

MINING RECLAMATION & CLOSURE PLAN

-FOR-

TURNER WAY NORTH

AGGREGATE MINE

BUCKEYE, AZ

Located at:

TARTESSO EAST – VILLAGE 7, BUCKEYE, AZ

N. LIBERTY PARKER POWER ROAD AND W. MCDOWELL ROAD
(PORTION OF APN: 504-06-010D)

Prepared For:

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ATTN: Sam Schippers

Prepared by:



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May 16th, 2023

Vespro Project No. 21015

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- Exhibit 5 Post-Mine Land Use Plan

1. Administrative Information

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Property Owner (Lessor):

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2. Introduction

2.1 Purpose of Report

Vespro prepared this Reclamation and Closure Plan on behalf of Custom Landscape Materials, LLC, referred to as the "Operator." The Operator has entered into an agreement with Buckeye Tartesso, LLC, referred to as the "Owner," to conduct temporary aggregate mining by excavating four rock outcroppings. The mining operation, known as the "Turner Way North Aggregate Mine" (T-2), is situated on approximately 127 acres of undeveloped desert land in a rural area west of the White Tank Mountains. The T-2 mine site operates within a portion of parcel APN 504-06-010D, which is part of the "Tartesso East" Master Planned Community and the City of Buckeye's Community Master Plan (CMP), covering 4,343 acres.

The purpose of the T-2 mine site is to extract hard rock as a local source of aggregate material for land development until the removal of the rock outcroppings to a post-mining condition. Operations are expected to commence in October 2023 and continue for 7 to 10 years, depending on market demand. This report primarily focuses on describing the reclamation procedures for the site after the mining operation ceases. The Operator assumes responsibility for this Reclamation Plan, as indicated in the signed Statement of Responsibility included in Appendix A.

This report adheres to local and state guidelines and regulations governing land use for aggregate mining operations. It complies with applicable sections of the Arizona Revised Statutes [A.R.S.] § 27-1271 et seq. (Articles 6 & 7) and the Arizona Administrative Code [AAC] Title 11, Chapters 1 & 2.



Figure 1 State Location Map

2.2 Site Location & Description

Figure 2 shows the vicinity of the mine site on a USGS map. This mine site area is approximately 127 acres of undeveloped desert land in Sections 35 & 26, T2N, R4W of the Gila and Salt River Base and Meridian in Maricopa County, Arizona. The area is within a Master Planned Community on the City of Buckeye General Plan with a zoning designation of Planned Community (PC), and a Community Master Plan (CMP) overlay of Tartesso, as shown on City of Buckeye's General Plan., per a separate private contract agreement with Buckeye Tartesso, LLC, the owner of Assessor's Parcel Number (APN) 504-06-010D. This parcel is part of Tartesso's Eastern development, currently consisting of undeveloped desert land.

2.3 Existing Site Conditions and Topography

The mine site is located within a Community Master Planned (CMP) component of the Tartesso East development, within the City of Buckeye, in Maricopa County, Arizona. This parcel of land is situated in an undeveloped desert area; bound by the White Tank Mountains, to the east; by State Trust Land, west of Turner Road and south of McDowell Road, with private land to the north. Exhibit 1 Existing Conditions Map shows a topographic map of the site and the mine site boundary, in the back of the report.

2.4 Wildlife Habitat and Vegetation Character

A biological survey was completed by Himes Consulting for this site to review the wildlife habitat and vegetation characteristic of this site. This mine site area is determined to be outside of all native wildlife habitats for endangered species, as shown on Figure 2 Vicinity Map by the Arizona Game and Fish Department (AGFD). There are no wildlife habitat species shown within the mine site area, but does occur within a broad radius buffer zone surrounding the mine site

location, that was input on the Arizona Game and Fish department IPAC website, as follows:

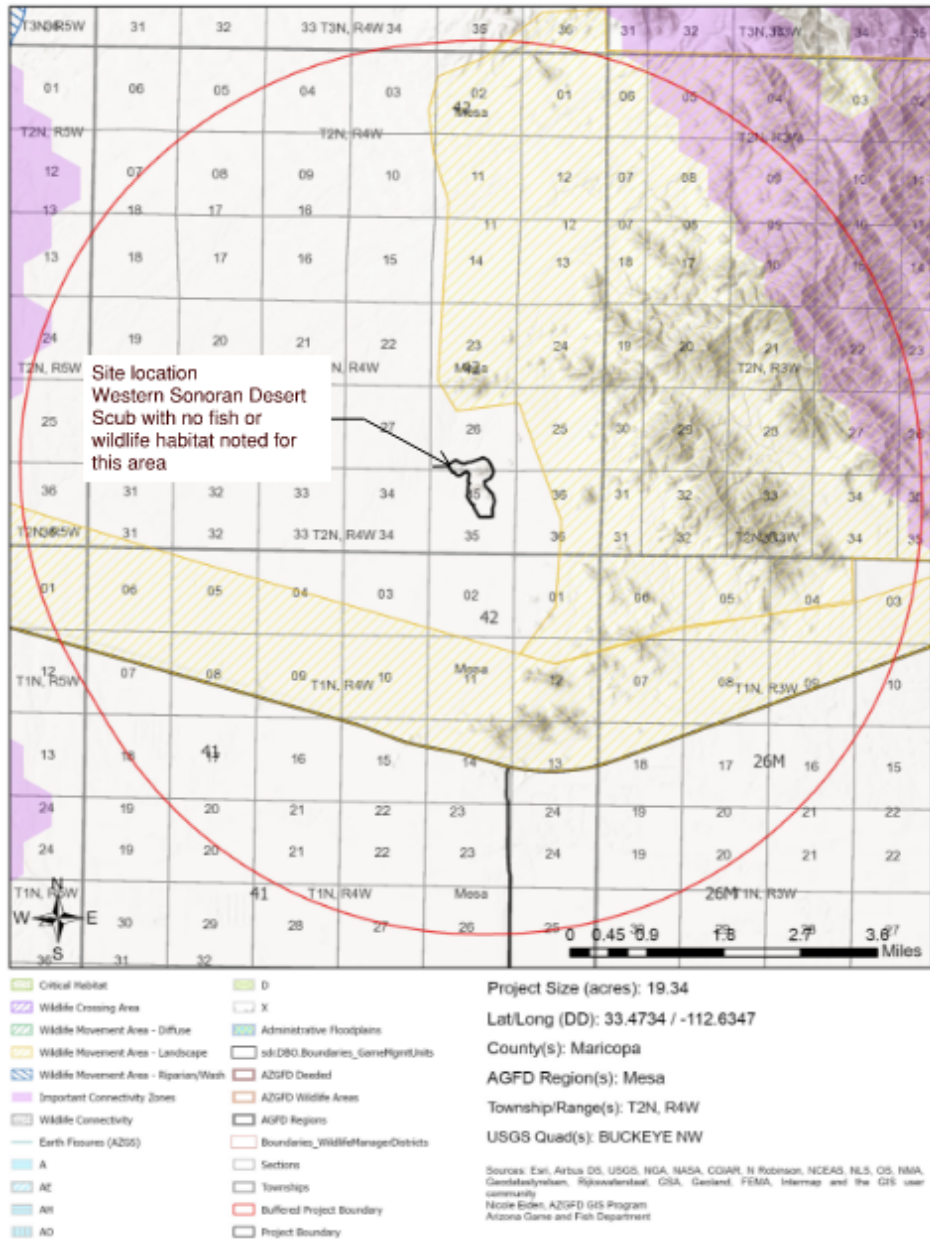


Figure 2 Vicinity Map

Vegetation & Habitat: The project site is located in an area within the Lower Colorado River Subdivision of the Sonoran Desert scrub vegetation community (Brown 1994). Ms. Jill Himes conducted a site visit of the project area on August 31, 2022. Vegetation within the project site is characterized by

creosotebush (*Larrea tridentata*), with paloverde (*Cercidium microphyllum*), ironwood (*Olneya tesota*), brittlebush (*Encelia farinosa*), triangle-leaf bursage (*Ambrosia deltoidea*), white ratany (*Krameria bicolor*), Mormon tea (*Ephedra* sp.), and big galleta grass (*Pleuraphis rigida*). Cacti and succulents observed include barrel cactus (*Ferocactus wislenzii*), saguaro (*Carnegiea gigantea*), hedgehog cactus (*Echinocereus* sp.), teddy bear cholla (*Cylindropuntia bigelovii*), buckhorn cholla (*Cylindropuntia acanthocarpa*) and ocotillo (*Fouquieria splendens*)¹

The site is located with Arizona Game and Fish Department (AGFD)'s Game Management Unit 42. Species in this unit may include javelina, mule deer, dove, quail, waterfowl, and mountain lion. Wildlife and/or wildlife sign observed in the project vicinity include mourning dove (*Zenaida macroura*), black-throated sparrows (*Amphispiza bilineata*), black-tailed gnatcatcher (*Polioptila melanura*), lesser goldfinch (*Spinus psaltria*), lesser nighthawk (*Chordeiles acutipennis*), red-tailed hawk (*Buteo jamaicensis*), desert cottontail (*Sylvilagus auduboni*), desert woodrat (*Neotoma albigula*), coyote (*Canis latrans*), common side-blotched lizard (*Uta stansburiana*), and western whiptail (*Aspidoscelis tigris*).²

¹ 2022 T-2 Material Source Biological Evaluation, by Jill Himes Consulting, LLC

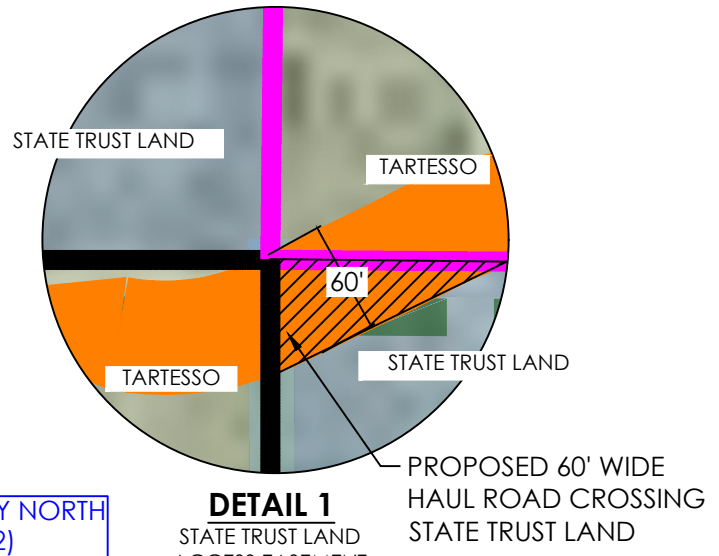
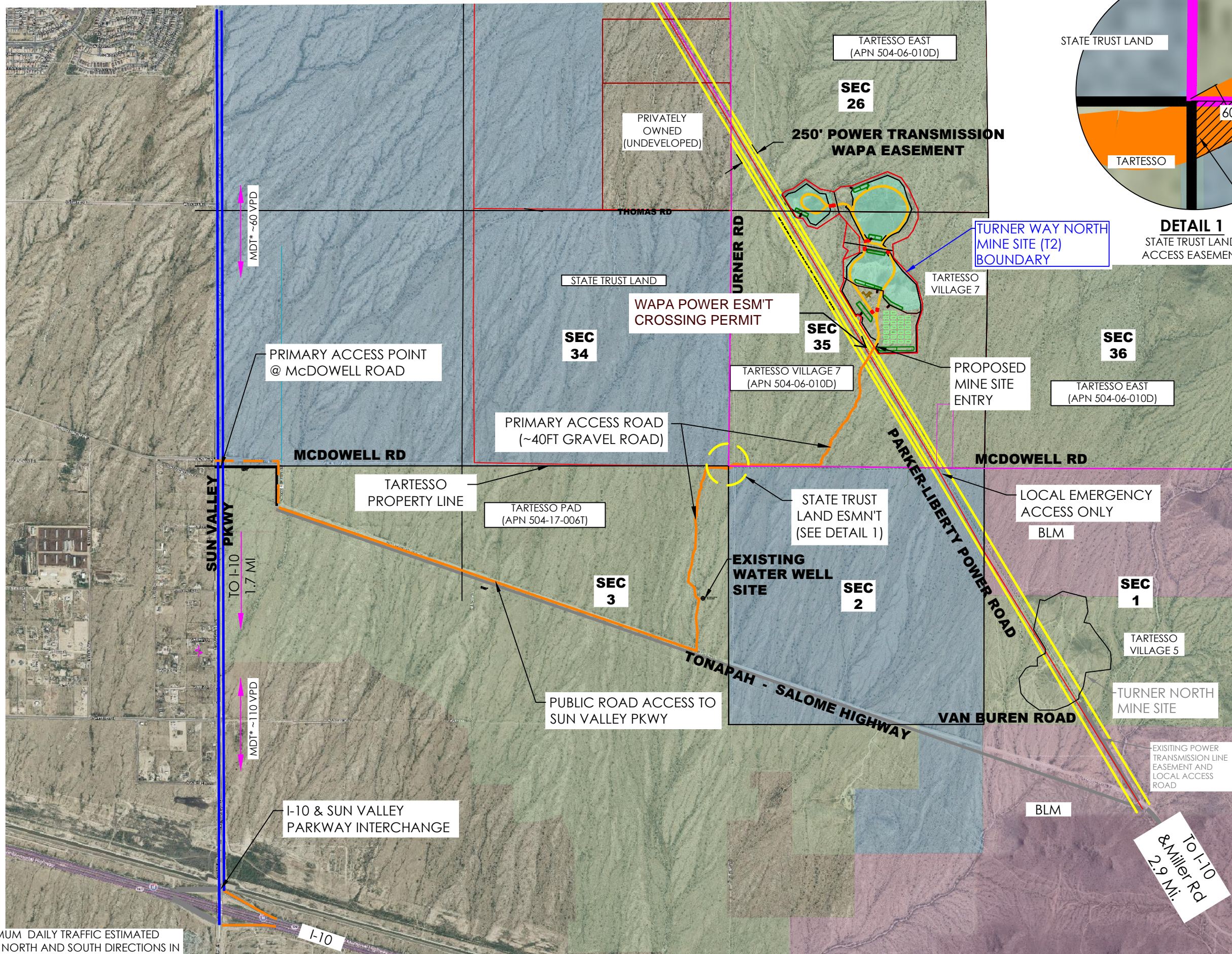
² 2022 T-2 Material Source Biological Evaluation, by Jill Himes Consulting, LLC

