

6.4.3 Exhibit C
Pre-mining and Mining Plan Map(s)
Of Affected Lands

EXHIBIT C MINE PLAN MAP - SOLBERG PIT

SECTION 21, TOWNSHIP 13 SOUTH, RANGE 64 WEST
OF THE 6TH P.M.
EL PASO COUNTY, COLORADO

MARK D. RICE
13770 GARRETT RD.
PEYTON, CO 80831

BRIAN M. KAUFMAN
5530 GOOD FORTUNE RD.
PEYTON, CO 80831

TERRENCE H. SCHIFFERDECKER
5525 GOOD FORTUNE RD.
PEYTON, CO 80831

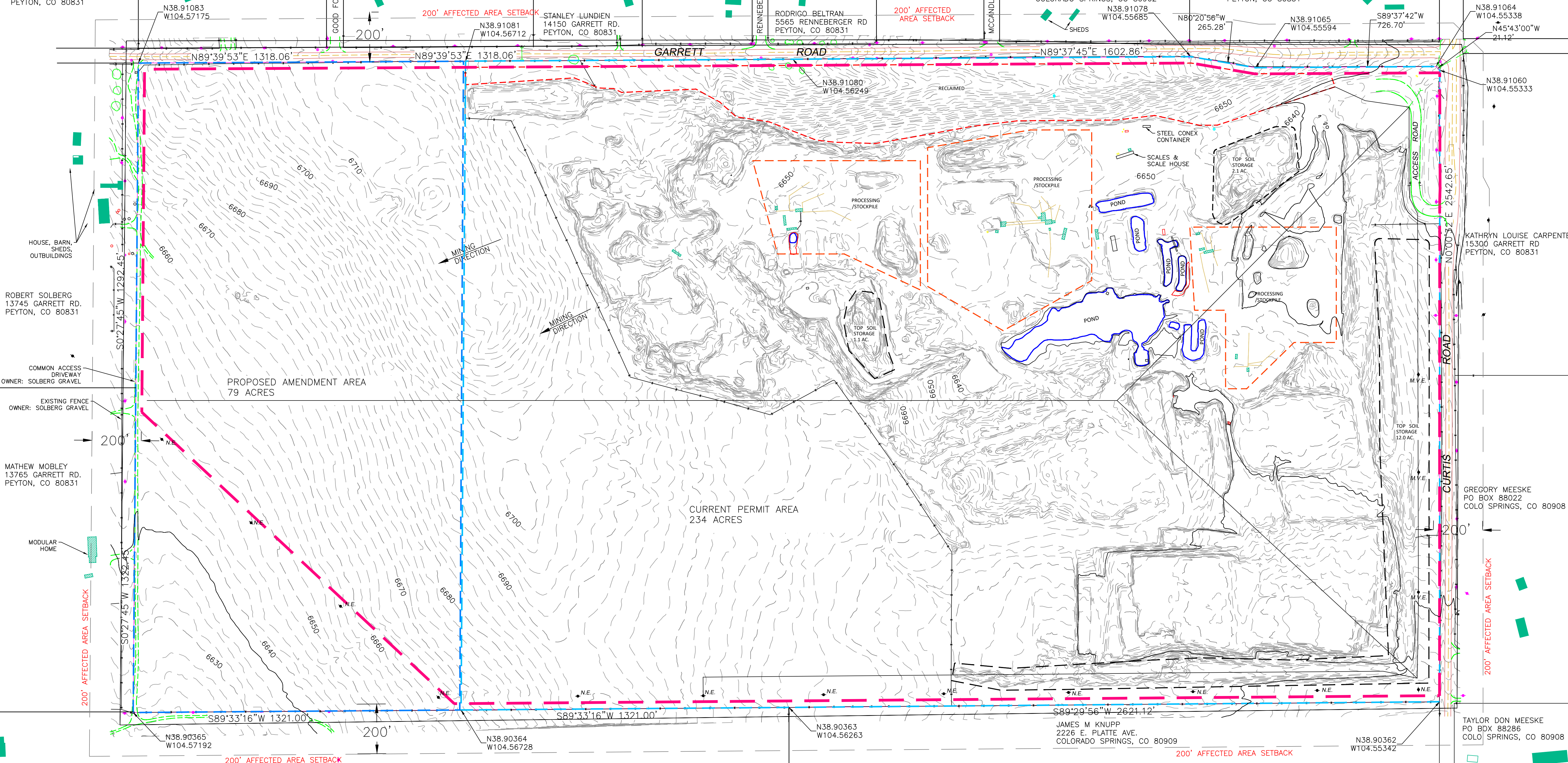
JOHN D THOMAS
5560 RENNEBERGER RD
PEYTON, CO 80831

