



Solid Waste Management Facility Siting Study

Solid Waste Advisory Committee (SWAC) Meeting

October 17, 2023





Agenda

1. Welcome
2. Review/ Approve August Meeting Minutes
3. Open House Input and Community Outreach Updates
4. Final Site Evaluation: Progress Updates
5. Public Comment
6. SWAC Discussion
7. Adjourn



Open House Input & Community Outreach Updates



Recent outreach highlights

- Sept 11 Open House
- Sept 12 County College update
- Sept 27 City of Sisters update
- Sept 28 Oregon Natural Desert Association meeting
- Oct 10 Bureau of Land Management meeting





September open house for community members to learn more and discuss the siting process

September 11 5:30-7pm

- Open Forum
- Brief Presentation
- Questions and Answers

Promotion

- County website
- SWAC meetings and group email
- Sept 5 news release (Central Oregon Daily, KBND, Bend Bulletin, Source, etc)

Attendance 36 in-person and 11 virtual

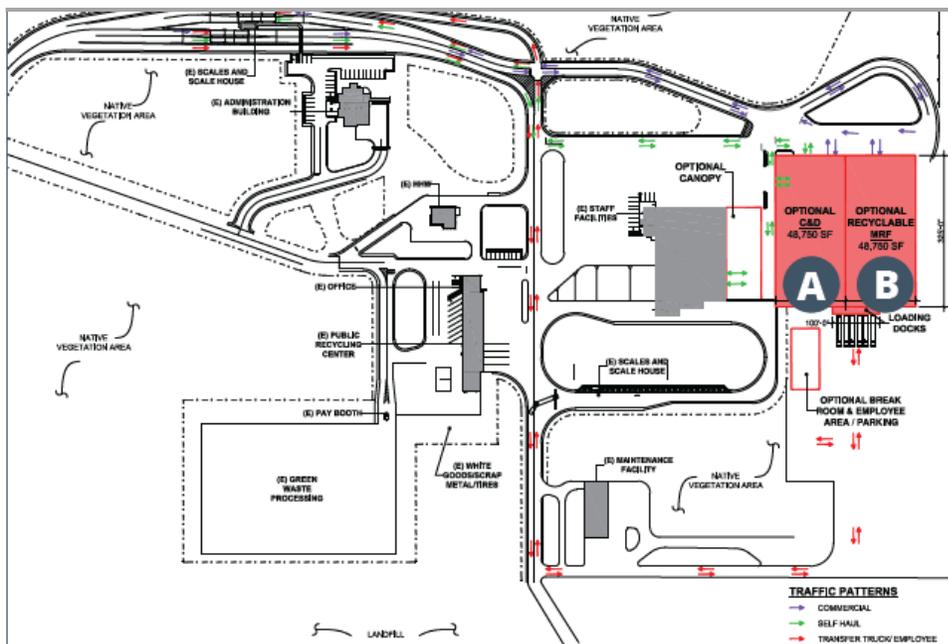


deschutes.org/bc-swac/page/solid-waste-open-house



Open house highlighted other efforts to reach diversion goals and expand recycling

Knott Landfill Recycling Improvements



- A** Construction and demolition (C&D) recycling equipment
- B** Material recovery facility (MRF) recycling equipment

Negus Transfer Station Composting Improvements





Open house included two Knott Landfill potential post-closure concepts





Community members were interested in siting process, facility lifespan, recycling and more

Open House Questions:

How long will the facility last?

Where will recycling happen?

How will the transfer stations be used?

What happens if the facility can't be permitted?

What's the timeline for the BLM sites?

Could Knott be expanded instead?

Are you working with other counties?

How much will the facility cost and who will pay?

How much does the County invest in diversion?

Are there cost savings from reaching the 45% diversion goal?





Ongoing outreach through siting process

- City of Bend, Redmond, La Pine briefings in fall 2023
- Direct outreach to interested parties
- Select community group briefings
- Scheduled SWAC meetings Jan, Apr, and May 2024
- E-news and group email updates
- Website and StoryMap updates