Details of this site's current condition are described in Table-1.

Table-1: Current Site Conditions

Description	Condition
Current use of Property	The Property currently consists of vacant desert land with high power transmission lines running along the southwest boundary of the site, along Liberty Parker Power Road trending southeast to northwest, along the west border of the site.
Evidence of past use of Property	No past uses were observed onsite.
General description of Property Structures	No structures are present on the site.
Physical setting of Property	Four rock outcroppings that extend from 50 feet to 100 feet above an alluvial fan basin flood plain that slopes to the southwest direction away from the base of the White Tank Mountain range to the east of the site.
Current use of adjoining properties	The adjoining properties consist of undeveloped vacant private land.
Evidence of past use of adjoining properties	No past use was evident except for offroad vehicular traffic and a high-power transmission line easement west of the site.
Current land uses in surrounding area	Private undeveloped desert land.
Adjoining Roads (See Figure 3)	The adjoining roads consist of Liberty Parker Power Road within a WAPA easement located along the west boundary of the site, north of McDowell Road and east of Turner Road, with access provided from Tonopah Salome Highway to the south-southeast of the as the closest public access road.
Potable water source	Well site recorded with ADWR, located on Tartesso's property to the southwest of the mine site area. This will primarily be used for onsite dust control.
Solid waste disposal	Currently, there is no Waste Management by the City of Buckeye in the area.
Sewage disposal source	Currently, there is no wastewater disposal system in the area.

Proposed access route to the mine site location is shown in Figure 3.



- LEGEND**
- PROPOSED ACCESS ROUTE
 - PROPERTY LINE
 - SECTION LINE
 - EXISTING DIRT ROAD
 - MINE SITE BOUNDARY
 - TARTESSO CMP
 - STATE TRUST LAND
 - BUREAU OF LAND MANAGEMENT (BLM)

* MAXIMUM DAILY TRAFFIC ESTIMATED FROM NORTH AND SOUTH DIRECTIONS IN VEHICLES PER DAY (VPD)

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 TARTESSO VILLAGE 7, BUCKEYE, AZ
 MINE SITE ACCESS AND LOCATION MAP

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2.5 Site Access

Figure 3 T-2 Access Route & Site Location provides the proposed general layout of the site plan and the primary access route to the mine site. Main access route to the site begins from the nearest paved public roadway at the intersection of Sun Valley Parkway and McDowell Road, approximately 3.4 miles west of the site. The site is accessed via McDowell Rd. using Tonopah-Salome Hwy, through 289th Ave.

The access route crosses a small portion of State Trust Land at the northwest corner of Section 2, as depicted in Figure 3. To enable commercial and emergency vehicle access to the site, a Right of Entry agreement is being acquired from the State Land Department. In compliance with Maricopa County Air Quality Department requirements, a dust control permit will be obtained, prior to commencing operations, to regulate dust emissions from truck traffic. A full time 4000-gallon water truck will be used for this purpose. The maximum expected number of haul trucks per hour is 9, and these trucks will follow the primary access route from the west, utilizing Sun Valley Parkway and I-10.

For local emergency access, a secondary road is available from the southeast via Parker Liberty Power Rd, which is situated within a utility corridor easement designated for power transmission mains. This road is restricted to local traffic only and will not be used for commercial access to the mine site. It also serves as an access route for privately owned land, requiring crossings over BLM and State Trust Land territory. Parker Liberty Power Rd connects to W. Tonopah/Salome Hwy approximately 1.76 miles south of the site and continues southeast for about 1.75 miles on BLM land, ultimately reaching the I-10 access ramps at Miller Rd.

2.6 Proposed Mining Operation Equipment

All mining work will be performed with portable equipment that is brought to the site to process hard rock material into aggregate products. This requires several pieces of heavy equipment, both stationary and mobile, with lighter accessory pieces to be moved to the site. These pieces of equipment are essential for operations and include the following:

Accessory structures and equipment:

- Portable office building (10x15 steel shell)
- Portable truck scale
- 15 KW Generator/Tier 4
- Portable toilet and waste bins (Contracted with local waste company)

Stationary equipment used onsite:

- 30/42 Jaw Crusher
- 200 HP Cone Crusher
- 6x20 Screen
- 7 Conveyors
- Grizzly Feeder (Vibrating)

Mobile mining equipment:

- D-8 Bulldozer
- 4000-gal Water Truck
- Front Loader
- Dump Truck

Drilling equipment may be utilized onsite but supplied and operated by an independent contractor, as required. Assorted shop facilities may include a portable container, mobile mounted generators, and portable sanitary facilities.

2.7 Mine Site Safety

Primary resources to be mined at this facility include aggregate of various sizes and uses, boulders and crushed rock. For site security and safety, a 4-foot berm, shown on Detail 1 of Exhibit 3, will be created around the active mining areas, as the site is cleared and grubbed, with boulders placed to form a contiguous barrier from offsite access. This berm will serve as a perimeter screen that will safely deter off-road vehicles from entering the site. At dry wash crossings there will be a wire mesh fencing, stretched to suspend one foot above the dry wash channel bottom, to limit access through the dry wash

channel at locations of inflow and outflow, across the perimeter boundary line, between the terminal ends of the berms. Signs will be clearly placed at locations shown on the final grading and drainage plans, currently being reviewed by the City of Buckeye. This will create a closed and secure system that will encompass the entire site. Security guards will be posted onsite with security cameras to monitor the site during after-hours.

As the active mining operation expands, usually limited to five-acre areas that are temporarily maintained against erosion within a movable berm boulder barrier (which may include large boulders closely positioned ranging about 2 to 3 feet in diameter,) will be placed throughout the operation to restrict access to this site, and a secured access gate with a heavy lock at the points of ingress/egress to the operation. Safety signage will be securely posted, as required by local authority, at points of public access and within a spacing of 50 to 100 feet in areas of hazardous conditions (i.e., along cut slopes, vertical drops greater than 10 feet and ingress/egress locations). These will identify the site as a private aggregate mining operation with warnings against trespassing.

3. Reclamation Measures for Post Mine Land Use

The general overview of this approach, regarding the intent of A.R.S 27-1271 (11) is as follows:

Statutes and rules can be interpreted relative to proposed mining activity, based on a mine's location and environmental situation. This mine site is located within Village 7 of the Tartesso CMP, in the City of Buckeye, shown as an overlay on Exhibit 5 Post Mine Land Use Plan. The property owner intends to develop the four areas of active mining operations, labelled as Areas A, B, C, & D, into Open Space areas. The lower staging and storage yard area, labelled as Area Y, will be primarily developed as medium density residential land uses, as shown on the attached Exhibit 5.

Any restrictions to public access to preserve permanent or interim features of this site will remain in place until the Tartesso development occurs and will be maintained by the Owner of the property. The site will be restricted from public access as deemed appropriate by the Owner of the property and any other jurisdictional agencies.

Overburden stockpiles will be removed by blending the remaining material with the surrounding landscape. Promotion of revegetation will be accomplished by scarifying fill slopes and haul roads, that will not continue to be used, and

creating rounded transition areas. These methods will continue to reduce erosive potential by following Best Management Practices (BMP). Hydroseeding will temporarily control erosion and retain fine materials on the aggregate surface until native plant species are re-established. A variety of local plant species will be selected depending on the season. The hydroseeding will be evenly distributed over the open space disturbed areas, shown in Exhibit 5 to sustain the post-mining condition until the final land development begins. The Owner is responsible for maintaining all reclamation efforts, including erosion control, sediment basin maintenance, vegetation stability, and protection of downstream areas upon the fulfillment of the contract agreement.

Rock cuts may be backfilled with terraced benches every 10 feet vertically to prevent erosion and direct rainfall runoff into sedimentation basins. The Operator must submit and maintain an Erosion Control Plan or Stormwater Pollution Prevention Plan (SWPPP) to ADEQ when disturbing more than one acre of land. Haul road areas will be scarified and covered to promote natural grass growth unless they serve as temporary access roads.

Mining operations will progress in small phases with separate safe zones for excavation, processing, and stockpiling, away from haul road areas. The final reclaimed surface will consist of crushed rock aggregates, providing erosion protection and dust control.

A contract exists between the Owner (Buckeye Tartesso, LLC) and the Operator (Custom Landscape Materials, LLC) for completing the aggregate mining operation and reclamation suitable for the post-mining land use. The purpose of the mining is not to create a pit but to remove existing hills and create a sloped transition to the existing terrain.

If the Lessee fails to complete the mining activity due to economic conditions or failure to fulfill their obligations, the modified Reclamation Plan specifies the necessary requirements for site closure.

3.1 Earthwork

Worksheets provided in Appendix B were used to develop the earthwork reclamation costs associated with grading the site surface to a safe and stable state, in event of early cessation of the mining activity, as defined Under AAC R-3-209. As the mining operation progresses the mine face is exposed, some stockpiles of aggregate may exist (however it is significant to note that any remaining aggregate product will be depleted or distributed evenly, over the finished grade surface, to control erosive conditions, if not sold by the Lessee. Additionally, the Owner would have the right to sell the aggregate or use it for the post mining land use proposed as residential development. Estimates for costs to mobilize, operate, and rent earthmoving equipment, are provided from third party sources, noted on the worksheets. Assumptions required for doing the work to finish grading of this site are also included on the worksheets. There are three conditions that will require regrading to create a reclaimed condition. These conditions occur along the working face of active mining excavation of loose rock, spreading of material stockpiled as site berm boulder barriers, for regrading purposes, and excess material that was stockpiled in six piles, for each gradation product source that is typically processed at the mine site. Assumptions are listed in detail for each condition in Appendix B. An average operator of a D9R Dozer for grading slopes from the longest anticipated 1H:1V rock face of 300 feet, with an average height of 20 feet and a maximum benched height of 30 feet, per OSHA requirements, as a working front, within a work zone, that has a 2H:1V slope. Cost worksheets used to calculate earthwork activity and other ancillary costs included in the estimate shown in Appendix B.

