DISTURBANCE AREAS

MINOR: Characteristics of minor disturbance areas, as indicated, are those areas which received no to little change in grades or soil redistribution through the road building process. Although, there may be high vegetation disturbance. Generally, cross slope cuts will be under 1'-0" in height.

MODERATE: Characteristics of moderate disturbance areas, as indicated, are those areas that received from between 1’ and 3’ in soil cutting and/or fill material deposition. Substantial disturbance and removal of existing vegetation and the ‘duff’ layer of organic material that, along with plant materials, supports the natural erosion control process.

HIGH: Characteristics of high disturbance areas, as indicated, are those areas that experienced more than 3’ high cuts and/or fill depositions. These areas, not only have great effects on the existing vegetation layer and plant materials, but also the surrounding slopes have been heavily relocated/modified to the point where the existing slopes may not be easily recognizable.

CURRENT CONDITION IMAGERY

1. EXISTING ROAD CONDITIONS
2. BEGINNING OF NEW BLUFF ROAD
3. MODERATE ROAD CUT/FILL
4. HIGH ROAD CUT/FILL
5. MODERATE ROAD CUT/FILL

LEGEND

HANGMAN CREEK
200’ SHORELINE JURISDICTION
200’ BLUFF RIDGE SETBACK
TRANSMISSION LINES (NO TREES)
PARCEL BOUNDARY
EXISTING TRAIL
CONSTRUCTION / EQUIPMENT TURNAROUND (1)
IMAGERY SYMBOL

NOTE:
1. CONSTRUCTION / EQUIPMENT TURNAROUNDS WILL BE FIELD LOCATED IN OPEN AREAS, TO MINIMIZE FURTHER BLUFF DAMAGES.
DISTURBANCE AREAS

MINOR: Characteristics of minor disturbance areas, as indicated, are those areas which received no to little change in grades or soil redistribution through the road building process; although, there may be high vegetation disturbance. Generally, cross slope cuts will be under 1' in height.

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NOTE: 1. CONSTRUCTION / EQUIPMENT TURNAROUNDS WILL BE FIELD LOCATED IN OPEN AREAS, TO MINIMIZE FURTHER BLUFF DAMAGES.

CURRENT CONDITION IMAGERY

6. HIGH ROAD CUT/FILL
7. MINOR ROAD CUT/FILL
8. MODERATE ROAD CUT/FILL
The primary locations of minor disturbance occur at the North and South ends of the road. These areas are at little risk for further erosion, as adjacent vegetation is relatively still intact. Repair will consist of minor grading of the soil accumulations and/or cuts. Where applicable, pedestrian trail crossings will be restored to pre-existing conditions.

Repair will consist primarily of the redistribution of current fill soils ‘uphill’ to the cut areas to bring the natural slope back into position. These soils will be lightly compacted as they are reintroduced to their permanent location in order to secure the soil. Heavy compaction will not be allowed. Additional soils may be necessary to completely restore the existing slope to its prior condition. The intent is to mimic the existing soil profile as closely as possible, with the use of a more organic soil that will aid in the seeding and germination process. Specific erosion control measure will be implemented, where necessary, such as wattles, silt fences, and existing downed logs.

Repair for the high disturbance areas, will follow the same process as the previous descriptions, but will be more extensive to address the additional soil. Soils will be lightly compacted again, and stabilized in lifts as necessary to prevent over compaction. Specific erosion control measure will be implemented, where necessary, such as wattles, silt fences, and existing downed logs.

