

ELICOTT SAND AND GRAVEL LLC - SITE DEVELOPMENT PLAN

Parts of the SW^{1/4}NE¹, SW^{1/2}SE¹ & NW^{1/4}SE¹, Section 29, T-14-S, R-62-W, 6th P.M., El Paso County, Colorado. - Containing 66.1 acres more or less.

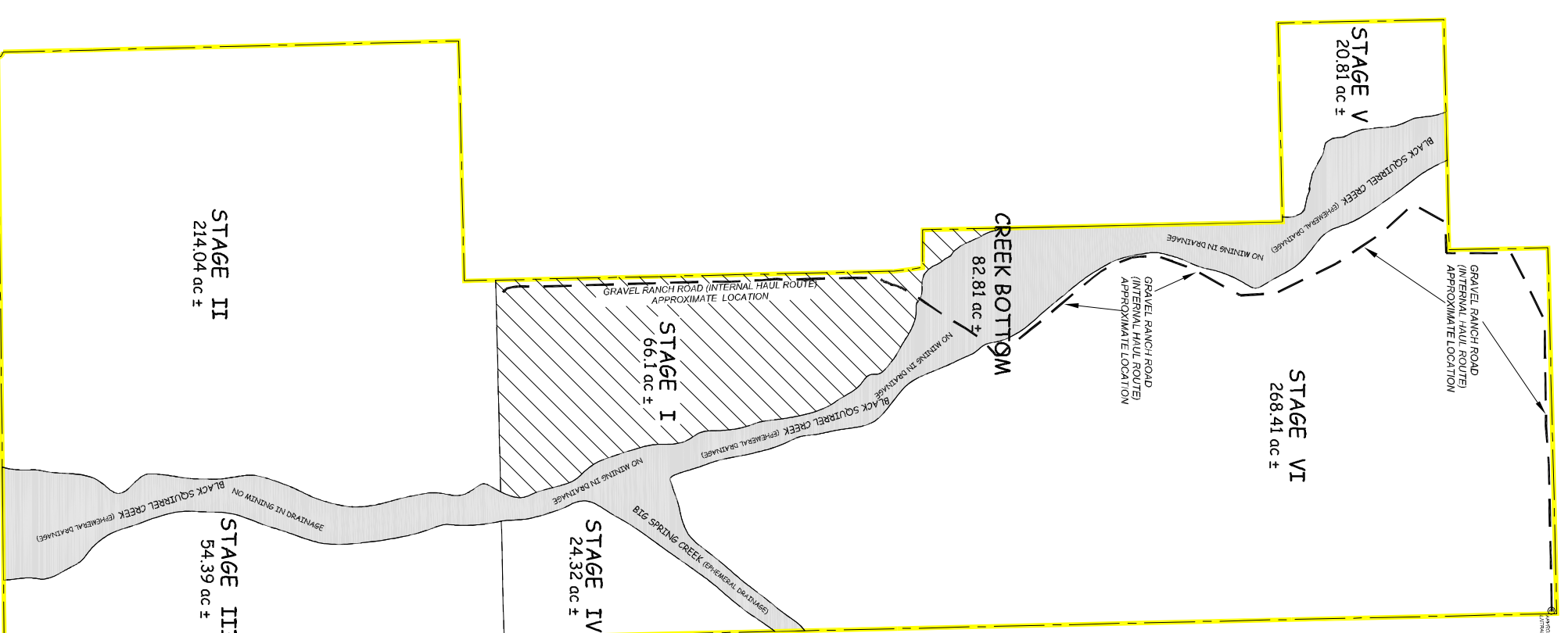
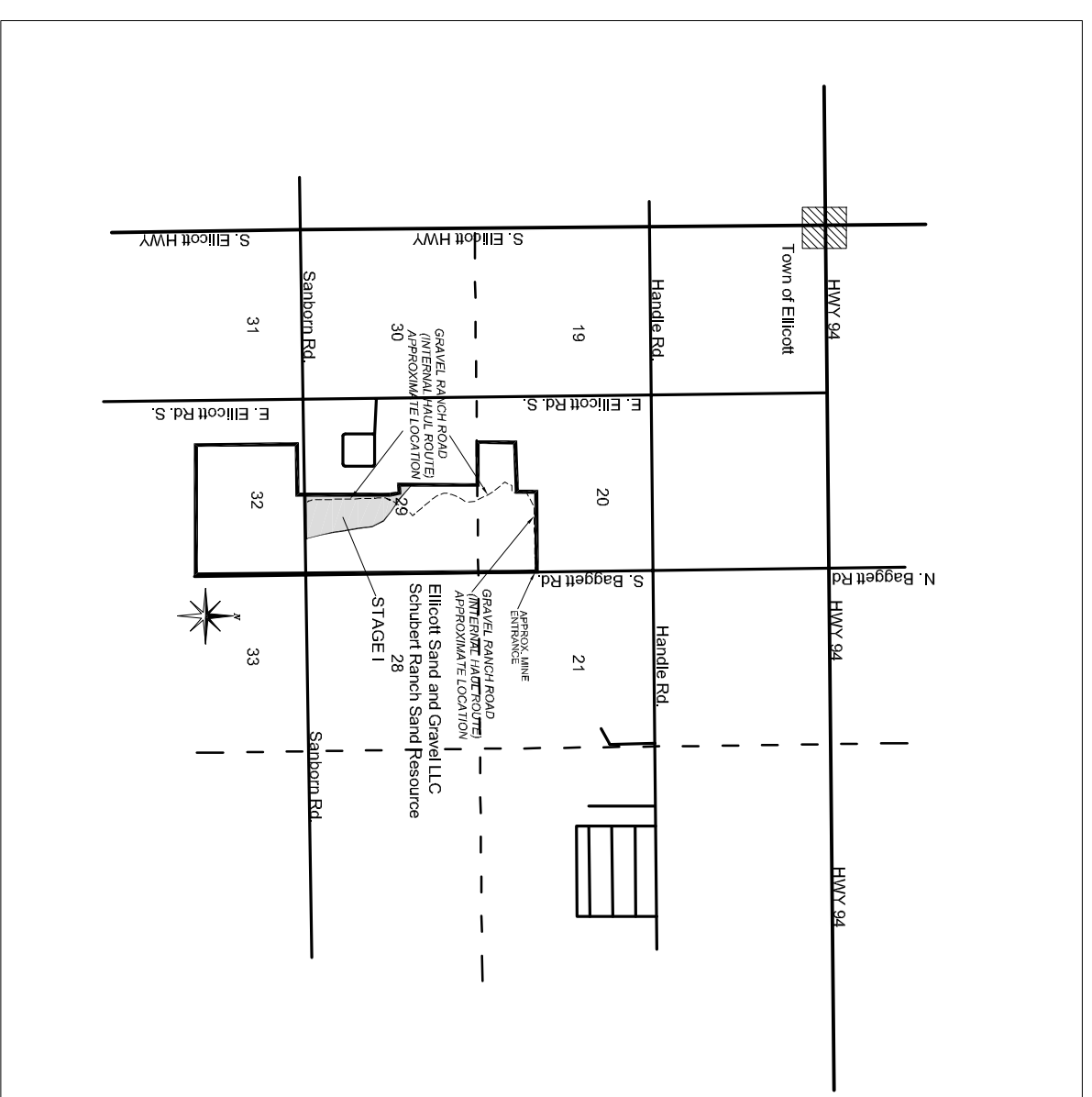
STAGE I OF 6 - GRADING AND EROSION CONTROL PLANS