3.2 Removal of Equipment / Facilities

Appendix B also provides the estimated cost of removal of equipment from the site, based on using RS MEANS cost estimating guide for local labor and equipment costs. Labor costs are based on the 2023 national average and adjusted for the Metro Phoenix area.

The Lessee will not abandon any mining equipment, considering its value, and if the equipment was abandoned by the Lessee, then the Lessor/Owner would seize the equipment. Appendix B-2 includes the estimated cost to remove all the mining equipment and structures from the site using a crew of 6 with current labor costs and equipment necessary to complete the task, according to RS Means estimated resource. All equipment and stockpiled material will be removed from the site upon closure of the mine.

3.3 Stabilization & Erosion Control

The Lessee, as stated in the Reclamation Plan, will implement an Erosion Control Plan or Storm Water Pollution Prevention Plan (SWPPP) to manage sediment and reduce the potential for erosion. This plan will be in place before and during mining activity, following established Best Management Practices (BMPs) throughout the mining operation. The Operator is responsible for establishing and maintaining these controls during the lifespan of the mine site.

An Erosion Control Plan will be updated as site conditions change and mining progresses between active mining areas. Most SWPPP measures will be implemented over the duration of the mining operation and are required to be maintained and monitored with annual reporting requirements to ADEQ. These methods will help to establish a stabilized surface before the mine site closure. The cost estimate for completing these reclamation measures in the immediate active mining area is provided in Appendix B.

Analysis of existing site drainage identified concentrated flow channels and their runoff patterns, as depicted in Exhibit 2, Mining Unit & Disturbance Plan. The proposed plan accounts for these current runoff conditions and aims to mitigate them, by temporarily storing a portion of stormwater runoff using a combination of first flush and sediment basins, as a permanent feature associated with the finished grade topography until fully stabilized upland conditions are achieved.

3.4 Finished Topography

(The post mining topography is shown in Exhibits 3 & 4)

The post mining land use is anticipated to be single family, medium density, residential homes in the lower yard area situated south the four hills being removed. Finished grades are shown on the Mining Reclamation Plan included in Exhibit 3 and appropriate cross sections shown in Exhibit 4 through each of the mined areas of disturbance. All retention basins are designed to capture the first flush runoff, with an additional 50% volume to allow for maintenance of sedimentation that accumulates over time. First flush basins are designed to discharge at rates that are less than historic runoff flow conditions via an overflow weir at natural discharge locations. The overall runoff coefficient for post mining conditions is reduced by two mechanisms. The first is by reducing the runoff coefficient with the reduction in the steeper slopes formed from the

outcroppings to grades below 5%. The second is by attenuating peak flows through proposed basin volumes located at the base of each mine area, labeled as Areas A, B, C, & D on the Mine Reclamation Plan as Exhibit 3. Permanent basins will remain in place until the site is stabilized without further need for these improvements, as the area is developed by the Owner per the master development plan for Tartesso East.

3.5 Timeline / Schedule for Operation and Reclamation

The scheduled start of the Turner Way North Aggregate Mining operation is October 2023, with a projected duration of 7 to 10 years. However, the actual timeline for completing the contractual agreement with the owner depends on product demand, resulting in a range of time due to market variability.

As mentioned earlier, the unique nature of this mining operation involves reclaiming the site progressively as mining activity continues in five-acre increments. The final reclaimed cover consists of various sizes of aggregate rock, which make up the mining surfaces. Temporary and/or permanent BMP methods will be applied in each area to implement SWPPP controls and reclaim the area before moving on to the next expansion area. This isolated approach will continue within each excavation area, and by the time equipment is removed, most of the disturbed surface will be stabilized, with natural desert vegetation taking hold within six months to a year after the mine site ceases operations. The remaining rock mulch will be left in a scarified state, allowing natural vegetation to grow in the finer material that fills the gaps between larger aggregate pieces. Previous mine sites have successfully used this suggested gradation scheme in a variety of arid desert climates and is an established method used by ADOT for sloped desert terrain. Once all mining-related equipment is removed, final stabilization and reclamation will be in place, complying with multiple post-mining requirements completed within 1 to 2 growing seasons. This is possible since the active mine site was managed within areas of less than 5 acres.

The reclamation requirements described in the attached plan will be followed as a minimum standard. Demobilization to remove any remaining equipment will occur after all work is completed, and no additional site work or reclamation procedures are anticipated following final demobilization. The mining operation will be considered complete once all mine equipment is removed from the site, leaving a finished graded surface that satisfies the Owner's post-mining land use requirement and meets all jurisdictional agency requirements.

To ensure effective site closure, all applicable permanent BMPs will be implemented once final soil stabilization is established, typically within 4 to 6 months of the mining activity's termination, which is expected to be near the end of December 2028. Reclamation activity will cease by January 2029.

3.6 Post-Mining Land Use

Exhibit 5 Post-mining land use that falls within the mine site area is based in the 2nd Amendment of the CMP for Tartesso East, that was approved by the City of Buckeye. Current planning for multiple post-mine land use areas are as medium density residential homes, parks, and open space areas. Areas labelled as open space areas are designated for hard rock extraction at each of four elevated outcroppings, in Areas A, B, C, & D. Area Y is located at a lower elevation and is within a flood plain designated by FEMA as Shaded and Unshaded Flood Zone X. No offsite flows enter the site and all areas of onsite runoff are treated for first flush prior to discharge into the natural stream system. This Yard area will be primarily used and maintained for equipment staging, portable sales office, waste service containers, portable sanitary waste facilities, and temporary stockpiles of processed rock materials. This area requires a flood plain use permit from Flood Control District of Maricopa County (FCDMC) for the duration of operations. This Yard area will be reclaimed by re-grading the site to historic conditions with rock aggregate as cover material to historic drainage conditions. The post mining land conditions will meet the contractual obligations, stated in the agreement the Mine site operator has with the Owner of the land, during the interim prior to planned development per the established Community Master Plan Amendment #4 and any other jurisdictional agency requirements necessary for closure of this mine site.

3.7 Reclamation Summary

The proposed mining activity is unique with respect to its setting and conditions, as shown in Exhibit 1, and it is reasonable that the intent of ARS 27-1271(11) be interpreted and applied in view of its unique setting and conditions. In particular, the land is private, the Lessee and Owner (Lessor) have an agreement in place to complete the project. If the Lessee fails to complete the mining activity due to economic conditions or failure to fulfill their obligations, this Reclamation and Closure Plan specifies the necessary requirements for the termination of mining activity that meets the State's requirements.

In the event that the mine site operator does not finish the mining activity or the Reclamation and Closure Plan, this document identifies the associated reclamation costs for a third party to complete closure to a safe and stable condition. In such an event a bond will be provided as identified in this Reclamation Plan. The Lessee has identified the reclamation cost for such an event given a five-year additional index cost to account for inflation based on the Consumer Price Index, as summarized in Appendix C Reclamation Bonds Summary Worksheet. The grand total bond amount is **\$334,080**.

*(The Statement of Responsibility is provided in **Appendix A**)*

4. References

1. Arizona State Mine Inspector, Aggregate Mining Unit Reclamation Plan Guidelines, Division of Mined Land Reclamation, August 2007.
2. Bureau of Land Management, Arizona State Office, *Arizona Mining Permitting Guide, 1st Edition*, May 2011
3. Caterpillar Performance Handbook, 50th edition, June 2022
- 4 Tartesso Master Planned Community, 4th Amendment CMP, 2023
- 5 Arizona Revised Statutes, 2023
- 6 2022 T-2 Material Source Biological Evaluation, by Jill Himes Consulting, LLC

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Appendix A
Reclamation Statement of Responsibility

Appendix B
Reclamation Cost Estimates and References

B-1 Site Characterization T-2 TURNER WAY NORTH AGGREGATE MINE SITE
Aggregate Mine Reclamation Data Worksheet

Parcel Area:	189,200,375 SF	4,343 AC	Tartesso East
T2 Mine Site Area:	<u>5,530,894 SF</u>	126.97 AC	Turner Way North
Total Disturbed Area	4,007,520 SF	92 AC	
Total Undisturbed Area	1,523,374 SF	34.97 AC	

Mine Operations (1):	Qty	Units	Reference to a Verified Source
			1) Production rates calculated independently by Client
<u>Hours of operation: (M-F) (2)</u>			
Summer (5am to 3pm)	10 hr/d	8 hr working	Operator Statement
Winter (6am - 4pm)			
<u>Disturbed Area for Mine Operations</u>			
Total Disturbed Area	<u>4,007,520</u> SF	92.00 AC	Measured
Mining Stock Pile Area	757,944 SF	17.40 AC	Measured
Sediment/first flush basin areas	256,133 sf	5.88 AC	Measured
Cut Slope Areas (>5%)	1,084,208 sf	24.89 AC	Measured
Total Disturbed Area for hydroseed/stabilization	2,265,120 sf	52.00 AC	Calculated (OPEN SPACE POST MINE USE)
Processing and yard areas	136,265 SF	3.13 AC	Measured
Permanent Onsite Haul Road)	318,880 SF	7.32 AC	Additional scarification and reseeded
<u>Estimated Annual Rate of Production (ARP):</u>			
Adjusted Total Volume produced (87% usable)	1,999,607	CY (CUT)	2,325,125 (See MUD PLANS)
Total Weight of Excavation	3,999,215	Tons	~2 TON/CY
Average mining rate	2320 Ton/d		290 tons per hr
& Sales Rate (Wholesale)	30 KTon/mon		18 tons per truck load
Transport from site	8 trucks/hour max		144 tons / hr
			tons/hr of excess material stockpiled
Daily production out	1,152 ton/day		146 TOTAL (MAX OUT)
Full productionj	605,520 Ton/yr		50,460 ton/month
Estimated Duration	6.60 Yr		
			start finish work days
			10/15/2023 5/21/2030 1722
Yeilds=>	3,995,040	tons processed	100% complete

B-2 Onsite Mining Equipment Removal

Estimate for Removal

Equip ID	<u>Stationary Equipment (1) (Heavy)</u>	<u>Mob/ demob (1)</u>	<u>Labor hrs to remove items (hr)</u>
1	• 30/42 Jaw Crusher	\$1,796.50	4
2	• 200 HP Cone Crusher	\$1,796.50	4
3	• Grizzly Feeder (Vibrating)	\$1,796.50	4
4	• 8x20 Screen	\$1,796.50	4
5	• 7 Conveyors	\$1,796.50	4
	Subtotal	\$8,982.50	
	<u>Accessory Structures (light)</u>	\$1,268.00	4
6	• Portable Office/Scale House	\$1,268.00	4
7	• Portable Scale	\$1,268.00	4
8	• C15 Generator	\$3,804.00	32
	Subtotal	\$3,804.00	
	<u>Mobile Grading Equipment (heavy) (2)</u>	\$834	
A	• D-8 Bulldozer	\$125	
B	• 4000 gal Water Truck	\$2,136	
C	• Front Loader X 3 (Cat 980H)	\$250	
D	• Dump Truck 45 ton		
	Subtotal	\$3,345	
	Total removal cost	\$16,132	

Cost Analysis (1)

6 man crew 4 hours per piece

Equipment Removal (Light)	Labor & Equipment	Crew A3D
	\$81 per hr labor	Crew A3D
	\$47 per laborer	RS MEANS
	\$317 per hr (equip driver and 5 laborers)	
	\$2,536 per day Light	
(Heavy)		
	\$212.88 per hr heavy	Crew A3F
	\$449.13 per hr (include 5 laborers)	

RS MEANS Labor and Equipment

Crew A-3D	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Truck Driver (light)	\$38.05	\$304.40	\$62.15	\$497.20	\$38.05	\$62.15
1 Pickup Truck, 4x4, 3/4 Ton		191.73		210.90		
1 Flatbed Trailer, 25 Ton		150.61		165.67	42.79	47.07
8 L.H., Daily Totals		\$646.74		\$873.77	\$80.84	\$109.22

Crew A-3F	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (crane)	\$46.40	\$371.20	\$75.55	\$604.40	\$42.63	\$69.50
1 Truck Driver (heavy)	38.85	310.80	63.45	507.60		
1 Pickup Truck, 4x4, 3/4 Ton		191.73		210.90		
1 Truck Tractor, 6x4, 380 H.P.		545.98		600.58		
1 Lowbed Trailer, 75 Ton		283.47		311.82	63.82	70.21
16 L.H., Daily Totals		\$1703.18		\$2235.30	\$106.45	\$139.71

Third-Party Sources:

1) Labor assumed a 6 man crew light and heavy duty trailers can remove all stationary equipment within 2 days, or 16 hours time for a lump sum rate broken down using 2023 RS MEANS crew.

