saddle with stainless steel band required at all main line connections. Saddles 12" or greater shall have a stainless-steel double strap.
- E. Corporation Stop: Corporation stops shall be Mueller H-15008 or City approved equivalent. Corporation stops required at all main line connections.
- F. Curb Stop: Curb stops shall be Mueller H-15209 or City approved equivalent. A curb stop is required at the base of the meter setter on the water main side.
- G. Meter Setter: Meter setters shall be an 18" minimum Mueller Model #H-1404-2 and have a dual check valve. A five (5) foot section of Class K copper pipe or 200 psi poly pipe with tracer wire shall be extended on the customer side of the meter vault. Meter setter shall be centered in meter vault.
- H. Meter Vaults: Meter vaults shall be made of 18" smooth interior corrugated HDPE pipe, ADS N-12. Meter vault lids shall be D&L Foundry USA L-2240 Water Meter Cover with recessed, offset hole. The knockout shall be in place. Meter vaults shall be for individual meters.
- I. Meter vaults shall be located on the opposite side of a building lot from the location of mailboxes.
- J. Meters: All water meters shall be a 5/8 inch by 3/4 inch Neptune T-10 with E-Coder R-900I for up to one inch (1") diameter and Neptune for greater than one inch (1") diameter.
- K. Location: Water services shall be located within the City's right of way approximately one foot (1') from the property line unless otherwise approved by the City Water Works Supervisor or the City Engineer. A one inch (1") diameter electrical conduit shall be provided between meter vaults that adjoin a common property lot line.
- L. The developer shall provide and install all materials for water services except the water meter. The City shall provide water meter.

5. Construction:

- A. By licensed plumber and/or a licensed public works contractor.

6. Locators & Markers:

- A. All non-metallic water mains shall be installed with a continuous, magnetically detectable warning tape installed four (4) to six (6) inches below finished grade directly over the pipe and be continuously marked "Caution, Water Main Buried Below" for location purposes. A continuous 12-gauge copper tracer wire shall be installed the full length of all non-metallic water mains. Locate wire shall run on outside of valve box then through a hole located at the top (see SD-406). In addition, all PVC water mains shall be either a solid blue color or white with blue lettering. All lettering shall appear legibly on pipe and shall run the entire length of the pipe.
- B. All Ductile Iron water mains shall be installed with two (2) brass wedges at every joint.
- C. On curbed streets, the exact location for each installed service shall be marked by etching or cutting "W" in the concrete curb. Where no curb exists, locations shall be adequately marked by a method approved by the City. A steel post shall be placed at the end of each service similar to ISPWC SD-512.

CHAPTER 3 SANITARY SEWER:

1. General:

- A. All materials, construction, testing, and inspection shall be in accordance to the current edition of the ISPWC Divisions 300, 500, and all other applicable divisions therein. All proposed developments shall be submitted to the City for approval according to City Ordinance.
- B. Public sewer mains to be 8-inch minimum diameter. May need to be upsized per master plan. Public sewer mains shall be extended through all new development to allow future development to connect to and extend the main so far as gravity flow can be maintained.
- C. Manholes shall have concentric cones and shall not have steps.
- D. Public sewer mains shall end at a manhole. Cleanouts are not allowed on public sewer mains. No surface water, downspouts, foundation drains, or other drainage to be attached to sewer services or the main sewer line. (PMC 13.08.037).
- E. Easements for sewer mains, where required, shall be at least twenty (20) feet wide.

2. Industrial Users:

Pretreatment is required per PMC 13.10.

3. Testing:

Sanitary Sewer Mains shall be tested by the Contractor prior to permitting such sewer main to be open to the collection system. City personnel or designated representative shall be present during sewer main testing. Failure to have City personnel or designated representative present during all testing is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City and City Engineer.

- A. Pressure Testing: Sanitary Sewer mains shall be pressure tested according to the specifications set forth in the current edition of the ISPWC.
- B. Visual Test: A televised video of all sections of sewer mains shall be provided to the City. All visible leaks shall be repaired, even though the leakage may be below allowable limits. All repairs shall be inspected by the City prior to backfilling.
- C. Trench Compaction Testing: Trench compaction testing shall be in accordance with Section 6. N. Testing and retesting shall be in accordance with the specifications set forth in the current edition of the ISPWC.

4. Cover:

- A. Where possible sewer to be at depth to provide basement service (PMC 13.08.036).
- B. 6.5-foot typical to avoid conflict with water mains and services
- C. 3.5-foot minimum

5. Typical Corridor/Location:

- A. 5'-10' south and west of centerline
- B. Minimum 4' from gutter
- C. Maximum 400' manhole spacing
- D. Minimum 0.10' drop through manholes
- E. Minimum slopes per Ten State Standards (Recommended Standards for Wastewater Facilities, A report of the Wastewater Committee of the Great Lakes – Upper Mississippi River, 2004 edition)

6. Private sewer mains:

In some instances, developer may desire to install a private sewer main as defined by Idaho Department of Environmental Quality (IDEQ). Plans for all such private mains must be reviewed and approved by IDEQ prior to construction. Developer must show proof of approved plans to City prior to connecting private sewer main to public sewer main. See attached Standard Drawings SD-511 and SD-511A.

7. Manholes:

- A. Materials: Sewer manholes shall be constructed in accordance with the current edition of the ISPWC. Manholes shall have concentric cones and shall not have steps.
- B. Testing: Sanitary sewer manholes shall be tested prior to permitting such sewer manhole to be open to the collection system. Testing shall be in accordance to current edition of the ISPWC. City personnel or designated representative shall be present during testing. Failure to have City personnel or designated representative present during all testing is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City.
- C. Location: Sewer manholes shall be located within 5'-0" of the centerline of the street unless otherwise approved by the City Public Works Supervisor or the City Engineer.
- D. External sealing system: All manholes shall be watertight. An external sealing system may be required to be installed on the outside of the manhole at the barrel joints in addition to the joint sealing system specified in the current edition of the ISPWC.
- E. Connection into an existing manhole or construction of a drop manhole or special manhole shall not be accepted without full time inspection by approved City staff or the City Engineer.

8. Pressure Sewer Pipes:

- A. Materials: All pressure sewer pipes shall be in accordance with the current edition of the ISPWC. Pressure sewer pipe shall be City approved equivalent or the following:
 - i. Class 52 cement-lined ductile iron pipe with a fused calcium aluminate cement mortar lining (H₂Sewer Safe) as manufactured by Griffin Pipe Products meeting ANSI/AWWA standards.
 - ii. AWWA C900 PVC Class 235 DR 18 pipe or AWWA C909 PVC.
 - iii. Air Relief / Clean-out stations shall be provided every 600 feet.

- B. Testing: Sanitary sewer pressure mains shall be tested prior to permitting such sewer main to be open to the collection system. Testing shall be in accordance to current edition of the ISPWC. City personnel or designated representative shall be present during testing. Failure to have City personnel or designated representative present during all testing is sufficient reason for requirement to retest. Developer's engineer shall provide certification of testing and testing results to the City and City Engineer. Trench compaction testing shall be completed in accordance with Section 6.N. Testing and retesting shall be in accordance with the specifications set forth in the current edition of the ISPWC.
- C. Locating Wire Boxes: Shall be in accordance current edition of the ISPWC. Locating wire boxes shall be installed on pressure sewer mains at a maximum spacing of 400 feet.
- D. Cover: Pressure sewer mains shall have a minimum of 42" cover and a maximum cover of 60". Cover greater than 60" may be allowed where obstructions occur, but must be approved by the City.

9. Sewer Services:

- A. Connection to Mains: Service wyes or tees shall be used on new main installations. Saddles are not acceptable. All sewer services shall be connected to the sewer main. In the event that an exception is made and a service is connected to a main line by means of a manhole, the service flow direction shall be pointed down stream and at an angle of less than 45 degrees to the direction of flow, and the service shall enter the manhole at the mid-point elevation of the sewer main.
- B. Sewer Service Shut-off: A tee in the sewer service line shall be located behind the sidewalk to allow for the insertion of a sewer plug on the service line. The tee shall be installed in accordance to ISPWC SD506A.
- C. Service Markers: In addition to requirements set forth in the current edition of the ISPWC, sewer services shall also be marked with a 5-foot metal T post and with a permanent "s" stamped in the curb, (tracer wire may be required).
- D. Backflow preventer required on all services (PMC 13.08.141)
- E. No services allowed in manholes (PMC 13.10.040.E)
- F. Separate service required for each building. Minimum diameter is 4-inch (PMC 13.08.033)
- G. Locate near midpoint of each lot
- H. 5-foot minimum distance from service to edge of manhole
- I. 5-foot minimum distance between services
- J. Extend service stub past utility easements for new construction

10. Construction:

- A. By licensed plumber and/or public works license.
- B. By authorization of Wastewater Superintendent.

CHAPTER 4 STORM SEWER & DRAINAGE:

1. General:

All proposed storm sewer and drainage improvements shall be submitted to the City for review.

Storm Drainage must be contained on-site and meet the State of Idaho's BMPs (PMC 16.28.050, PMC 17.72.020).

Storm drainage allowed in open space. Must be landscaped (PMC 17.24.050.F)

All storm water from all development shall be contained on site. Applies to all new development including but not limited to: Streets, Commercial, Industrial, and Residential Development.

