Transit Mix Concrete Co.

HITCH RACK RANCH QUARRY

M-2017-049

Permit Application Package

Submitted to

Colorado Division of Reclamation Mining and Safety

In Compliance with the

Mineral Rules and Regulations

of the

Colorado Mined Land Reclamation Board

for the

Extraction of Construction Materials

And Section 34-32.5-102 of the Colorado Land Reclamation Act for the Extraction of Construction Materials

October 30, 2017

Transit Mix Concrete Co.

October 30, 2017

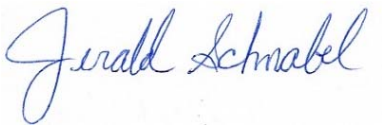
Ms. Amy Eschberger
Colorado Division of Reclamation, Mining and Safety
1313 Sherman, Suite 215
Denver, CO 80203

Subject: Responses to Preliminary Review of 112 Permit Application for Transit Mix Concrete Company, Hitch Rack Ranch Quarry, M-2017-049

Dear Ms. Eschberger,

Transit Mix Concrete Co. (TMCC) is pleased to submit responses to the preliminary review comments for the Applicant's 112 permit application for the proposed Hitch Rack Ranch Quarry operation (M-2017-049). TMCC has addressed the comments by revising text in the various exhibits or by including the information requested. Responses to each comment are also listed in the attached document. Please do not hesitate to contact me or our Norwest consultant, Paul Kos, if you have any questions.

Sincerely,



Jerald Schnabel
President
Transit Mix Concrete Company

Attachments:
- Original copy of application exhibits
- Copies (2) of application exhibits
- USB drive with electronic versions of requested maps
- Responses to comments

Transit Mix Concrete Co.

RESPONSES TO FILING DEFICIENCIES ON HITCH RACK RANCH QUARRY PERMIT APPLICATION M-2017-049

APPLICATION FORM:

1) **Comment:** On page 4, under section 15, the application lists "vehicle fuel" as a designated chemical or acid-producing material. Designated chemicals are typically utilized in metallurgical processing for the extraction of precious metals. Acid-producing materials are natural or reworked earth materials having acidic or toxic chemical and physical characteristics. The Division does not consider vehicle fuel to be a designated chemical or acid-producing material. If the operation will not utilize designated chemicals or expose acid-producing materials, please state such under section 15 of the application form.

   Response: The application form has been updated with "None" entered for Section 15.

2) **Comment:** On page 8, Certification, the Applicant's company name must be exactly the same as it is registered with the Colorado Secretary of State. Specifically, "Co." was not included in the company name and again in the section completed by the notary public. Please submit a replacement page 8 with these corrections.

   Response: Page 8 of application form has been resubmitted.

3) **Comment:** Pursuant to Rule 1.4.5(2)(b)(iii), please submit an affidavit that notice signs were posted on site pursuant to Rule 1.6.2(1)(b). A sample affidavit is provided in the 112c permit application package, immediately following page 8 of the application form.

   Response: The affidavit has been included with this submittal.

EXHIBIT A – Legal Description:

4) **Comment:** Pursuant to Rule 6.4.1(1)(b), please provide in this Exhibit the location of the main entrance to the site reported as latitude and longitude, or as Universal Transverse Mercator (UTM).

   Response: The exhibit has been revised to include the location of the main entrance in UTM coordinates.

5) **Comment:** Pursuant to Rule 6.4.1(2), please locate the main entrance to the mine site on a USGS topographic map showing latitude and longitude or Universal Transverse Mercator (UTM). Please ensure Exhibit A provides all information required under Rule 6.4.1(2).

Response: A map showing the mine entrance has been included in Exhibit A.

EXHIBIT B – Index Map:

6) **Comment:** To better show the regional location of the affected land, please indicate on the index map the location of the nearest city, Colorado Springs, in relation to the proposed affected lands.

7) **Comment:** Please label Highway 115 on the index map.

8) **Comment:** Please enhance the proposed permit boundary on the index map for clear reference.

Responses to Items 6, 7, and 8: The map has been revised to address these comments.

EXHIBIT C – Pre-Mining and Mining Plan Map(s) of Affected Lands:

9) **Comment:** Pursuant to Rule 6.4.3(a), please portray on Figure C-2 the adjoining surface owner of record for the parcel located immediately east of the proposed affected land boundary where the access road joins Highway 115 and east of the State of Colorado parcel no. 7600000138.

Response: The area east of parcel no. 7600000138 is the Fort Carson U.S. Army Installation. The El Paso County Assessor's website does not include a parcel number for Fort Carson. Figure C-2 has been revised to label the Fort Carson area.