**MINOR DISTURBANCE - CURRENT CONDITIONS**

**MINOR DISTURBANCE - RESTORATION**

**MODERATE DISTURBANCE - CURRENT CONDITIONS**

**MODERATE DISTURBANCE - RESTORATION**

**HIGH DISTURBANCE - CURRENT CONDITIONS**

**HIGH DISTURBANCE - RESTORATION**

### NOTES
1. ALL DISTURBED AREAS WILL BE SEEDED WITH A NATIVE SEED MIX TO MATCH EXISTING VEGETATION.
2. WEED FREE TOPSOIL WILL BE IMPORTED, IF NEEDED, THAT IS BLENDED TO MATCH EXISTING SOIL, WITH A WEED FREE COMPOST ADDED TO IMPROVE PLANT SURVIVABILITY.
3. ALL PLANTS SHOWN REPRESENT A 10 YEAR GROWTH SIZE.
NEW VEGETATION

Plant material represented in the following three communities will be consistent with the existing vegetation adjacent to disturbed areas:

- **Community 1 “Open Pine Stand”**
  - Includes Grass/Forb Mix
  - Ponderosa Pine
  - Serviceberry
  - Snowberry

- **Community 2 “Shrub Areas”**
  - Includes Grass/Forb Mix
  - Serviceberry
  - Douglas Hawthorn
  - Snowberry

- **Community 3 “Grass/Forb Mix”**
  - Idaho Fescue
  - Sandberg Bluegrass
  - Bluebunch Wheatgrass
  - Prairie Anegrass
  - Streambank Wheatgrass
  - Arrowleaf Balsamroot
  - Yarrow
  - Silky Lupine

Trees, shrubs, grasses, and forbs will be planted at an approximately 3:1 ratio and will be planted to match the surrounding environment. This will replace the ecological function of the previous vegetation.

Spokane Municipal Code requirements for re-vegetation within the Shoreline Jurisdiction are a 2:1 ratio. In Non-shoreline jurisdiction areas, the ratio is 1:1. However, due to possible mortality and the timing of the year, as well as the desire to simulate the open pine stands that exist, the final tree/shrub replacement will be equal to, or exceed 3:1, depending on site conditions.

The plants will be 6” to 10” plugs. This smaller stock is expected to be more successful in non-irrigated conditions compared to larger (ie 1 gallon) stock. Whenever possible, protection, such as, ‘Tubes’ tubers and stakes will be used to increase plant survivability.

The re-vegetated areas will be monitored in accordance with the Plant Establishment Plan, and replanting, if necessary, is to occur between Oct. 1 and Nov. 15th of 2017.

RESTORATION CONSTRUCTION SEQUENCE

Work will be completed in sections and all equipment is intended to be kept on the existing road cut and turnarounds.

In an effort to take advantage of wet spring conditions, and the current soil moisture, Bluff restoration will begin May 15th and is expected to last until early June for complete. This immediate action will help ensure the greatest survivability of existing flora by the removal of road material covering the vegetation.

- Set up construction trailer and fence area at 3515 S Inland Empire Way (Avista substation)
- Install all necessary site/construction signage and fencing
- Chip all newly downed trees (wood) 6” or smaller
- Remove or relocate stumps and root mats as appropriate
- Collect logs to use at onsite location
- Replace and appropriately compact cut and fill areas
- Place additional imported topsoil where needed
- Restore trail crossings to prior conditions
- Plant trees and shrubs
- Protect restored areas at cross trails
- Seed native grasses
- Install access gate at north end of project
- Start maintenance and monitoring phase

MAINTENANCE AND MONITORING

After initial project completion, monitoring will be conducted by the City of Spokane, in accordance with their Plant Establishment Plan. This plan may include detailed monitoring recommendations and proposed maintenance activity.

A photo inspection will take place upon project completion for erosion control effectiveness and plant survivability. Monitoring will occur according to the following schedule:

<table>
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<th>Year</th>
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| 2017     | June: weekly.  
           | July - Sept: every other week |
| 2018-2022| March: once per month, in accordance with the City of Spokane’s Plant Establishment Plan |
| 2024     | 7th year follow up inspection |

Erosion control measures and remedial action, if necessary, are to be addressed within 1 week of identification. Additional erosion control monitoring will occur in the event of heavy rainfall.

‘Tubes’ tree shelters will decompose over time, but may be removed during the monitoring phase, once tree establishment has occurred.