ANDREW G ROHR
5560 MCCANDLISH RD
PEYTON, CO 80831

TEAM TOBISA LIVING TRUST
PO BOX 64241
COLORADO SPRINGS, CO 80962

SHIELDWOLF MANAGEMENT TRUST
5580 CURTIS RD
PEYTON, CO 80831

CLINT R DILLIE
5150 N MERIDIAN RD
PEYTON, CO 80831



ROBERT SOLBERG
13745 GARRETT RD.
PEYTON, CO 80831

MATHEW MOBLEY
13765 GARRETT RD.
PEYTON, CO 80831

MODULAR HOME

PROPOSED AMENDMENT AREA
79 ACRES

CURRENT PERMIT AREA
234 ACRES

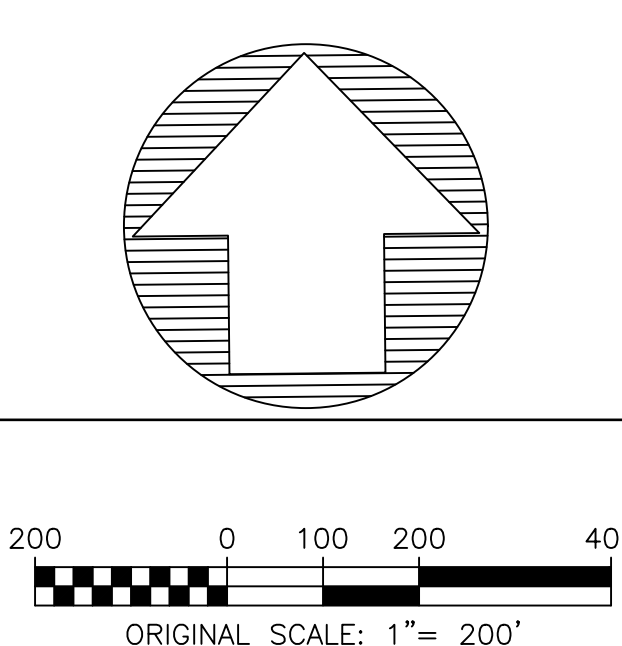
GREGORY MEESKE
PO BOX 88022
COLO SPRINGS, CO 80908

TAYLOR DON MEESKE
PO BOX 88286
COLO SPRINGS, CO 80908

- CURRENT PERMIT BOUNDARY (234 ACRES)
- PROPOSED AMENDMENT BOUNDARY (79 ACRES)
- AFFECTED AREA BOUNDARY (289 ACRES)
- PROCESSING / STOCKPILE AREAS (23 ACRES)
- TOP SOIL STOCKPILE (15 ACRES)
- RECLAIMED AREA (16 ACRES)
- PONDS (3 ACRES APPROX.)
- EXISTING FENCE
- EXISTING BUILDINGS
- TRANSMISSION POLE (NEXTERA ENERGY)
- DISTRIBUTION POLE (MOUNTAIN VALLEY ELECTRIC)

I, JOHN E. KRATZ, HEREBY CERTIFY THIS EXHIBIT WAS PREPARED UNDER MY DIRECT SUPERVISION AND CHECKING, AND TO THE BEST OF MY KNOWLEDGE AND BELIEF ACCURATELY DEPICTS THE MINE PERMIT AND AFFECTED AREA BOUNDARIES DEFINED HEREIN. THIS EXHIBIT IS NOT A LAND SURVEY PLAT. LAND USE INFORMATION SHOWN HEREIN IS FROM FIELD OBSERVATION (JULY 6, 2021), AERIAL TOPOGRAPHY AND REPORT BY OTHERS AND MAY NOT BE ACCURATE AFTER THIS DATE.