Deschutes County: Managing the Future of Solid Waste

Informational Story Map

Deschutes County Department of Solid Waste | September 2023

For more information: deschutes.org/managethefuture



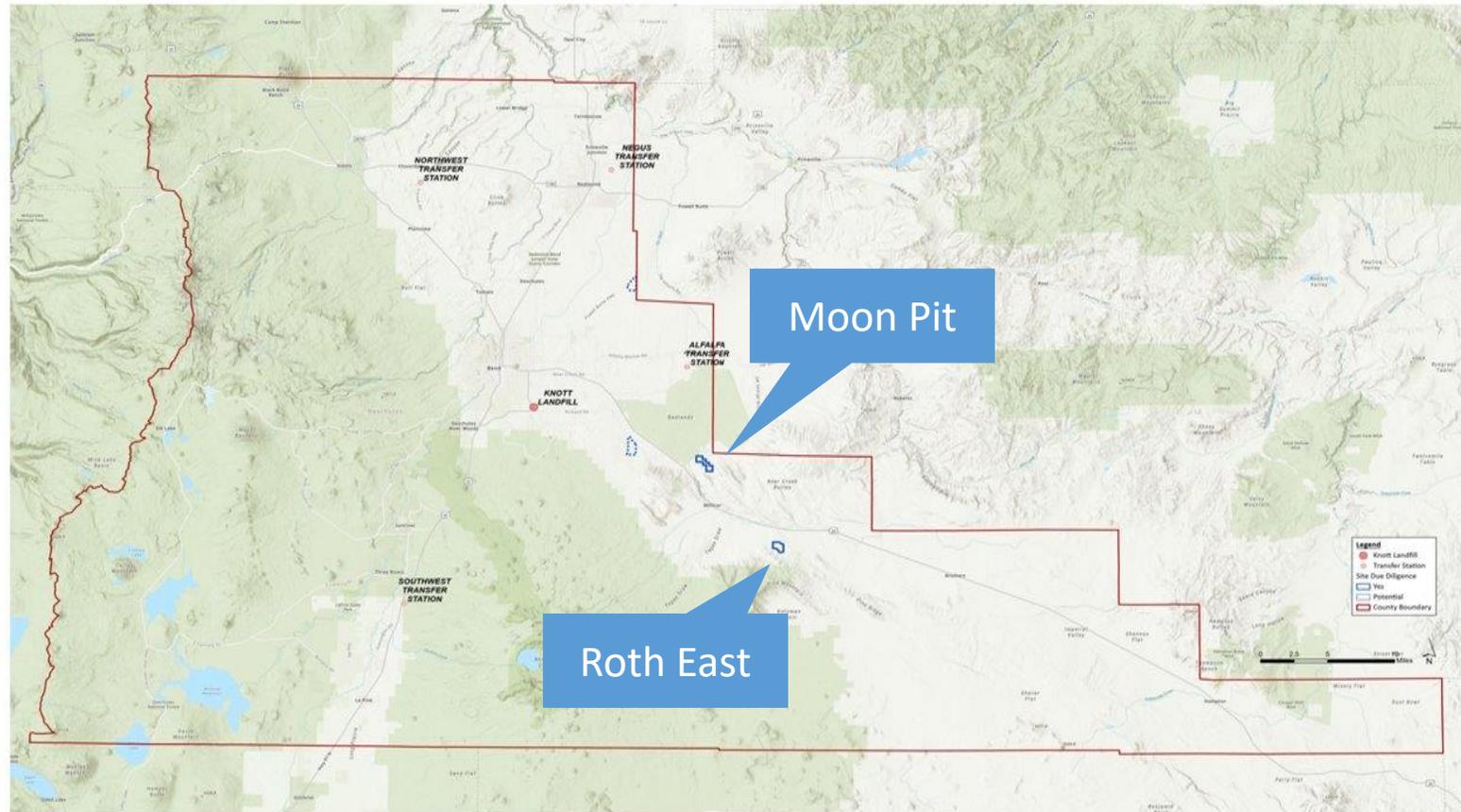
Final Site Evaluations: Progress Update



Finalist Site Evaluation Progress

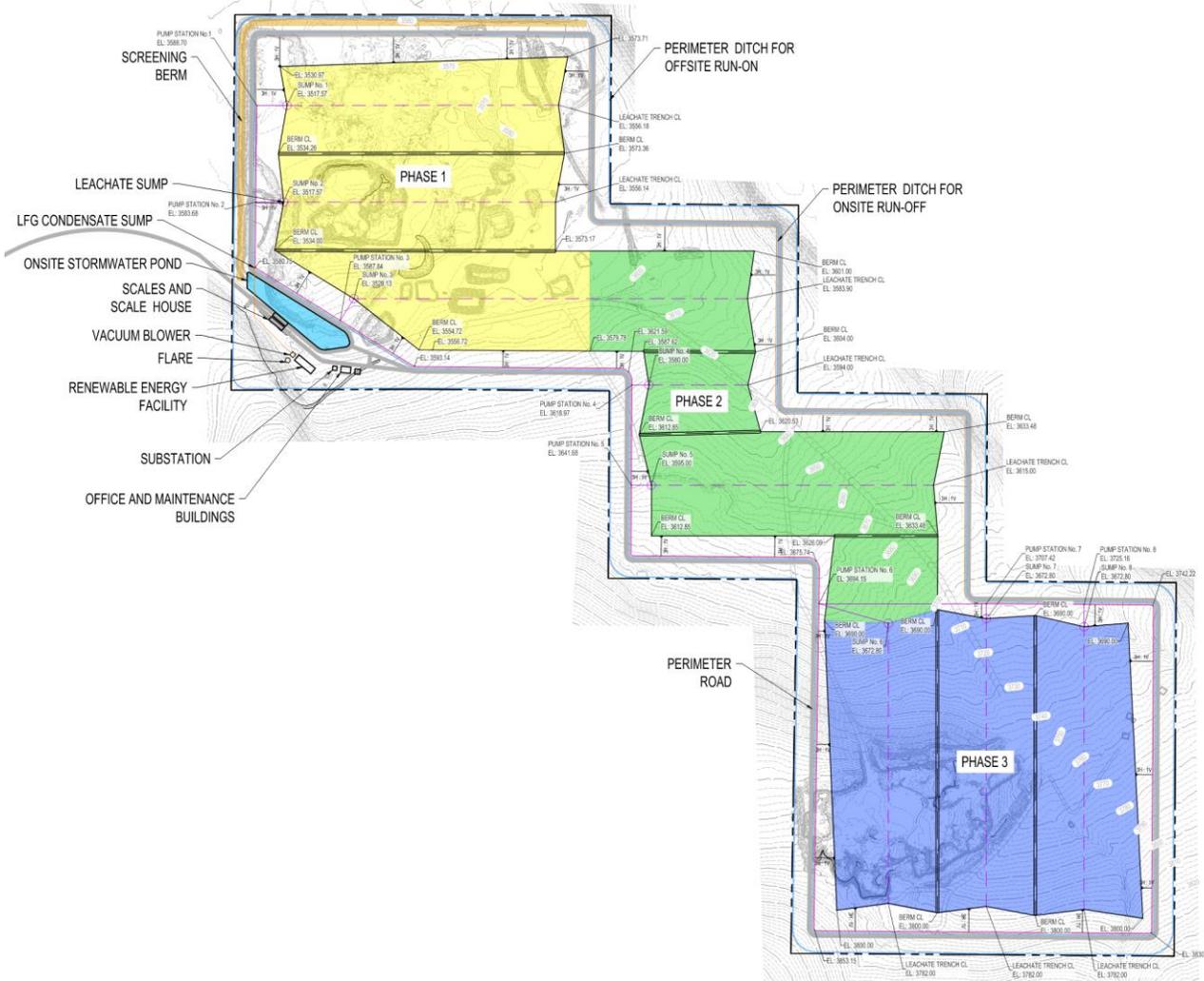
Ongoing technical analysis:

- Geophysical survey
- Geotechnical investigation
- Cultural resources field work
- Natural resources field work
- Transportation onsite Assessment
- Water Infrastructure Assessment
- Environmental Assessments
- Preliminary Site Design & Layout