Permitting

- **Permit obtained:**
  - Exemption for the Shoreline Substantial Development Permit issued by the City of Spokane
  - Grading Permit issued by the City of Spokane

- **Permits needed:**
  - Shoreline Substantial Development and SEPA checklist are processed concurrently with the City of Spokane (3-4 month process)
  - General Construction Stormwater Permit processed with the Department of Ecology (1-2 months after SEPA determination)

WOOD CONTROL PROGRAM:

- Preserve weeds that exist in the adjacent landscape, such as dalliation toadflax, knapweed, sulfur cinquefoil, rush skeletonweed, common bugloss, if identified in the disturbed areas will be controlled through spot spraying and/or mechanical control, to help ensure the establishment of the native vegetation.

**MANAGEMENT OF DOWNED TREES**

- Fallen trees that are 6” and smaller will be chipped or used to supplement natural erosion control measures on site. The chips will be broadcast and dispersed accordingly.
- Fallen trees bigger than 6” will be utilized on the site. They will be used for wildlife habitat, erosion control, and to direct trail users. The trees will be longitudinally trunk scored to help prevent pine beetles.
- The root wads and stumps will be relocated or removed as appropriate.

**EXISTING CONDITIONS**

- Tubex Plant Shelter

**TUBEX PLANT SHELTER**

- Existing conditions

- Install access gate at north end of project
- Restore trail crossings to prior conditions
- Collect logs to use at onsite location
- Place additional imported topsoil where needed
- Replace and appropriately compact cut and fill areas
- Install all necessary site/construction signage and fencing
- Grading Permit issued by the City of Spokane
- Monitor planted and natural tree shelters
- Seed germination for natural grasses will also be monitored and documented. Reseeding will occur in the fall, based on the success of the spring seeding and as otherwise needed. Any bare areas will be reseeded.

**PERMITTING**

- Exemption for the Shoreline Substantial Development Permit issued by the City of Spokane
- Grading Permit issued by the City of Spokane
- Shoreline Substantial Development and SEPA checklist are processed concurrently with the City of Spokane (3-4 month process)
- General Construction Stormwater Permit processed with the Department of Ecology (1-2 months after SEPA determination)
PLANT SCHEDULE

COMMUNITY A - PINE STAND
- Amelanchier alnifolia / Serviceberry (6"-10" plug)
- Pinus ponderosa / Ponderosa Pine (6"-10" plug)
- Symphoricarpos albus / Common Snowberry (6"-10" plug)
- Grass/Forb Mix Seed

COMMUNITY B - SHRUB AREA
- Amelanchier alnifolia / Serviceberry (6"-10" plug)
- Crataegus douglasii / Douglas Hawthorn (6"-10" plug)
- Symphoricarpos albus / Common Snowberry (6"-10" plug)
- Grass/Forb Mix Seed

Grass/Forb Mix
- Achillea millefolium / Western Yarrow (1% - Hydroseed)
- Balsamorhiza sagittata / Arrowleaf Balsamroot (7% - Hydroseed)
- Elymus lanceolatus psammophilus / Streambank Wheatgrass (15% - Hydroseed)
- Festuca idahoensis / Idaho Fescue (29% - Hydroseed)
- Koeleria macrantha / Prairie Junegrass (15% - Hydroseed)
- Lupinus sp. / Silky Lupine (4% - Hydroseed)
- Poa sandbergii / Sandberg's Bluegrass (15% - Hydroseed)
- Pseudoroegneria spicata / Bluebunch Wheatgrass (15% - Hydroseed)

WILDERNESS MIX
- Alkar Tall Wheatgrass (9% - Hydroseed)
- Alsike Clover (10% - Hydroseed)
- Climax Timothy (15% - Hydroseed)
- Delar Small Burnet (10% - Hydroseed)
- Ginger Bluegrass (14% - Hydroseed)
- Gulf Annual Ryegrass (10% - Hydroseed)
- Lincoln Smooth Bromegrass (5% - Hydroseed)
- Minimus Hard Fescue (15% - Hydroseed)
- Rush Intermediate Wheatgrass (10% - Hydroseed)