John E. Kratz



1. TOPOGRAPHY BY LANDMARK MAPPING, INC. FROM AERIAL PHOTOGRAPHY 4/20/21.
2. CONTOUR INTERVAL 2 FEET.
3. BOUNDARY SURVEY INFORMATION FROM LSP 207900045, PLS 28658

REVISIONS		
NO.	DATE	BY
4	11/09/21	J.E.K.
5	11/09/21	J.E.K.
6	02/16/22	J.E.K.
7	02/23/22	J.E.K.
8	03/16/22	J.E.K.

SCALE VERIFICATION	
BAR IS 1" INCH ON ORIGINAL DRAWING	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
0	1"

REUSE OF DOCUMENT	
THIS EXHIBIT IS CERTIFIED ONLY TO THE PARTIES NAMED HEREON AND REMAINS THE PROPERTY OF RED ROCK LAND SURVEYS, INC. ANY REUSE OF THIS EXHIBIT FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN CONSENT OF RED ROCK LAND SURVEYS, INC. IS PROHIBITED. CORRECT THIS PLAT SHOULD NEW OR UNDISCOVERED FACTS EMERGE. USE OF THIS PLAT BY OTHER THAN CERTIFICATE HOLDER IS AT YOUR OWN RISK.	

SYMBOLS	
	FIRE
	LPOLE
	MANHOLE
	SIGN
	UPOLE
	FENCE
	MISC
	TOWER
	PILE
	CULVERT
	ROCK
	IRRIGATION
	MAILBOX
	TREE
	RIP-RAP
	POLE-ANCHOR

PREPARED FOR: PIONEER LANDSCAPE MATERIALS	
2021 MAP	SOLBERG GRAVEL, LLC
	13745 GARRETT ROAD
	PEYTON, CO 80831

6.4.4 Exhibit D Mining Plan

The Solberg Pit is a historic sand and gravel mine that has provided construction industry material since 1981. This amendment will increase the permit boundary to include 78.74 acres for a total permitted area of approximately 313.30 acres. The affected area will include approximately 286 acres. The utility poles along the south property boundary and northwest corner require a 75 ft. setback. To be protective of the utility line, the area south and southwest of the utility line as well as within 75 feet of the utility pole will not be mined, thus reducing the affected area to 76 acres.

Geologic Description

The target deposit is sandy loam for construction industry sand. Sandy loam is present in both the Stapleton and Blakeland soil types occurring in the permit boundary. Whereas the Stapleton has gravelly loam, Blakeland is loamy sand or sand to the survey depth. Based on mining activity, the target deposit exists to a depth of 40 ft. below ground level and potentially deeper.

Mining Operation

Mining will continue west from the current active mine area. The depth of mining will be consistent with current practices of approximately 40 ft. below ground surface. The mine will continue to develop as an open pit. The mine perimeter will be 3H:1V slopes to the mine floor. Water storage ponds and water recycling ponds are adjacent to processing plants.

Mining methods and equipment will be consistent with current practices. Topsoil and overburden is removed from the surface with a scraper. The topsoil is stockpiled for use in reclamation. Material is removed from a mine face using a loader and loaded into a haul truck. The haul truck transports the material to stockpiles adjacent to a processing plant. Processing plants are wet screens and sand screws for production of construction sand. Loaders feed the processing plant and load trucks for hauling the material off-site.

Bond will be posted for the entire proposed affected area. Reclamation sloping and floor grading will occur contemporaneously with mining. Perimeter slopes will be mined 3H:1V or less. The mine floor will be graded and sloped when an area is mined out.

Truck traffic and haul roads will remain consistent with the current operation. Whereas the interior haul roads will change as mining and production changes, the scale house and mine access will remain unchanged. On-site haul truck and off-site haul truck traffic trips will remain consistent with the current operation. The life of the mine is anticipated to increase between ten and 12 years. Average annual employment at the site is 12 employees.

Mining equipment includes an excavator, a grizzly, off-road trucks, a scraper, a loader and a bulldozer. A water truck will be used to mitigate fugitive dust. Material is processed using up to three wet screening plants. The primary commodity is construction sand. Each plant is connected to a recirculating water system. Groundwater is supplied from a groundwater well. The well permit is provided in Exhibit G.