2) Estimate received from Empire Equipment Rentals for mobile equipment and RS Means 2022 crew labor for the stationary equipment Phoenix Metropolitan Area

B-3 Reclamation Grading Equipment

<u>Grading Equipment (1)</u>	<u>DAILY RENTAL COST(2)</u>	<u>Hourly Cost (3)</u>	<u>Weekly Rental fees</u>	
			<u>General</u>	<u>Freight costs (2)</u>
· D-8T Bulldozer	\$3,795	\$474.38	\$9,724	\$834
· 4000 gal Water Truck	\$1,007	\$125.88	\$2,580	\$125
· Front Loader X 1 (Cat 966K) Wheel	\$2,193	\$274.13	\$5,961	\$712

(1) Minimum required equipment necessary for reclamation of active mining activity listed in App B-4

(2) Rental Rates and freight charges for reclamation equipment were provided by Empire Equipment Rentals on (8/23/23)

(3) Assumed 8 Hour workdays

Unit Grading Costs

<u>Equip Type ID</u>	<u>Grading Equipment (Unit Rate)</u>	<u>Labor Cost w/ O&M/hr (1)(2)</u>	<u>Hourly Equip Cost</u>	<u>Operating Cost per hour</u>	<u>Approx. Rate of Reclamation Unit/Hr (3)</u>	<u>Cost per unit</u>	<u>RS Means Source</u>
A	· D-8 Bulldozer w/ flat blade (CY)	\$85.98	\$474.38	\$560.36	407.7	\$1.37 \$/CY	Crew B10U
B	· 4000 gal Water Truck (SY)	\$82.85	\$125.88	\$208.73	22,000.0	\$0.01 \$/SY	Crew B-59
C	· Front Loader x1 (Cat 966K) (CY)	\$85.98	\$274.13	\$360.11	495.6	\$0.73 \$/CY	Crew B-10O

(1) Labor costs are based on the RSMEANS crew type specific to the equipment used for each operation

(2) Reference adjusted using the 2022 CPI from the US Bureau of Labor Statistics.

(3) Refer to Reclamation Activity calculation sheet in Appendix B-4 and B-5 for Approximated Rates of Reclamation

B-4 Reclamation Activity

	<u>Total disturbed open space area (2)</u>	<u>Unit Cost</u>	<u>Total</u>	<u>Source</u>
Hydro seeding Open Space Disturbed Areas (1)	52.00 ac	\$3,500.00 /acre	\$182,000	VESPRO (1)

(1) 2022 ADOT Bid Tab for Type II hydroseed application to the post mine land use as open space in disturbed areas

(2) See Exhibit 5 Post Mine Land Use Plan for open space areas overlaid within the Mine Site

Scenario A

Reclamation grading of the active excavation zone [from a (1H:1V) rock face to (2H:1V) slope]

Volume estimated from difference between Slope 1 (1H:1V) and Slope 2 (2H:1V) given the following conditions: (spreading material from the top down)

Working face height= 30 feet
 Maximun working width= 300 feet

Based on actively mine operations managed in 5 acre segments as the mine site develops, at any giiven time. This preferred BMP method is the active mining area.

Volume output using CAD comparing difference between surfaces for Slope 1 & Slope 2:

Base Surface	SLOPE 1	1H:1V slope
Finished Surface	SLOPE 2	2H:1V slope
Cut Factor		1
Fill Factor		1
Cut volume (adjusted)		0 Cu. Yd.
Fill volume (adjusted)		1667 Cu. Yd.
Net volume (adjusted)		1667 Cu. Yd.<Fill>

Standard CAT D9 bulldozer with a flat blade top spread the remainining rock material at a rate of =>

408 CY/Hour (1) Equip A APP B-3

Daily production rate: 3262 CY/Day (8 hour)

Actual time required to finish grading of active mining area frontage from Slope 1 to Slope 2	4 hours
---	---------

\$2,290.48 Cost to reduce slope within excavation Area

Berm Volume (4 ft high) 1:1	
4	ft top width
12	Bottom width
32	cf/ft of berm
1.2	CY/ft berm

12500 If of berm total

14820 CY of berm total

(1) See B-5 Grading Equipment Production Estimate

(2) Time to complete volume remaining in active mine area

Scenario B

Regrading Stockpile Area (Y2) to predeveloped condition:

Assume 8" of fill required for finished grade over lower stockpile area Y	26.7 ac
Area of regrading	1163052 sf
Volume of regraded berms - stockpiled cut material	14869 cy of soil stockpiled in berms
Volume of regrading 6 stockpiles and berms	20647 CY of placement

Time to regrade Lower Yard areas (Area Y)	42 hours
---	----------

Labor and O&M cost to spread material \$0.73 \$/hr

Total Labor cost to regrade Lower Area Y \$15,002.03 to regrade the stockpile area not incl rental costs

Total site berm volume:

Stock Pile Volume:	
20	ft height (1:1)
50	ft square base
10	ft top width
26000	cf of material per stockpile
963	cy of material per stockpile
5778	Volume of 6 stockpiles of processed material

See production calculation for Area 2 in Appendix B-5

Scenario C

Reclaim haul roads by scarification using 16H Grader: (See Grading Worksheet B-5)

7.3 acre of onsite haul roads

10,200 Lf of 40 ft wide haul road
\$371.67 per acre

Total cost to scarify Haul Roads	\$2,721	Cost to scarify roadways
---	----------------	--------------------------

References:

- (1) Inflation (May 2018 to May 2023 Per the Bureau of Labor Statistics web site)
- (2) based on daily rental rates from Empire Equipment (may vary)
- (3) ADOT bid tab items

B-5 Grading Equipment Production

D9 Dozing Production Description:

Apply a D9 dozer of, Type B dry stiff to loose underfoot rocky soil type, on the Dozing Production Chart

broken rock material from blasting of underl is pushed down for 150 ft max at a max slope of 30% grade

Average skilled operator with efficiency of 50 min /hr

Wheeled machine efficiency => 0.4

Soil density: 150 lb/cf

4050 lb/cy

40% voids

2430 lb/cy

Production = Max Prod x Correction Factors

Max Production (loose under boot conditions)

425 LCY/hr

Correction Factors

Areas=>

1

2

Hard-dry rock material			0.7	0.8
Grade correction (from graph)			1.6	1
Average operator			0.75	0.75
Job efficiency (50 min/hr)			0.83	0.83
Weight correction (2460/2650)			0.92	0.75

1) Active Mining Area:

Total

0.96

0.83

Production Rate=

0.96 X

425

=

408 LCY/hr

2) Stockpile Area:

Production Rate=

0.83 X

600

=

496 LCY/hr

Labor Cost

RSMEANS crew B10M

0.5 Labor

47.25

1 equip operator

63.05

Total Labor

87 \$/hr

Crew B-10M	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equip. Oper. (medium)	\$63.05	\$504.40	\$93.80	\$750.40	\$57.78	\$85.98
.5 Laborer	47.25	189.00	70.35	281.40		
1 Dozer, 300 H.P.		1674.53		1841.98	139.54	153.50
12 L.H., Daily Totals		\$2367.93		\$2873.78	\$197.33	\$239.48

Regrade Production Rate: (16H Grader)

(See Caterpillar Handbook V50)

Equipment efficiency:

9.75 Ripper beam (ft)
 2.34 Max speed std. tires (mph)
 6177.6 half speed in (ft/hr)
 0.5 Double pass factor
 3088.8 Effective speed (ft/hr)
 0.9 Effective width of each pass
 30,116 Maximum Area (sf/hr)

Operational Factors:

0.83 work factor (Experience of driver)
 24,996 Hourly Production rate (sf/hr)
200,000 Daily production Rate (sf/day)
4.6 acre/day

Daily Cost \$1,706 (\$/day)

Daily Production Cost \$372 (\$/acre)

2023 RS Means (phoenix metro)

Crew B-11L	Hr.	Daily	Hr.	Daily	Bare Costs	Incl. O&P
1 Equipment Oper. (med.)	\$42.85	\$342.80	\$69.75	\$558.00	\$37.38	\$60.85
1 Laborer	31.90	255.20	51.95	415.60		
1 Grader, 30,000 Lbs.		1108.49		1219.34	69.28	76.21
16 L.H., Daily Totals		\$1706.49		\$2192.94	\$106.66	\$137.06

B-6 RECLAMATION DATA SHEET

(Surface area and volume measurements were created using AutoCAD drawing file:)

Total Mine Site Area: 5,530,895 126.97 ac

Onsite Haul Road Area

Haul road width 40 ft
Total Length 10,200 ft

Total Mine Disturbed Area

Area ID	Disturbed area (sf)	(ac)	Slope Area (>5%) sf	(ac)	Area <5% (sf)	(ac)
A	488,371	11.21	142,006	3.26	346,366	7.95
B	654,146	15.02	55,321	1.27	598,825	13.75
C	1,183,413	27.17	501,811	11.52	681,602	15.65
D	517,703	11.88	385,070	8.84	132,633	3.04
Y	1,164,117	26.72	0	0.00	1,164,117	26.72
Totals	4,007,751	92.01	1,084,208	24.89	2,923,543	67.12

Haul Road (ft)	sf	ac
Phase 1	211760	4.86
Phase 2	107120	2.46
Phase 3	80320	1.84
Total Haul ro	318,880	7.32

DESCRIPTION

Volume Analysis

Area ID	Vol Cut (CY)	Vol Fill (CY)	Net (CY)
A	356,260	1826.21	354433.73
B	531,930	5,266	526,664
C	1,177,942	1,584	1,176,359
D	256,670	3,871	252,800
Y	34,375	19,506	14,869
Totals	2,357,178	32,053	2,325,125

Notes

Stockpile additional volume of cut for regrading at closure

Note:

1) Values are unadjusted estimates for surface grading to achieve the difference between cut slope and 2:1 fill slope as required by ASMI.

CY


Site Summary

TOTAL Volume : 2,325,125 CY (Cut)
TOTAL HAUL ROAD Area 7.32 acre

Onsite Slope Analysis:

SLOPE >10%	24.89 AC	1,084,208
SLOPE <10%	67.12 AC	2,923,543
TOTAL DISTURBED AREA	92.01 AC	4,007,751

See Drainage Report for Basin Retention Volumes Required

Client	VESPRO	Rental Equipment Quote	8/23/2023	
Contact	BILL FOGELL			
Phone #	480-393-3640			
Location	BUCKEYE			
		http://www.empire-cat.com/rentalterms		

*All quotes are based on availability. This quote is valid for 30 days from the date on this quote.