The storm water runoff from the proposed development cannot be diverted and released to any other property, storm drain, drainage facility, or any other conveyance system, unless there is written permission that the receiver agrees, as evidenced by valid and binding public document, to receive a certain definite quantity from the development. Said binding public document shall be submitted and approved by the City prior to commencing construction.

2. Collection Piping And Catch Basins:

A. Materials:

- i. All storm drainage pipes shall be ASTM 3034 SDR 35 PVC pipe.
- ii. All storm drainage catch basins shall be Inlet Catch Basin Type II (SD-602) in accordance with current edition of the ISPWC with a 12-inch sump.
- iii. Trench shall include nonmetallic tape identifying the storm sewer pipe.
- iv. Minimum size of storm drain shall be 8-inches.

B. Construction and Testing: Storm sewer system shall be constructed and tested in accordance with ISPWC. Compaction testing is required in all trenches within the right of way. See Section 6.N. for details.

C. Manhole spacing shall be no more than 400 feet.

D. The storm drain system shall be designed such that it will convey a storm with an intensity of 1 inch per hour. The retention system shall hold a

volume equivalent to 1 inch of rainfall over the entire drainage area without considering infiltration.

- E. Retention shall infiltrate within 24 hours.
- F. Infiltration rate shall be determined by soil type per chart. Percolation tests may also be used but design rates may not exceed the values in table.

SCS Group and Type	Infiltration Rate (Inches Per Hour)
A. Sand	8
A. Loamy Sand	2
B. Sandy Loam	1
B. Loam	.5
C. Silt Loam	.25*
C. Sandy Clay Loam	.15
D. Clay Loam & Silty Clay Loam	<.09
D. Clays	<.05
*Minimum rate, soils with lesser rates should not be considered as candidates for infiltration facilities.	

3. Site Conditions Evaluation:

- A. Site suitability is a major factor in choosing Best Management Practices (BMPs). In some cases, a BMP may be eliminated as an option because of site constraints. Since drainage disposal may place limitations on the use or specific location of future improvements, site evaluation should be completed before preparing any development concepts or plans.

4. Plan Submittal Requirement:

- A. A Storm Drainage Plan is required for all new subdivisions and commercial or industrial facilities. The Plan must be stamped and signed by a licensed professional engineer, architect, or landscape architect. Review of the Plan may be delayed if the submittal is incomplete. Landscaping shall be included in the Plan, if applicable. Operation and Maintenance shall be included in the Plan.
- B. Minimal Allowable Design Volume Form, as seen in Appendix A, must be submitted with Plan.

C. At a minimum, the O&M Plan shall identify the following:

- i. The storm water system owner(s),
- ii. The entity, party, or parties, responsible for long-term operation and maintenance.
- iii. A copy of final system design drawings along with design calculations (calculations beyond those submitted during plan review).
- iv. A schedule for inspection and maintenance including the routine and non-routine maintenance tasks to be conducted.
- v. A financing plans.

5. Drainage Easements:

- A. All storm water control facilities and natural drainage channels, not part of a new development, shall be located in designated and reserved storm water easements that are a minimum of 20-feet wide. Easements shall be sized for access for construction equipment and activities that may be needed for maintenance and repair work. If maintenance roads are necessary, they must be a minimum of 12-feet wide, have an HS-20 load capacity, and have a minimum inside turning radius of 30-feet.
- B. In new developments, all storm water control facilities and natural drainage channels shall be located in separate lots or Right of Way. All separate storm water associated lots shall be dedicated to the Home Owner's Association or a sole responsible party. The Home Owner's Association or sole responsible party will be responsible for all storm water facility operation and maintenance within the subdivision.

CHAPTER 5 PRESSURIZED IRRIGATION:

1. General:

- A. Irrigation and Drainage Districts (PMC 16.28.050-060)
 - i. All irrigation systems are private (not City owned)
 - ii. No ditch, pipe or structure for irrigation water or wastewater shall be changed unless such change has been first approved by the owner.
 - iii. Improvements to surface drainage courses may be required. Drainage easements may be required.

B. Pressure Irrigation (PMC 16.28.040.B)

- i. Pressure irrigation is required for all new developments. Irrigation water is to be provided from either private wells or surface water. Proof of water right is required. Water from the City's potable system is not permitted for the irrigation system.
- ii. The pressure irrigation system shall deliver a minimum of ¾-inch hose connection at 25 psi per lot.

CHAPTER 6 STREETS:

1. General:

All materials, construction, testing, and inspection shall be in accordance to the current edition of the ISPWC Divisions 200, 700, 800 and all other applicable divisions therein.

A. Right-of-way widths (PMC 16.12.040.D)

- i. Local 60 feet
- ii. Collector..... 70-90 feet*
- iii. Arterial..... 100 feet
- iv. Alley..... 20 feet
- v. Cul-de-sacs, radius..... 50 feet

*Streets that border section lines require minimum 80-foot r/w and along quarter-section lines require minimum 70-foot r/w (PMC 12.04.270).

B. Curves (PMC 16.12.040.K)

- i. For 10° or more deflection, a connecting curve is required:
 - a) 150' radius for local streets
 - b) 300' radius for arterial and collector streets
- ii. A vertical curve is required for changes of slope greater than 1%. Vertical curves shall have a minimum K-value of 50 for 35 mph

design speed and minimum K-value of 30 for design speed = 25 mph. Design Speeds shall be per 6.1.P.

- C. Minimum angle of intersection: 70° (PMC 16.12.040.J)
- D. Minimum radii of curbs (PMC 16.12.040)
 - i. Cul-de-sacs – 45'
 - ii. Local Street/Local Street – 20' PMC 16.12.030
 - iii. Local Street/Collector – 20' PMC 16.12.030
 - iv. Collector/Arterial – 30' ISPWC
 - v. Commercial zones – 30' ISPWC
- E. Grades (PMC 16.12.040)
 - i. Minimum – 0.003 ft/ft (0.3%)
 - ii. Maximum – 0.15 ft/ft (15%)
- F. Typical sections (PMC 17.08.590)
 - i. Back-to-back curb dimensions
 - a) Local 37 feet
 - b) Residential Collector 41 feet
 - c) Collector 47 feet
 - d) Arterial 47 feet
- G. Sidewalks – (PMCs 12.04.170, 120.4.250, & 16.28.030.G)
 - i. concrete only
 - ii. minimum 4-feet in residential areas on local streets
 - iii. minimum 5-feet wide in residential areas along arterials
 - iv. minimum 5-feet in commercial areas
- H. Curb and gutter types (PMC 12.04.250)
 - i. Standard is 6" vertical curb with gutter
 - ii. 6" vertical curb and gutter required on collectors and arterials

- iii. 6" vertical curb and gutter required in commercial/industrial zones
- iv. 3" rolled curb allowed on local streets in new subdivisions or when adjoining existing rolled curb.

I. Minimum Pavement Thickness (compacted materials) (TMP)

	a) Local	b) Collector
Plant mix	2 .5"	3"
Base Course	3"	6"
Sub base	10"	12"

Where: Plant mix is Class III asphalt concrete per ISPWC 810

Base Course is 3/4-inch crushed aggregate for base per ISPWC 802

Sub base is 3-inch minus uncrushed aggregate per ISPWC 801

J. Street Lengths (PMC 16.12.040.I)

- i. Maximum loop street length is 1,000 feet unless the street serves 24 or fewer lots, then the maximum length is 1,200 feet.
- ii. Maximum culdesac length is 400 feet from entrance to center of final turn around.
- iii. Temporary turnarounds will be required for any street stub longer than 150 feet. Temporary turnarounds will have a minimum 45-foot radius.

K. Emergency Access Roads (2003 International Fire code, IFC, pg 397)

- i. Typically, a 26' wide emergency access road is required for secondary access. See 2006 IFC for details.
- ii. Easement shall be provided for access road.

L. Street Lights (PMC 16.12.080)

- i. Located at each intersection and as required by City
- ii. CREE - XSP1 LED Street Light, Single Module – Version B (BXSP-B-HT-3ME-B-57K-UL-SV)
 - a) 101 watts
 - b) 25' mounting height.
 - c) 6' mast arm

d) Metal pole

- iii. Different lights may be used subject to approval and must be maintained by property owner.

M. Blocks (PMC 16.12.020)

- i. Length no longer than 660-feet
- ii. Length not less than 250-feet

N. Trenching within Right of Way

All trenches shall conform to ISPWC Section 300. See attached standard drawing SD-301 for additional information. The notes below correspond to the items on SD-301:

Note

1. Local cutback = 1 foot
6. Imported backfill shall be used for trenches unless approved in advance by the City Engineer. Backfill shall conform to ISPWC Section 801- 3" minus Uncrushed Aggregate. Approval of alternate material will be based on gradation and moisture content of proposed alternate.
8. Type I or III bedding typically required.
11. Match existing finished pavement thickness or use minimum of 2.5 inches on local streets and 3.0 inches on collectors or arterials, whichever is greater. Pavement thicknesses shall not exceed 4 inches on local streets or 6 inches on collectors or arterials. Use 8 inches of ¾-inch crushed aggregate base (Section 801, ISPWC) unless otherwise specified.
12. Upper compaction zone: Compact to at least 95% of maximum dry density (MDD) as per ASTM D 698.
13. Lower compaction zone: Compact to at least 92% of MDD as per ASTM D 698.