The mine is an open pit with a porous sandy loam floor. Surface water as precipitation and snow melt will pool on the mine floor and infiltrate within 72 hours.

6.4.5 Exhibit E Reclamation Plan

Post-mining land use will remain rangeland as approved in the current permit. Final topographical configuration will manifest as a graded mine floor at 6441 ft. elevation with 3H:1V or less sloped sides. The mine floor will be graded to allow for stormwater drainage into the natural drainage ditch in the southeast corner. As mining activity progresses west into the amendment area, reclamation will begin in the mined out east portion of the mine.

Upon completion of mining and processing in a portion of the mine, the mine floor will be graded with a motor grader. The recycle water pond will be backfilled with a bulldozer and graded. Perimeter slopes in the vicinity will be shaped to a slope of 3H:1V or gentler using a bulldozer. The access will remain along with the interior road to the vicinity of the scale house. Other interior haul roads will be ripped and reclaimed.

Topsoil will continue to be salvaged and stockpiled inside the mine for use during reclamation. Topsoil will be replaced to a minimum depth of six inches. The topsoil will be transported from the stockpiles to the target area by dump trucks that are filled using a loader. The topsoil will be distributed using a motor grader.

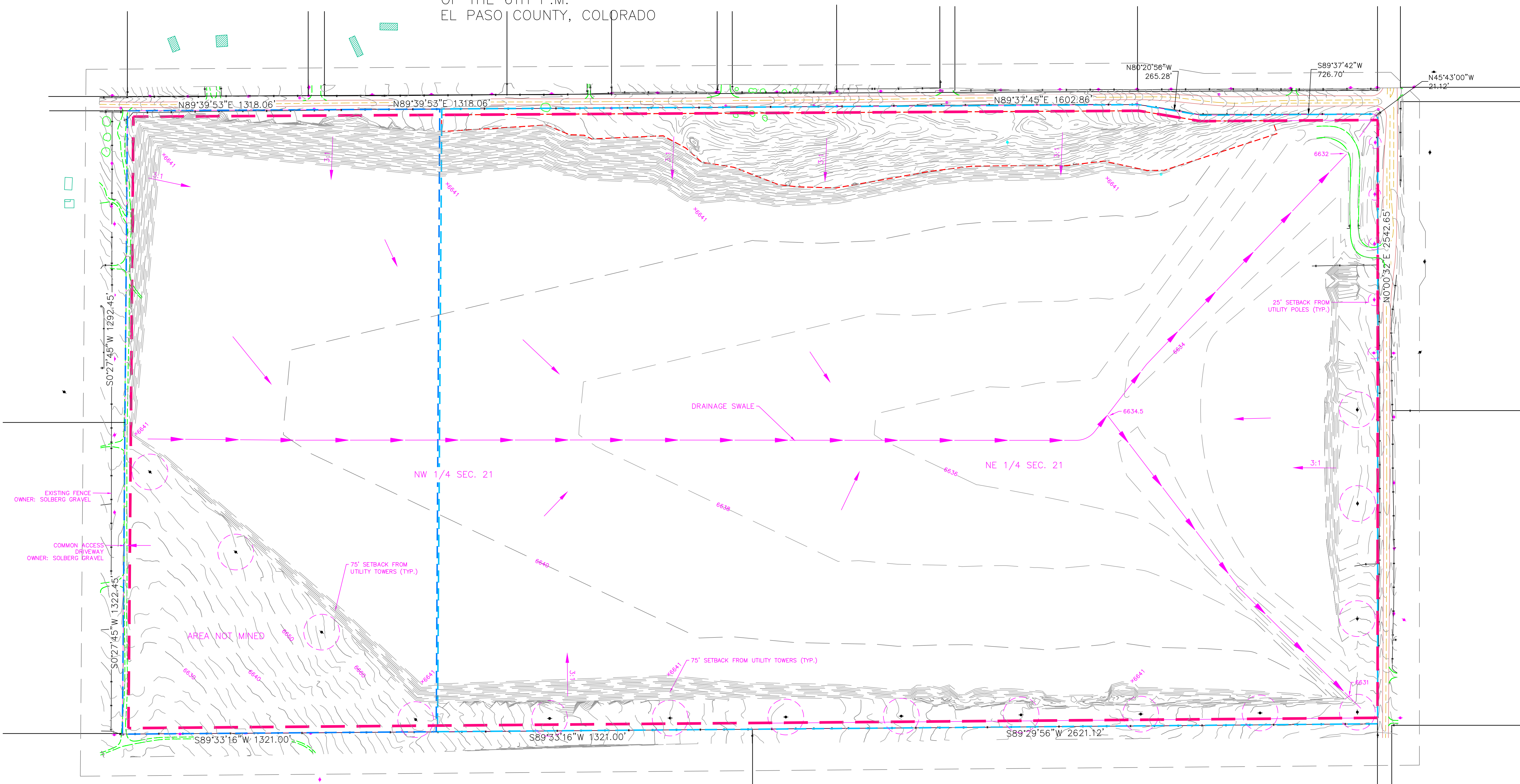
Reseeding will use a hydroseeder. Seeding will occur between October 1 and April 30. The reclamation seed mix is consistent with the 2006 reclamation plan. Revegetation will occur using a hydroseeder and hydromulch with a tacifier, eliminating the need for straw mulch and crimping equipment.

