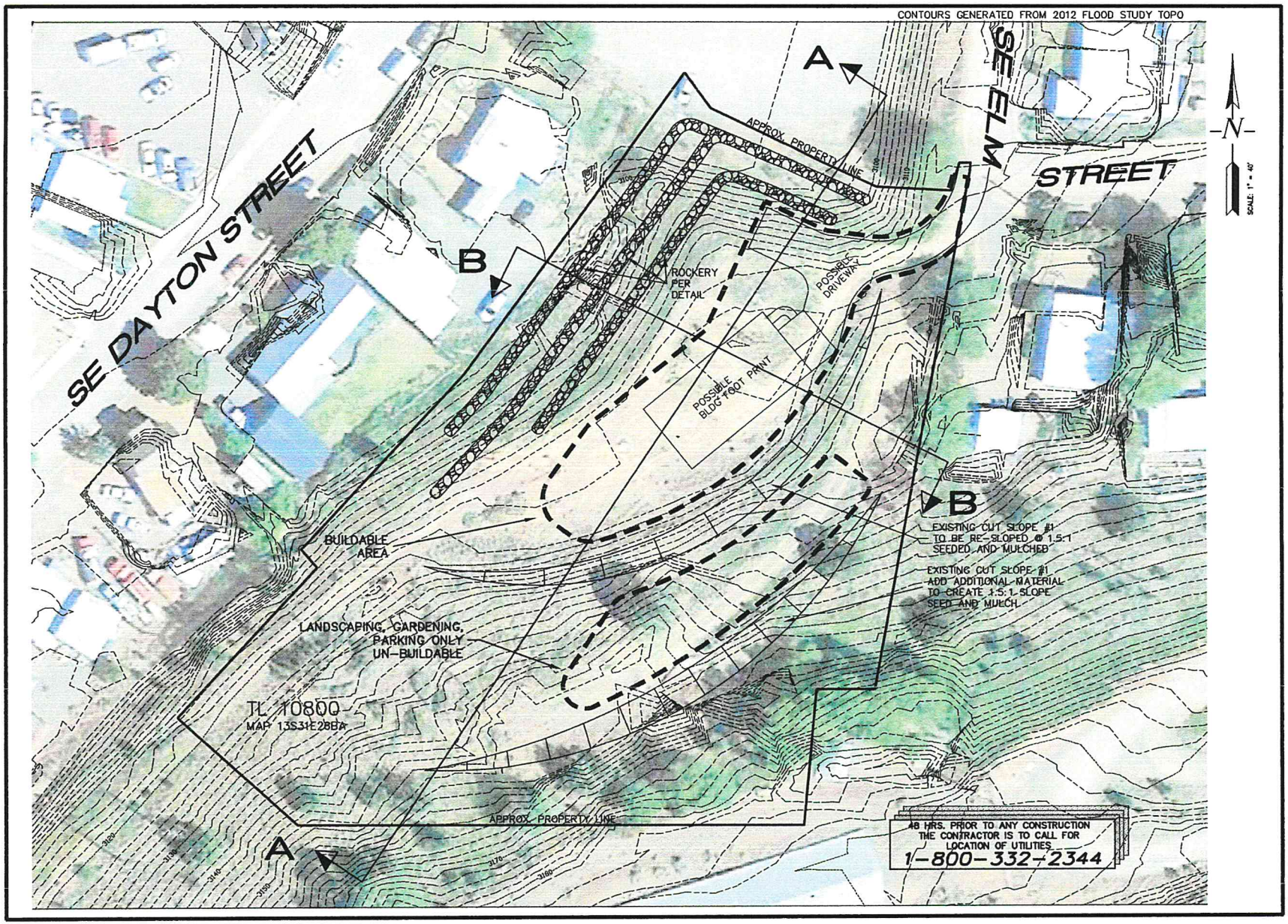



REVISIONS | BY

TAX LOT 10800
GRADING IMPROVEMENTS
RUSS YOUNG

SITE PLAN

SISUL ENGINEERING
375 W. 4th STREET
JOHN DAY, OREGON 97845
(541) 575-0777

DATE APR 2021
SCALE NOTED
DRAWN JH
JOB 21-
SHEET 01
OF 04 SHEETS

**Erosion and Sediment Control Requirements:**

1. The intent of the requirement is to prevent siltation from reaching storm drain systems and drainage ways. The erosion and sediment control (ESC) facilities shown on this plan are the minimum requirements for anticipated site conditions. During the construction period, these ESC facilities shall be upgraded as needed for unexpected storm events and to ensure that sediment laden water does not leave the site.