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- 1: Stormwater discharges from sites shall not cause or threaten to cause pollution, contamination, or degradation of State Waters. All work and earth disturbance shall be done in a manner that minimizes pollution of any on-site or off-site waters, including wetlands.
- 2: Notwithstanding anything depicted in these plans in words or graphic representation, all design and construction related to roads, storm drainage and erosion control shall conform to the standards and requirements of the most recent version of the relevant adopted El Paso County standards, including the Land Development Code, the Engineering Criteria Manual, the Drainage Criteria Manual, and the Drainage Criteria Manual (Volume 2, Any deviation from regulations
- 3: A separate Stormwater Management Plan (SWMP) for this project shall be completed and an Erosion and Stormwater Quality Control Permit (ESQCP) issued prior to commencing construction Management of the SWMP during construction is the responsibility of the designated Qualified Stormwater Manager or Certified Erosion Control Inspector. The SWMP shall be located on-site at all times during construction and shall be kept up to date with work progress and changes in the field. Once the ESQCP is approved and a Notice to Proceed has been issued, the contractor may install the initial slope erosion and sediment control measures as indicated on the approved DEC. A Preconstruction Meeting between the contractor, engineer, and El Paso County will be held prior to any construction. It is the responsibility of the applicant to coordinate the meeting and place with County staff.
- 5: Control measures must be installed prior to commencement of activities that could contribute pollutants to stormwater. Control measures for all slopes, channels, ditches, and disturbed land areas shall be installed immediately upon completion of the disturbance.
- 6: All temporary and erosion control measures shall be maintained and remain in effective operating condition until permanent soil erosion control measures are implemented. Final stabilization measures shall be installed prior to the start of any permanent stabilization measures. The engineer shall assess the adequacy of control measures at the site and identify changes to measures that are needed to meet the intended functional and effective performance of the control measures. All changes to temporary sediment and erosion control measures must be incorporated into the Stormwater Management Plan.
- 7: Temporary stabilization shall be implemented on disturbed areas and stockpiles where ground disturbing construction activity has permanently ceased or temporarily ceased for longer than 14 days.
- 8: Final stabilization must be implemented at all applicable construction sites. Final stabilization is achieved when all ground disturbing activities are complete and all disturbed areas either have a uniform vegetative cover with individual plant density of 70 percent of pre-disturbance levels established or equivalent permanent alternative stabilization method is implemented. All temporary sediment and erosion control measures shall be removed upon final stabilization and before permit closure.
- 9: All permanent stormwater management structures must be approved by the ECM Administrator prior to implementation.
- 10: Earth disturbance shall be conducted in such a manner so as to effectively minimize accelerated soil erosion and resulting sedimentation. All disturbances shall be designed, constructed, and completed so that the exposed area of any disturbed land shall be limited to the shortest practical period of time. Pre-existing vegetation shall be protected and maintained within 50 horizontal feet of a wetlands of the state unless shown to be infeasible and specifically requested and approved.
- 11: Construction of soil must be prevented in areas designated for infiltration control measures or where final stabilization will be achieved by vegetative cover. Areas designated for infiltration control measures shall also be protected from sedimentation during construction and final stabilization shall be achieved by vegetation cover. Areas designated for site construction, all areas designated for infiltration and vegetation control measures must be loosened prior to installation of the control measure(s).
- 12: Any temporary or permanent facility designed and constructed for the conveyance of stormwater around, through, or from the earth disturbance area shall be a stabilized conveyance designed to minimize erosion and the discharge of sediment off-site.
- 13: Concrete wash water shall be contained and disposed of in accordance with the SWMP. No wash water shall be discharged to or allowed to enter State Waters, including any surface or subsurface storm drainage system or facilities. Concrete washouts shall not be located in an area where shallow groundwater may be present, or within 50 feet of a surface water body, creek or stream.
- 14: During dewatering operations, uncontaminated groundwater may be discharged on-site, but shall not leave the site in the form of surface runoff unless approved State dewatering permit is in place.
- 15: Erosion control blanketing or other protective covering shall be used on slopes steeper than 3:1.
 - No final slopes will be steeper than 3H:1V.
 - During mining, interior slopes will be steeper than 3H:1V. However, all stormwater runoff will be inferior to the site. Runoff will infiltrate into the sandy substrate.
- 16: Contractor shall be responsible for the removal of all wastes from the construction site for disposal in accordance with local and State regulatory requirements. No construction debris, tree stumps, building material wastes or unused building materials shall be buried, dumped, or discharged at the site.
- 17: Waste materials shall not be temporarily placed or stored in the street, alley, or other public way, unless in accordance with an approved Traffic Control Plan. Control measures may be required by El Paso County Engineering if deemed necessary, based on specific conditions and circumstances.
- 18: Tracking of soils and construction debris off-site shall be minimized. Materials tracked off-site shall be cleaned up and properly disposed of immediately.
- 19: The owner/developer shall be responsible for the removal of all construction debris, dirt, trash, rock sediment, soil, and sand that may accumulate in roads, storm drains and other drainage conveyance systems and stormwater appurtenances as a result of the site development.
- 20: The quantity of materials stored on the project site shall be limited, as much as practical, to that quantity required to perform the work in an orderly sequence. All materials stored on-site shall be stored in a neat, orderly manner, in their original containers, with original manufacturer's labels.
 - This is a mining operation, is not a construction site. Therefore, this "Standard Condition" is not applicable.
- 21: No chemical(s) having the potential to be released in stormwater are to be stored or used on-site unless permission for the use of such chemical(s) is granted in writing by the ECM Administrator. In granting approval for the use of such chemical(s), special conditions and monitoring may be required.
- 22: Bulk storage of allowed petroleum products or other allowed liquid chemicals in excess of 55 gallons shall require adequate secondary containment protection to contain all spills on-site and to prevent any spilled materials from entering State Waters, any surface or subsurface storm drainage system or other facilities.
 - We have an SPCC plan to deal with any spilled petroleum products, in reportable quantities
- 23: No person shall cause the impediment of stormwater flow in the curb and gutter or ditch except with approved sediment control measures.
- 24: Owner/developer and their agents shall comply with the Colorado Water Quality Act (Title 24, Article 8, CRS), and the Clean Water Act (33 USC 1344), in addition to the requirements of the Land Development Code, DCM Volume 11 and the ECM Appendix 1. All appropriate permits must be obtained by the contractor prior to construction (1041, MPDES, Floodplain, 404, Right-of-Way, etc.). In the event of conflicts between these requirements and other laws, rules, or regulations of other Federal, State, local, or County agencies the most restrictive laws, rules, or regulations shall apply.
- 25: All construction traffic must enter/exit the site only at approved construction access points.
- 26: Prior to construction the permittee shall verify the location of existing utilities.
- 27: A water source shall be available on-site during earthwork operations and shall be utilized as required to minimize dust from earthwork equipment and wind.
 - A commercial water provider will supply water for operational needs.
- 28: The soils report for this site has been prepared by [Company Name, Date of Report] and shall be considered a part of these plans.
 - Based on our November 30th meeting with County Staff, a soils report is not required since no permanent structures are planned.

At least ten (10) days prior to the anticipated start of construction, for projects that will disturb one (1) acre or more the owner or operator of construction activity shall submit a permit application for stormwater discharge to the Colorado Department of Public Health and Environment, Water Quality Division. The application contains certification of completion of a stormwater management plan (SWMP), of which this Grading and Erosion Control Plan may be a part.

- A stormwater management plan is part of this submittal packet
- The stormwater permit number is COCS052203
- The stormwater permit construction number is COCS052203



SCHUBERT RANCH SAND RESOURCE
SPECIAL USE PERMIT AREA CASE # A12814
Parts of the SW^{1/4}NE¹, SW^{1/2}SE¹ & NW^{1/4}SE¹, Section 29 and parts of the NW^{1/4}NE¹ & NW^{1/4}SE¹, Section 32, T-14-S, R-62-W, 6th P.M., El Paso County, Colorado. Containing 733.7 acres more or less.