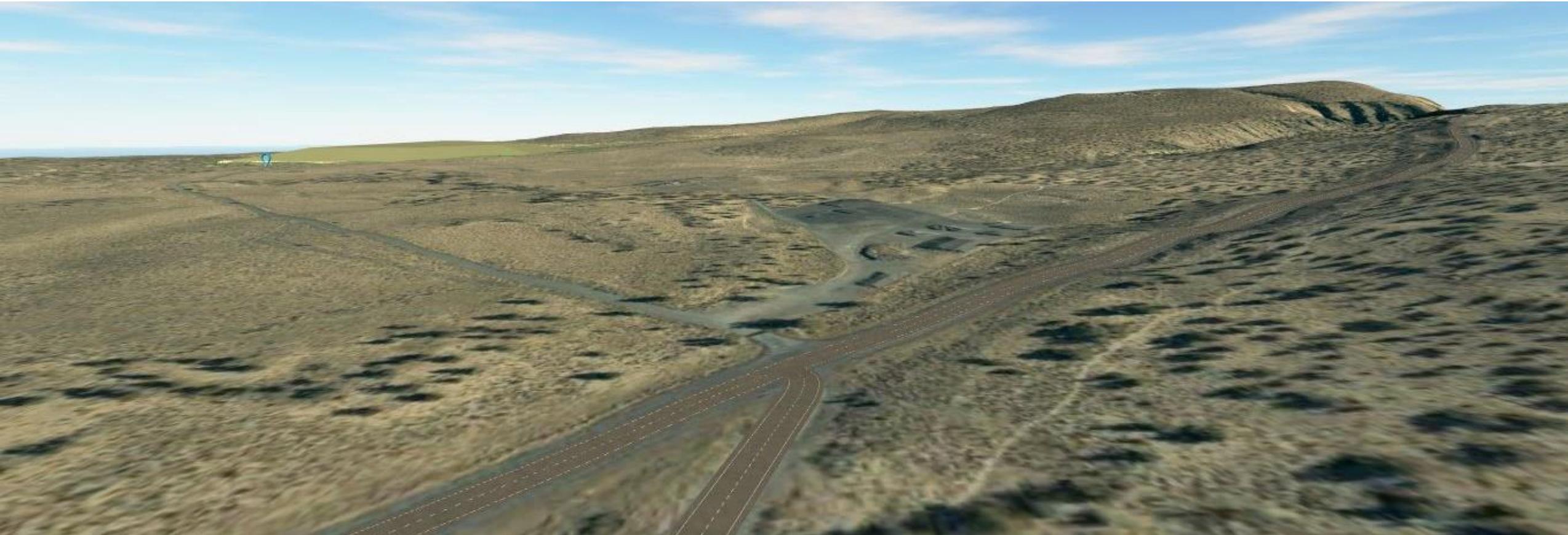
Moon Pit Conceptual Site Design





Moon Pit

Conceptual Design Renderings

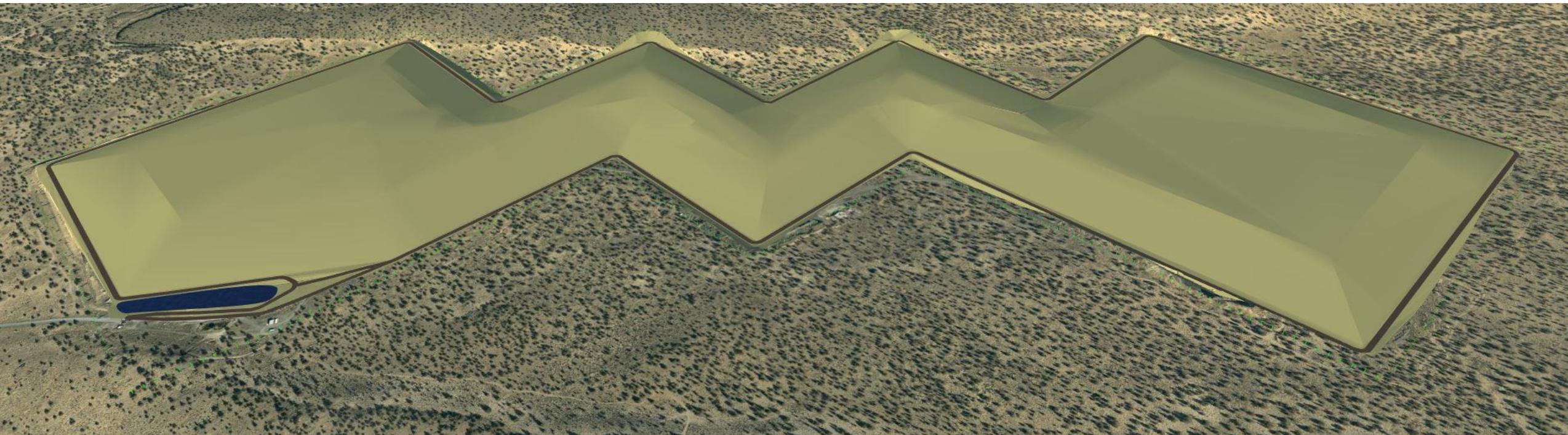


Elevated view from Horse Ridge Frontage Rd & Highway 20



Moon Pit

Conceptual Design Renderings