2. The following controls and practices are required:
   a) Each site shall have graveled or paved entrances, exits and parking areas, prior to beginning any other work, to reduce the tracking of sediment onto public or private roads.
   b) All unpaved roads located on-site shall be graveled. Other effective erosion and sediment control measures either on the road or down gradient may be used in place of graveling.
   c) When trucking saturated soils from the site, either water-tight trucks shall be used or loads shall be drained on-site until dripping has been reduced to minimize spillage on roads.
   d) Concrete trucks being washed out onsite shall be parked in a location that will prevent all wash water from entering the storm drain system without proper filtration. Concrete remnants and residue shall be properly disposed of.

3. Additional controls and practices shall be developed that are appropriate for the site. At a minimum the following shall be considered:
   a) Whenever practicable, clearing and grading shall be done in a phased manner to prevent exposed inactive areas from becoming a source of erosion.
   b) In developing vegetative erosion control practices, at a minimum the following shall be considered: temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, and protection of trees with protective construction fences.
   c) The following shall be considered for the protection of exposed areas and the prevention of soil from being eroded by storm water; mulching with straw or other vegetation, use of erosion control blankets, and application of soil tackifiers.
   d) The following shall be considered for the diversion of flows from exposed soil, store flows to allow for sedimentation, filter flows, or otherwise reduce soil laden runoff; use of silt fences, earth dikes, brush barriers, drainage swales, check dams, subsurface drains, pipe slope drains, rock outlet protection, sediment traps, and temporary or permanent sedimentation basins. All temporary sediment control practices shall not be removed until permanent vegetation or other cover of exposed areas is established.
   e) The following shall be considered to prevent the stockpiles from becoming a source of erosion; diversion of uncontaminated flows around stockpiles, use of cover over stockpiles, and installation of silt fences around stockpiles.

4. The following maintenance activities shall be implemented:
   a) Significant amounts of sediment that leave the site shall be cleaned up within 24 hours and placed back on the site or properly disposed. Any in-stream clean up of sediment shall be performed according to Oregon Division of State Lands' required timeframe.
   b) Under no conditions shall sediment intentionally be washed into storm sewer or drainage way unless it is captured by a BMP before entering receiving waters.
   c) For a filter fence, the trapped sediment shall be removed when it reaches one third of the above ground fence height.
   d) For catch basin protection, cleaning must occur when design capacity has been reduced by fifty percent.
   e) For a sediment basin, removal of trapped sediments shall occur when design capacity has been reduced by fifty percent.
   f) All erosion and sediment controls not in the direct path of work shall be installed before any land disturbance.
   g) If fertilizers are used to establish vegetation, the application rates shall follow manufacturer's guidelines and the application shall be done in such a way to minimize nutrient-laden runoff to receiving waters.
   h) If construction activities cease for thirty (30) days or more, the entire site must be stabilized, using vegetation of a heavy mulch layer, temporary seeding, or another method that does not require germination to control erosion.
   i) Any use of toxic or other hazardous materials shall include proper storage, application, and disposal.
   j) The permittee shall manage abandoned hazardous wastes, used oils, contaminated soils or other toxic substances discovered during construction activities in a manner approved by the Department of Environmental Quality.

**Seeding/Mulching:**

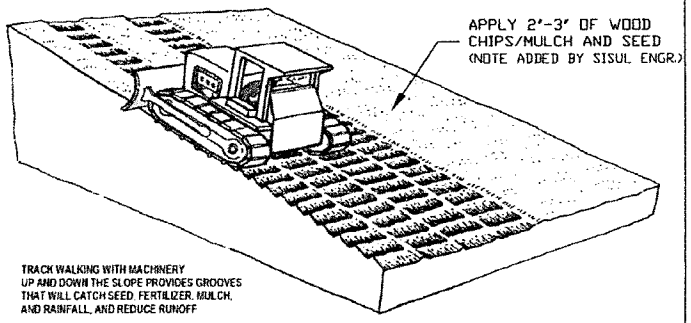
1. All areas disturbed during construction to be graded to drain and compacted after installation of utilities or grading.
2. Recommended Seed Mixture: 80% PR 8820 Dwarf Perennial Ryegrass and 20% Creeping Red Fescue, by weight. Application Rate shall be 100 pounds minimum per acre.
3. Fertilizer shall be 12-16-8 with 50% of the nitrogen derived from UREA FORMALDEHYDE, and applied at a rate of 400 pounds per acre.
4. Mulch at a rate of 2000 lbs/Ac or more and use netting and anchors if needed to stablize. Mulch shall be a wood cellulose fiber or other material suitable.
5. Temporary or Permanent Hydroseeding or acceptable seeding and mulching must be provided whenever perennial cover cannot be established on sites which will be exposed for 60 days or more.