Rental Sur-Charge		2.60%		REP Charge %		16%		Sales Tax %		Miller Road		9.30%							
Machine #1 CAT 966K/M FC Wheel Loader				Machine #2 CAT 390D L Excavator															
Notes:				Notes:															
Oversized:				Oversized:															
GET/Notes:		Rates		\$2,193.00		\$5,621.00		\$13,709.00		GET/Notes:		Rates		\$5,158.00		\$13,217.00		\$32,237.00	
		REP Charge		\$350.88		\$899.36		\$2,193.44				REP Charge		\$825.28		\$2,114.72		\$5,157.92	
		Hwy. Plt. 3% Fee										Hwy. Plt. 3% Fee							
		Rental Surcharge		\$57.02		\$146.15		\$250.00				Rental Surcharge		\$134.11		\$250.00		\$250.00	
		Sub Total		\$2,600.90		\$6,666.51		\$16,152.44				Sub Total		\$6,117.39		\$15,581.72		\$37,644.92	
		Sales Tax		\$241.88		\$619.99		\$1,502.18				Sales Tax		\$568.92		\$1,449.10		\$3,500.98	
		Total Cost		\$2,842.78		\$7,286.49		\$17,654.62				Total Cost		\$6,686.31		\$17,030.82		\$41,145.90	
Freight:		Delivery		Pickup		Sales Tax		Total Freight		Freight:		Delivery		Pickup		Sales Tax		Total Freight	
Rates:		\$712.00		\$712.00		\$132.43		\$1,556.43		Rates:		\$3,080.00		\$3,080.00		\$572.88		\$6,732.88	
Notes/Fees:		Notes/Fees: ADDITIONAL FEES TOTALING \$7,538.07 FOR UNLOAD/ASSEMBLY, DISASSEMBLY/LOAD AND TRACK ALTERATION																	
Machine #3 Water Truck, 4,000 Gal.				Machine #4 CAT D8T Dozer															
Notes:				Notes:															
Oversized:				Oversized:															
GET/Notes:		Rates		\$1,007.00		\$2,580.00		\$6,292.00		GET/Notes:		Rates		\$3,795.00		\$9,724.00		\$23,717.00	
		REP Charge										REP Charge		\$607.20		\$1,555.84		\$3,794.72	
		Hwy. Plt. 3% Fee		\$30.21		\$77.40		\$188.76				Hwy. Plt. 3% Fee							
		Rental Surcharge		\$26.18		\$67.08		\$163.59				Rental Surcharge		\$98.67		\$250.00		\$250.00	
		Sub Total		\$1,063.39		\$2,724.48		\$6,644.35				Sub Total		\$4,500.87		\$11,529.84		\$27,761.72	
		Sales Tax										Sales Tax		\$418.58		\$1,072.28		\$2,581.84	
		Total Cost		\$1,063.39		\$2,724.48		\$6,644.35				Total Cost		\$4,919.45		\$12,602.12		\$30,343.56	
Freight:		Delivery		Pickup		Sales Tax		Total Freight		Freight:		Delivery		Pickup		Sales Tax		Total Freight	
Rates:		\$125.00		\$125.00				\$250.00		Rates:		\$834.00		\$834.00		\$155.12		\$1,823.12	
Notes/Fees:		Notes/Fees:																	

ALL FREIGHT CHARGES ARE SUBJECT TO CHANGE IF EQUIPMENT REQUIRES ESCORT

TERMS: Unless otherwise agreed in writing by a vice president of Empire Southwest, LLC ("Empire"), the rental of any equipment from Empire will be governed solely by Empire's Rental Terms and Conditions (the "Terms") which are available at www.empire-cat.com/rentalterms or such other successor website at which Empire posts its Terms from time to time. A hard copy of the Terms is available upon written request to terms.conditions@empire-cat.com. The Terms are hereby incorporated by reference into this document. Placing a Rental Order with Empire or accepting rental equipment from Empire constitutes agreement to be bound by the Terms exactly as written.

Empire maintains a wide variety of Caterpillar units and other allied equipment and also has the ability to source equipment from other dealers as needed through re-rent. All units are available for sale, lease/purchase, and short or long term rental. Empire applies up to 100% of lease purchase payments, less interest. Full lube service and fuel contracts are available on all rental units. Empire has the capacity to provide complete or partial onsite lube and fuel service for client-owned units and has a full lube service department with Caterpillar trained technicians. Full service equipment mobilization is available 24 hours a day, 7 days a week from Empire Transport.

- *Rental Equipment Protection (REP) will be charged at 16% of the contract rate if proof of rental equipment insurance is not provided at rental start. Ask your Rental Coordinator if your rental has coverage.
- *Overtime charges are in addition to the amounts listed on this quote, and are based on the rental rate divided by allowed hours. Overtime is anything over 8 hours per day, 40 hours per week, 160 hours per four weeks.
- *Tire damage is billed separately from tire wear.
- *Fuel and Diesel Exhaust Fluid (DEF) - All units leave full and must be returned full. For units returned not full, Empire will charge for fuel or DEF at \$8.00/gal.
- *Rent will be charged for all equipment until a call-off number is obtained by the Client. Call your Rental Coordinator to obtain a call-off number.
- *Client is responsible for all Ground Engaging Tools (G.E.T.) (i.e., teeth, cutting edges), tire wear, damages, abuse, daily lube, and fuel.
- *All quotes are based on availability. This quote is valid for 30 days from the date set forth above.

- *Largest Caterpillar training facility in North America for required technical training
- *Field service provided by both Rental and Field Service Departments
- *Re-Rent Options with other departments and Caterpillar dealers
- *Be the Best Attitude ensures quality service and timely responses
- *Low hour, well-equipped, current model Caterpillar equipment
- *State-of-the art facility to support all services offered

- *EPA Compliant Equipment
- *Complete and timely PM services
- *Best-in-Class Parts Department
- *G.E.T. Inspection and Exchange
- *Operator trainers available
- *Lease Purchase Option available



Mesa Apache Junction Deer Valley Eloy Tucson Flagstaff Yuma Kingman Prescott Thatcher Show Low Buckeye Imperial, CA

Quoted By: Stephanie Frickle Phone: 602-714-0617 Email: Stephanie.Frickle@empire-cat.com

Appendix C
Reclamation Bond Summary Worksheet



C-1 ENGINEER'S ESTIMATE OF PROBABLE CONSTRUCTION COSTS

Turner Way North Aggregate Mine - Reclamation Estimate

DATE: 8/29/2023

Cost Index 1.1936

WORK ACTIVITY	QUANTITY	UNIT	UNIT PRICE	ITEM PRICE
---------------	----------	------	------------	------------

FACILITY AND STRUCTURAL REMOVAL COSTS

Accessory Equipment (Light) (3 peices)	3	Each	\$1,268.00	\$/EA	\$3,804
Mobile Equipment (Heavy) (4 peices)	1	LS	\$3,345.00	\$/EA	\$3,345
Stationary Equipment (heavy) (5 pieces)	5	each	\$1,796.50	\$/EA	\$8,983
*SUBTOTAL =					\$16,140

EARTHMOVING

Cut / Fill (grading of in-place/ stockpiled material)	20,647	CY	\$0.73	\$/CY	\$15,000
Rock Excavation	0	CY	\$24.00	\$/CY	\$0
Fill and scarification of Rock Faces to 2H:1V	1,666	CY	\$1.37	\$/CY	\$2,290
Reclamation of haul roads and low water crossings	7.3	acre	\$371.67	\$/acre	\$2,721
*SUBTOTAL =					\$20,020

LANDSCAPING

Landscape (including irrigation)	0	SF	\$3.00	\$/SF	\$0
Landscape (without irrigation)	0	SF	\$1.80	\$/SF	\$0
*SUBTOTAL =					\$0

SEDIMENT / EROSION CONTROL

Diversion Berms/ Channels	0	LF	\$105.00	\$/LF	\$0
Rip-Rap Stone	0	Ton	\$70.00	\$/Ton	\$0
Temporary Cover (seed, mulch, d.g., etc.) adjusted for slope and channel areas. (Open Space post mine land use areas only)	52	Acres	\$3,500.00	\$/Acre	\$182,000
*SUBTOTAL =					\$182,000

Miscellaneous

Sign removal/placement (average)	12	Each	\$82.00	\$/Sign	\$984
Site monitoring and maintenance	3	Annual	\$700.00		\$2,100
*SUBTOTAL =					\$3,090

*PROJECT TOTAL =	\$221,250
-------------------------	------------------

*Rounded up to the nearest 10.

Cost Index 1.19

*Adjusted total cost	\$264,090
Mob/demob 1.0%	\$2,641
Contingencies 3.0%	\$7,923
Engineering redesign fees 2.5%	\$6,602
Contractor Profit 10.0%	\$26,409
Project Management 10.0%	\$26,409
*Sub Total	\$69,990
*Overall Total	\$334,080

**WORKSHEET 16
 RECLAMATION BOND SUMMARY SHEET**

1.	Total Facility and Structure Removal Costs	\$ 16,140	<u> </u>
2.	Total Earthmoving Costs	\$ 20,020	<u> </u>
3.	Total Revegetation Costs	\$ 182,000	<u> </u>
4.	Total Other Reclamation Activities Costs	\$ 3,090	<u> </u>
5.	Total Direct Costs (sum of Lines 1 through 4)	\$ 221,250	<u> </u>
6.	<u>Inflated Total Direct Costs</u> (Line 5 x inflation factor *)		\$ 264,090
7.	Mobilization/Demobilization (<u>1</u> % of Line 6) (1% to 10% of Line 6)	\$ 2,641	<u> </u>
8.	Contingencies (<u>3</u> % of Line 6) (3% to 5% of Line 6)	\$ 7,923	<u> </u>
9.	Engineering Redesign Fee (<u>2.5</u> % of Line 6) (2.5% to 6% of Line 6)	\$ 6,602	<u> </u>
10.	Contractor Profit/ Overhead (<u>10</u> % of Line 6) (see Graph 1)	\$ 26,409	<u> </u>
11.	Project Management Fee (<u>10</u> % of Line 6) (see Graph 2)	\$ 26,409	<u> </u>
12.	<u>Total Indirect Costs</u> (sum of Lines 7 through 11)		\$ 69,990
13.	GRAND TOTAL BOND AMOUNT (sum of Lines 6 and 12)		\$ 334,080

* Inflation factor = $\frac{\text{ENR Construction Cost Index (CCI) for current mo/yr}}{\text{ENR CCI for mo/yr 5 years prior to current mo/yr}} = \frac{0.01936}{0.0157} = 1.1936\%$

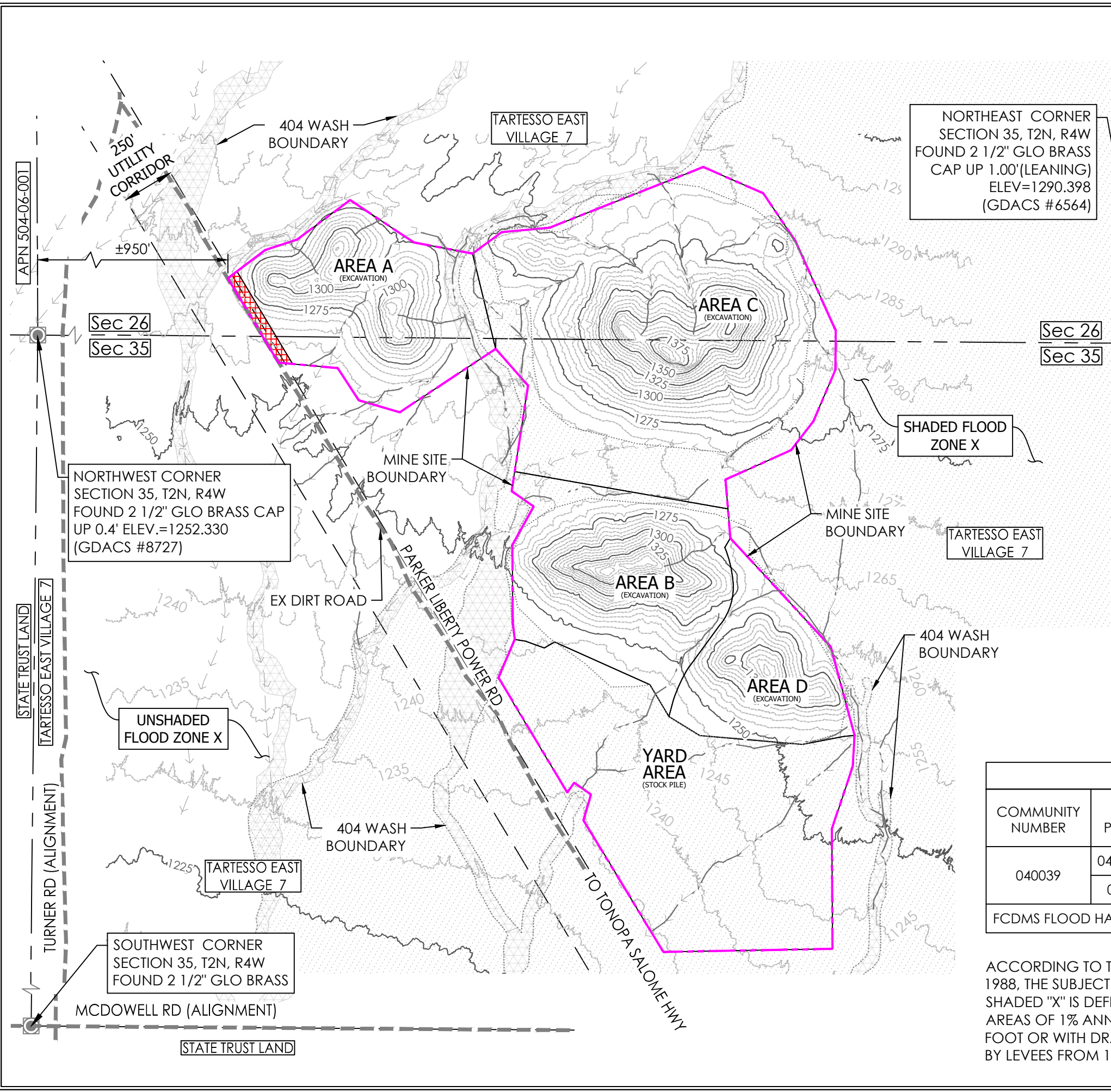
Identify current month/year used in formula above: March 2023
 Identify prior month/year used in formula above: March 2018