NOTE: Compaction tests are required as follows: at least 1 test per 300 lineal feet of trench (2 minimum) horizontally, and at least 1 set of tests per each 2 feet vertically of trench backfill.

- O. New Street Construction: all underground utilities (including storm drain) within the right-of-way shall be installed prior to placing any sub base or base material.
- P. Design Speed (PMC 10.16)
 - i. Local and Collector streets -25 mph
 - ii. Arterial streets - 35 mph
- Q. Restricted access points (no driveways) along collectors and arterials (PMC 16.12.010.C)
- R. Residential driveway curb cuts must be separated by at least 21 feet (unless on adjoining driveways) and are limited to (PMC 12.04.250.D):
 - i. 20 feet wide on 50-foot lots
 - ii. 35% of lot width up to a maximum of 35 feet on wider lots
 - iii. Driveways on corner lots shall be placed within 8 feet of the property line which is away from the intersection, or at least 75 feet from the end of the corner curb radius, whichever is less.
- S. Open Space
 - i. Landscape buffer separates areas (PMC 17.08.130).
- T. Buffer strip required along arterial and collector streets. Minimum 15-foot wide including sidewalk (PMC 16.12.010.F).
- U. Street signs are to be determined by Street Supervisor or designated employee.

2. Miscellaneous:

- A. Street Cuts or Blockages: The City's Streets Supervisor shall be notified in writing at least two (2) City business days before any street cuts or street blockages for utility or street work.
- B. Vandalized Concrete: Any concrete vandalized during construction shall be repaired to new condition or replaced solely at the contractor's expense.
- C. Dust shall be controlled by watering in the morning and evenings and as otherwise needed. Contact the City for options on purchasing water.
- D. Stop signs are required at all intersections. Stop sign location to be determined by City Engineer or designated employee.

CHAPTER 7 RESIDENTIAL DEVELOPMENT **(PMC 16.12.030, 17.24.00, 17.28.00)**

1. General

- A. Flag lots are not permissible without a variance from the City Council (PMC 16.12.030.C)
- B. Easements: Public Utility, Drainage, and Irrigation (P.U.D.I) (PMC 16.12.060)
 - i. Front yard 10-feet
 - ii. Side yard 6-feet
 - iii. Rear yard 10-feet
- C. Irrigation is required. See Chapter 5.
- D. Model homes are allowed (PMC 16.13.00)
- E. Landscape buffer strips (PMC 16.12.010.F)
 - i. Required where development adjoins collectors and arterials
 - ii. Minimum width is 15-feet measured from back of curb (includes sidewalk)
 - iii. Privacy fence or berm with landscaping required
- F. Storm Drainage must be contained on-site and meet the State of Idaho's BMPs (PMC 16.28.050). See Chapter 4.

2. "A" Residential

- A. Min sq. footage (PMC 17.24.040.G)
 - i. Standard lots – 8,000 SF
 - ii. Corner lots – 10,000 SF
- B. Minimum frontage on right-of-way (PMC 17.24.040.D)
 - i. Standard lots – 75-feet
 - ii. Corner lots – 85-feet
- C. Minimum radius for corner lots-20-feet (PMC 16.12.030.B)

- D. Minimum setbacks (PMC 17.24.040. A-C)
 - i. FRONT- The larger of either, 25-feet from property line or 55-feet from center of road
 - ii. SIDE/REAR-8-feet

3. "B" Residential

- A. Min sq. footage (PMC 17.28.040)
 - i. Standard lots - 6,000 SF
 - ii. Corner lots – 8,000 SF
- B. Minimum frontage on right-of-way (PMC 16.12.030)
 - i. Standard lots – 60 feet
 - ii. Corner lots – 75 feet
- C. Minimum radius for corner lots - Same as "A"
- D. Minimum setbacks- Same as "A"
- E. Multi-family housing and Townhouses are allowed. Minimum lot size is 3,500 SF per living unit (PMC 17.28.404, 17.64.230)
- F. Planned Unit Developments (PUD) are allowed (PMC 17.44)

CHAPTER 8 COMMERCIAL DEVELOPMENT **(PMC 17.32-17.36)**

Commercial developments are highly variable, and each developer is encouraged to attend a pre-application development review meeting with City representatives. This will often stream-line the development process and often save the developer time and money.

- A. Permissible uses are defined in PMC 17.32.010 and 17.32.020.
- B. The parking requirements are clearly identified in PMC 17.72.020 through 17.72.040. Please note that paved, striped, lighted, and landscaped parking areas are required.
- C. Drainage: All surface water retained on site PMC 17.72.020. See Chapter 4 of these Standards.
- D. Standard 6" vertical curb with gutter and sidewalks shall be

constructed in front and along the side streets of said property. Sidewalks shall be five feet (5') minimum width, and wider if necessary to conform with sidewalks already in existence, or from curb to property line. PMC 12.04.250

- E. Requests for curb cuts must be made, in writing, to the Council. Curb cuts up to twenty feet (20') may be allowed on fifty foot (50') lots, and up to thirty five percent (35%) on lots above fifty feet (50'). No curb cut may be longer than thirty-five feet (35'), and twenty-one feet (21') of curb must be left between any two (2) curb cuts except where there are adjoining driveways. A request for any deviation in these regulations must be referred to the Planning Commission for approval before the Council will consider such request. Every application for a building permit shall show where the curb cut will be and must have the approval of the Engineer or Building Official. (PMC 12.04.250)
- F. Pressure irrigation for landscape areas as required to support landscaping.
- G. Curb cuts will be a minimum of 75 feet from the corner radius of the nearest intersection. Longer distances may be required to prevent interference with turn lanes and/or other intersection functions.

CHAPTER 9 PROJECT INSPECTION/CONSTRUCTION:

1. General:

- A. Prior to any work within the City right-of-way, an application and encroachment permit shall be obtained from the City of Payette. Application is included at the end of this Chapter.
- B. Prior to commencement of construction a pre-construction meeting shall be held.
- C. Prior to commencement of construction of the associated public portion of improvements the material submittals shall be submitted and approved. A checklist of submittal requirements is included at the end of this Chapter.

2. On-Site Inspector(s):

- A. Project inspection shall be conducted on a daily basis under the auspices and control of the developer's Idaho-licensed professional Engineer.
- B. Prior to any new construction, or repair of existing utility service, the City shall

be notified in writing of the inspector's name, a statement of qualifications, office location, phone number, and emergency telephone numbers.

- C. No water, sewer, street, or drainage construction shall take place without the City approved inspector on-site.
- D. Periodic inspection shall be conducted by the Department Supervisors and/or the City Engineer.

3. Final Inspection:

- A. Final project inspection shall be by the City Engineer or a representative of the City Engineer.
- B. Final inspections shall be requested by the developer's engineer and scheduled with the City Engineer at least two (2) City working days in advance.

C. Punch List:

- i. The project engineer shall do the first walk through and compile a list of items to be completed. Prior to the City and City Engineer participating in a walk through all items on the list are substantially completed.
- ii. The City Engineer will develop a "punch-list" of items that must be completed, within five (5) working days of the final inspection.
- iii. At the time the "punch-list" is developed, the City Engineer will assess a value to the punch list items, which the developer may secure an item of surety in accordance with City Code so that the developer may proceed with the development plan. Alternatively, the developer may complete the punch list items before proceeding with the development plan.
- iv. Punch list items shall be completed to the satisfaction of the City Engineer prior to the release of any portion of the security. When all items contained on the City's punch list are completed, the City will issue a certificate of completion at which time the warranty period will start.

CHAPTER 10 LANDSCAPE AND VIEWSCAPES:

1. General:

- A. All residential, commercial, and light industrial developments shall have entrance landscaping for a traffic buffer and viewscapes transition. As a minimum, the traffic buffering requirements shall be according to City of Payette Ordinance.
- B. Maintenance of such landscaped and/or viewscapes areas including but not limited to the irrigation system shall be the responsibility of the developer, future owner, and/or homeowner association unless other maintenance arrangements have been agreed upon with the City. Maintenance responsibility shall be clearly stated on the landscape plan.
- C. All residential, commercial, and light industrial developments requiring or offering open space shall have as a minimum submitted with the final plan set:
 - i. A landscape plan;
 - ii. A financial plan of implementation, if dedicated to the City.

2. Required Irrigation:

- A. General: Irrigation shall be supplied as a part of the landscape and/or viewscapes with the ability to be controlled automatically.
- B.-Irrigation:—shall comply to Chapter 5 of these Standards.