CONTACTS:

OWNER - Parcel No. 2400000276
Schubert Ranches Inc.
1555 S. Baggett Rd.
Calhan, CO 80808
Phone: (719) 683-2282
Email: grassogp@aol.com

APPLICANT
Elicott Sand and Gravel LLC
Christine Wilson, Manager
235 Franewille Coal Mine Road,
Colorado Springs, CO 80929
(719) 568-3164
ellicotsandgravel@gmail.com

ENGINEER
Mr. G. Thomas Hastings, PE
Loveland, CO 80538
gthasfings@gmail.com

PLANNERS

Consultants:
Environment, Inc.
Mr. Steve O'Brian - President
7985 Vance Dr., #205A, Arvada, CO 80003
(303) 423-7297
Environment-inc@outdrs.net

Regulatory Permits Management, Inc.
Mr. H. Bruce Humphries - President
25049 E. Alder Dr., Aurora, CO 80016
(303) 954-7499
hlhumphries2@comcast.net

SHEET INDEX

- 1 - COVER SHEET
- 2 - GRADING & EROSION CONTROL - INITIAL CONDITIONS
- 3 - GRADING & EROSION CONTROL - INTERIM PHASE
- 4 - GRADING & EROSION CONTROL - FINAL PHASE
- 5 - GRADING & EROSION CONTROL - DETAILS & CROSS SECTIONS

EL PASO COUNTY STATEMENT:
COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE COMPARED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING DESIGN MANUAL, AS AMENDED.
IN ACCORDANCE WITH ECA SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. ANY CHANGES TO THESE DOCUMENTS WILL BE THE RESPONSIBILITY OF THE APPLICANT AND WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTOR'S DISCRETION.

JOSHUA PALMER, P.E. DATE _____
COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT:
I, THE ENGINEER, HAVE REVIEWED THESE PLANS AND PREPARED UNDER MY DIRECTORIAL SUPERVISION AND AS COMPLETED TO THE BEST OF MY KNOWLEDGE AND BELIEF. SIGNATURE HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENCE OR INEPTITUDE ON THE PART OF THE ENGINEER OR THE CONTRACTOR.
ENGINEER OF RECORD SIGNATURE _____ DATE _____
G. Thomas Hastings, PE

PREPARED UNDER THE DIRECT SUPERVISION OF _____
FOR AND ON BEHALF OF ELLICOTT SAND AND GRAVEL, LLC

PPR 23-04

OWNER'S STATEMENT:
I, THE OWNER, HAVE REVIEWED THESE PLANS AND PREPARED UNDER MY DIRECTORIAL SUPERVISION AND AS COMPLETED TO THE BEST OF MY KNOWLEDGE AND BELIEF. SIGNATURE HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENCE OR INEPTITUDE ON THE PART OF THE ENGINEER OR THE CONTRACTOR.
OWNER'S SIGNATURE _____ DATE _____
George Schubert, Manager

SCHUBERT RANCH LLC
1555 S. Baggett Road
Calhan, CO 80808-7808

EL PASO COUNTY SITE DEVELOPMENT PLAN
COVER SHEET
FOR
SCHUBERT RANCH SAND RESOURCE
ELLICOTT, COLORADO

REVISIONS:	DATE:
SPECIAL USE PERMIT APPROVAL - BCC	08-02-2022

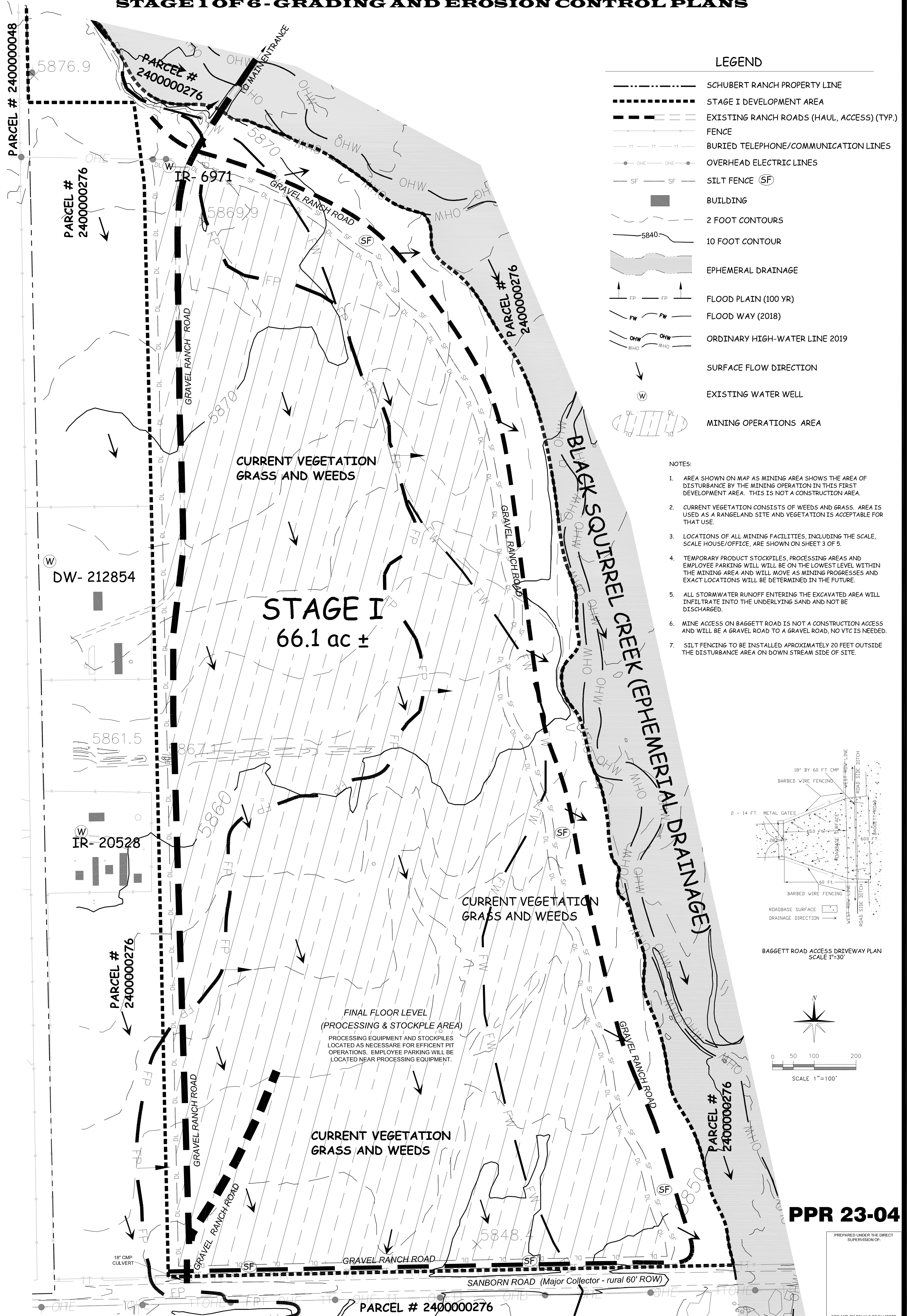
ELLICOTT SAND AND GRAVEL LLC
235 Franewille Coal Mine Road | Colorado Springs, Co 80929
phone: (602) 558-0846

DATE:	FILE NAME:	SCALE:	DRAWN BY:	CHECKED BY:	PROJECT #:
01/05/2023 <td>ESG-DP GRADING <td>NA <td>EMV/SB <td>GTH <td>ESG-COUNTY</td> </td></td></td></td>	ESG-DP GRADING <td>NA <td>EMV/SB <td>GTH <td>ESG-COUNTY</td> </td></td></td>	NA <td>EMV/SB <td>GTH <td>ESG-COUNTY</td> </td></td>	EMV/SB <td>GTH <td>ESG-COUNTY</td> </td>	GTH <td>ESG-COUNTY</td>	ESG-COUNTY
1					
SHEET 1 of 5					

ELLICOTT SAND AND GRAVEL LLC - SITE DEVELOPMENT PLAN

Parts of the SW $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$ & NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T-14-S, R-62-W, 6th P.M., El Paso County, Colorado. - Containing 66.1 acres more or less.

