## Appendix D  \hspace{1cm} RCW and WAC References

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Revised Code of Washington (RCW) References

The following is compilation of RCW references identified in the past, with brief descriptions of each code. Additional legal references may be identified as pertinent in the future; always refer to the current versions when researching legal status. For exact terms, see the individual law and consult WSDOT Assistant Attorney Generals (AAGs) as needed.

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### Washington Administrative Code (WAC) References

The following is a compilation of WAC references identified in the past, with brief descriptions of each code. Other WACs may be identified as pertinent in the future; always refer to the current versions of the code. For exact terms, see the individual code and consult WSDOT Assistant Attorney Generals (AAGs) as needed.

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**IF A HEARING IS WARRANTED, SEE 468-34-040 – 468-34-090**

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<td>468-34-120(4)</td>
<td>Conventional highways – Cities – In accordance with:</td>
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<td>468-34-120(4)(a)</td>
<td>Underground</td>
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<td>468-34-120(4)(a)(ii)</td>
<td>All other facilities shall be in accordance with this policy</td>
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<tr>
<td>468-34-120(4)(b)</td>
<td>Overhead – In accordance with this policy</td>
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<tr>
<td>468-34-130</td>
<td>Location</td>
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<tr>
<td>468-34-130(1)</td>
<td>To minimize later adjustment, permit service, in accordance w/Control Zone</td>
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<td>468-34-130(2)</td>
<td>Near R/W line in a uniform alignment</td>
</tr>
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<td>468-34-130(3)</td>
<td>Crossings shall be as normal to centerline as practical; crossings more than 45° from normal shall be considered longitudinal except at intersections</td>
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<tr>
<td>468-34-130(4)</td>
<td>DOT establishes horizontal offset</td>
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<tr>
<td>468-34-130(5)</td>
<td>Vertical location to comply with current standard “underground” and WAC 468-34-290 “overhead”</td>
</tr>
<tr>
<td>468-34-130(6)</td>
<td>Full consideration to visual quality, engineering principles, &amp; economics</td>
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<tr>
<td>468-34-130(7)</td>
<td>DOT installations in accordance with this policy</td>
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<tr>
<td>468-34-130(8)</td>
<td>DOT may restrict number of service connections &amp; require more than one distribution line</td>
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<tr>
<td>468-34-140</td>
<td>Utility tunnels/bridges – DOT to ensure study by companies to anticipate joint tunnel or bridge</td>
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<td>468-34-150</td>
<td>Design</td>
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<tr>
<td>468-34-150(1)</td>
<td>Utility responsible for design; DOT shall review including structural integrity of roadway &amp; utility</td>
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<tr>
<td>468-34-150(2)</td>
<td>Utility installations to comply with the following:</td>
</tr>
<tr>
<td>468-34-150(2)(a)</td>
<td>Electric &amp; communication facilities comply with NEC and/or WA St Safety Code</td>
</tr>
<tr>
<td>468-34-150(2)(b)</td>
<td>Water lines conform with Standard Specs, including, but not limited to: * Welded Steel Water Pipe – AWWA C201; ASTM A 120; AWWA C203; AWWA C205 * Reinforced Concrete Water Pipe – AWWA C300; C301; C302 * Cast Iron Water Pipe – AWWA C106; C108; C111 * Wrought Iron Water Pipe – ASTM A72</td>
</tr>
<tr>
<td>468-34-150(2)(c)(i)</td>
<td>Liquid Petroleum pipeline conform with recommend practice of American Petroleum Institute for Pipeline Crossings under RR &amp; Highway</td>
</tr>
<tr>
<td>468-34-150(3)</td>
<td>Ground-mounted facilities shall be compatible with visual quality of highway</td>
</tr>
<tr>
<td>468-34-150(4)</td>
<td>Utility installations shall be durable and free from routine service</td>
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<tr>
<td>468-34-150(5)</td>
<td>Utility installations shall provide for known or planned expansion</td>
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<tr>
<td>468-34-150(6)</td>
<td>Government or industry codes shall be followed, including DOT design standards providing for the protection of the highway</td>
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<td>468-34-160</td>
<td>Permits &amp; franchises required except as provided in WAC 468-34-180</td>
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<td>468-34-170</td>
<td>All permits &amp; franchises shall:</td>
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<td>468-34-170(1)</td>
<td>Incorporate pertinent provisions of this policy as to location, construction, traffic protection, maintenance, access restriction, preservation of visual quality, &amp; special conditions as deemed appropriate by DOT</td>