APPENDIX A

MINIMUM ALLOWABLE DESIGN VOLUME AND PEAK FLOW

Project: _____

Engineer: _____

Drainage Site: _____ (Drainage Basin)

1. Drainage Area Calculation:

Equivalent Area

Surface Type	A Area (sq. ft)	C Runoff Coeff.	A x C = A _{eq} Equivalent Area (sq. ft)
Roof		0.95	
Asphalt		0.95	
Concrete		0.95	
Gravel		0.50	
Landscape		0.20	
Unimproved		0.15	
Total Equivalent Area (sq. ft), A _{eq}			

2. Minimum Runoff Volume:

100-year Volume

$$V_{100} = A_{eq} \times 1.0 \times \left(\frac{1 \text{ ft}}{12 \text{ in}} \right)$$

$$V_{100} = (\text{_____}) \times 1.0 \times \left(\frac{1 \text{ ft}}{12 \text{ in}} \right)$$

$$V_{100} = (\text{_____}) \text{ Cubic Feet}$$

3. Minimum Peak Flow: (For Facilities with Sand and Grease Traps Only)

100-year Peak Flow

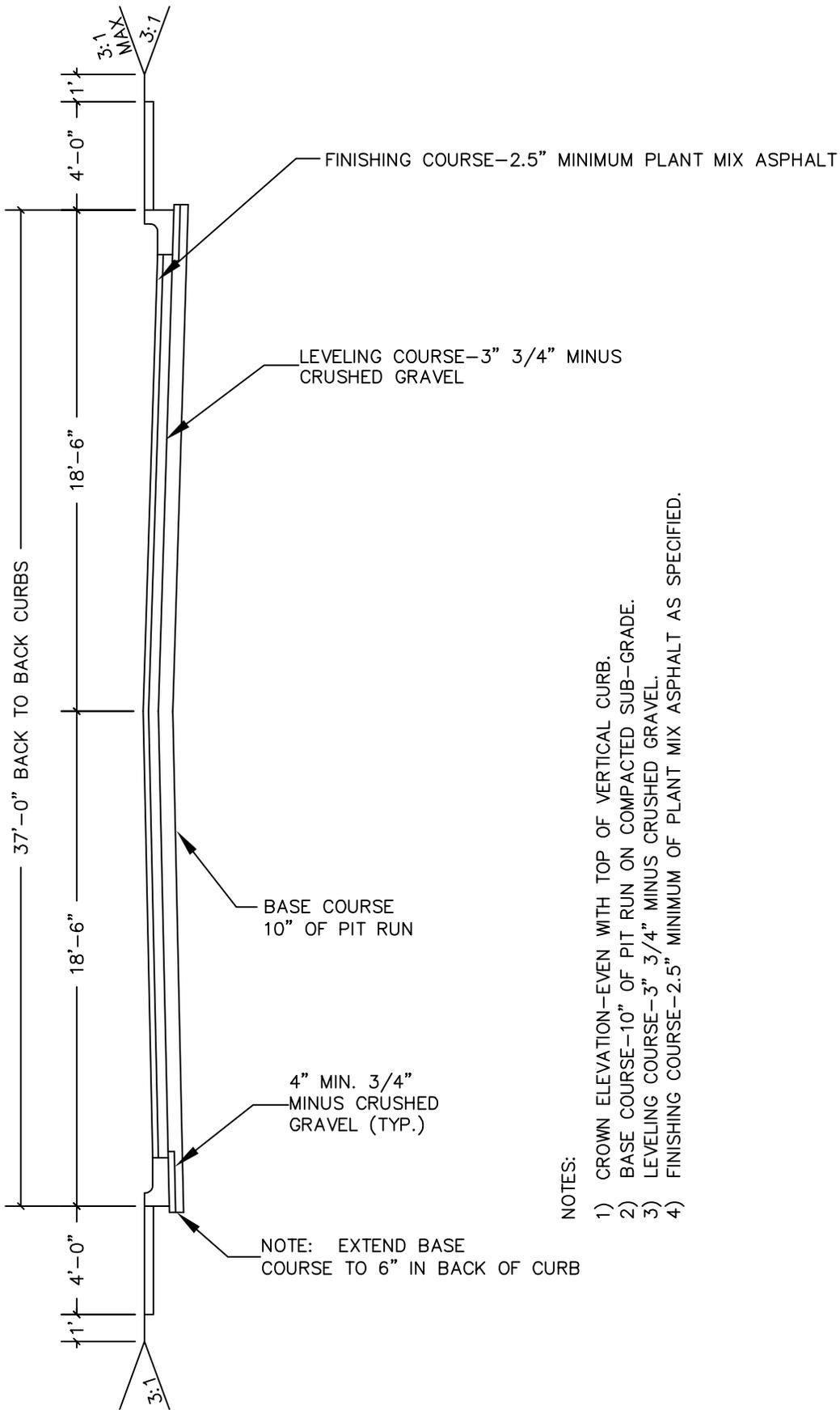
$$Q_{100} = A_{sq} \times 1.0 \times \left(\frac{1 \text{ acre}}{43560 \text{ sf}} \right)$$

$$Q_{100} = (\text{_____}) \times 1.0 \times \left(\frac{1 \text{ acre}}{43560 \text{ sf}} \right)$$

$$Q_{100} = (\text{_____}) \text{ cfs}$$

To limit velocity through the sand and grease trap throat to 0.5 feet per second, the peak design flows shall not exceed the following maximum flows for the selected sand and grease trap size:

Tank Size	Max Flow
1000 gallon tank, Approximate inside dimension of 4'x8'x6'; 20-inch baffle spacing	3.33 cfs
1500 gallon tank; Approximate inside dimension of 5'x7'x7'; 20-inch baffle spacing	4.17 cfs



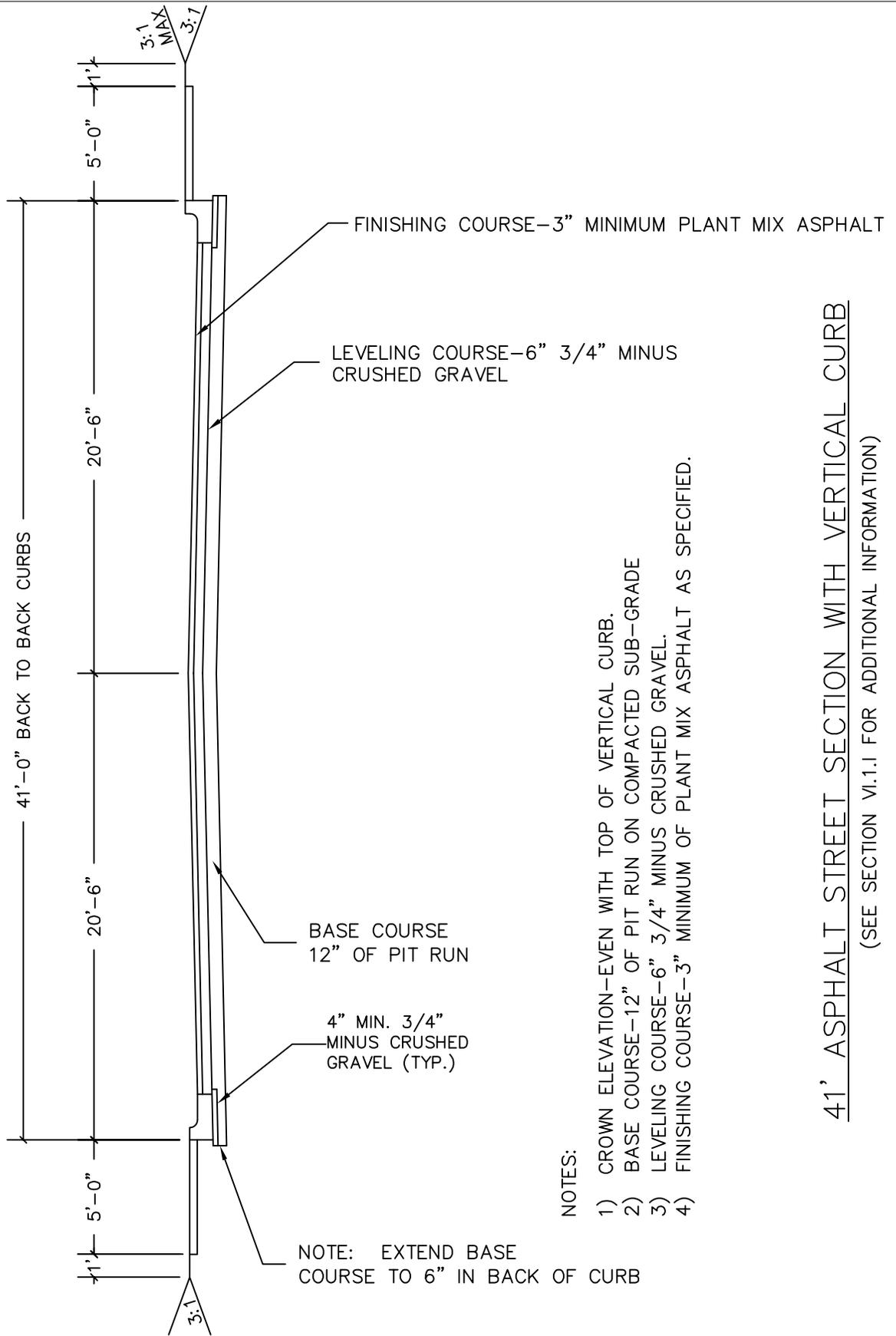
NOTES:

- 1) CROWN ELEVATION—EVEN WITH TOP OF VERTICAL CURB.
- 2) BASE COURSE—10" OF PIT RUN ON COMPACTED SUB—GRADE.
- 3) LEVELING COURSE—3" 3/4" MINUS CRUSHED GRAVEL.
- 4) FINISHING COURSE—2.5" MINIMUM OF PLANT MIX ASPHALT AS SPECIFIED.