STAGE 1 OF 6 - GRADING AND EROSION CONTROL PLANS

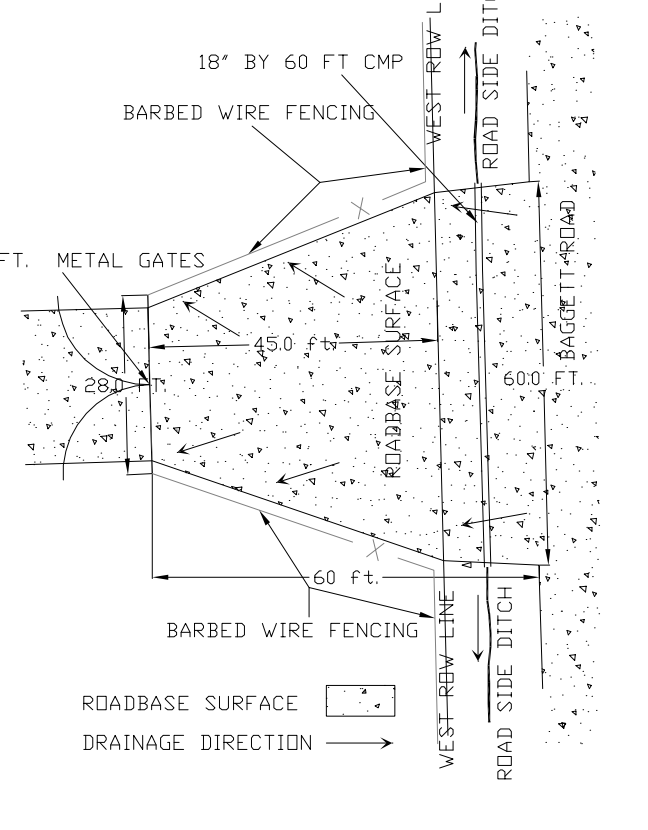


LEGEND

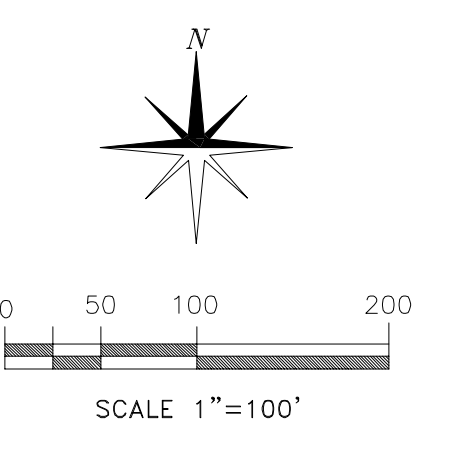
- SCHUBERT RANCH PROPERTY LINE
- STAGE I DEVELOPMENT AREA
- EXISTING RANCH ROADS (HAUL, ACCESS) (TYP.)
- FENCE
- BURIED TELEPHONE/COMMUNICATION LINES
- OVERHEAD ELECTRIC LINES
- SILT FENCE (SF)
- BUILDING
- 2 FOOT CONTOURS
- 10 FOOT CONTOUR
- EPHEMERAL DRAINAGE
- FLOOD PLAIN (100 YR)
- FLOOD WAY (2018)
- ORDINARY HIGH-WATER LINE 2019
- SURFACE FLOW DIRECTION
- EXISTING WATER WELL
- MINING OPERATIONS AREA

NOTES:

1. AREA SHOWN ON MAP AS MINING AREA SHOWS THE AREA OF DISTURBANCE BY THE MINING OPERATION IN THIS FIRST DEVELOPMENT AREA. THIS IS NOT A CONSTRUCTION AREA.
2. CURRENT VEGETATION CONSISTS OF WEEDS AND GRASS. AREAS USED AS A RANGELAND SITE AND VEGETATION IS ACCEPTABLE FOR THAT USE.
3. LOCATIONS OF ALL MINING FACILITIES, INCLUDING THE SCALE, SCALE HOUSE/OFFICE, ARE SHOWN ON SHEET 3 OF 5.
4. TEMPORARY PRODUCT STOCKPILES, PROCESSING AREAS AND EMPLOYEE PARKING WILL BE ON THE LOWEST LEVEL WITHIN THE MINING AREA AND WILL MOVE AS MINING PROGRESSES AND EXACT LOCATIONS WILL BE DETERMINED IN THE FUTURE.
5. ALL STORMWATER RUNOFF ENTERING THE EXCAVATED AREA WILL INFILTRATE INTO THE UNDERLYING SAND AND NOT BE DISCHARGED.
6. MINE ACCESS ON BAGGETT ROAD IS NOT A CONSTRUCTION ACCESS AND WILL BE A GRAVEL ROAD TO A GRAVEL ROAD, NO VTC IS NEEDED.
7. SILT FENCING TO BE INSTALLED APPROXIMATELY 20 FEET OUTSIDE THE DISTURBANCE AREA ON DOWN STREAM SIDE OF SITE.



BAGGETT ROAD ACCESS DRIVEWAY PLAN
SCALE 1"=30'



PPR 23-04

PREPARED UNDER THE DIRECT SUPERVISION OF:

FOR AND ON BEHALF OF ELLICOTT SAND AND GRAVEL LLC.

2	EL PASO COUNTY DEVELOPMENT PLAN INITIAL CONDITIONS FOR SCHUBERT RANCH SAND RESOURCE ELLICOTT, COLORADO	REVISIONS: SPECIAL USE PERMIT APPROVAL - BCC	DATE: 08-02-2022	ELLICOTT SAND AND GRAVEL LLC 235 Franceville Coal Mine Road Colorado Springs Co 80929 phone: (602) 558-0846	DATE: 01/05/2023 FILE NAME: ESG-DP GRADING 2 SCALE: AS NOTED DRAWN BY: EMM/BS CHECKED BY: RBH
		PROJECT #: ESG-COUNTY			

EL LICOTT SAND AND GRAVEL LLC - SITE DEVELOPMENT PLAN

Parts of the SW $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$ & NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T-14-S, R-62-W, 6th P.M., El Paso County, Colorado. - Containing 66.1 acres more or less.

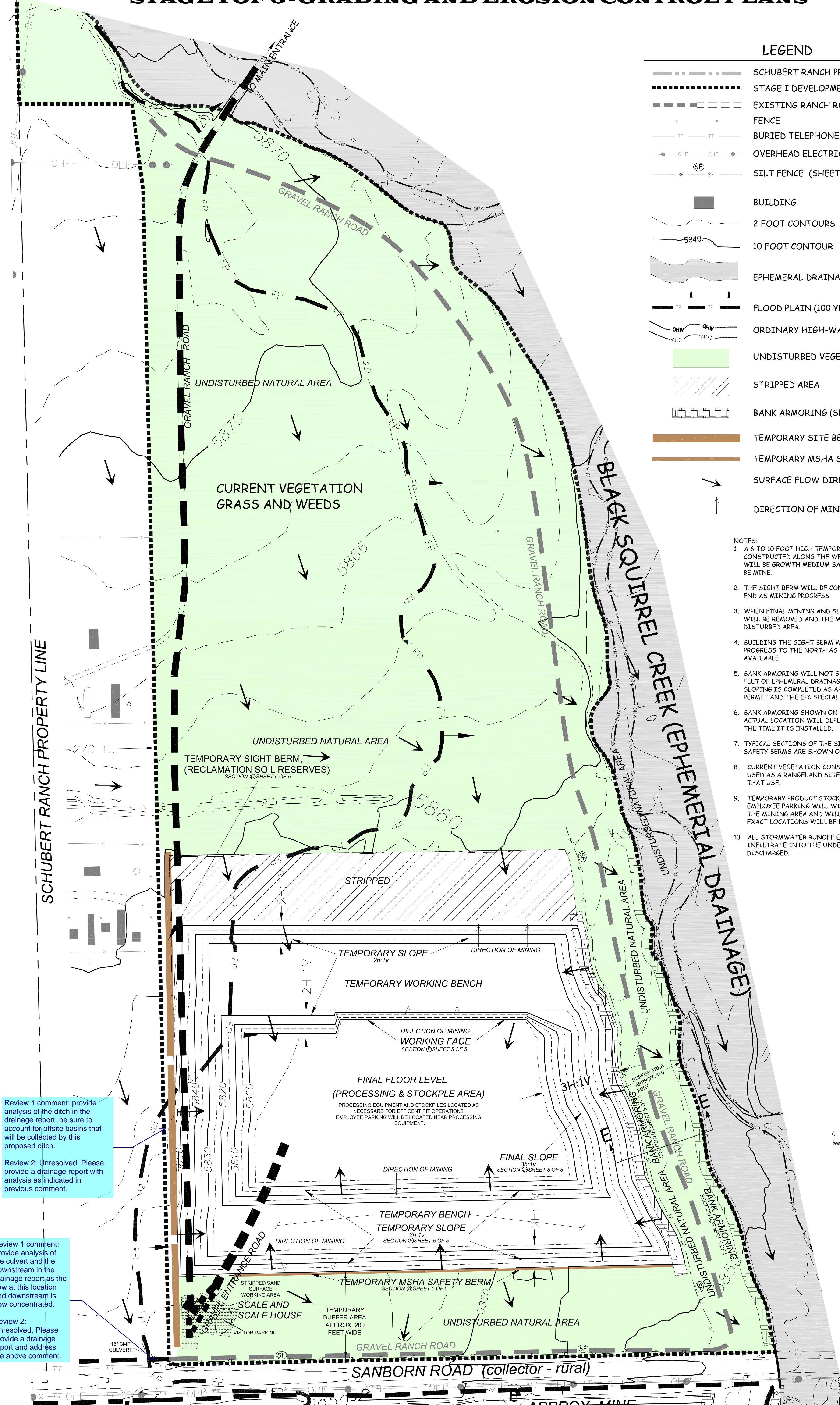
STAGE 1 OF 6 - GRADING AND EROSION CONTROL PLANS