</tr>
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<td>468-34-170(2)</td>
<td>Describe facility: size, type, nature, &amp; extent</td>
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<td>468-34-170(3)</td>
<td>Exhibits depicting:</td>
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<td>468-34-170(5)</td>
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<td>468-34-170(6)</td>
<td>Specify the effect of noncompliance with conditions thereof</td>
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<td>468-34-170(7)</td>
<td>Contain terms pledging utility to not disfigure roadside appearance</td>
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<td>468-34-170(8)</td>
<td>Contain a certification of compliance with Control Zone guidelines</td>
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<td>468-34-190(1)</td>
<td>Crossing angle based on economic alternates, as near normal as practical</td>
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<td>468-34-190(2)</td>
<td>Crossings should avoid difficult areas: deep cuts, footings, rocky, drainage areas</td>
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<td>468-34-190(3)</td>
<td>Longitudinal installations shall be parallel near R/W; median installs as defined in WAC 468-34-110(7&amp;8) are variance from policy; variance must demonstrate that:</td>
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<tr>
<td>468-34-190(3)(a)</td>
<td>Installation will not adversely affect highway</td>
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<tr>
<td>468-34-190(3)(b)</td>
<td>Alternates would create undue hardship or financial burden due to terrain, geology, or environmental damage</td>
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<tr>
<td>468-34-190(4)</td>
<td>Trenched crossing in roadway per WAC 468-34-110(7) is variance from policy &amp; request shall comply with (3)(a) &amp; (3)(b) above</td>
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<td>468-34-200</td>
<td>Pipelines – Cover</td>
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<td>468-34-200(1)</td>
<td>Top of pipe shall comply with the applicable Design Standard for Underground Utility Encroachment – Added auxiliary name to &quot;minimum cover detail&quot;</td>
</tr>
<tr>
<td>468-34-200(2)</td>
<td>Where less than minimum cover is necessary, reroute, protect w/casing/concrete slab</td>
</tr>
<tr>
<td>468-34-200(3)</td>
<td>Cover for unstable transmittants shall not be reduced below safety limits specified in industry standards</td>
</tr>
<tr>
<td>468-34-210</td>
<td>Pipelines – Encasement</td>
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</table>
| 468-34-210(1) | Casings shall not be required for:
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<td>Pipelines conveying natural &amp; other gas that meet 49 CFR 192 &amp; WAC 480-93</td>
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<tr>
<td>468-34-210(1)(b)</td>
<td>Local service natural or other gas meeting 49 CFR 192 &amp; WAC 480-93</td>
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<td>468-34-210(2)</td>
<td>Casings shall be required for:</td>
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<td>468-34-210(2)(a)</td>
<td>Pipeline crossings where casing is required by industry standard or special conditions</td>
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<tr>
<td>468-34-210(2)(b)</td>
<td>Pressurized carriers &amp; carriers of unstable transmittants other than natural gas</td>
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<tr>
<td>468-34-210(2)(c)</td>
<td>Installations where probability of damage exists</td>
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<tr>
<td>468-34-210(3)</td>
<td>Casing may be required for protection from external loads/shock, such as hwy construction</td>
</tr>
<tr>
<td>468-34-210(4)</td>
<td>Casing pipes shall extend 6 ft beyond toe of fill, back of ditch or outside curb unless limited by restrictive local conditions; casing need not be continuous across median or adjacent to frontage road</td>
</tr>
<tr>
<td>468-34-210(5)</td>
<td>Casings shall be sealed at ends</td>
</tr>
<tr>
<td>468-34-210(6)</td>
<td>Casing design to support load of hwy and superimposed loads thereon, as minimum shall equal the structural requirement's of highway drainage facilities</td>
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<td>468-34-220</td>
<td>Pipelines – Appurtenances</td>
</tr>
<tr>
<td>468-34-220(1)</td>
<td>Vents shall be required for casings carrying fuel per CFR 49, Part 192; vents shall be located so as not to interfere with hwy maintenance or be concealed by vegetation; preferably, they should stand near fence</td>
</tr>
<tr>
<td>468-34-220(2)</td>
<td>Drains required for casings</td>
</tr>
<tr>
<td>468-34-220(3)</td>
<td>Markers shall be conspicuous; 1 @ normal Xing; 2 @ oblique Xing; every 500 ft longitudinal; information required</td>
</tr>
<tr>
<td>468-34-220(4)</td>
<td>Manholes shall not be located in pavement or shoulders of L/A hwy</td>
</tr>
<tr>
<td>468-34-220(5)</td>
<td>Automatic shut-off valves shall be installed near ends of structures/hazards, etc.</td>
</tr>
<tr>
<td>468-34-220(6)</td>
<td>Aboveground appurtenances shall be loc in accordance with Control Zone guidelines</td>