37' ASPHALT STREET SECTION WITH VERTICAL CURB

(SEE SECTION VI.1.1 FOR ADDITIONAL INFORMATION)

<p>CITY OF PAYETTE PUBLIC WORKS DEPARTMENT</p> <p>FILE: G:\CLIENTS\STANDARDS\CP\S-1.DWG</p>	<p>37' STREET SECTION</p>	<p>STANDARD DETAIL NO. S-1</p> <p>DATE: MARCH 2017</p> <p>REVISED: 3/31/2017 BG</p>
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NOTES:

- 1) CROWN ELEVATION-EVEN WITH TOP OF VERTICAL CURB.
- 2) BASE COURSE-12" OF PIT RUN ON COMPACTED SUB-GRADE
- 3) LEVELING COURSE-6" 3/4" MINUS CRUSHED GRAVEL.
- 4) FINISHING COURSE-3" MINIMUM OF PLANT MIX ASPHALT AS SPECIFIED.

41' ASPHALT STREET SECTION WITH VERTICAL CURB

(SEE SECTION VI.1.1 FOR ADDITIONAL INFORMATION)

CITY OF PAYETTE
PUBLIC WORKS DEPARTMENT

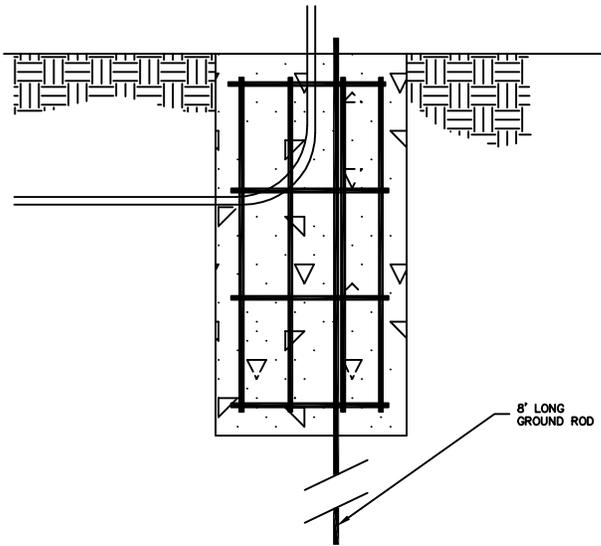
41' STREET SECTION

STANDARD DETAIL
NO. S-2

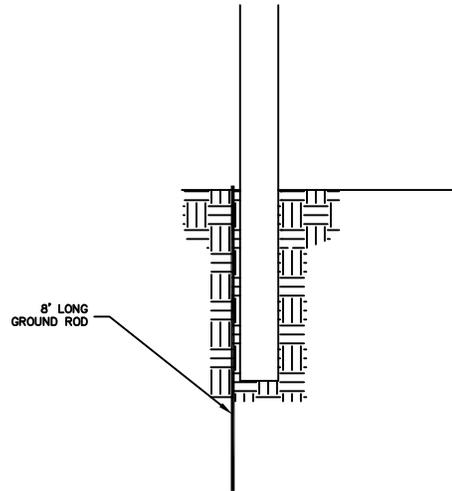
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DATE:
MARCH 2017

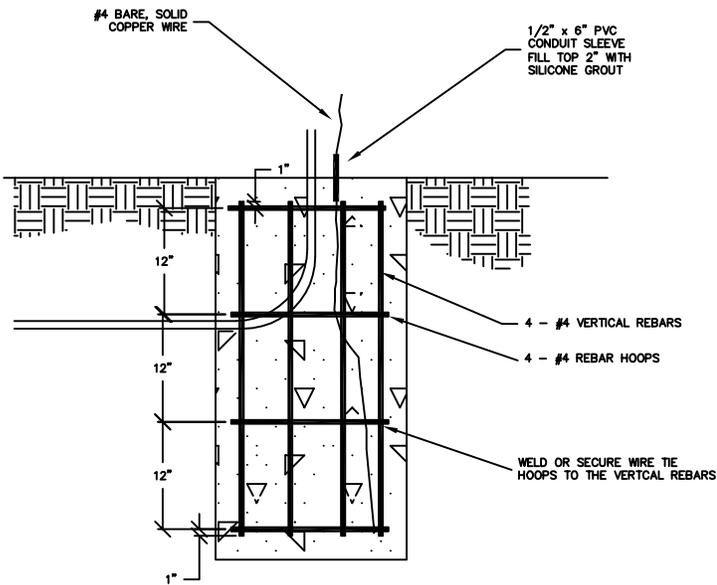
REVISED:
3/31/2017 BG



ALTERNATE # 1



ALTERNATE # 3
FIBERGLASS DIRECT BURIAL POLES



ALTERNATE # 2

NOTE:
CITY STREET LIGHTS SHALL BE INSTALLED WITH
ONE OF THE ABOVE GROUNDING SYSTEMS.

CITY OF PAYETTE
PUBLIC WORKS DEPARTMENT

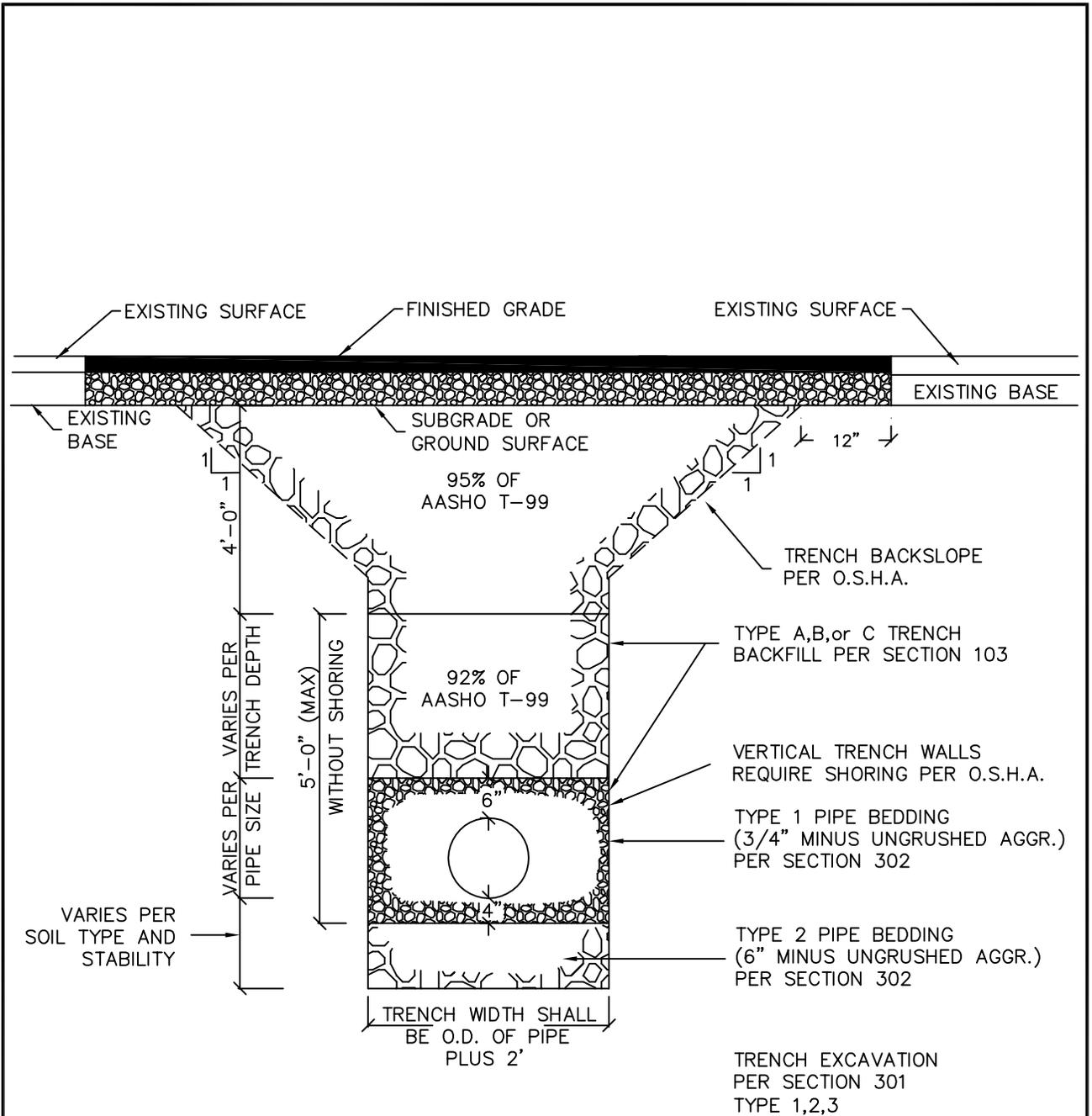
GROUNDING DETAILS

STANDARDS DRAWING
NO. S-3

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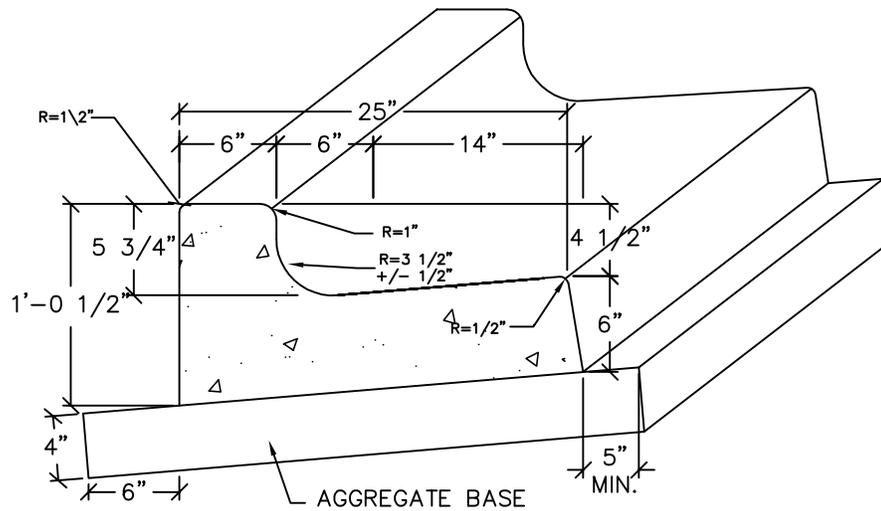
DATE:
MARCH 2017