LEGEND

- SCHUBERT RANCH PROPERTY LINE
- STAGE I DEVELOPMENT AREA
- EXISTING RANCH ROADS (HAUL, ACCESS) (TYP.)
- FENCE
- BURIED TELEPHONE/COMMUNICATION LINES
- OVERHEAD ELECTRIC LINES
- SILT FENCE (SHEET 5)
- BUILDING
- 2 FOOT CONTOURS
- 10 FOOT CONTOUR
- EPHEMERAL DRAINAGE
- FLOOD PLAIN (100 YR)
- ORDINARY HIGH-WATER LINE 2019
- UNDISTURBED VEGETATION AREA
- STRIPPED AREA
- BANK ARMORING (SHEET 5)
- TEMPORARY SITE BERM (SHEET 5)
- TEMPORARY MSHA SAFETY BERM (SHEET 5)
- SURFACE FLOW DIRECTION
- DIRECTION OF MINING

NOTES:

1. A 6 TO 10 FOOT HIGH TEMPORARY SIGHT BERM WILL BE CONSTRUCTED ALONG THE WEST SIDE OF STAGE I. THIS BERM WILL BE GROWTH MEDIUM SALVAGED FROM STRIPPING THE AREA TO BE MINE.
2. THE SIGHT BERM WILL BE CONSTRUCTED STARTING ON THE SOUTH END AS MINING PROGRESS.
3. WHEN FINAL MINING AND SLOPING IS COMPLETED THE SIGHT BERM WILL BE REMOVED AND THE MATERIAL USED FOR RESOILING THE DISTURBED AREA.
4. BUILDING THE SIGHT BERM WILL START NEAR SANBORN ROAD AND PROGRESS TO THE NORTH AS MATERIAL FROM STRIPPING BECOMES AVAILABLE.
5. BANK ARMORING WILL NOT START UNTIL MINING IS WITHIN 150 FEET OF EPHEMERAL DRAINAGE BANK AND WHEN 500 FEET OF FINAL SLOPING IS COMPLETED AS APPROVED IN THE STATE RECLAMATION PERMIT AND THE EPC SPECIAL USE PERMIT.
6. BANK ARMORING SHOWN ON MAPS IS APPROXIMATE LOCATION. ACTUAL LOCATION WILL DEPEND ON LOCATION OF OHW LINES AT THE TIME IT IS INSTALLED.
7. TYPICAL SECTIONS OF THE SITE BERM, BANK ARMORING AND SAFETY BERMS ARE SHOWN ON SHEET 5 OF 5.
8. CURRENT VEGETATION CONSISTS OF WEEDS AND GRASS. AREA IS USED AS A RANGELAND SITE AND VEGETATION IS ACCEPTABLE FOR THAT USE.
9. TEMPORARY PRODUCT STOCKPILES, PROCESSING AREAS AND EMPLOYEE PARKING WILL BE ON THE LOWEST LEVEL WITHIN THE MINING AREA AND WILL MOVE AS MINING PROGRESSES AND EXACT LOCATIONS WILL BE DETERMINED IN THE FUTURE.
10. ALL STORMWATER RUNOFF ENTERING THE EXCAVATED AREA WILL INFILTRATE INTO THE UNDERLYING SAND AND NOT BE DISCHARGED.

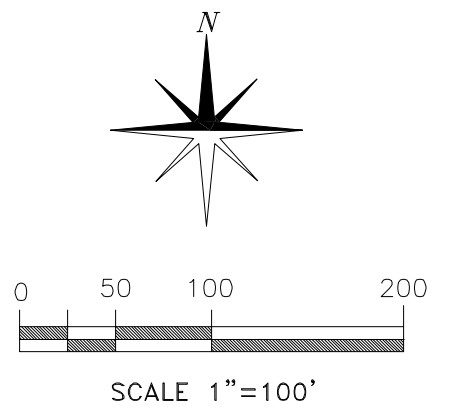


Review 1 comment: provide analysis of the ditch in the drainage report. be sure to account for offsite basins that will be collected by this proposed ditch.

Review 2: Unresolved. Please provide a drainage report with analysis as indicated in previous comment.

Review 1 comment: Provide analysis of the culvert and the downstream in the drainage report as the flow at this location and downstream is now concentrated.

Review 2: Unresolved. Please provide a drainage report and address the above comment.



PPR 23-04

PREPARED UNDER THE DIRECT SUPERVISION OF:

3	EL PASO COUNTY DEVELOPMENT PLAN INTERIM PHASE FOR SCHUBERT RANCH SAND RESOURCE ELLICOTT, COLORADO	REVISIONS:	DATE:	EL LICOTT SAND AND GRAVEL LLC	235 Franceville Coal Mine Road Colorado Springs Co 80929 phone: (602) 558-0846	DESIGNED BY:	DATE:
		SPECIAL USE PERMIT APPROVAL - BCC	08-02-2022			ENR/MS	01/05/2023
SHEET 3 of 5	PROJECT #: ESG-COUNTY			SCALE: AS NOTED	FILE NAME: ESG-DP GRADING 3	CHECKED BY: GTH	DRAWN BY: ENR/MS

EL LICOTT SAND AND GRAVEL LLC - SITE DEVELOPMENT PLAN

Parts of the SW $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$ & NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 29, T-14-S, R-62-W, 6th P.M., El Paso County, Colorado. - Containing 66.1 acres more or less.