**Structural Fill Notes:**

1. Structural fill is to be built on lot where noted on the x-sections to the specifications noted below.
2. All miscellaneous materials and the organic layer under the fill area shall be stripped or removed. All stumps in the fill area must be removed in their entirety.
3. General site preparations should include the reconstruction of miscellaneous un-documented fills by removing material to undisturbed ground, and replacement to structural fill standards. The approximate extent and locations of un-documented fills are unknown and will need to be excavated to identify.
4. The contractor shall place native material in 8" lifts and compact with vibratory roller until the area can pass a proof roll test with a loaded 10 yd end-dump truck. Depending on conditions moisture may need to be added to reach optimum moisture content of fill material. After each lift area is to be proof rolled and witnessed by City and/or Engineer, prior to placing next lift.

## Surface Roughening

Leaving the slopes in a roughened condition after clearing or creating a rough soil surface with horizontal depressions or grooves will trap seed and reduce runoff velocity. Roughening can be accomplished by "track walking" slopes with tracked equipment, by using a serrated wing blade attached to the side of a bulldozer, or by other agricultural equipment such as spike-toothed harrows.




**Applications**

- All slopes to be seeded.
- All slopes steeper than 1:3 having a vertical rise of 5 feet or greater.
- On areas that would otherwise be unfavorable for plant growth.
- As a temporary stabilization on bare soils exposed by construction activities.

Info from ODOT Erosion Control Field Manual

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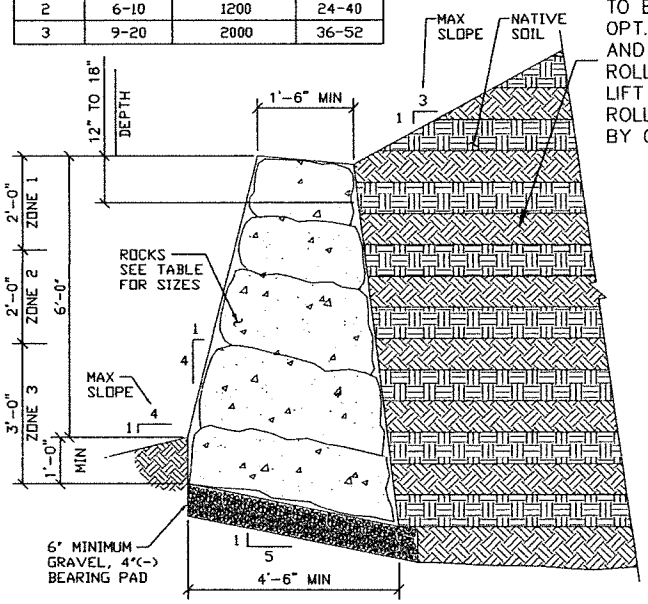
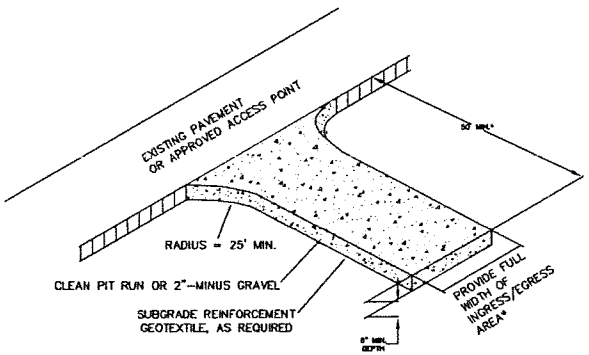
| ROCK SIZES PER ZONE AREA | | | |
|---|---|---|---|
| ZONE | VOLUME (CU. FT.) | WEIGHT (Lbs.) MIN | SIZE (IN.) |
| 1 | 3-7 | 700 | 12-28 |
| 2 | 6-10 | 1200 | 24-40 |
| 3 | 9-20 | 2000 | 36-52 |

IF 3:1 EMBED BASE ROCK 18"
IF 2:1 EMBED BASE ROCK 24"




## 2'-7' ROCKERY WALL
NTS




*20' MIN. FOR SINGLE FAMILY AND DUPLEX RESIDENTIAL

| TECHNICAL GUIDANCE HANDBOOK | Gravel Construction Entrance Detail Drawing 3-1A |
|---|---|

FILE DRAFT:INSPECTORS GRAPHICS DRAWING DR3-1A PLOT 1:1

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|---|---|
| | |

TAX LOT 10800
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DETAILS


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