ENR = *Engineering News Record*, McGraw-Hill Construction Information Group, New York, NY; <http://www.enr.com>.

Formula assumes permit term or time until next bond adequacy evaluation is 5 years. Adjust timeframe as necessary.

Exhibit 1
Existing Conditions Map

G:\JOBS\21015_T-2\CAD\EXHIBITS\ANSI\ASML_EXHIBIT-A_EXISTING CONDITIONS.DWG 5/16/2023 10:19 PM



NORTHEAST CORNER
SECTION 35, T2N, R4W
FOUND 2 1/2" GLO BRASS
CAP UP 1.00'(LEANING)
ELEV=1290.398
(GDACS #6564)

NORTHWEST CORNER
SECTION 35, T2N, R4W
FOUND 2 1/2" GLO BRASS CAP
UP 0.4' ELEV.=1252.330
(GDACS #8727)

SOUTHWEST CORNER
SECTION 35, T2N, R4W
FOUND 2 1/2" GLO BRASS

APN
APN 504-06-010D

ZONING
EXISTING: PC

PROJECT DATA

TOTAL MINE SITE AREA: 126.97 AC
ESTIMATED DISTURBED AREA: +/- 92 ACRES

CONTOUR INTERVAL =5'

— EXIST. MAJOR CONTOURS
- - - EXIST. MINOR CONTOURS

LEGEND	
	- MINE SITE BOUNDARY
	- EXCAVATION BOUNDARY
	- OFFSITE RUNOFF ROUTING
	- SECTION CORNER
	FLOOD ZONE X
	404 WASH AREA
	NO MINING ACTIVITY AREA



FEMA FLOOD ZONE INFORMATION					
COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
040039	04013C2625M 04/15/1988	L	11/04/2015	X	-NA-

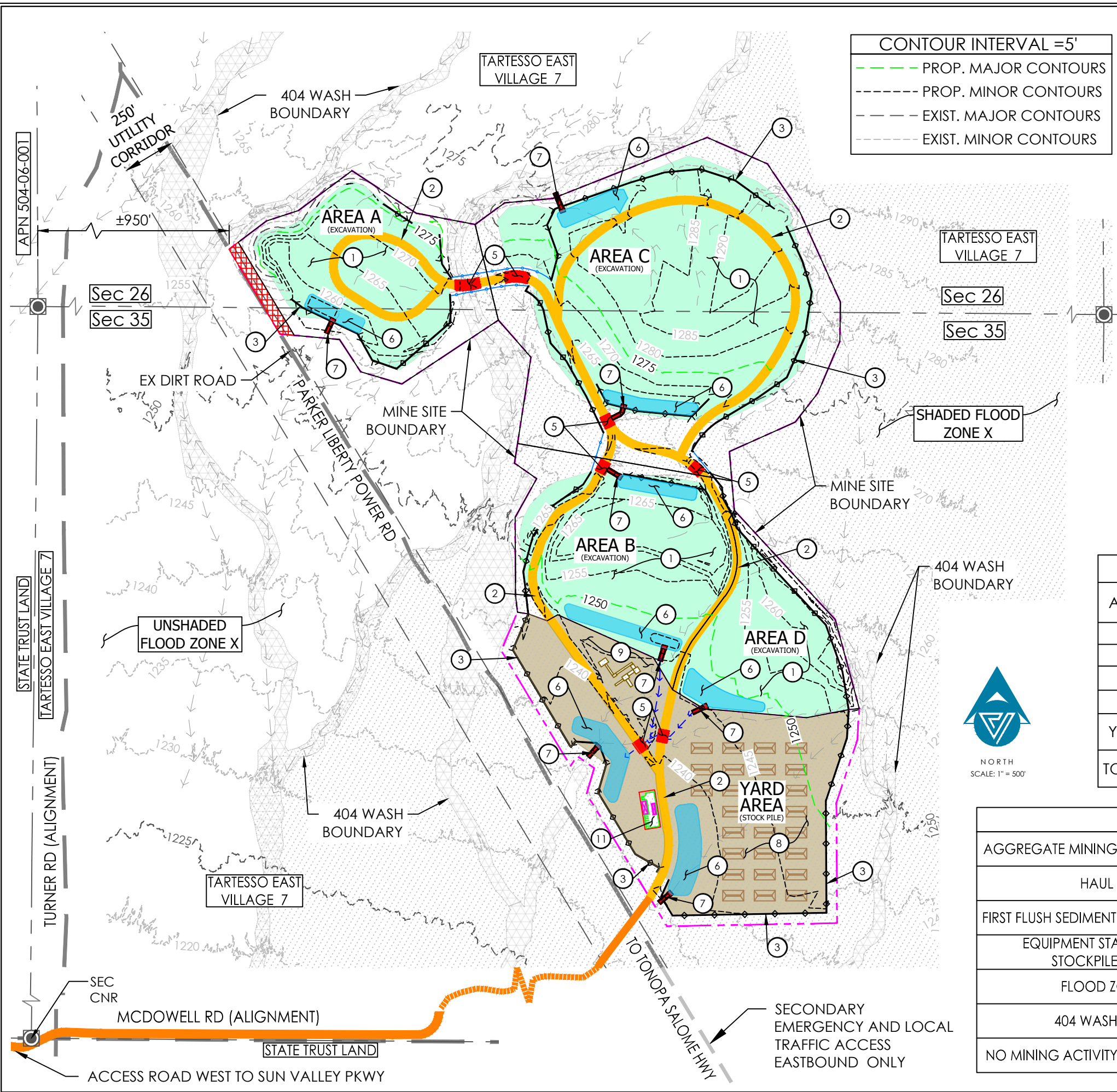
FCDMS FLOOD HAZARD ZONES ARE LISTED UNDER THE SUN VALLEY ADMP

ACCORDING TO THE FLOOD INSURANCE RATE MAP #04013C2625M, DATED APRIL 15, 1988, THE SUBJECT PROPERTY IS LOCATED IN FLOOD ZONE SHADED "X". ZONE SHADED "X" IS DEFINED AS "AREAS OF 0.2% ANNUAL CHANCE FLOOD OR GREATER; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD".

Exhibit 2

Mining Unit Disturbed Area Plan

G:\JOBS\21015_1-2\CAD\EXHIBITS\ASML_EXHIBIT-B_MU_DISTURBED_AREA.DWG 5/16/2023 10:18 PM



CONTOUR INTERVAL = 5'

- PROP. MAJOR CONTOURS
- PROP. MINOR CONTOURS
- EXIST. MAJOR CONTOURS
- EXIST. MINOR CONTOURS

PROJECT DATA
 TOTAL MINE SITE AREA: 126.97 AC
 ESTIMATED DISTURBED AREA: +/- 92 ACRES

MINE UNIT FEATURE AREAS

#	DESCRIPTION	TOTAL UNIT QTY
①	GRADE EXCAVATED AREAS <5%	66.3 AC
②	40' WIDE HAUL ROAD	9.2 AC
③	BERM & BOULDER BARRIER (3' MINIMUM HEIGHT AND 4:1 SS) PER DTL A THIS SHEET	6.50 AC
⑤	MINING EQUIPMENT CROSSING (20' WIDE BOTTOM, 20:1 SIDE SLOPE) W/ PEAK RUNOFF DEPTH <12".	7200 SF
⑥	FIRST FLUSH / SEDIMENT BASIN	5.88 AC
⑦	OVERFLOW WEIR OUTFALL AND RIP RAP CHECK DAM PER BMP	8 EA
⑧	STOCKPILE STORAGE AREA	17.40 AC
⑨	EQUIPMENT STAGING AND STORAGE PROCESSING AREA	3.08 AC
⑩	ONSITE HAUL ROAD WITH DUST PALLIATIVE OR ROCK BASE COVER	6.38 AC
⑪	PORTABLE YARD OFFICE, TRUCK SCALE, PARKING AND REFUSE AREA	2100 SF
⑫	GRADE EXCAVATED AREAS >5%	24.89 AC

AREA QUANTITIES & ESTIMATED EARTHWORK

AREA	AREA SIZE (AC)	DISTURBED AREA (AC)	CUT CY	FILL CY	NET CY
A	17.96	11.21	356,260	1,826	354,434<CUT>
B	19.15	15.02	531,930	5,266	526,664<CUT>
C	46.14	27.17	1,177,942	1,584	1,176,358<CUT>
D	10.91	11.88	256,670	3,871	252,799<CUT>
YARD	32.81	26.72	34,375	19,506	14,869<CUT>
TOTALS	126.97	92	2,357,177	32,053	2,325,124<CUT>



LEGEND

AGGREGATE MINING AREA	---	MINE SITE BOUNDARY	---
HAUL ROAD	---	EXCAVATION BOUNDARY	---
FIRST FLUSH SEDIMENT BASIN	---	BOULDER BARRIER SEE DETAIL 1	--->
EQUIPMENT STAGING STOCKPILE AREA	---	OFFSITE RUNOFF ROUTING	--->>>
FLOOD ZONE X	---	PROPOSED CHANNEL FLOW	--->>>
404 WASH AREA	---	BREAKAWAY FENCE	--->>>
NO MINING ACTIVITY AREA	---	SECTION CORNER	●
		CROSS SECTION LOCATION SEE EXHIBIT 5 FOR SECTIONS	⊙