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<td>468-34-230</td>
<td>Pipelines – Uncased carriers</td>
</tr>
<tr>
<td>468-34-230(1)</td>
<td>Carrier pipe shall conform to industry and government standards</td>
</tr>
<tr>
<td>468-34-230(2)</td>
<td>Carrier pipe shall be designed to support load from zero to max pressure</td>
</tr>
<tr>
<td>468-34-230(3)</td>
<td>Suitable bridging, slab or other measure shall be used to protect carrier pipes where vulnerable to hwy construction or maintenance damage</td>
</tr>
<tr>
<td>468-34-230(4)</td>
<td>Existing carrier pipes may remain if DOT &amp; utility agree they will be structurally sound and operationally safe</td>
</tr>
<tr>
<td>468-34-240</td>
<td>Pipelines – Restrictions against varied use</td>
</tr>
<tr>
<td>468-34-240(2)</td>
<td>Change in class of transmittant or increase in maximum working pressure shall require DOT approval</td>
</tr>
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<td>468-34-250</td>
<td>Pipelines – Installations – Shall be by end-product specs and the following:</td>
</tr>
<tr>
<td>468-34-250(1)</td>
<td>Pipeline install requests shall specify class of transmittant, maximum working pressure, test or design pressure, and design standards for the carrier</td>
</tr>
<tr>
<td>468-34-250(1)(a)</td>
<td>Trenched construction and backfill features are:</td>
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<tr>
<td>468-34-250(1)(a)</td>
<td>Restoration of roadbed</td>
</tr>
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<tr>
<td>468-34-250(1)(b)</td>
<td>Pipe secure against deformation leading to leakage</td>
</tr>
<tr>
<td>468-34-250(1)(c)</td>
<td>Assurance against trench becoming drain channel or blocking drainage</td>
</tr>
<tr>
<td>468-34-250(2)</td>
<td>Trenched Construction – Bedding and backfill:</td>
</tr>
<tr>
<td>468-34-250(2)(a)</td>
<td>Trench shall have vertical faces; maximum width of 2 ft greater than OD of pipe; shoring complies with L&amp;I</td>
</tr>
<tr>
<td>468-34-250(2)(b)</td>
<td>Minimum bedding depth shall be the lesser of 6 inches or half the diameter of the pipe, be granular material</td>
</tr>
<tr>
<td>468-34-250(2)(c)</td>
<td>Backfill shall be placed in two stages</td>
</tr>
<tr>
<td>468-34-250(2)c)(i)</td>
<td>Sidefill to top of pipe level</td>
</tr>
<tr>
<td>468-34-250(2)c)(ii)</td>
<td>Overfill to former grade surface; sidefill and overfill in 6-inch layers, tamp and add moisture to achieve 95% density per std specs; additional cutback of base and surfacing to transition to trench shoulders as directed by DOT</td>
</tr>
<tr>
<td>468-34-250(3)</td>
<td>Untrenched construction required on all L/A hwy crossings and:</td>
</tr>
<tr>
<td>468-34-250(3)(a)</td>
<td>Untrenched construction shall extend 6 ft outside the roadway prism</td>
</tr>
<tr>
<td>468-34-250(3)(b)</td>
<td>Untrenched technique to be approved by DOT</td>
</tr>
<tr>
<td>468-34-250(3)(c)</td>
<td>Untrenched opening shall not exceed 5% over the OD; backfill (pressure grout) required for pipes over 12-inch diameter</td>
</tr>
<tr>
<td>468-34-250(3)(d)</td>
<td>Overbreaks, unused holes, or abandoned casings shall be backfilled as directed by DOT</td>
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<tr>
<td>468-34-260</td>
<td>Pipelines – Adjustment</td>
</tr>
<tr>
<td>468-34-260(1)</td>
<td>Existing pipeline should be adjusted in plan and/or grade when top of pipe is less than the requirements of standard design plate for underground utility encroachments – Added auxiliary name</td>
</tr>
<tr>
<td>468-34-260(2)</td>
<td>Pipeline should be encased/protected if it would be required for a future pipeline</td>
</tr>
<tr>
<td>468-34-260(3)</td>
<td>Pipeline with inadequate cover for live loads may be protected by a slab</td>
</tr>
<tr>
<td>468-34-260(4)</td>
<td>Notwithstanding reinforcement or protection, construction contractor shall be warned and made responsible within the construction zone; temporary cover should be arranged</td>
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<tr>
<td>468-34-270</td>
<td>Installations on hwy structures – May be allowed in accordance with following:</td>
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<tr>
<td>468-34-270(1)</td>
<td>Each attachment shall be considered individually</td>
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<tr>
<td>468-34-270(2)</td>
<td>Attachment considered only if bridge can adequately support &amp; not compromise highway features or ease of maintenance</td>
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<tr>
<td>468-34-270(3)</td>
<td>Utility positions that inhibit maintenance not allowed; manholes not allowed on overcrossings</td>
</tr>
<tr>
<td>468-34-270(4)</td>
<td>Avoid attachment of hazardous transmittants where practical</td>
</tr>
<tr>
<td>468-34-270(5)</td>
<td>Utility attachment shall not reduce critical vertical clearance</td>
</tr>
<tr>
<td>468-34-270(6)</td>
<td>Utility attachment shall be beneath structure floor and between girders or within a cell; avoid attachments outside of bridges where there are alternatives</td>
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<tr>
<td>468-34-270(7)</td>
<td>Mountings shall be of a type that will not create noise</td>
</tr>
<tr>
<td>468-34-270(8)</td>
<td>Hole in abutment must be of minimum size to and sealed</td>