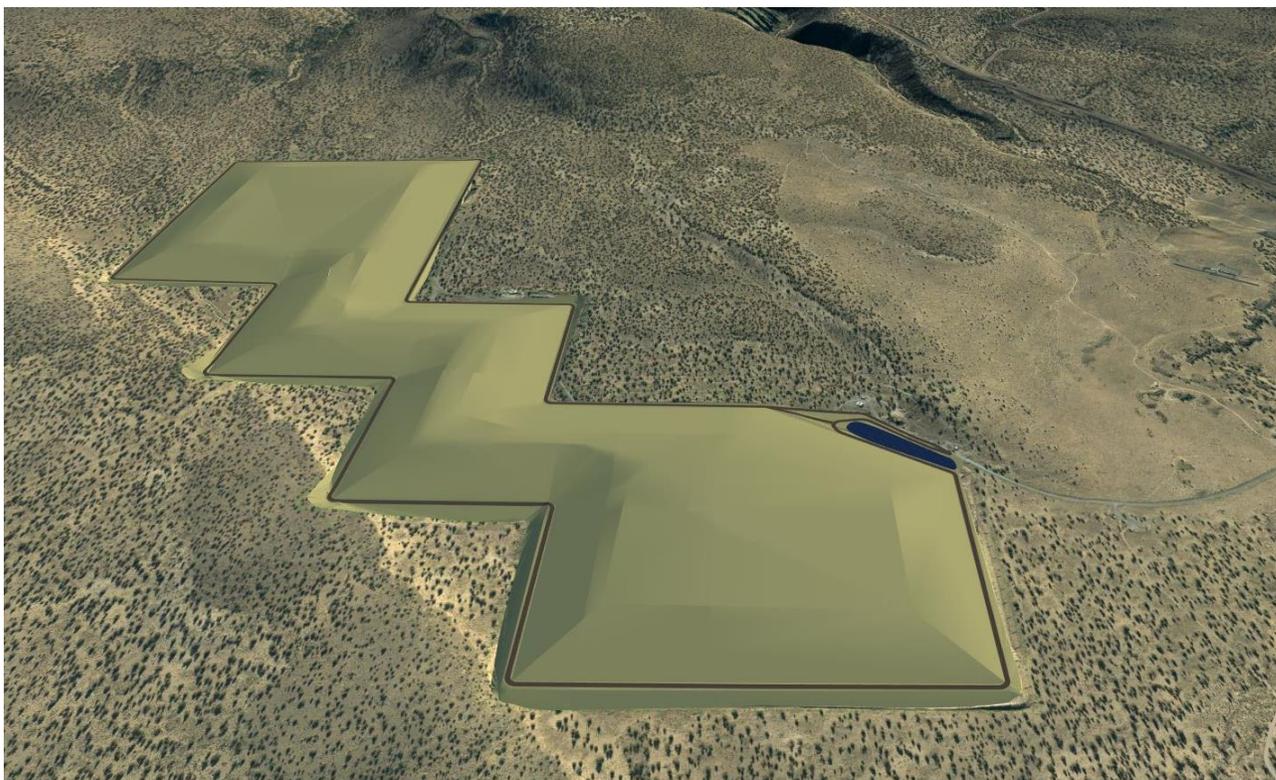


Isometric View from Southwest - Final Closure

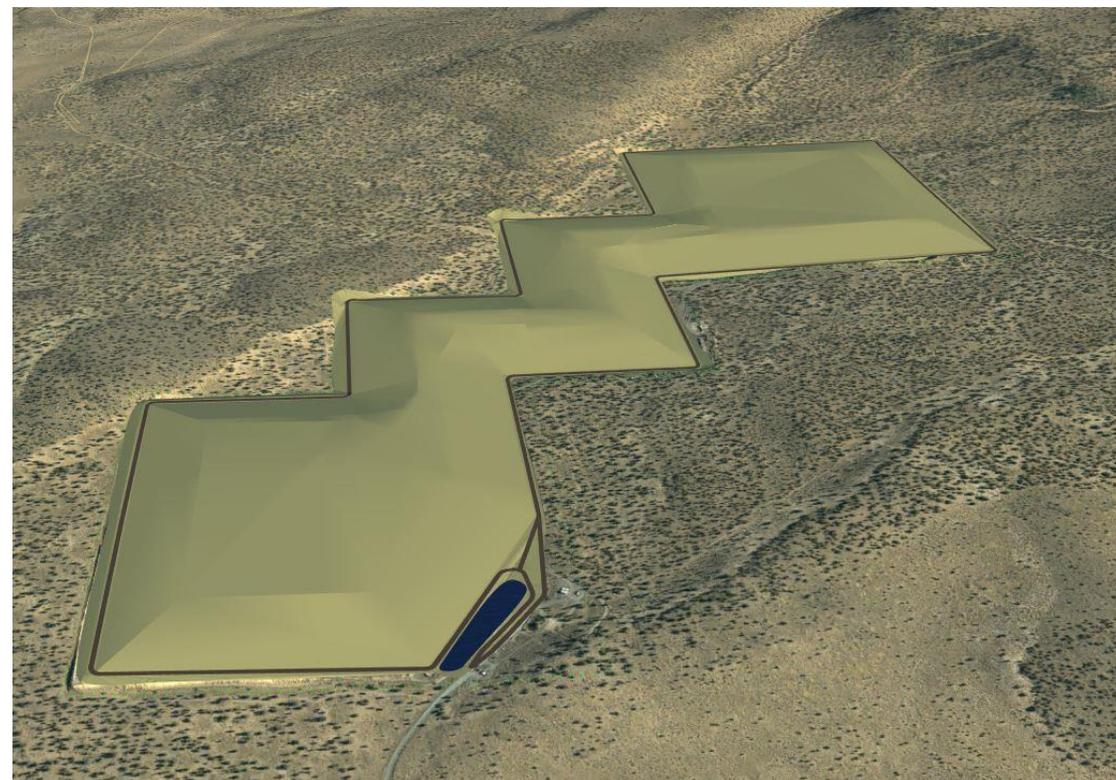


Moon Pit

Conceptual Design Renderings



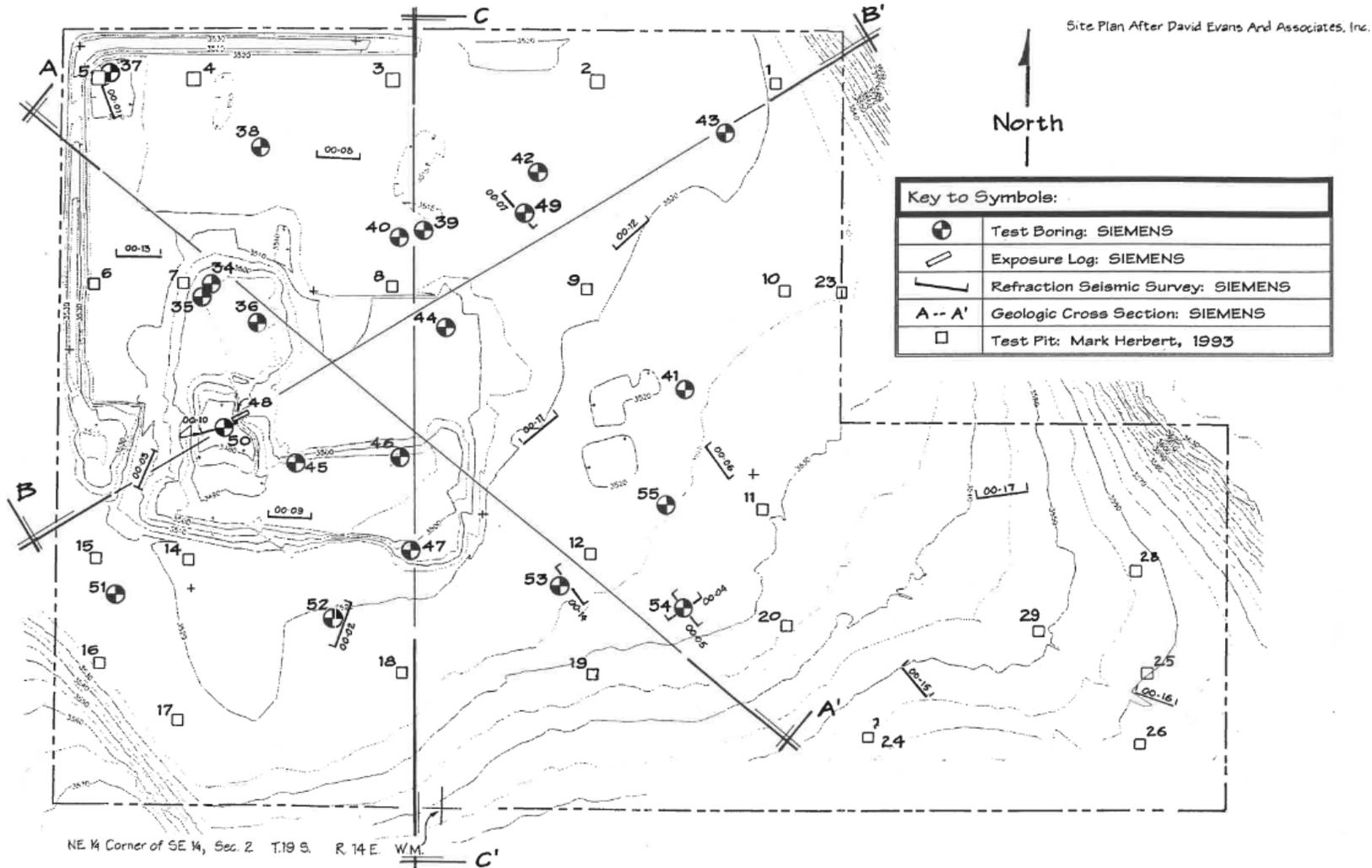
Isometric View from North - Final Closure