STAGE I OF 6 - GRADING AND EROSION CONTROL PLANS

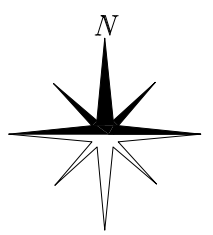
LEGEND

- SCHUBERT RANCH PROPERTY LINE
- STAGE I DEVELOPMENT AREA
- RANCH ROADS (TYP.)
- FENCE
- BURIED TELEPHONE/COMMUNICATION LINES
- OVERHEAD ELECTRIC LINES
- BUILDING
- 2 FOOT CONTOURS
- 5 FOOT CONTOURS
- TOPO CONTOUR
- EPHEMERAL DRAINAGE
- FLOOD PLAIN (100 YR)
- ORDINARY HIGH-WATER LINE 2019
- REVEGETATED AREA
- BANK ARMORING (Sheet 5)
- FLOW DIRECTION

NOTES:

1. THE AREA TO BE REVEGETATED SHOWN ON MAP WILL BE RECLAIMED ACCORDING TO THE APPROVED MLRB PERMIT AS PASTURE.
2. SEEDING AND MULCHING WILL FOLLOW NRCS RECOMMENDATIONS USING THEIR SEED MIX AND APPLICATION OF 4000 POUNDS/AC. OF CLEAN STRAW MULCH.
3. ALL SLOPES CREATED IN THE EXCAVATED AREA WILL BE GRADED 3h TO 1v OR FLATTER AS SHOWN ON MAP.
4. THE MINED AREAS AND ARMORED BANKS WILL BE COVERED WITH GROWTH MEDIUM AND REVEGETATED WITH APPROVED SEED MIX.
5. NO STORMWATER WILL ACCUMULATE IN MINED AREA. THE STATE ENGINEER PROVIDED COMMENTS ON 2/21-2019 TO THE DRMS. ESG COMMITTED TO NOT EXPOSING GROUND WATER, AND NOT ALLOWING STORMWATER TO ACCUMULATE IN THE MINE FOR MORE THEN 72 HOURS.
6. WATER IMPLTRATION RATES FOR THE SOILS ON THIS SITE ARE IN EXCESS OF 4 INCHES/HR. (SOURCE???)

Identify how this value was obtained in your drainage report

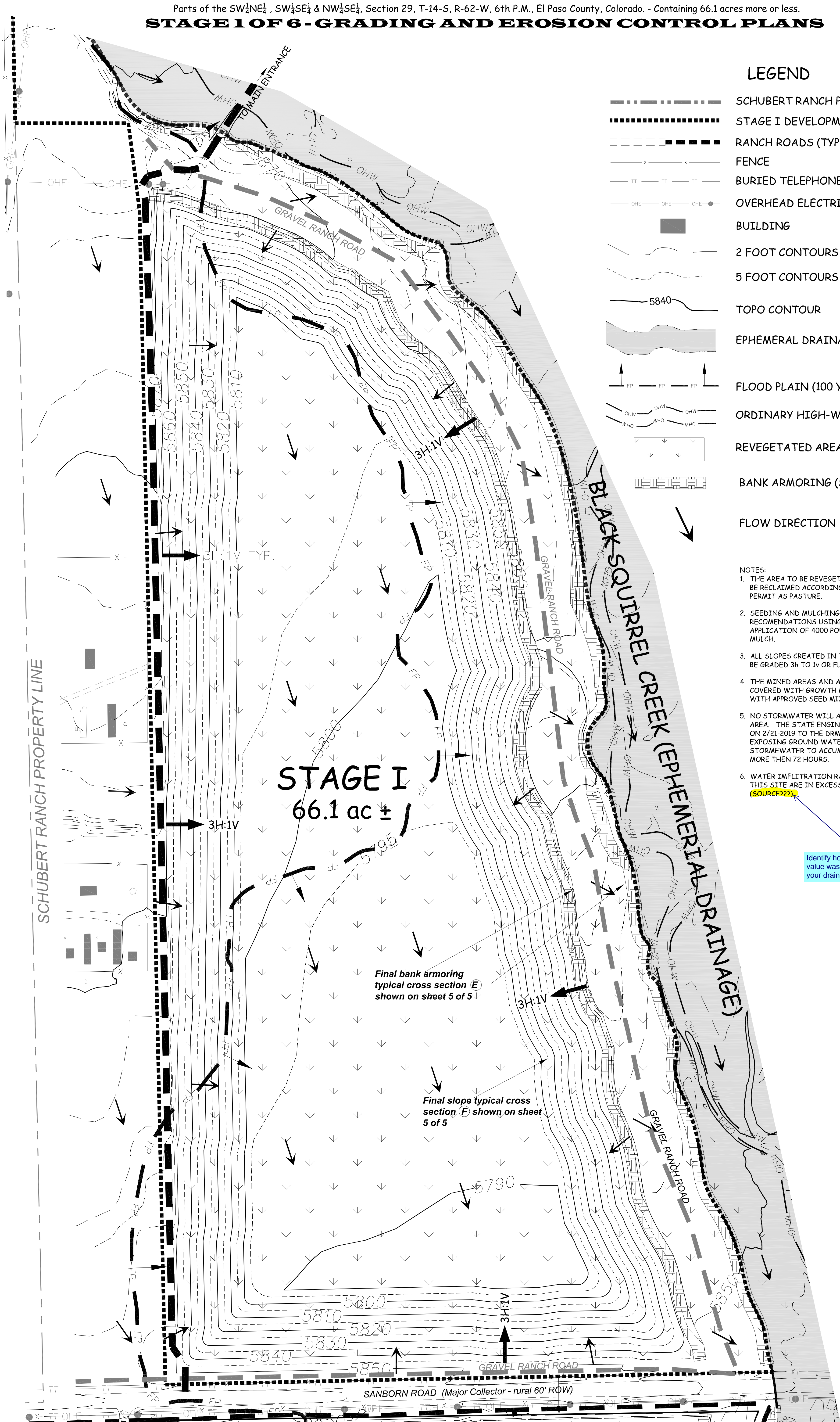


0 50 100 200
SCALE 1"=100'

PPR 23-04

PREPARED UNDER THE DIRECT SUPERVISION OF:

FOR AND ON BEHALF OF EL LICOTT SAND AND GRAVEL, LLC
DATE: 01/05/2023
FILE NAME: ESG-DP-GRADING
SCALE: AS NOTED
DRAWN BY: EMM/BS
CHECKED BY: RBH



STAGE I
66.1 ac ±

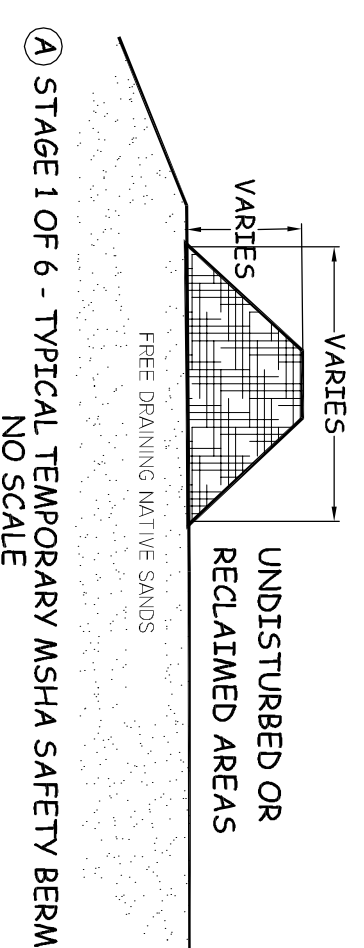
Final bank armoring typical cross section (E) shown on sheet 5 of 5