10) **Comment:** Pursuant to Rule 6.4.3(e), please provide a map which portrays the type of present vegetation covering the affected lands. The application referred to Exhibit J, Figure 4 for the vegetation information. However, the application did not include a Figure 4 with Exhibit J.

Response: The Exhibit J figures have been included with this submittal.

EXHIBIT F – Reclamation Plan Map:

11) **Comment:** One of the copies of the application, Copy 2, Volume 1 of 2, includes page F-3, which was not provided in the application or other copies of the application. Page F-3 shows a portion of a map of the proposed access road. Please clarify whether a page F-3 or map was intended or if the extra page in Copy 2 was submitted in error. If page F-3 or map was intended, please submit four copies of this page or map in accordance with Rule 1.4.5(2)(b).

Response: Exhibit F should only contain the summary of regulations and maps F-1 and F-2. Page F-3 included in the copy was inadvertently left in the submittal.

EXHIBIT G – Water Information:

12) **Comment:** Pursuant to Rule 6.4.7(2)(a), please locate on a map in Exhibit C tributary water courses, wells, springs, stock water ponds, reservoirs, and ditches on the affected land and on adjacent lands where such structures may be affected by the proposed mining operations.

Response: Figure C-2 has been revised to include all water resources within 200 feet of the affected lands boundary.

13) **Comment:** One of the copies of the application, Copy 1, Volume 1 of 2, includes an uncertified version of Figure G-14 – Typical Ditch Designs. Please submit a certified copy of Figure G-14 with the appropriate signature as necessary to satisfy the requirements of Rule 6.2.1(2)(b).

Response: A certified copy of Figure G-14 is included with this submittal.

14) **Comment:** One of the copies of the application, Copy 2, Volume 1 of 2, is missing page G-38. Please submit a copy of page G-38, to be included in Copy 2, as necessary to satisfy the requirements of Rule 1.4.5(2)(b).

Response: An additional copy of page G-38 has been included with this submittal.

EXHIBIT H – Wildlife Information:

15) **Comment:** One of the copies of the application, Copy 2, Volume 1 of 2, is missing page H-1. Please submit a copy of page H-1, to be included in Copy 2, as necessary to satisfy the requirements of Rule 1.4.5(2)(b).

Response: An additional copy of page H-1 has been included with this submittal.

EXHIBIT J – Vegetation Information:

16) **Comment:** Pursuant to Rule 6.4.10(2), please submit a map in Exhibit C, which shows the relation of the types of vegetation to existing topography.

Response: These maps have been included with this submittal.

EXHIBIT L – Reclamation Costs:

17) **Comment:** The Figure L-1 and Figure L-2 submitted with the digital copies are not identical to the Figure L-1 and Figure L-2 submitted with the original and all hard

copies. The digital copies have different images, text, and legends. They also have a different date (Sept. 5, 2017) than the date provided on the hard copies (Oct. 3, 2017). Please send replacement copies for the correct version of these figures. If the hard copy versions are correct, then please send replacement digital copies.

Response: The October 3, 2017 version of these maps is correct. New copies and a digital copy of the maps dated October 30, 2017 is included with the submittal.

EXHIBIT Q – Proof of Notices:

18) **Comment:** On page Q-2, the application includes photographs of the public notice posted at the location of the proposed mine site, intended to demonstrate compliance with Rule 1.6.2(1)(b). These signs include a public comment period deadline of October 31, 2017. However, until the application has been filed, and the last date for the newspaper publication required by Rule 1.6.2(1)(d) is known, the public comment period cannot be established. Pursuant to Rule 1.7.1(2)(a), the public comment period closes 20 calendar days after the last date of the newspaper publication. Please correct the error in notice by posting new notices (signs) which do not indicate a specific comment period deadline, as this information is not required for this type of notice.

Response: The sign has been updated so there is no date shown. Once the public comment period deadline is known, the sign will be updated with the correct date. Photos of the signs are included with this submittal.

19) **Comment:** On page Q-3, the application provides a draft newspaper public notice and notice to landowners, which indicate a public comment period deadline of November 30, 2017. As noted above, this date cannot be determined at this time. Please correct the deadline stated on the notice before it is distributed. Pursuant to Rule 1.6.6, if an error in notice occurs, the Applicant may be required to re-notice. In the event the Applicant is required to issue a new notice, all applicable deadlines for the application shall begin anew.

Response: The newspaper public notice and notice to landowners will be revised to include the correct date.