Isometric View from West - Final Closure

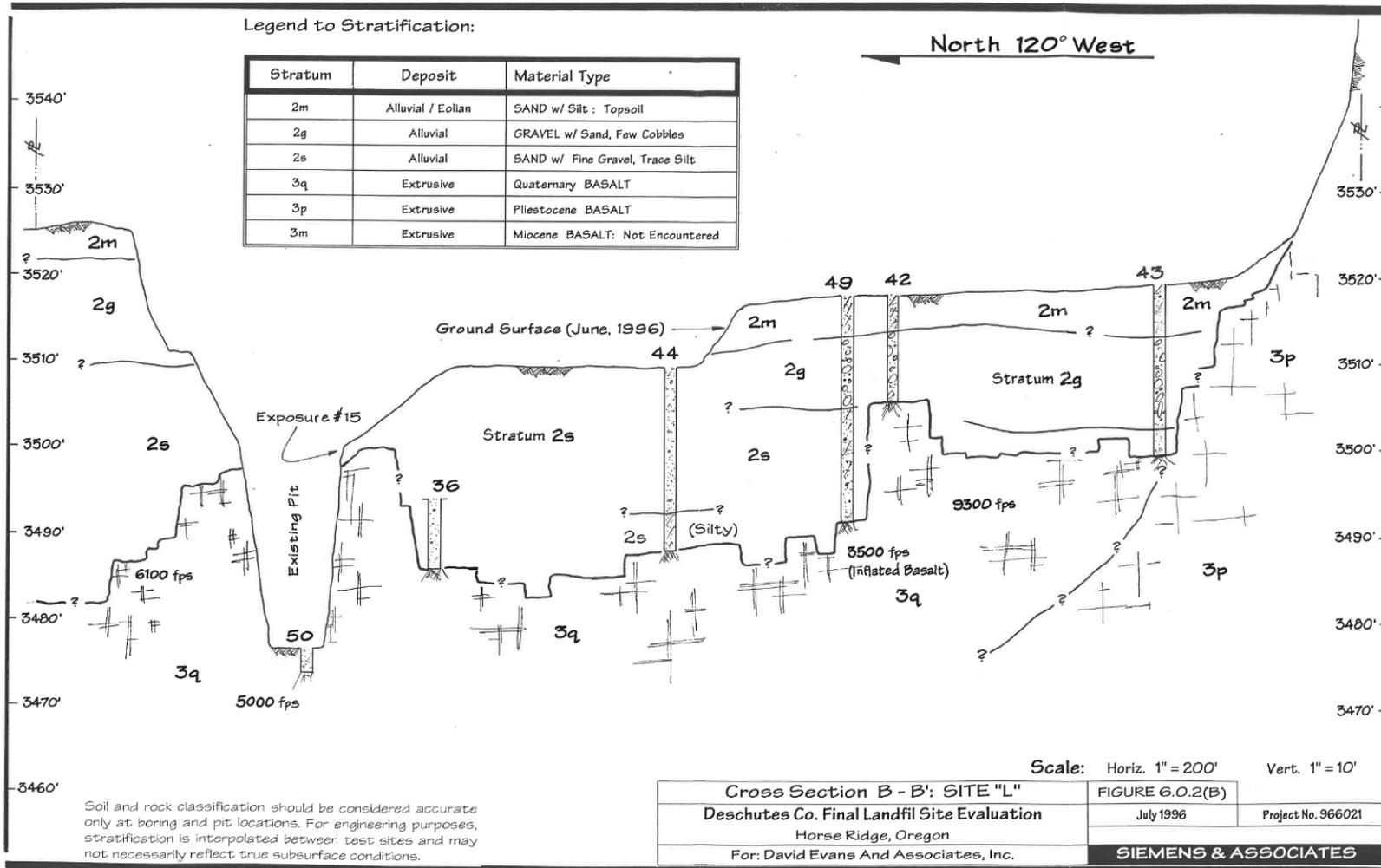


Moon Pit Geotechnical Observations



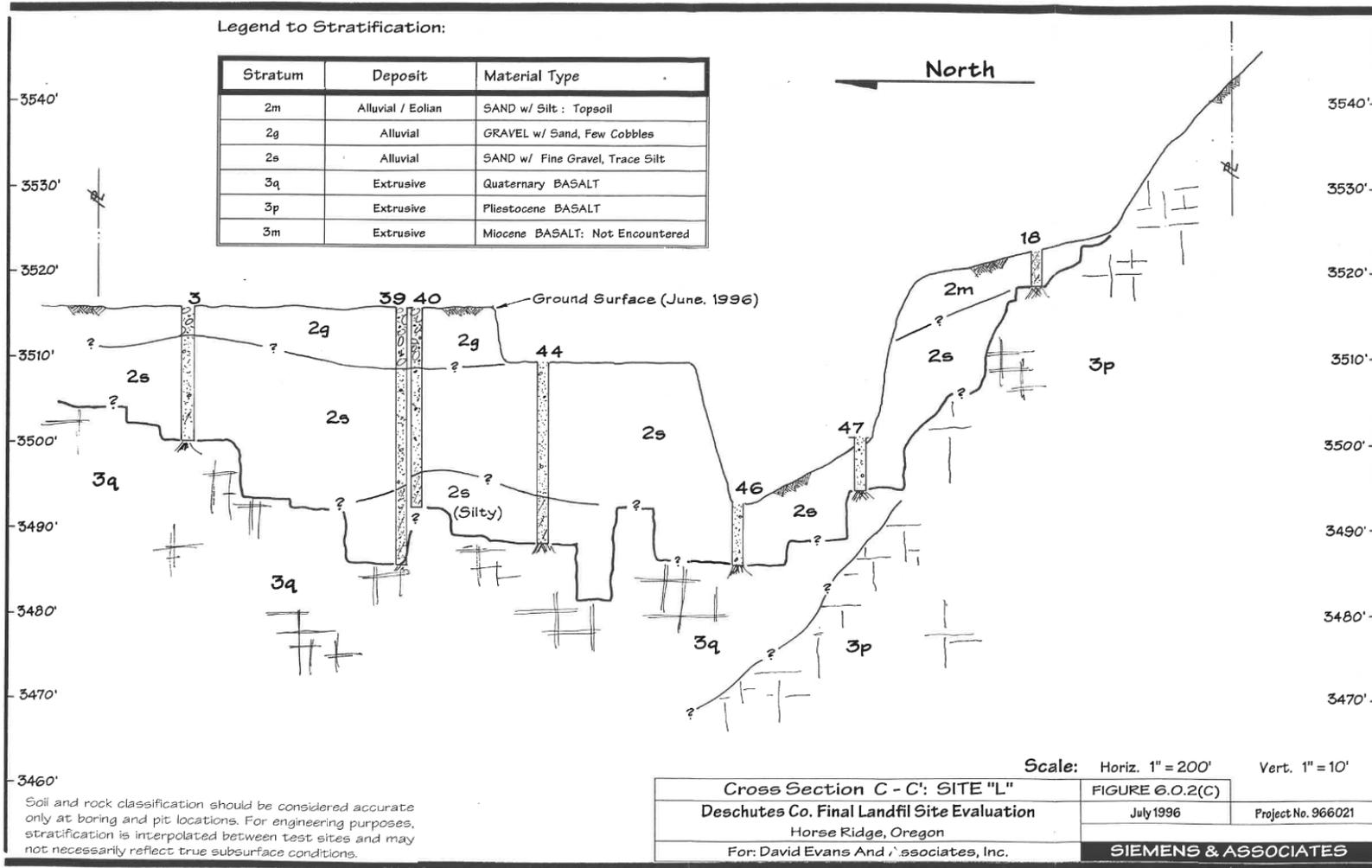


Moon Pit Geotechnical Observations





Moon Pit Geotechnical Observations





Moon Pit

Geotechnical Observations



Upper Mining Area (Landfill Phase 3) lacks geophysical survey, but exposed faces indicate rock prevalence.



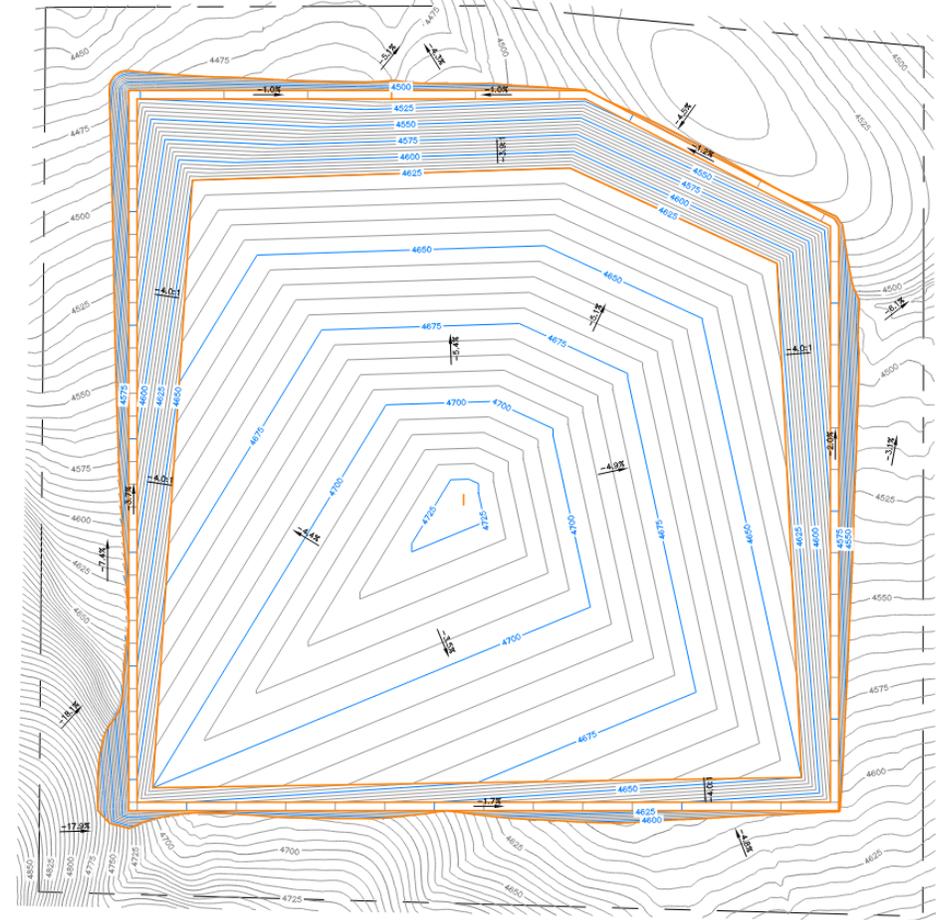
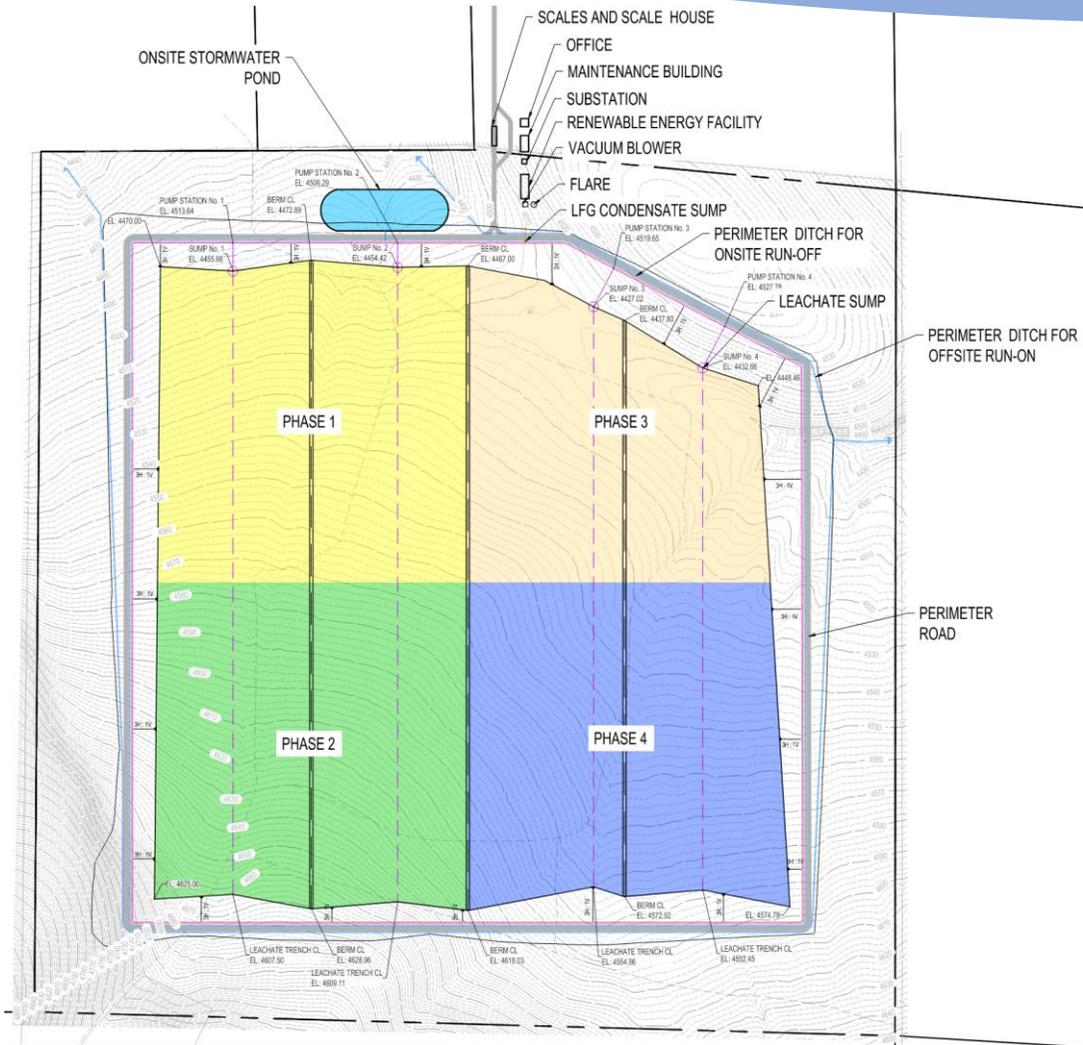
Moon Pit