Final slope typical cross section (F) shown on sheet 5 of 5

ELLICOTT SAND AND GRAVEL LLC - SITE DEVELOPMENT PLAN

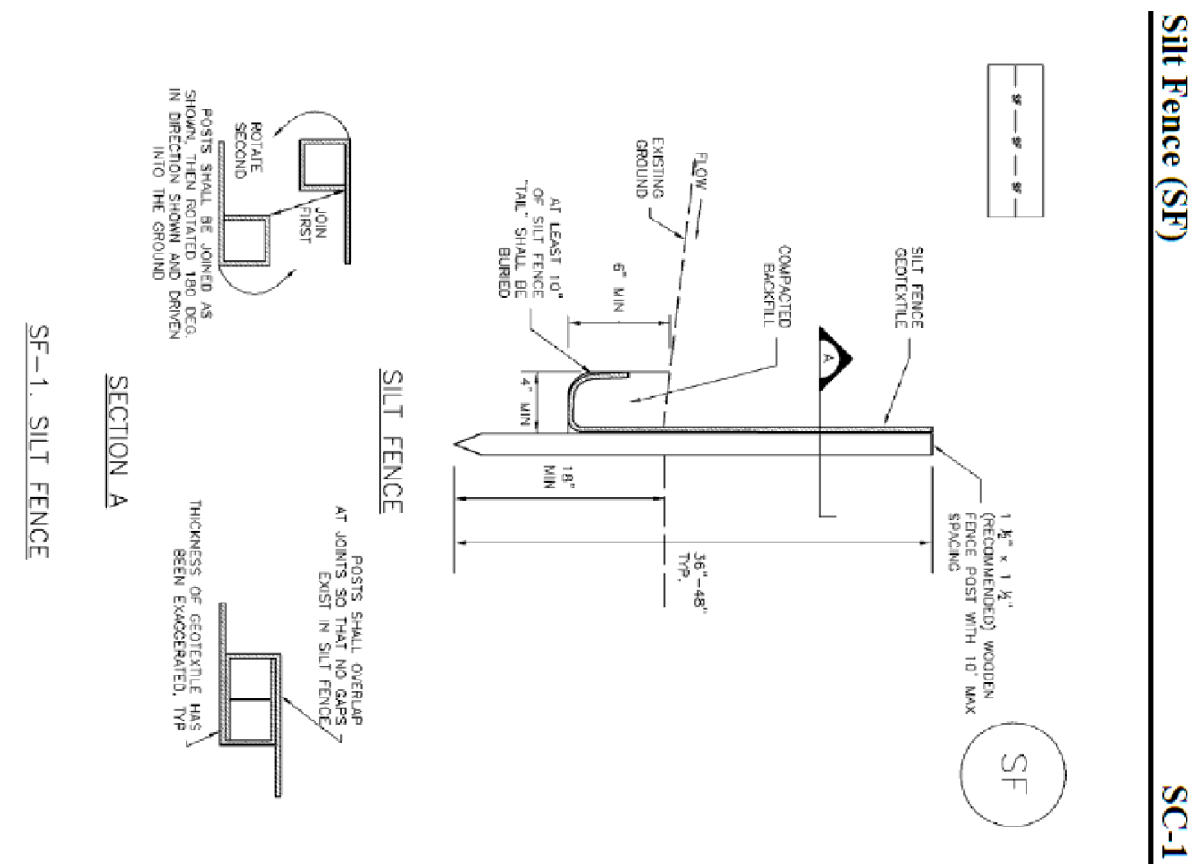
Parts of the SW¹/₄Sec1, SW²/₄Sec1, Section 29, T-14-S, R-62-W, 6th P.M., El Paso County, Colorado - Containing 66.1 acres more or less.

STAGE 1 OF 6 - GRADING AND EROSION CONTROL PLANS



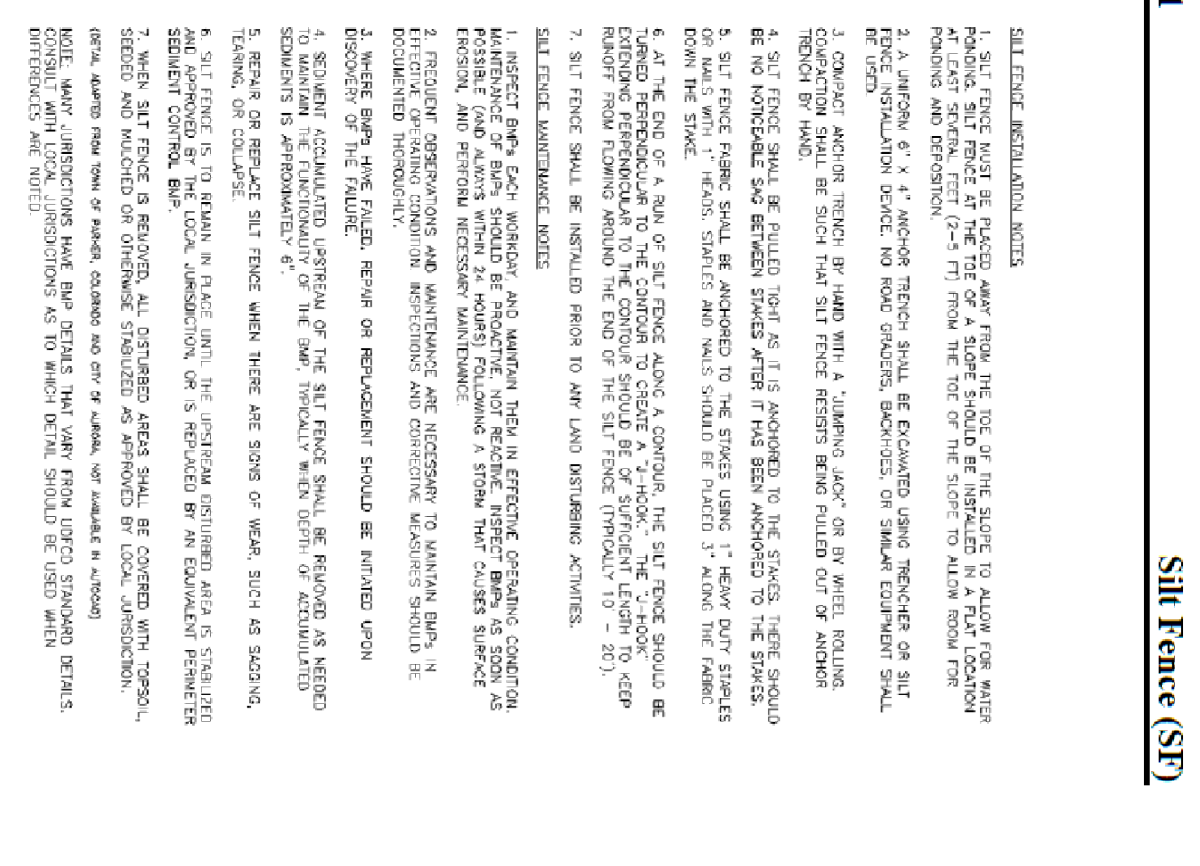
- 1) WILL BE CONSTRUCTED TO MEET HEALTH & SAFETY ADMINISTRATION STANDARDS (MSHA) TO PREVENT VEHICLES FROM ENTERING THE HAZARDOUS AREAS.
- 2) WILL HAVE STEEP SIDES AND ADEQUATE HEIGHT TO PREVENT HEAVY EQUIPMENT FROM CROSSING.
- 3) LOCATION OF SAFETY BERMS WILL CHANGE AND MAINTAINED AS NEEDED DURING THE LIFE OF THE MINE.
- 4) WILL BE REMOVED DURING RECLAMATION OF ADJOINING SLOPES - OR WHEN DETERMINED TO BE NO LONGER NEEDED FOR SAFE OPERATIONS.

TEMPORARY SAFETY BERMS



November 2019 Utah Damages and Flood Control District Utah Storm Drainage System Manual Volume 3