LANDSCAPE NOTES:
1. Weed Free Topsoil will be imported, if needed, that is blended to match existing soil, with a weed free compost added to improve plant survivability.
2. Contractor to leave track marks from equipment to help collect water for seed growth.
3. Planting Plan was developed based on a holistic approach to match the existing site conditions, in accordance to the Planting Plan.
4. Plants will be planted to encourage plant diversity in a natural setting. Larger plant stock will have a greater survival rate in this natural setting without irrigation. The seed bank within the existing soil will provide natural regeneration of Ponderosa Pine and other native species over time.
5. General plant plug sizes will range from 6"-10" in height.

PLANTING NOTES:
1. PLANTING PLAN WAS DEVELOPED BASED ON A HOLISTIC APPROACH TO MATCH THE EXISTING SITE CONDITIONS.
2. CONTRACTOR TO LEAVE TRACK MARKS FROM EQUIPMENT TO HELP COLLECT WATER FOR SEED GROWTH.
3. ALL PLANTS WILL BE PLANTED TO MATCH ADJACENT SITE CONDITIONS, IN ACCORDANCE TO THE PLANTING PLAN.
4. PLANTS WILL BE PLANTED TO ENCOURAGE PLANT DIVERSITY IN A NATURAL SETTING. LARGER PLANT STOCK WILL HAVE A GREATER SURVIVAL RATE IN A NATURAL SETTING WITHOUT IRRIGATION. THE SEED BANK WITHIN THE EXISTING SOIL WILL PROVIDE NATURAL REGENERATION OF PONDEROSA PINE AND OTHER NATIVE SPECIES OVER TIME.
5. GENERAL PLANT PLUG SIZES WILL RANGE FROM 6"-10" IN HEIGHT.
6. PLANTS WILL BE PLANTED TO MATCH ADJACENT SITE CONDITIONS, IN ACCORDANCE TO THE PLANTING PLAN.
7. HAY OR GRASS SEED MAY BE APPLIED TO ADJACENT AREAS OF THE SITE NEAR PLANTED AREAS TO MAINTAIN NATURAL VEGETATION.
8. HYDROSEED MIX, DEFINED ON PLANS, TO BE APPLIED AT A RATE OF 40 LBS PER ACRE, WITH BONDED FIBER MATRIX TACIFIER (OR APPROVED EQUAL). TACIFIER WILL BOND FIBERS TO THE SOIL FOR INCREASED EROSION CONTROL.

PLANTING PLAN
PLANT SCHEDULE

COMMUNITY A - PINE STAND
AMELANCHIER ALNIFOLIA / SERVICEBERRY
6"-10" PLUG
PINUS PONDEROSA / PONDEROSA PINE
6"-10" PLUG
SYMPHORICARPOS ALBUS / COMMON SNOWBERRY
6"-10" PLUG
GRASS/FORB MIX
SEED

COMMUNITY B - SHRUB AREA
AMELANCHIER ALNIFOLIA / SERVICEBERRY
6"-10" PLUG
CRATAEGUS DOUGLASII / DOUGLAS HAWTHORN
6"-10" PLUG
SYMPHORICARPOS ALBUS / COMMON SNOWBERRY
6"-10" PLUG
GRASS/FORB MIX
ACHILLEA MILLEFOLIUM / WESTERN YARROW
1% - Hydroseed
BALSAMORHIZA SAGITTATA / ARROWLEAF BALSAMROOT
7% - Hydroseed
ELYMUS LANCEOLATUS PSAMMOPHILUS / STREAMBANK WHEATGRASS
15% - Hydroseed
FESTUCA IDAHOENSIS / IDAHO FESCUE
29% - Hydroseed
KOELERIA MACRANTHA / PRAIRIE JUNEGRASS
15% - Hydroseed
LUPINUS SP. / SILKY LUPINE
4% - Hydroseed
POA SANDBERGII / SANDBERG'S BLUEGRASS
15% - Hydroseed
PSEUDOROEGNERIA SPICATA / BLUEBUNCH WHEATGRASS
15% - Hydroseed
WILDERNESS MIX
ALKAR TALL WHEATGRASS
9% - Hydroseed
ALSIKE CLOVER
10% - Hydroseed
CLIMAX TIMOTHY
15% - Hydroseed
DELAR SMALL BURNET
10% - Hydroseed
GINGER BLUEGRASS
14% - Hydroseed
GULF ANNUAL RYEGRASS
10% - Hydroseed
LINCOLN SMOOTH BROMEGRASS
5% - Hydroseed
MINIMUS HARD FESCUE
15% - Hydroseed
RUSH INTERMEDIATE WHEATGRASS
10% - Hydroseed