Geotechnical Observations

- Based on geophysical and geotechnical explorations of Moon Pit site in 1996, the lower portion of site (Landfill Phase 1) is generally characterized by 10'-30' deep deposits of gravel, sand, and silt over basalt bedrock.
- Present-day ground surface likely differs from cross sections due to mining operations and will be updated in new report per recent drone survey.
- Shallow bedrock observed in upper portions of site (Landfill Phases 2 & 3).
- Rock blasting and crushing will be required for development of this site and reuse of materials for SWMF needs.
- The County and project team is coordinating with Hooker Creek on the potential for shared use of the site and synergy between landfill and aggregate mining operations.

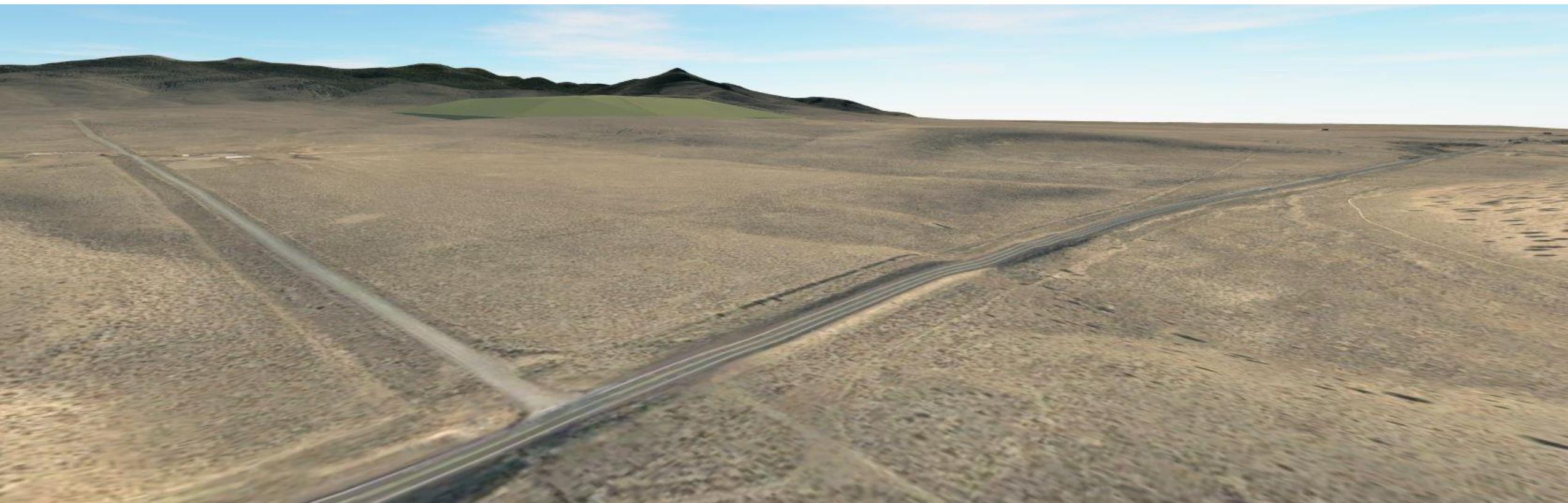


Roth East Conceptual Site Design





Roth East Conceptual Design Renderings



NE Isometric View from above Highway 20 & Newt Morris Rd



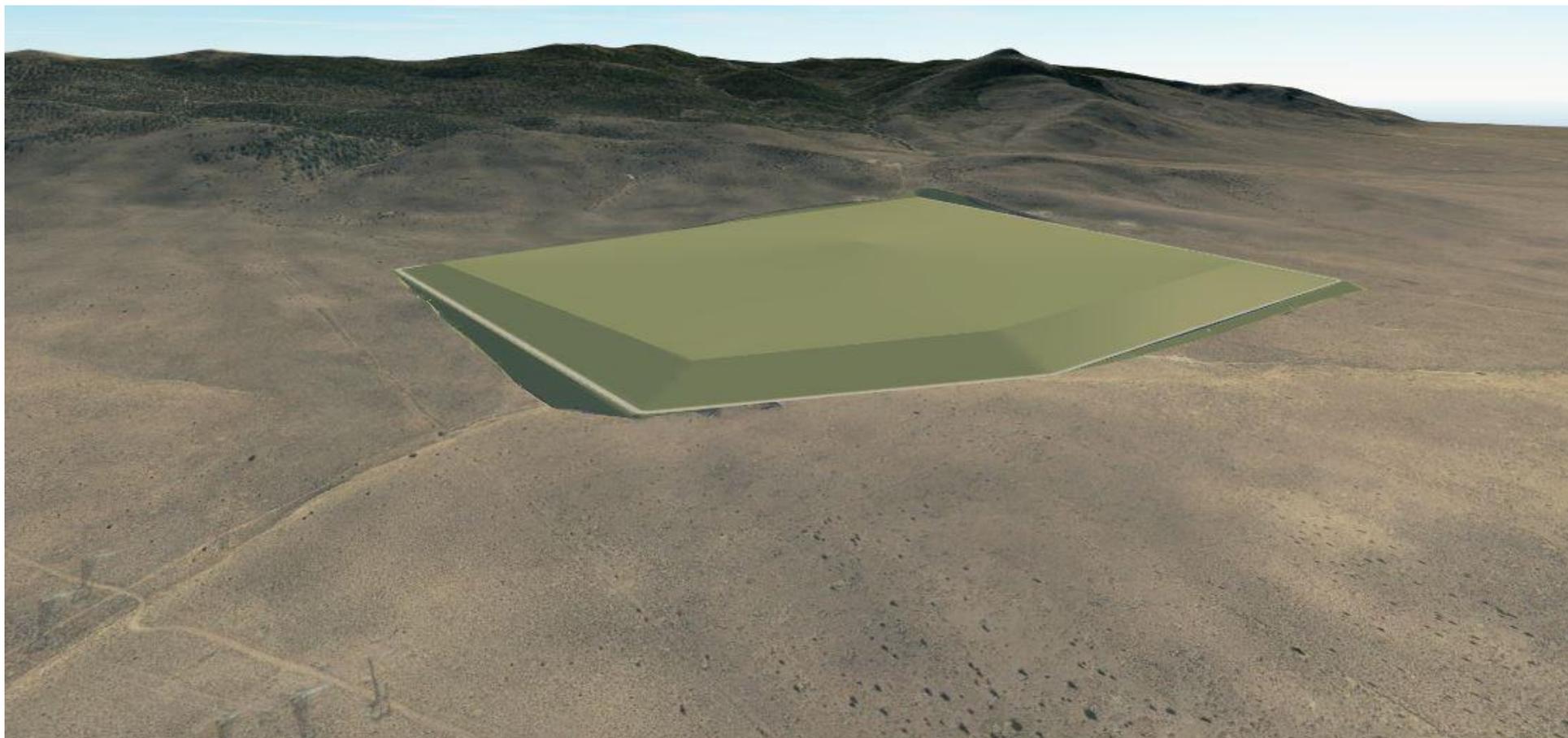
Roth East Conceptual Design Renderings



Ground Level view from Pine Mountain Road