REVISED:
3/31/2017 BG



NOT TO SCALE

<p>CITY OF PAYETTE PUBLIC WORKS DEPARTMENT</p>	<p>TYPICAL TRENCH</p>	<p>STANDARD DRAWING NO. S-4</p>
<p>FILE: G:\CLIENTS\STANDARDS\CP\S-4.DWG</p>		<p>DATE: MARCH 2017 REVISED: 3/31/2017 BG</p>



NOTES:

- ① GRADE AND ALIGNMENT TO BE ESTABLISHED OR APPROVED BY THE CITY ENGINEER
- ② BASE: 4-INCH COMPACTED DEPTH OF 3/4 INCH MINUS CRUSHED AGGREGATE BASE MATERIAL, AS PER SECTION 802 ISPWC; COMPACTED TO EXCEED 95% OF THE MAXIMUM DENSITY PER ASTM D-698; A MINIMUM WIDTH OF 3 FEET SHALL BE PLACED TO GRADE, PRIOR TO SETTING CURB FORMS.
- ③ 1/2 INCH EXPANSION JOINT MATERIAL AT TERMINAL POINTS OF RADII.
- ④ CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS MINIMUM 8 FEET
- ⑤ MATERIALS AND CONSTRUCTION IN COMPLIANCE WITH ISPWC SPECIFICATIONS.
- ⑥ BACKFILL AS PER ISPWC SPECIFICATIONS.
- ⑦ STANDARD CURB TO BE USED ON:
 - A. ALL STREETS
 - B. SEE DRAWING FOR CURB CONSTRUCTION AT RADII WHEN SIDEWALK IS INCLUDED.
- ⑧ CONCRETE TO BE CL-3000, PER ISPWC OR CLASS 30, PER ITD STANDARD SPECIFICATIONS.

CITY OF PAYETTE
PUBLIC WORKS DEPARTMENT

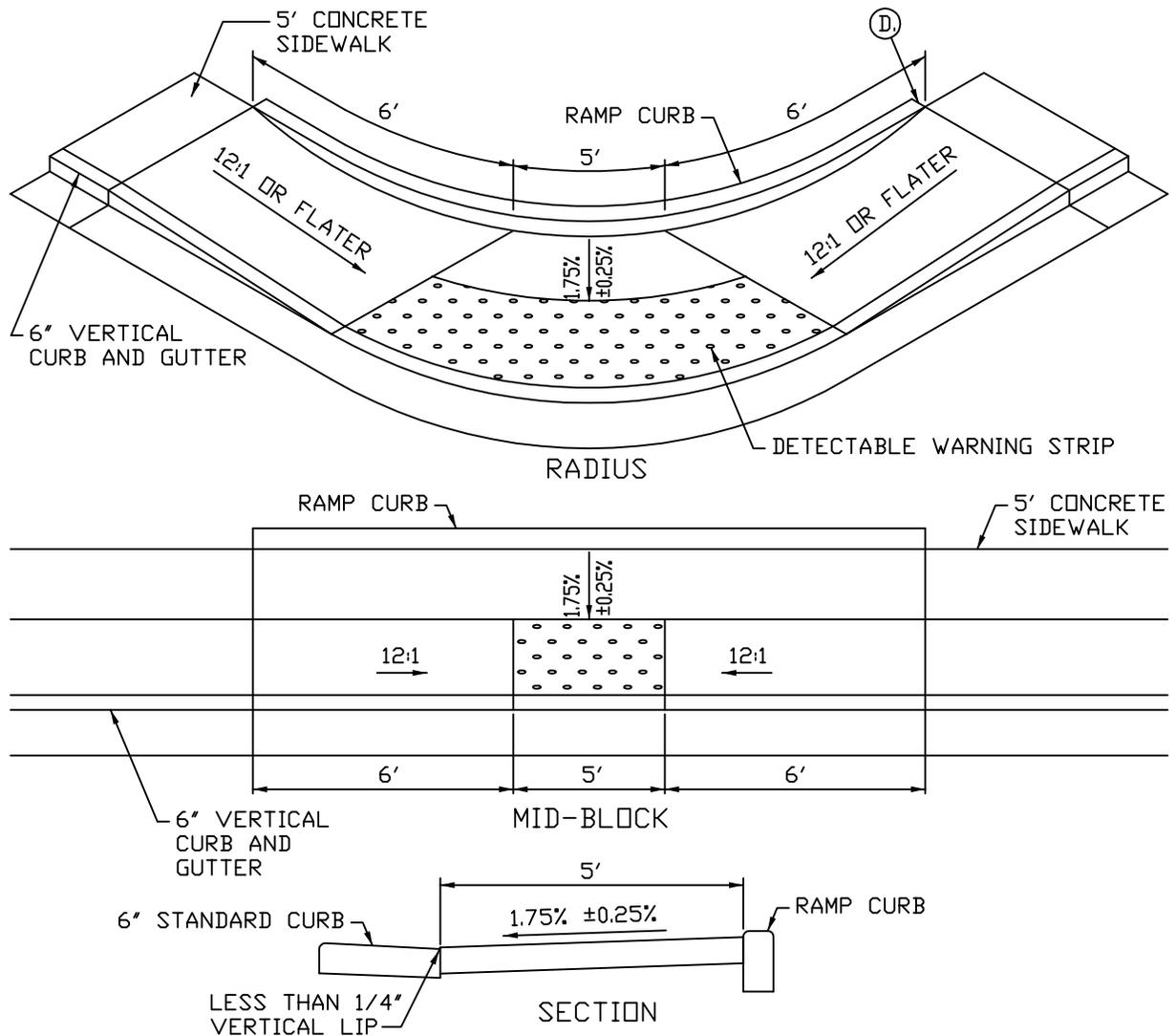
CONCRETE CURB AND GUTTER

STANDARD DRAWING
NO. S-5

FILE:
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DATE:
MARCH 2017

REVISED:
3/31/2017 BG



NOTES:

- (A) THIS TYPE OF RAMP MAY BE USED FOR SIDEWALKS IN AREAS THAT DO NOT HAVE ADEQUATE SPACE FOR LANDINGS REQUIRED TO MEET ADA.
- (B) THROAT OF RAMP WILL BE 1.75% ± 0.25% PER ADA REQUIREMENTS.
- (C) ALL SIDEWALK SURFACES SLOPING TO PEDESTRIAN RAMP MUST BE 12:1 SLOPE TO CONFORM TO ADA REQUIREMENTS.
- (D) CONCRETE CURB WILL BE PLACED AT THE BACK OF THE RAMP AND ADJOINING SLOPING SIDEWALK. HEIGHT OF CURB WILL BE DETERMINED BY THE ADJACENT PROPERTY BEING TIED INTO. CURB WILL BE 0 INCHES HIGH AT THE TOP OF THE SLOPING SIDEWALK.
- (E) ALL CONCRETE ADJOINING THE RADIUS WITHIN AND AROUND THE RAMPS SHALL BE 5 INCHES THICK WITH 4 INCHES OF 3/4.
- (F) SLOPES SHOWN ARE MAXIMUMS. THE CONTRACTOR SHOULD ACCOUNT FOR CONSTRUCTION TOLERANCES TO PREVENT EXCEEDING THE MAXIMUM SLOPES.