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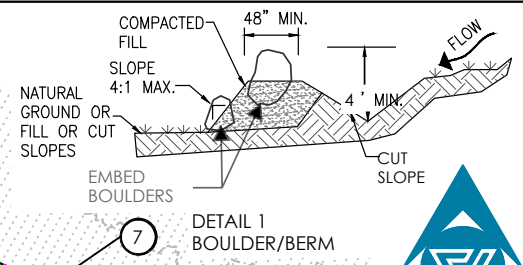
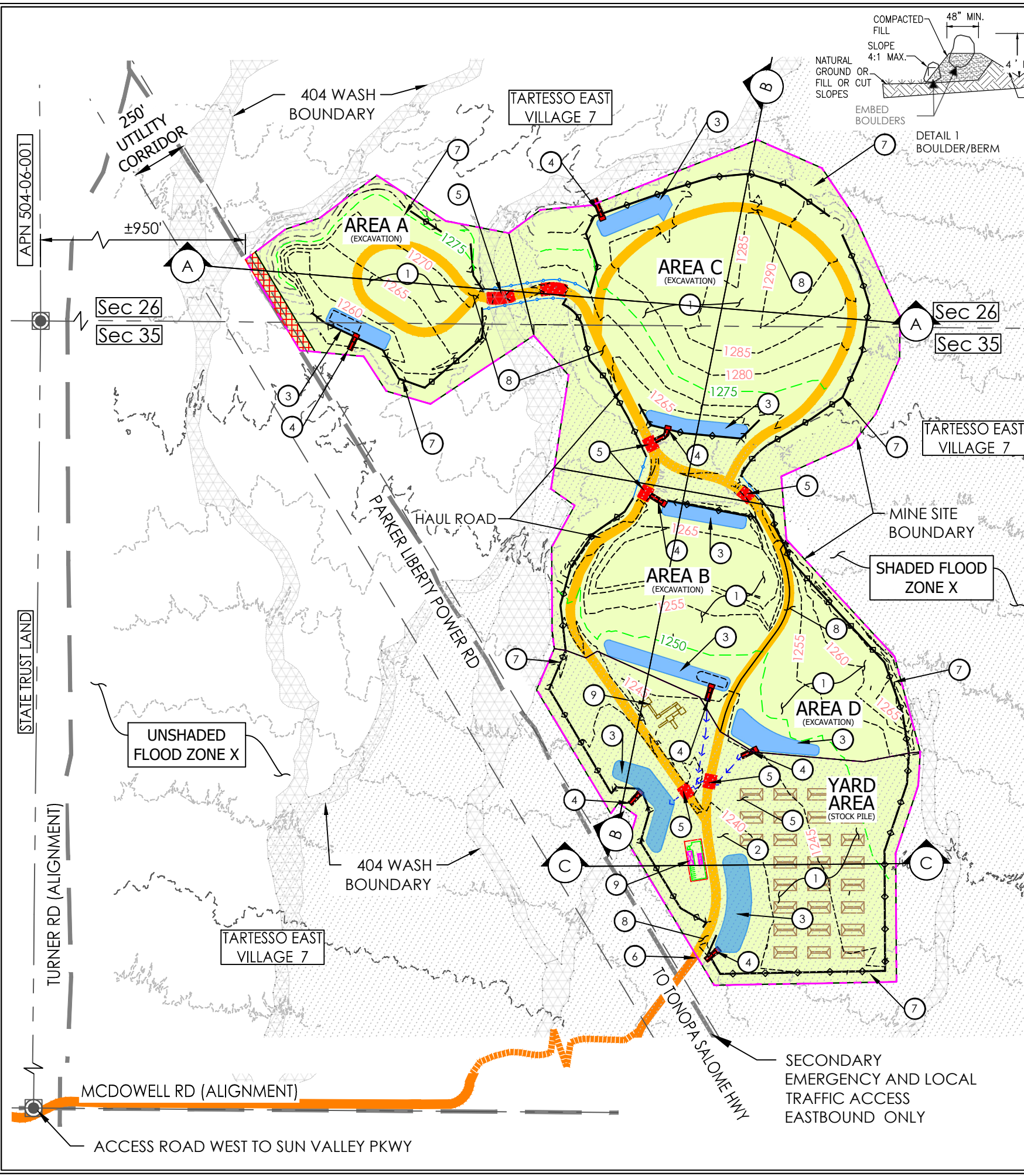
TARTESSO WAY NORTH AGGREGATE MINE
 1/2 MILE NORTH OF MCDOWELL RD & TURNER ROAD
MINING UNIT DISTURBED AREA PLAN

DATE: 05-03-2023 | PROJ. NO.: 21015 | SCALE: SHOWN | CAD FILE: (LEFT MARGIN) | DRAWN: AES

EXHIBIT
2

Exhibit 3
Mining Reclamation Plan

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RECLAMATION NOTES

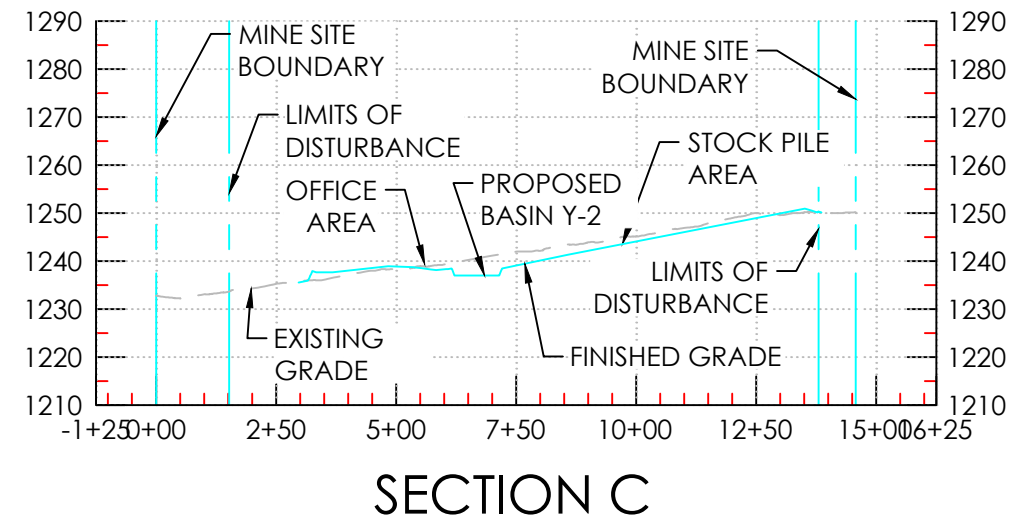
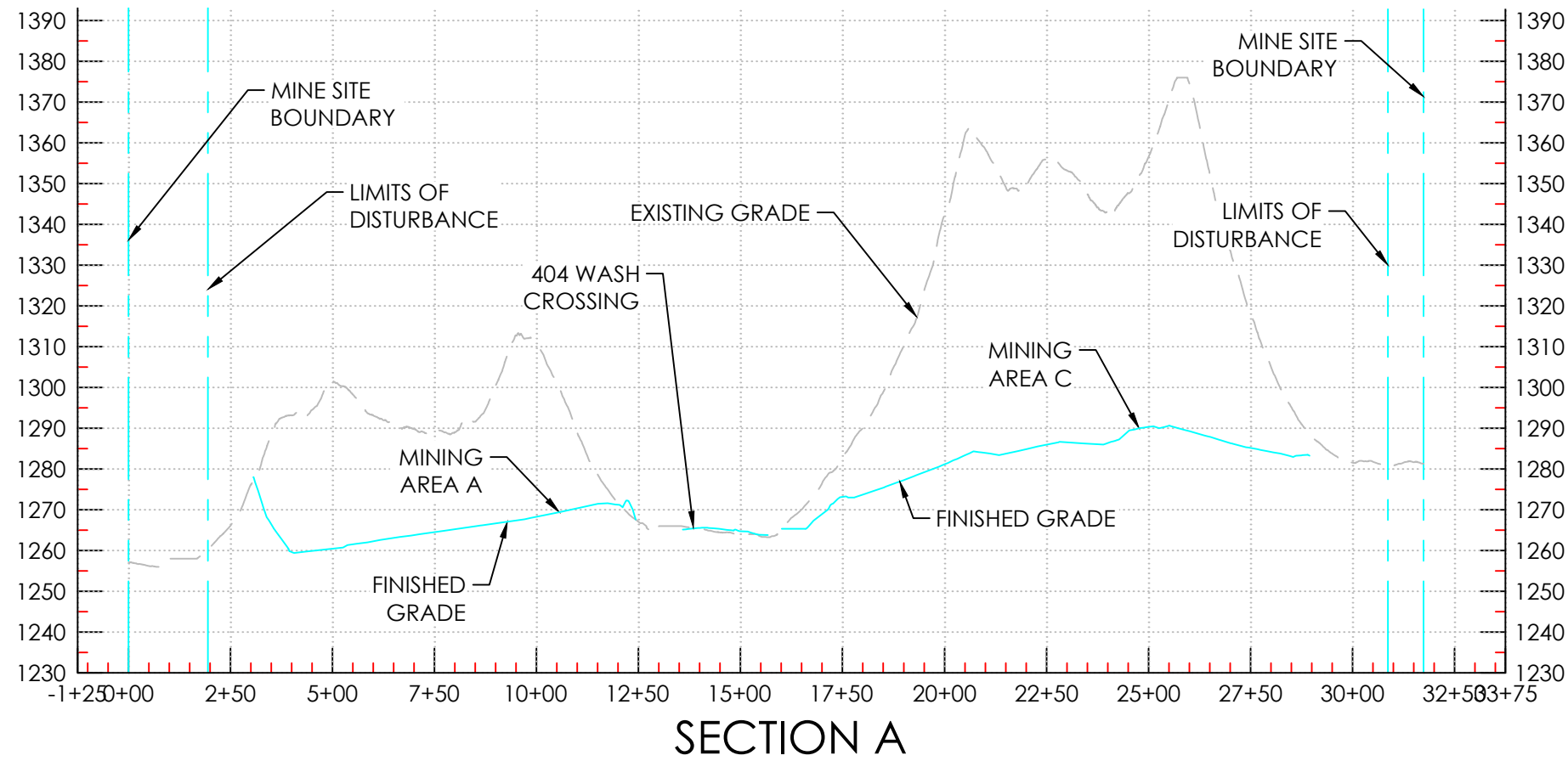
①	RECLAIM AREA PER POST MINE LAND USE REQUIREMENTS. SEE GENERAL NOTE 1 FOR FURTHER DETAILS.
②	MAINTAIN RIPRAP LINED CHANNEL AGAINST EROSION USING A MIN D50=9" AT 18" THICK ALL EMBANKMENTS SHALL INCLUDE EROSION PROTECTION USING BEST MANAGEMENT PRACTICES (BMP)
③	STABILIZE AND MAINTAIN FIRST FLUSH DETENTION BASIN WITH ROCK CHECK DAM PER PLAN UNTIL WATERSHED IS STABILIZED.
④	PRESERVE OUTLET WEIR IN PLACE FOR PERMANENT BASINS.
⑤	REMOVE RIP RAP ARMORED CROSSING PER PLAN AND RE-GRADE TO BLEND WITH SURROUNDING AREA. STABILIZE LOOSE MATERIAL FROM ERODING.
⑥	REMOVE ACCESS GATE AND PROPERLY RECYCLE.
⑦	VERIFY INTEGRITY OF BERM & BOULDER BARRIER PER PLAN ALONG TOP OF CUT SLOPES. REMOVE TEMPORARY BARRIER WHERE NOT NEEDED FOR PUBLIC SAFETY AND EVENLY SPREAD OVER AREAS TO PROMOTE REVEGETATION GROWTH AND MINIMIZE EROSION USING ROCK CHECK DAMS WITH GRAVEL FILTERS. SEE DETAIL 1 THIS SHEET
⑧	RECLAIM NON-PERMANENT HAUL ROADS AND PARKING BY SCARIFICATION AND APPLYING ROCK MULCH TO BLEND WITH ADJACENT TOP SOIL COVER PROMOTE GROWTH WHILE HYDRO-SEEDING TO REESTABLISH NATIVE GROWTH DURING GROWING SEASON AND STABILIZE SURFACE.
⑨	REMOVE OFFICE & SCALE HOUSE BUILDINGS, REFUSE CONTAINERS, AND ALL OTHER STATIONARY EQUIPMENT ONSITE.