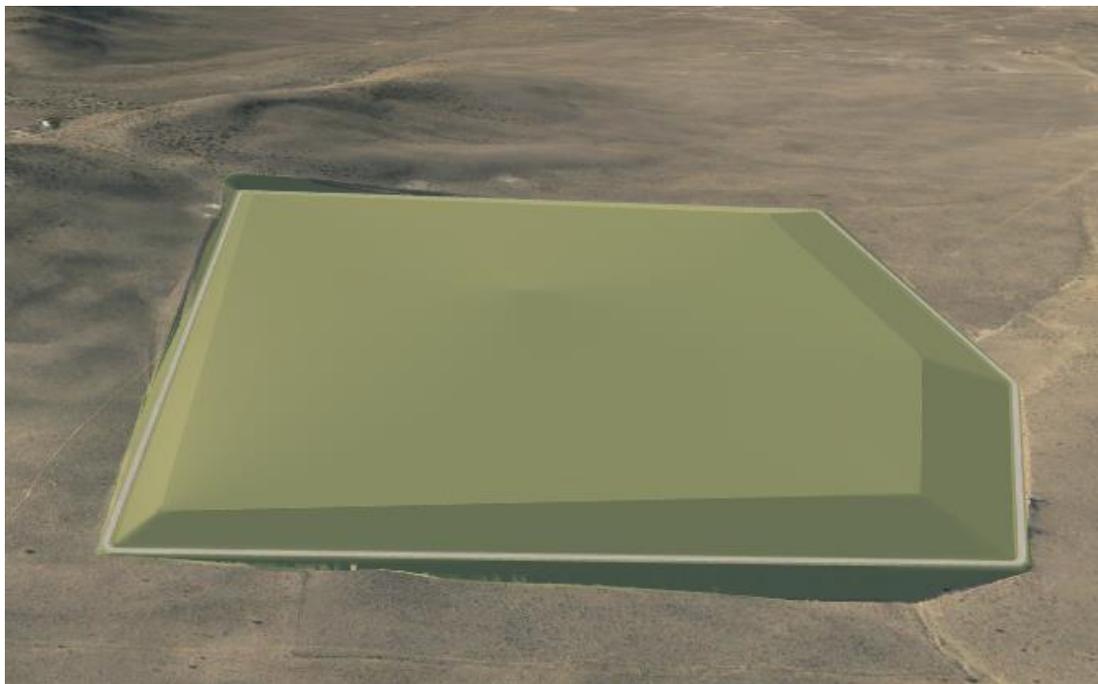
Roth East Conceptual Design Renderings



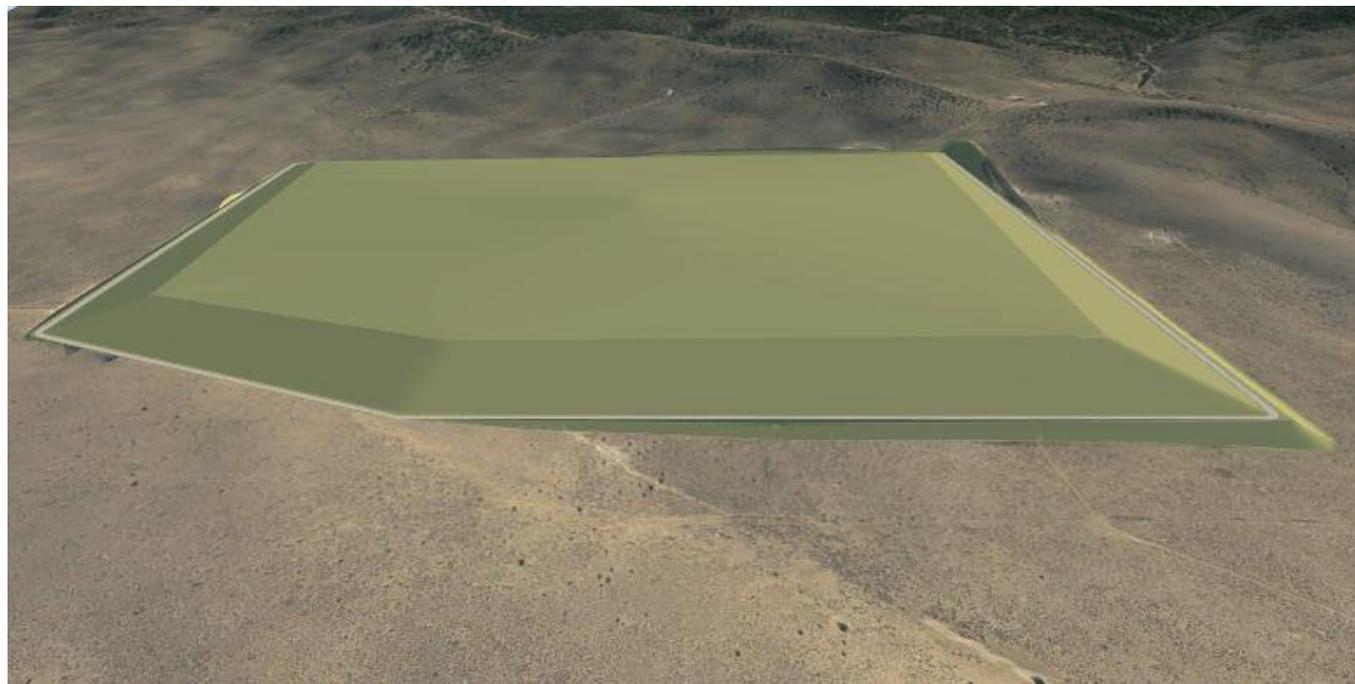
Isometric View from Northeast



Roth East Conceptual Design Renderings



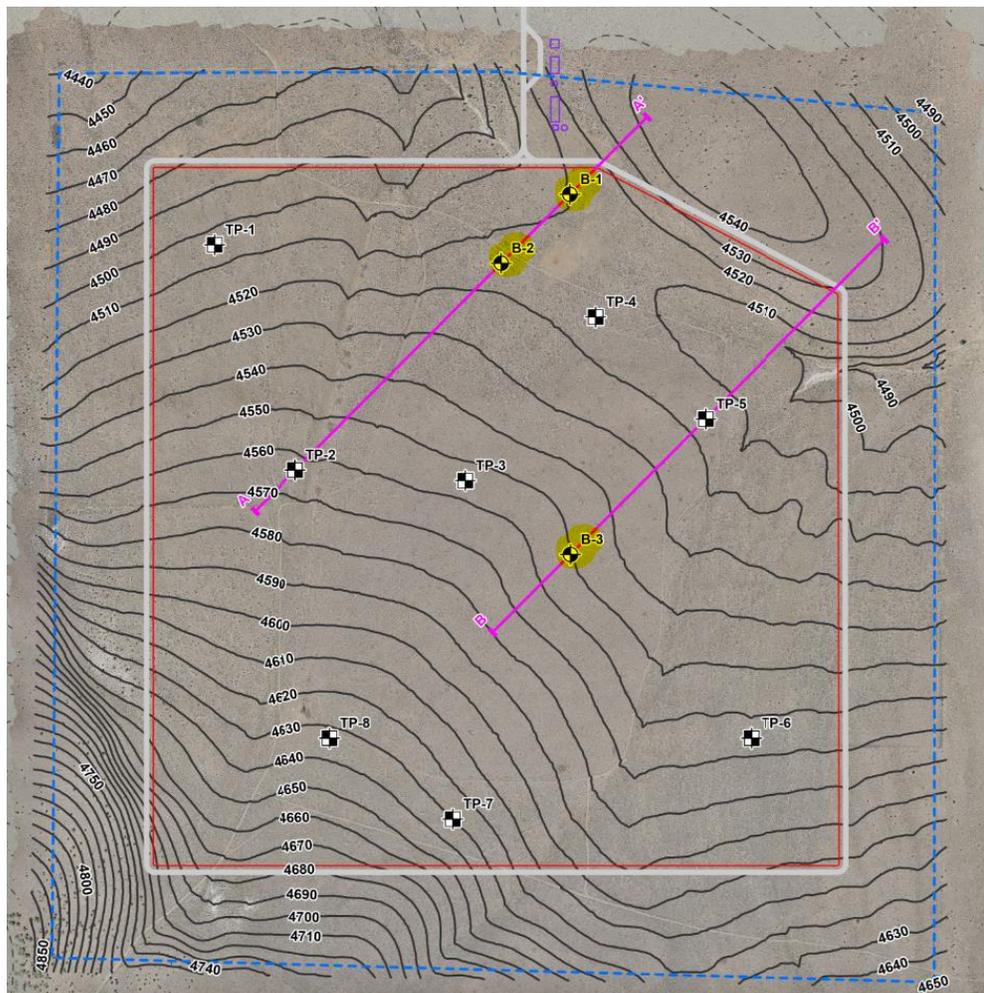
Isometric View from East



Isometric View from North



Roth East Geotechnical Observations



EXPLANATION

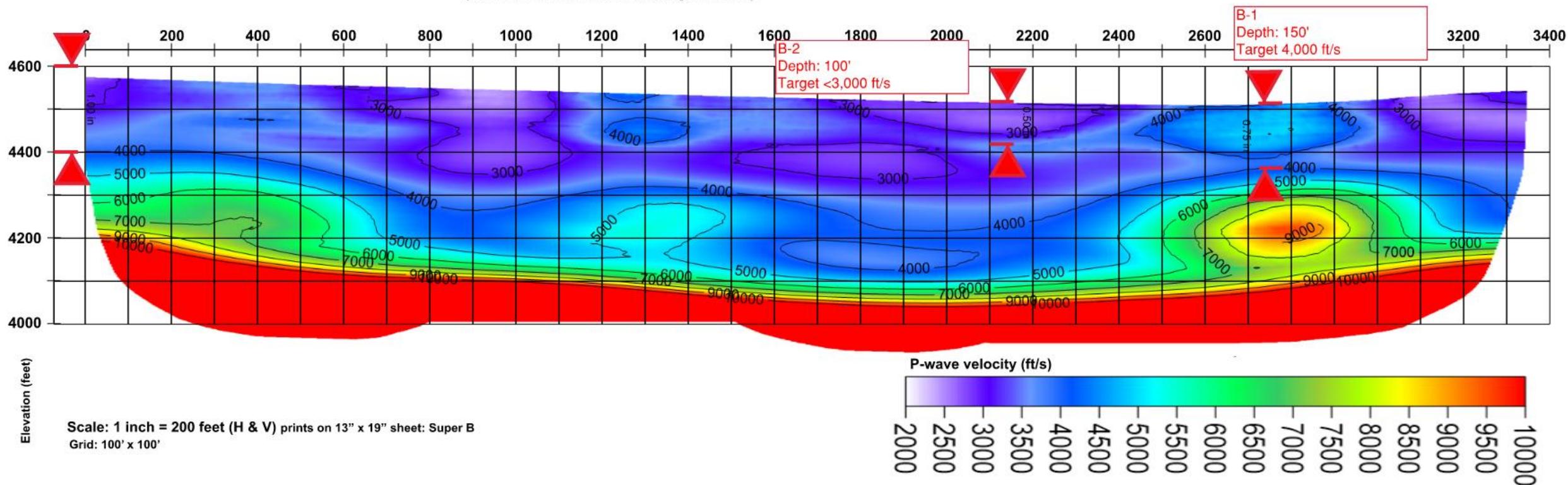
-  TP-1 - Test pit name and proposed (future)
-  B-1 - Boring name and approximate location
-  Approximate location of geophysical profiles
-  10-foot elevation contour (Parametrix, 2023)
-  20-foot elevation contour (USGS; NAVD 88)
- Preliminary Site Layout (Parametrix, 2023)**
-  Approximate footprint of waste cells
-  Approximate property boundary
-  Approximate location of proposed access road
-  Approximate location of structure



Roth East Geotechnical Observations

P-wave Seismic Refraction Tomography: Line A

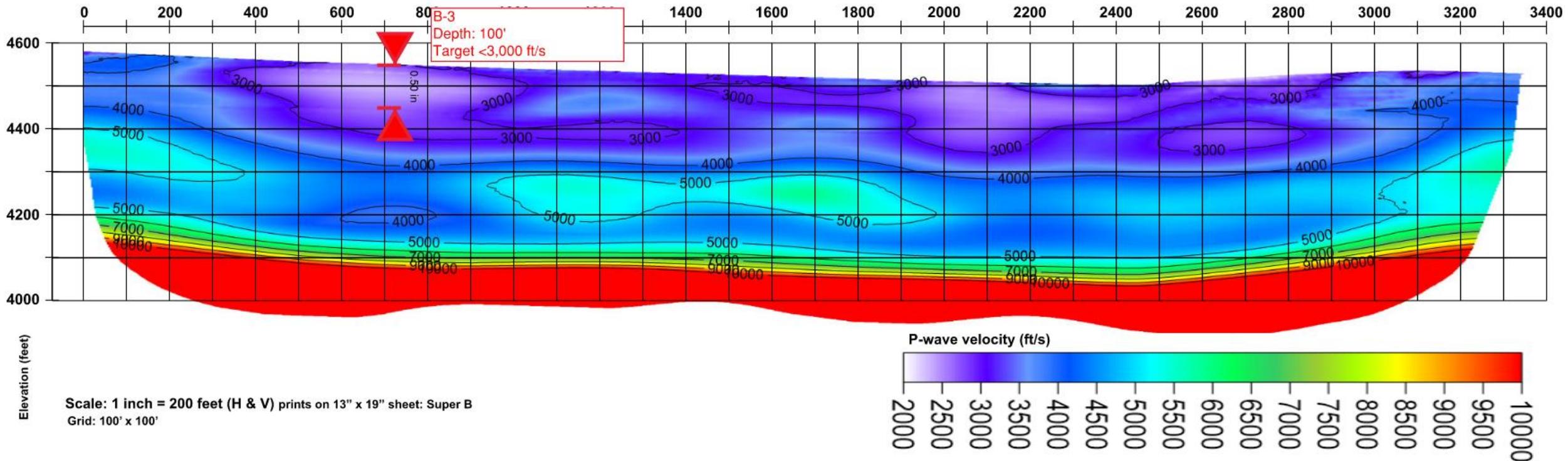
(167 receivers on 20 foot spacing, 81 shots)





Roth East Geotechnical Observations

P-wave Seismic Refraction Tomography: Line B
(167 receivers on 20 foot spacing, 81 shots)





Roth East Geotechnical Observations

- Borings B-1, B-2, B-3 revealed the predominant presence of gravel, sand, silt, and cobbles within 100-150' deep below ground.
- The borings did not encounter refusal at bedrock, so rock blasting will likely not be needed for development of this site.
- The variety of materials appears favorable for the material needs onsite, including drainage layer, daily cover, intermediate cover, final cover, roads, etc.
- Onsite crushing and processing is anticipated to repurpose existing materials for various SWMF material needs.



Public Comments



Public Comments

3 minutes per person

Based on number of people wishing to comment

Written comments can also be sent to:

managethefuture@deschutescounty.gov



SWAC Discussion



What happens next...

- Solicitation letter for proposals from both property owners
- **SWAC 2024 Meetings:**
 - Jan 16, 2024, 9-11 am: preliminary findings update
 - April 2024, 9-11 am: input on finalist sites
 - May 2024, 9-11 am: finalist site recommendation



Adjourn