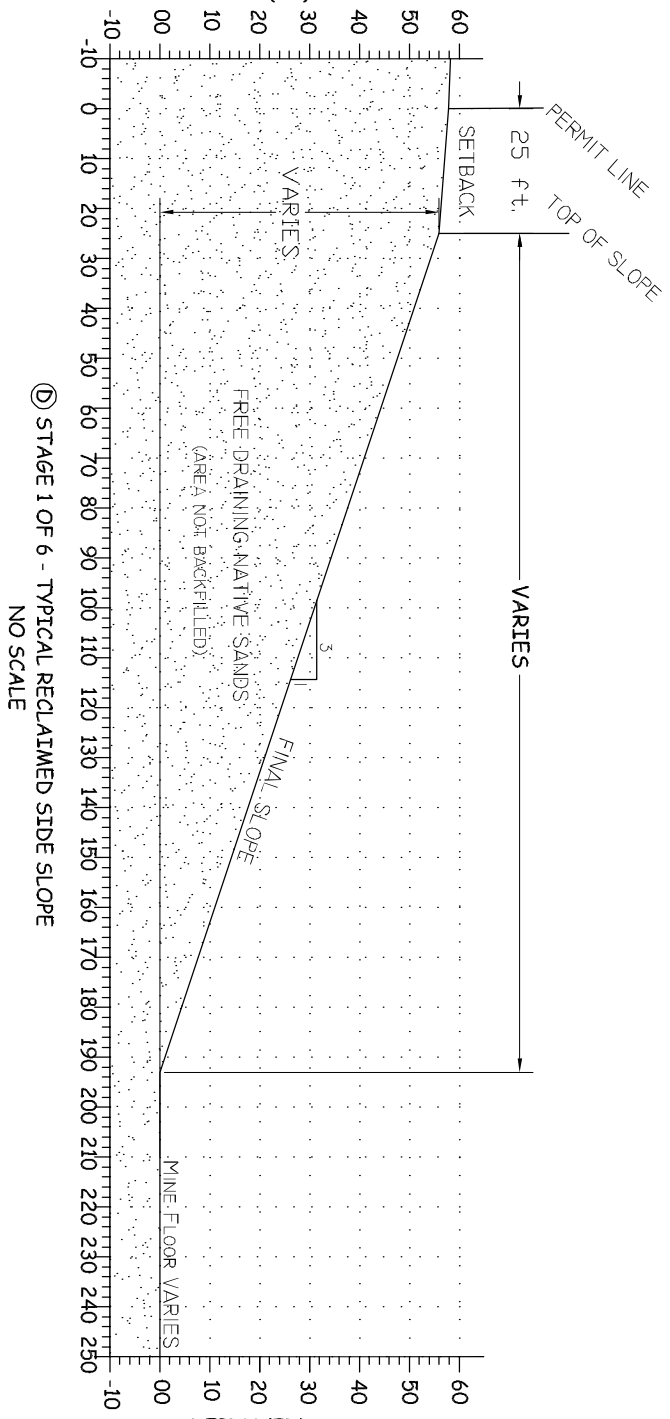
SE-1 SILT FENCE



SE-1 SILT FENCE

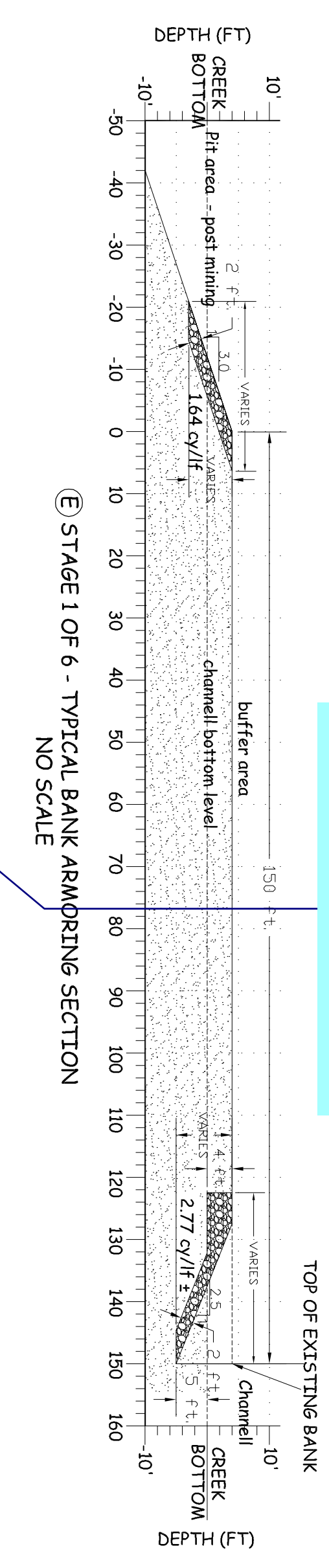
November 2019 Utah Damages and Flood Control District Utah Storm Drainage System Manual Volume 3

SE-1 SILT FENCE



- 1) ALL EXTERIOR SLOPES WILL BE GRADED INTO THE MINED AREA AND RECLAIMED PER THE DIVISION OF RECLAMATION, MINING AND SAFETY APPROVED RECLAMATION PLAN.
- 2) RECLAMATION WILL RUN CONCURRENT WITH MINING, MEANING AS MINING PROGRESS WHEN THE FINAL SLOPING AND RESOLVED COMPLETE AND THE AREA WILL NOT BE REDISTURBED IT WILL BE SEEDED TO REDUCE THE AMOUNT OF SHE DRAINAGE AT ONE TIME.
- 3) SLOPES FROM THE SURFACE TO THE FLOOR WILL BE GRADED 3H:1V OR FLATTER.
- 4) GROWTH MEDIUM STORED IN THE SIGHT BERMS WILL BE RESPREAD OVER THE AREA TO BE SEEDED.
- 5) THE MINED AREA WILL BE REVEGETATED WHEN RESOLVED IS COMPLETE, IT WILL BE DONE DURING THE RECOMMENDED SEASON FOR DRYLAND SEEDING.
- 6) INFORMATION PROVIDED ON THIS SECTION MAY CHANGE AS MINING PROGRESSES DUE TO VARIATIONS IN THE MATERIAL DEPTH, THE DEPTH TO THE WATER TABLE AND LOCATION IN MINING AREA.

FINAL SLOPE GRADING



As stated in this mile high flood district document, the guidelines are intended as minimum requirements for mining operators within their District. Analysis shall be provided to show that the proposed armoring is sufficient and adequate for this floodplain that is outside of the District. Provide the analysis in a damage report by a licensed engineer.

EMERGENCY DRAINAGE BANK AND MINED BANK PROTECTION PLAN

This bank protection plan is presented to explain the bank armoring on both side of the Black Squared Creek and Black Squared Creek within the historic banks so the excavation areas will not capture of a epic flood event were to occur after reclamation is complete. The minimum width of the top of the armored banks will be 150 feet. We have followed the 2013 Utah Damages and Flood Control District (UDFCO) Publication guideline document site, Ellicott Sand & Gravel LLC has no view or predict is or when a storm event could occur that would cause flooding outside the historic channel. The armor is intended to define the channel and protect the banks should a 100 year event occur after an area has been mined. All armoring done in or along the dry channel will be done outside the Ordinary Highwater Line (OHWL) to avoid flooding a U.S. Army Corps of Engineers permit. The excavations around the permit area the armoring locations will change to meet the conditions at that time. The armoring will be covered with a final layer of growth medium and seeded with the approved seed mix.

We have no information on the flow velocities or volume of flows for a 100 year event in this stretch of Black Squared Creek. The 100-year Floodplain information provided by El Paso County has been added to all of the Map Exhibits in the Reclamation Packet and is shown as a blue line. There are several items that will be done to both armored areas. In general, all armoring material will be recycled concrete fragments with surface material covered that meets the definition of inert materials. There will be no exposed rebar in the concrete and it will be sized 1/2 to 24 inches with a few larger pieces and those mixed in to fill voids. The use of the armoring will be a minimum of 3 feet below the existing creek channel thalweg as described below. ES&G will keep enough material stored on the mine to complete armoring needed on an area as it is mined and ready for armoring. As a minimum, 500 cubic yards of stockpiled concrete will be used for each 1000 linear feet of channel. The concrete will be placed parallel to the water flow so it will not interfere with flows in the flood plain. Flooding occurs and within the 150 foot setback so it is close to the area where it will be placed.

The attached Figure 1 shows the cross section of the areas discussed below and details of the armoring to be placed along the channel. The location of the areas to be armored in the mine.

EL PASO COUNTY SITE DEVELOPMENT PLAN
CROSS SECTION DETAILS
 FOR
SCHUBERT RANCH SAND RESOURCE
 ELLICOTT, COLORADO

REVISIONS:	DATE:
SPECIAL USE PERMIT APPROVAL - BCC	08-02-2022

ELLICOTT SAND AND GRAVEL LLC
 235 Francerville Coal Mine Road | Colorado Springs Co. 80929
 phone: (602) 558-0846

PPR 23-04

FOR AND ON BEHALF OF ELLICOTT SAND AND GRAVEL LLC

CHECKED BY:	EN/MSB
DRAWN BY:	NA
SCALE:	
ESG-DP GRADING	
FILE NAME:	01/05/2023
DATE:	

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SHEET 5 of 5