LEGEND	
AGGREGATE MINING AREA	--- MINE SITE BOUNDARY
HAUL ROAD	--- EXCAVATION BOUNDARY
FIRST FLUSH SEDIMENT BASIN	--- BOULDER BARRIER SEE DETAIL 1
EQUIPMENT STAGING STOCKPILE AREA	--- OFFSITE RUNOFF ROUTING
FLOOD ZONE X	--- PROPOSED CHANNEL FLOW
404 WASH AREA	--- BREAKAWAY FENCE
NO MINING ACTIVITY AREA	● SECTION CORNER
CONTOUR INTERVAL = 5' --- MAJOR CONTOURS - - - MINOR CONTOURS - - - EXIST. MAJOR CONTOURS - - - EXIST. MINOR CONTOURS	

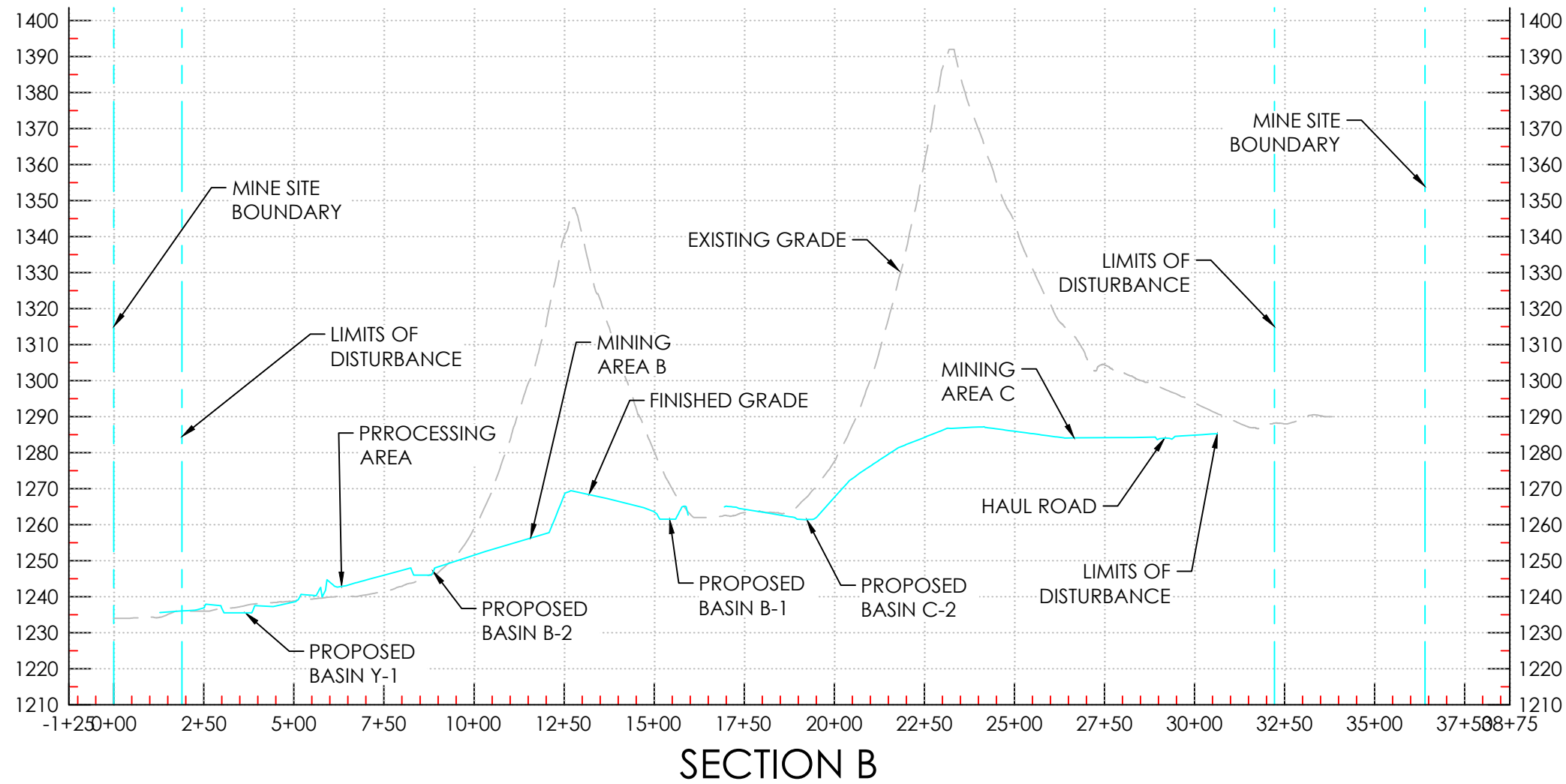
- GENERAL NOTES:**
- 1) ALL DISTURBED AREAS SHALL BE STABILIZED AGAINST EROSION AND SLOPE FAILURE BY THE RESPONSIBLE PARTY AT ALL TIMES.
 - 2) ACTIVE MINING AREAS SHALL BE PROTECTED BY 3' BERM WITH BOULDERS PLACED ALONG OUTER FACE AND WARNING SIGNS NEAR ALL POINTS OF POTENTIAL ACCESS TO THE SITE. PUBLIC SAFETY PRECAUTIONS SHALL BE APPLIED ONSITE AT ALL TIMES.
 - 3) PROPERTY OWNER IS RESPONSIBLE FOR MAINTENANCE OF PERMANENT EROSION CONTROL MEASURES, SHOWN HEREIN, DURING POST MINING LAND USE.
 - 4) STABILIZED CHANNEL AND BASIN SIDE SLOPES SHALL BE CONSTRUCTED AT 4:1 MAX (< 3 FEET DEEP)
 - 5) ROCK FACE CUTS < 10FT, USE MAX 2:1 SLOPES; IF USING 1:1 SIDE SLOPES THEN PLACE FENCING ALONG UPPER EDGE OF FACE. IF CUT WALLS ARE GREATER THAN 10 FEET HIGH, THEN CONSTRUCT A 4FT WIDE BENCH WITH 5% REVERSE SLOPE (GRADE TO DRAIN <2% DOWN ALONG FACE < 200FT).
 - 6) ANY MODIFICATIONS TO THIS PLAN WILL REQUIRE A NEW PLAN TO BE RESUBMITTED TO ASMI.
 - 7) OFFSITE HAUL ROADS (MIN 24' WIDE, <5% GRADE) ARE FOR ACCESS TO THE SITE AND SHALL BE MAINTAINED FOR EMERGENCY ACCESS VEHICLES WITH SAFETY PULLOUTS (12'X120') EVERY 500 FT +/-.

Exhibit4
Mining Reclamation Plan Cross Sections

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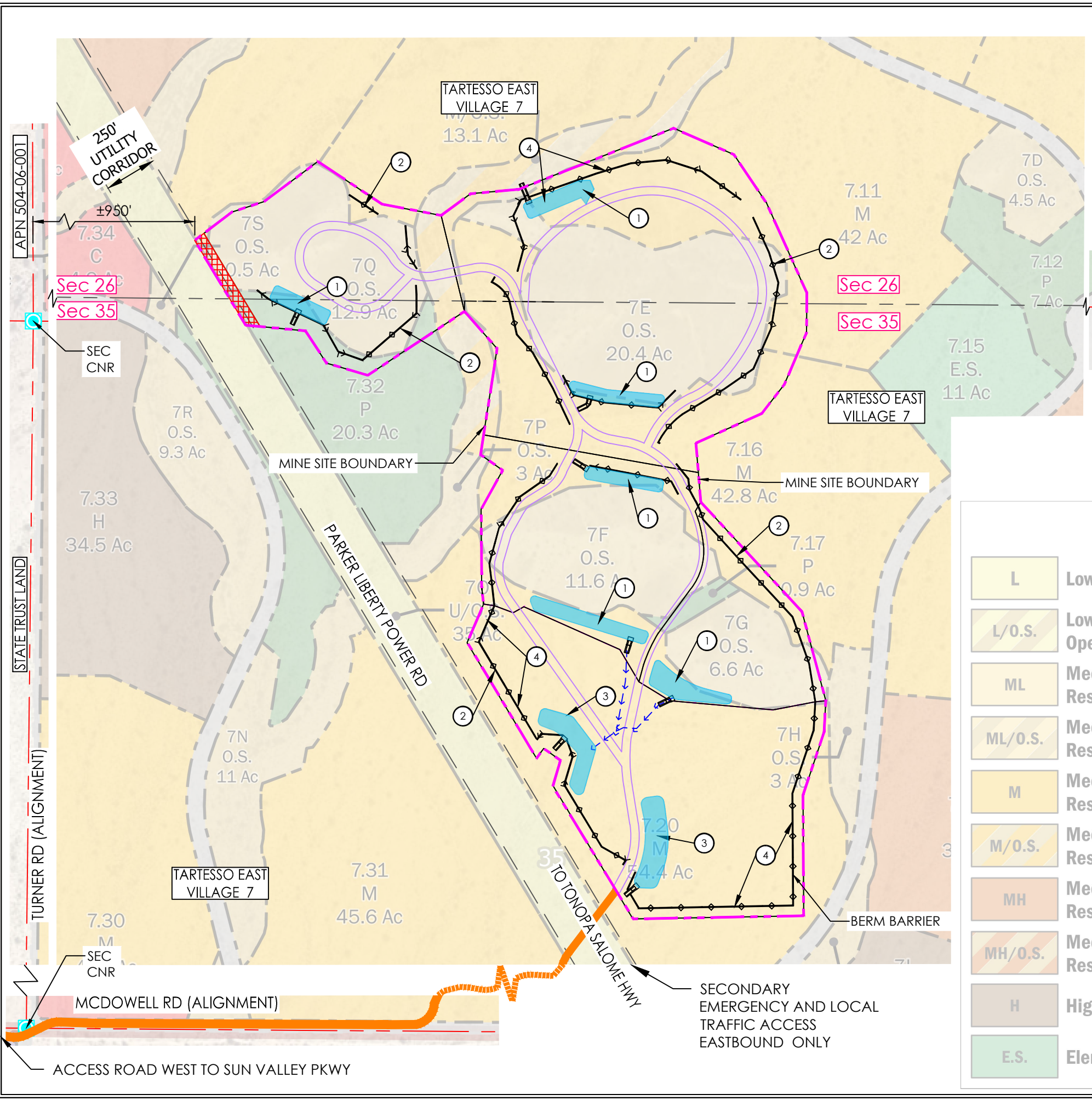
NOTE: FINISHED SLOPES NOT TO EXCEED 4:1



NOTE: SEE SECTION LOCATIONS SHOWN ON EXHIBIT 3 - MINING RECLAMATION PLAN

Exhibit 5
Post-Mine Land Use Plan
(Per 4th Amendment of Tartesso's CMP)

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POST MINE ACTIVITY NOTES

#	DESCRIPTION
①	SEDIMENT BERM AND BASIN TO REMAIN UNTIL SITE IS STABILIZED. PLACE CHECK DAMS AND ROCK MULCH COVER IN AREAS PRONE TO EROSION PER SWPPP DETAILS USING BMP METHODS. HYDROSEED PER SPEC.
②	BERM AND BOULDER BARRIER TO REMAIN IN AREAS AS NEEDED FOR PUBLIC SAFETY
③	BASIN TO BE REMOVED AND AREA REGRADED TO HISTORICAL CONDITIONS AND OUTFALL.
④	AS BERMS OR BASINS ARE REMOVED

LEGEND

	MINE SITE BOUNDARY
	EXCAVATION BOUNDARY
	BOULDER BARRIER SEE DETAIL 1
	SECTION CORNER
	NO MINING ACTIVITY AREA
	SEDIMENT BASIN

Legend

	Low Density Residential		High School
	Low Density Residential/ Open Space		Park
	Medium/Low Density Residential		Open Space
	Medium/Low Density Residential/ Open Space		Utility/ Open Space
	Medium Density Residential		Waste Water Treatment Facility
	Medium Density Residential/ Open Space		Commercial
	Medium/High Density Residential		Commercial/ Open Space
	Medium/High Density Residential/ Open Space		Mixed Use
	High Density Residential		Public Facility
	Elementary Schools		Mixed Use/Waste Water Treatment Facility

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TARTESSO WAY NORTH AGGREGATE MINE
 1/2 MILE NORTH OF MCDOWELL RD & TURNER ROAD
POST MINE LAND USE PLAN
DATE: 05/03/2023 | PROJ. NO.: 21015 | SCALE: SHOWN | CAD FILE: (LEFT MARGIN) | DRAWN: AES