To address the potential for erosion during reclamation, contour furrows will be shaped into the slope at 30 vertical foot intervals down the face of the slope, perpendicular to the slope. The contour furrows will be approximately 20 ft. long and spaced approximately 50 ft. apart.

The reclaimed slopes will be monitored regularly for vegetation success or erosion impacts. Additional erosion control measures will be implemented if necessary. Weed control will be performed if the weed density inhibits the establishment of grasses or if noxious weeds appear in the reclaimed area.

6.4.6 Exhibit F
Reclamation Plan Map

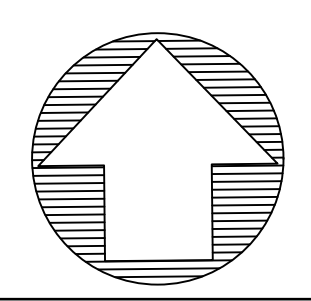
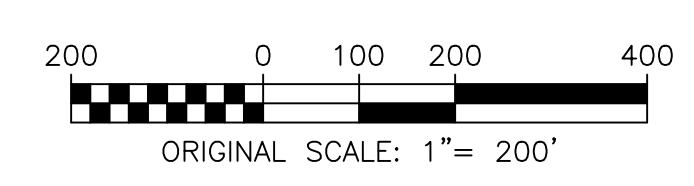
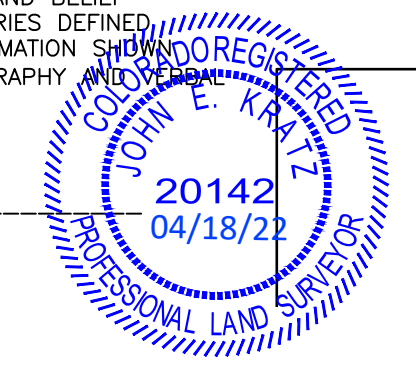
EXHIBIT F
RECLAMATION PLAN MAP - SOLBERG PIT
 SECTION 21, TOWNSHIP 13 SOUTH, RANGE 64 WEST
 OF THE 6TH P.M.
 EL PASO COUNTY, COLORADO



--- - CURRENT PERMIT BOUNDARY (234 ACRES)
--- - PROPOSED AMENDMENT BOUNDARY (79 ACRES)
--- - AFFECTED AREA BOUNDARY (306 ACRES)
--- - PREVIOUSLY RECLAIMED
--- - EXISTING FENCE
● - TRANSMISSION POLES (NEXTERA ENERGY)
● - DISTRIBUTION POLES (MOUNTAIN VALLEY ELECTRIC)

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John E. Kratz



REVISIONS	
NO.	DATE
3	11/09/21
4	11/10/21
5	02/15/22
6	02/23/22
7	4/8/22

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 1" = 200'
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	FIRE
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	IRRIGATION
	MAILBOX
	TREE
	TRAFFIC
	RIP-RAP
	POLE-ANCHOR

PREPARED FOR: PIONEER LANDSCAPING MATERIALS, INC.
 RECLAMATION PLAN MAP
 SOLBERG GRAVEL, LLC
 13745 GARRETT ROAD
 PEYTON, CO 80831