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<tr>
<td>468-34-270(9)</td>
<td>Utility should curve to outside roadway ASAP after leaving bridge</td>
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<td>468-34-270(10)</td>
<td>Hangers to be suspended from inserts/clamped to flange of substruct member</td>
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<td>468-34-270(11)</td>
<td>Construction shall comply to applicable codes, standards, &amp; specs</td>
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<td>468-34-270(12)</td>
<td>Utility responsible for restoration of disturbed portions</td>
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<td>468-34-270(13)</td>
<td>Communication &amp; electric attachment shall be grounded and conduited from manholes at each end of structure</td>
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<td>468-34-270(14)</td>
<td>WAC 468-34-210 (encasement) shall apply to bridge installations</td>
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<tr>
<td>468-34-280</td>
<td>Overhead power and communication lines – Type of construction – Longitudinal installations should be single pole and joint use desirable</td>
</tr>
<tr>
<td>468-34-290</td>
<td>Vertical Clearance – Shall comply with National Electrical Safety Code or the following, whichever is greater: See Table</td>
</tr>
<tr>
<td>468-34-290(1)</td>
<td>Minimum height of highway crossing measured at roadway</td>
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<tr>
<td>468-34-290(2)</td>
<td>Minimum height of longitudinal installation measured from ground</td>
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<tr>
<td>468-34-290(3)</td>
<td>Clearances shall be at State Electrical Construction Code temperature and loading standards</td>
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<td>468-34-300</td>
<td>Overhead lines – Location</td>
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<td>468-34-300(1)</td>
<td>Poles in accordance with Control Zone guidelines</td>
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<td>468-34-300(2)</td>
<td>Guy wires and stub poles shall be located in accordance with Control Zone guidelines</td>
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<tr>
<td>468-34-300(3)</td>
<td>Pole/underground installation alignment may vary where irregular shaped R/W exists</td>
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<tr>
<td>468-34-300(4)</td>
<td>Poles and related facilities shall be located as near as practical to R/W</td>
</tr>
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<td>468-34-310</td>
<td>Underground power and communication lines</td>
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<td>468-34-310(1)</td>
<td>General controls relative to pipelines apply</td>
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<tr>
<td>468-34-310(2)</td>
<td>General controls set forth in WAC 468-34-270 relative to structures apply</td>
</tr>
<tr>
<td>468-34-310(3)</td>
<td>Installations should reflect future highway or utility enlargement</td>
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<tr>
<td>468-34-310(4)</td>
<td>Manholes shall be designed and located to cause least interference</td>
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<tr>
<td>468-34-310(5)</td>
<td>New underground installations may be permitted in scenic areas where extensive visual quality is not impaired</td>
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<td>468-34-320</td>
<td>Conversion to underground or relocation of overhead lines – Responsibility – The following methods of sharing cost responsibility shall pertain:</td>
</tr>
<tr>
<td>468-34-320(1)</td>
<td>Where an aerial franchise exists and for reasons of visual quality, DOT desires undergrounding to serve the highway purpose, DOT will pay. [Note: Check with Headquarters before implementing this WAC.]</td>
</tr>
<tr>
<td>468-34-320(2)</td>
<td>New franchises where DOT determines (based on Scenic Class – WAC 468-34-330), that facility shall be placed underground, utility pays; when amending/ renewing franchise the first time after August 20, 1974, undergrounding or relocation at util expense at time of reconstruction or within the renewal period</td>
</tr>
<tr>
<td>468-34-320(3)</td>
<td>Within limits of a highway project, the costs responsibilities are as follows:</td>
</tr>
<tr>
<td>468-34-320(3)(a)</td>
<td>Utility pays expenses for that portion that must be relocated within the limits of physical construction</td>
</tr>
<tr>
<td>468-34-320(3)(b)</td>
<td>DOT pays for that portion of aerial line not physically affected by construction</td>
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<td>468-34-330</td>
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<td>Undergrounding requirements for Scenic Class A, B, C, D, AX, BX</td>
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<td>480-04 to 480-120</td>
<td>Regulate: motor carriers, transportation companies, railroads, refuse</td>
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<td>collection, and non-public utility companies (liquid oil and gas pipelines,</td>
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<td></td>
<td>natural gas, electric, water, telephone)</td>
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