TRANSMISSION LINES
HANGMAN CREEK
200' SHORELINE JURISDICTION
CITY OF SPOKANE
PARCEL BOUNDARY (TYP)
PLANT SCHEDULE

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MATCH LINE - SHEET L1.4

MATCH LINE - SHEET L1.3

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6"-10" PLUG

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6"-10" PLUG

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6"-10" PLUG

GRASS/FORB MIX
SEED

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<tbody>
<tr>
<td>AMELANCHIER ALNIFOLIA / SERVICEBERRY</td>
<td>6&quot;-10&quot; PLUG</td>
<td></td>
</tr>
<tr>
<td>PINUS PONDEROSA / PONDEROSA PINE</td>
<td>6&quot;-10&quot; PLUG</td>
<td></td>
</tr>
<tr>
<td>SYMPHORICARPOS ALBUS / COMMON SNOWBERRY</td>
<td>6&quot;-10&quot; PLUG</td>
<td></td>
</tr>
<tr>
<td>GRASS/FORB MIX</td>
<td>SEED</td>
<td></td>
</tr>
<tr>
<td>AMELANCHIER ALNIFOLIA / SERVICEBERRY</td>
<td>6&quot;-10&quot; PLUG</td>
<td></td>
</tr>
<tr>
<td>CRATAEGUS DOUGLASII / DOUGLAS HAWTHORN</td>
<td>6&quot;-10&quot; PLUG</td>
<td></td>
</tr>
<tr>
<td>SYMPHORICARPOS ALBUS / COMMON SNOWBERRY</td>
<td>6&quot;-10&quot; PLUG</td>
<td></td>
</tr>
<tr>
<td>GRASS/FORB MIX</td>
<td>1% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>ACHILLEA MILLEFOLIUM / WESTERN YARROW</td>
<td>1% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>BALSAMORHIZA SAGITTATA / ARROWLEAF BALSAMROOT</td>
<td>7% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>ELYMUS LANCEOLATUS PSAMMOPHILUS / STREAMBANK WHEATGRASS</td>
<td>15% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>FESTUCA IDAHOENSIS / IDAHO FESCUE</td>
<td>29% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>KOELERIA MACRANTA / PRAIRIE JUNEGRASS</td>
<td>15% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>LUPINUS SP. / SILKY LUPINE</td>
<td>4% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>POA SANDBERGII / SANDBERG`S BLUEGRASS</td>
<td>15% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>PSEUDOROEGNERIA SPICATA / BLUEBUNCH WHEATGRASS</td>
<td>15% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>WILDERNESS MIX</td>
<td>9% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>ALSIKE CLOVER</td>
<td>10% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>CLIMAX TIMOTHY</td>
<td>15% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>DELAR SMALL BURNET</td>
<td>10% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>GINGER BLUEGRASS</td>
<td>14% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>GULF ANNUAL RYEGRASS</td>
<td>10% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>LINCOLN SMOOTH BROMEGRASS</td>
<td>5% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>MINIMUS HARD FESCUE</td>
<td>15% - Hydroseed</td>
<td></td>
</tr>
<tr>
<td>RUSH INTERMEDIATE WHEATGRASS</td>
<td>10% - Hydroseed</td>
<td></td>
</tr>
</tbody>
</table>

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