CITY OF PAYETTE
PUBLIC WORKS DEPARTMENT

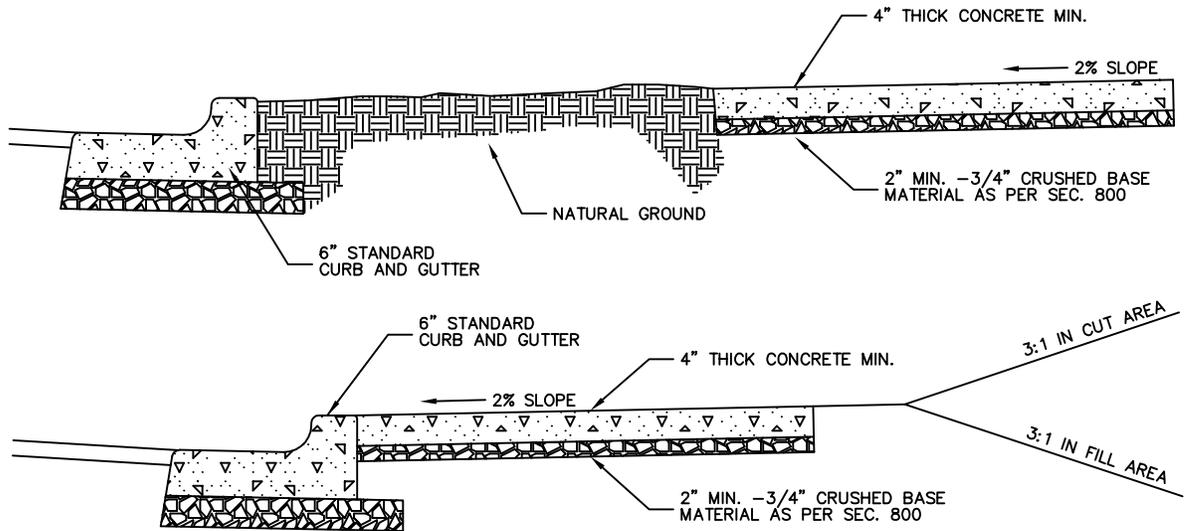
HANDICAP PEDESTRIAN RAMP

STANDARD DRAWING
NO. S-6

FILE:
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DATE:
APRIL 2017

REVISED:
4-3-2017 BG



- 1) LOCATION, GRADE & WIDTH TO BE ESTABLISHED AND APPROVED BY THE CITY ENGINEER. OR DESIGNATED REPRESENTATIVE
- 2) BASE MATERIAL SHALL BE:
 - A) RESIDENTIAL SIDEWALKS, 2" OF 3/4" MINUS CRUSHED AGGREGATE
 - B) COMMERCIAL SIDEWALKS, 4" OF 3/4" MINUS CRUSHED AGGREGATE
 - C) FILL ZONES BENEATH THE 3/4" MINUS SECTION SUBBASE MATERIAL SHALL BE FREE DRAINING PIT RUN WITH 3" MAXIMUM SIZE OR CRUSHED AGGREGATE COMPACT FILLS TO 95% OF STANDARD PROCTOR. (ASTM D-698)
- 3) CONCRETE THICKNESS:
 - A) COMMERCIAL SIDEWALK SECTIONS - 5"
 - B) RESIDENTIAL SIDEWALK SECTIONS - 4"
- 4) SLOPE SIDEWALK TOWARD STREET. MAXIMUM SLOPE = 0.25" PER FOOT.
- 5) SCORE INTERVALS TO MATCH SIDEWALK WIDTH, EXCEPT WHEN THE SIDEWALK WIDTH EXCEEDS 5'; WHEN THE WIDTH EXCEEDS 5', THE SCORE INTERVALS SHALL BE 5'.
- 6) SIDEWALK WIDTH (MINIMUM):
 - A) 5' COMMERCIAL
 - B) 4' RESIDENTIAL
 - C) IN ESTABLISHED NEIGHBORHOODS AND WHEN REPLACING EXISTING SIDEWALKS, MATCH THE EXISTING SIDEWALK UNLESS THE WIDTH IS LESS THAN THE DESIGNATED MINIMUMS. EXCEPTIONS MAY BE GRANTED BY THE CITY ENGINEER OR DESIGNEE.
- 7) EXPANSION JOINTS SHALL BE:
 - A) CONSTRUCTED FROM INSECT RESISTANT, WATERPROOF MATERIALS
 - B) EXTENDED THROUGH THE ENTIRE CONCRETE CROSS-SECTION
 - C) PLACED AT ANY CHANGE IN CONCRETE THICKNESS; THE ENDS OF DRIVEWAY FLARES; THE ENDS OF HANDICAP RAMPS; AND NO INTERVALS GREATER THAN 15'.
- 8) MINIMUM CONCRETE SPECIFICATIONS:
 - A) 3000 PSI
 - B) TYPE II CEMENT
 - C) AGGREGATE FROM ITD APPROVED SOURCE.

CITY OF PAYETTE
PUBLIC WORKS DEPARTMENT

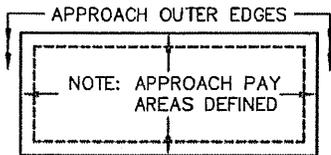
CONCRETE SIDEWALK

STANDARD DRAWING
NO. S-7

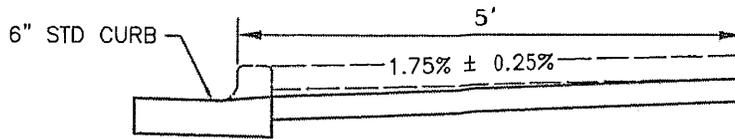
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DATE:
MARCH 2017

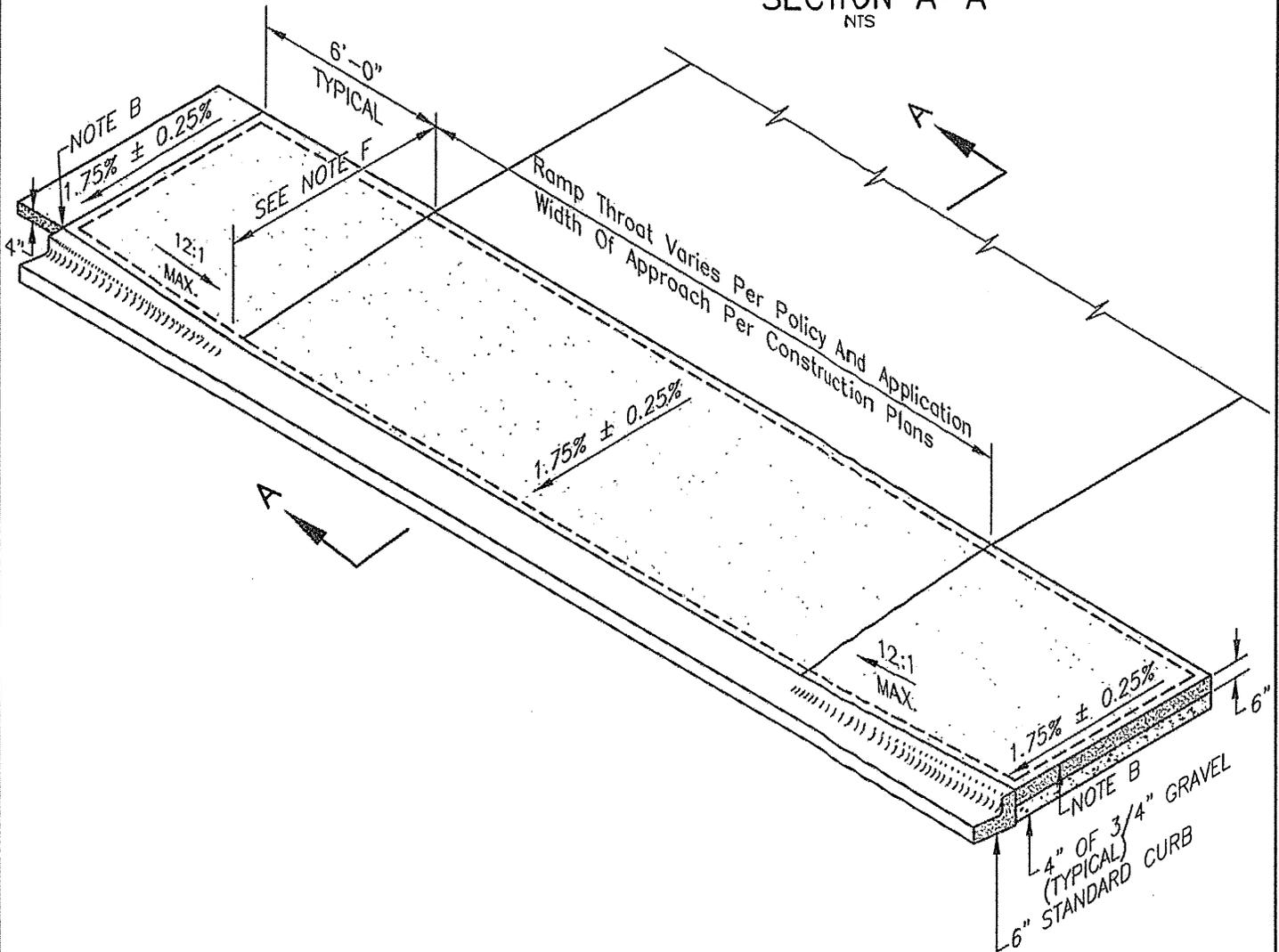
REVISED:
3/31/2017 BG



PAY QUANTITY DETAIL
(SEE NOTE NO. G)



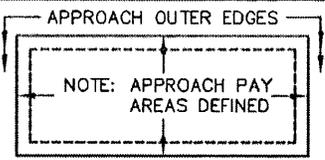
SECTION A-A
NTS



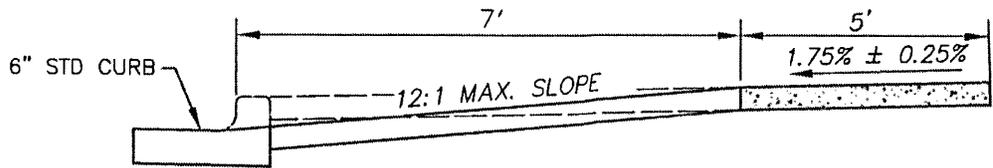
TYPICAL APPROACH

NOTES:

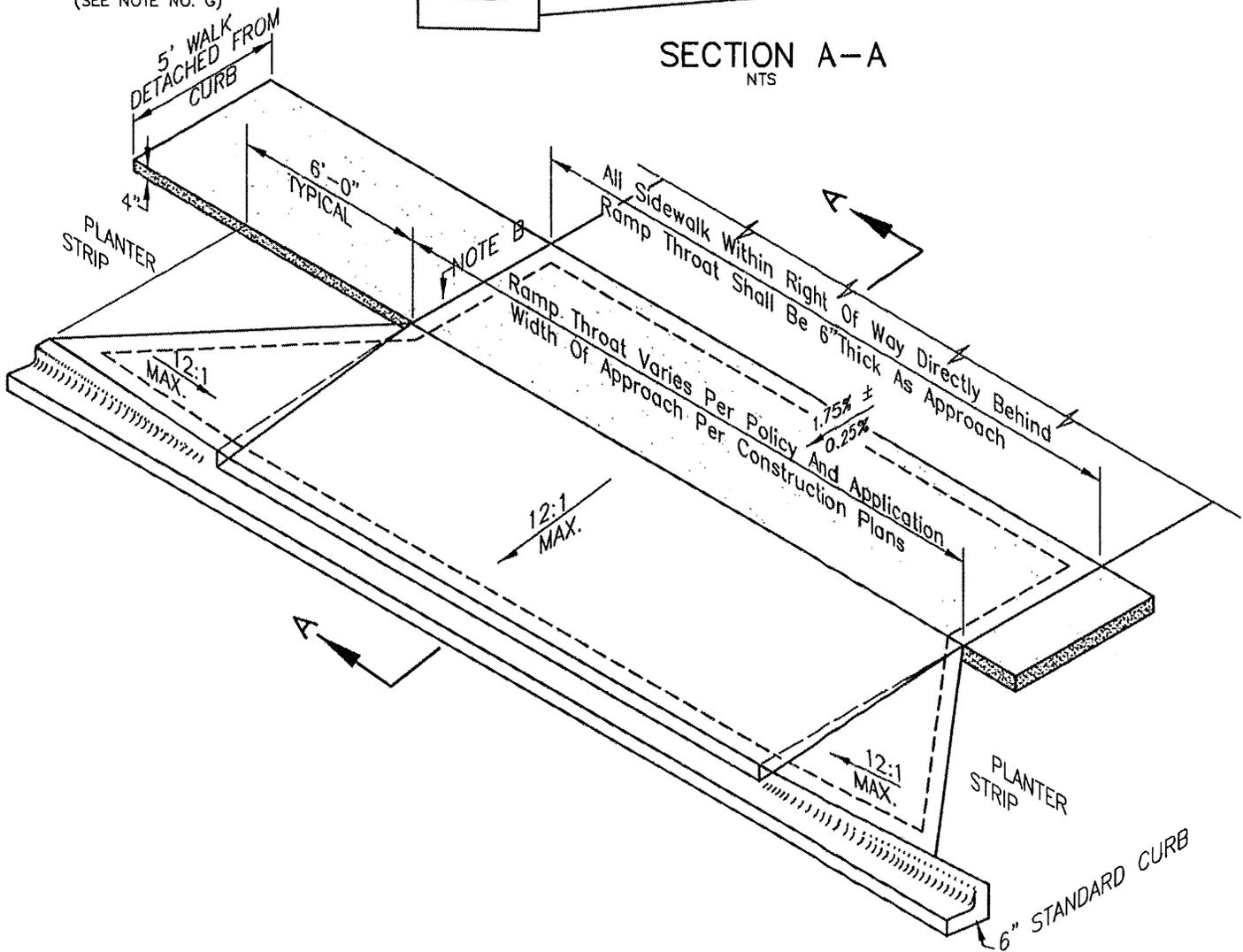
- (A) APPROACH TO CONFORM TO THE LATEST A.D.A. STANDARDS.
- (B) INSTALL EXPANSION JOINT AT TIP OF APPROACH WINGS AND WHERE SIDEWALK CHANGES THICKNESS.
- (C) BASE TO BE A 4" THICKNESS OF 3/4" MINUS CRUSHED AGGREGATE PER SECTION - 802.
- (D) APPROACH THROAT WIDTHS SET BY POLICY AND APPLICATION. ALL CONCRETE TO BE 6" THICK FROM TIP OF WING TO TIP OF WING UP TO THE EXPANSION JOINT. WHEN SIDEWALK IS SEPARATE FROM CURB THE SIDEWALK IMMEDIATELY BEHIND THE APPROACH THROAT SHALL BE 6" THICK ALSO.
- (E) ALL CONCRETE SHALL BE CLASS 3000 PER SECTION - 703.
- (F) SIDEWALK WIDTH MAY VARY.



PAY QUANTITY DETAIL
(SEE NOTE NO. G)



SECTION A-A
NTS



TYPICAL APPROACH

NOTES:

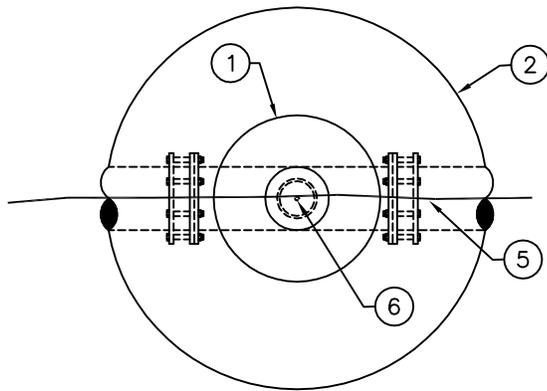
- (A) APPROACH TO CONFORM TO THE LATEST A.D.A. STANDARDS.
- (B) INSTALL EXPANSION JOINT AT TIP OF APPROACH WINGS AND WHERE SIDEWALK CHANGES THICKNESS.
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- (D) APPROACH THROAT WIDTHS SET BY POLICY AND APPLICATION. ALL CONCRETE TO BE 6" THICK FROM TIP OF WING TO TIP OF WING UP TO THE EXPANSION JOINT. WHEN SIDEWALK IS SEPARATE FROM CURB THE SIDEWALK IMMEDIATELY BEHIND THE APPROACH THROAT SHALL BE 6" THICK ALSO.
- (E) ALL CONCRETE SHALL BE CLASS 3000 PER SECTION - 703.
- (F) SIDEWALK WIDTH MAY VARY.
- (G) PAY QUANTITIES FOR URBAN APPROACHES SHALL INCLUDE THE APPROACH RAMP/DRIVEWAY AREA, AND THE APPROACH FLARES/WINGS.
- (H) ROUTING OF SIDEWALK AROUND APPROACH IS NOT NECESSARY WHEN THE PLANTING STRIP EQUALS OR EXCEEDS 6 FEET.

2015

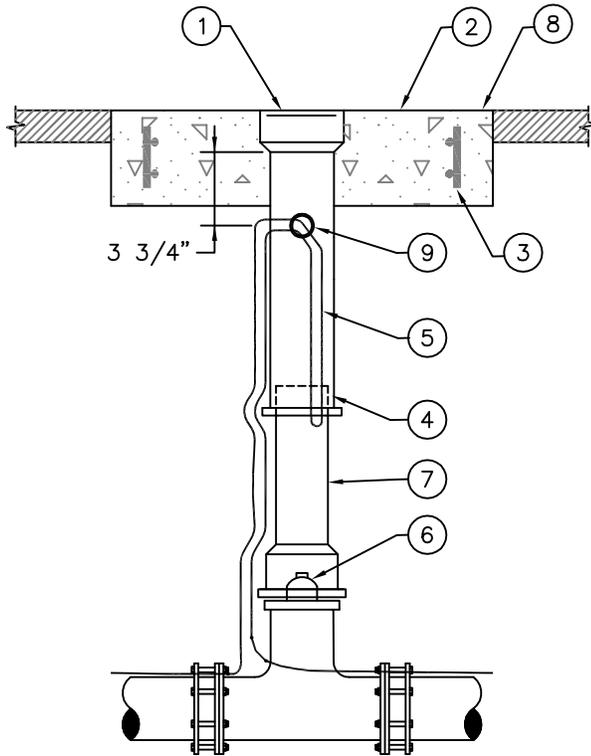
IDAHO STANDARDS
FOR PUBLIC WORKS
CONSTRUCTION

CONCRETE DRIVEWAY WITH
DETACHED SIDEWALK

STANDARD DRAWING
NO. SD-710C



PLAN VIEW



ELEVATION VIEW

VALVE BOX AND LID

NOT TO SCALE

LEGEND:

- ① 5¼" LOCKING LID IF REQUIRED (TYLER # 6855).
- ② 24" ϕ x 6" CONCRETE COLLAR.
- ③ (2) #4 REBAR HOOPS WITH #4 VERTICALS.
- ④ PACK VOID WITH RUBBER SILICONE.
- ⑤ NO. 12 AWG. COPPER FINDER WIRE.
- ⑥ VALVE.
- ⑦ CAST IRON VALVE RISER.
- ⑧ FINISHED GRADE.
- ⑨ DRILL 7/8" HOLE. INSERT PVC VALVE GROMMET. MANUFACTURED BY RPM ENGINEERING, OR EQUAL.

NOTE:

- (A) ALL PRODUCTS AS INDICATED OR APPROVED SUBSTITUTIONS.
- (B) IF AUTHORIZED BY ENGINEER, A HEAVY (10 GAGE) STEEL VALVE BOX AND CAP MAY BE USED IN LIEU OF CAST IRON BOX AND LID.

CITY OF PAYETTE
PUBLIC WORKS DEPARTMENT

VALVE BOX AND LID DETAIL

STANDARD DRAWING
NO. S-9

FILE:
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DATE:
APRIL 2017

REVISED:
4-12-2017 BG