20) **Comment:** On page Q-3, the application proposes publishing the notice in the Colorado Springs Business Journal. Please be advised, the Division does not consider the Colorado Springs Business Journal to be a newspaper of general circulation as required by Rule 1.6.2(1)(d). The Division would consider the Colorado Springs Gazette to be a newspaper of general circulation in the locality of the proposed mining operation.

Response: The newspaper public notice will be published in the Colorado Springs Gazette.

21) **Comment:** One of the copies of the application, Copy 1, Volume 2 of 2, is missing page Q-12, notice to landowner Barbara L. Hughes. Please submit a copy of page Q-12 to satisfy the requirements of Rule 1.4.5(2)(b).

Response: An additional copy of page Q-12 has been included with this submittal.

EXHIBIT S – Permanent Man-Made Structures:

22) **Comment:** One of the copies of the application, Copy 1, Volume 2 of 2, does not include the notary for structure owner page for Barbara L Hughes and Judy Kline. Please submit a copy of this page to satisfy the requirements of Rule 1.4.5(2)(b).

Response: An additional copy of the notary page has been included with this submittal.

EXHIBIT 6.5 – Geotechnical Stability Exhibit:

23) **Comment:** In the original application, the first two figures following page 17 of the Norwest Corporation Memorandum regarding Hitch Rack Ranch Pit Wall Geotechnical Assessment -Rev. 0, are not provided, but were provided with the copies of the application. In the original application, portions of the figures were submitted on letter-sized paper rather than as complete, full-size maps. These two figures are titled "Plan View and Cross Section Locations" and "Geophisical Survey Results". Please submit complete copies of these figures to satisfy the requirements of Rule 1.4.5(2)(b).

Response: Full-scale maps have been included with this submittal.

Additional Items:

24) **Comment:** The Division identified a discrepancy between the original application submittal versus the copies regarding how the date is written in the professional engineer stamp on all documents and figures. In the original application, the date is written as "10-3-2017". However, in the copies, it is written as "Oct. 3, 2017". Therefore, the Division is concerned the documents and figures submitted with the copies may not be the same versions as those submitted with the original. The Division understands it to be an acceptable practice in this State for professional engineers to affix their signature and date to separate reproduced copies of an original. Therefore, the difference in how the date was written on the stamp on the original versus the copies does not necessarily imply the documents and figures are different versions of the original.

Please address the Division's concern, and satisfy the requirements of Rule 1.4.5(2)(b), by completing one of the following two options:

a) Submit true copies of all stamped documents and figures submitted with the original application, which display the exact same engineer stamp, signature, and date; or

b) Submit an affidavit signed by the professional engineer, Paul Kos of Norwest Corporation, attesting that all copies of stamped documents and figures submitted with the application are identical, besides the date on the engineer stamp being written in a different format.

Response: Original documents and copies displaying the exact same engineer stamp, signature and date are included with this submittal.

25) **Comment:** In Exhibit Q, the application provided proof of notice to all owners of record of the affected land, adjacent landowners, and easement owners for Little Turkey Creek Road. If notice already occurred, they were premature. Pursuant to Rule 1.6.2(1)(e), the Applicant shall mail or personally serve a copy of the newspaper notice, required under Rule 1.6.2(1)(d), immediately after the first publication to:

a) All Owners of Record of the surface and mineral rights of the affected land; and

b) The Owners of Record of all land surface within 200 feet of the boundary of the affected lands.

Therefore, notices are required for the above listed Owners of Record immediately after the first newspaper publication. The newspaper notice and notice to the Owners of Record shall provide a correct date whereby public comment are due.

Response: These notifications were mailed, and new notices will be mailed with the correct date once the first newspaper public notice is published.

12. **Primary future (Post-mining) land use (check one)**:

☐ Cropland(CR)	☐ Pastureland(PL)	☐ General Agriculture(GA)
☐ Rangeland(RL)	☐ Forestry(FR)	☑ Wildlife Habitat(WL)
☐ Residential(RS)	☐ Recreation(RC)	☐ Industrial/Commercial(IC)
☐ Developed Water Resources(WR)		☐ Solid Waste Disposal(WD)

13. **Primary present land use (check one)**:

☐ Cropland(CR)	☐ Pastureland(PL)	☐ General Agriculture(GA)
☐ Rangeland(RL)	☐ Forestry(FR)	☑ Wildlife Habitat(WL)
☐ Residential(RS)	☐ Recreation(RC)	☐ Industrial/Commercial(IC)
☐ Developed Water Resources(WR)		

14. **Method of Mining**: Briefly explain mining method (e.g. truck/shovel): Drill and blast granite highwall bench sequence, truck and shovel to crusher

15. **On Site Processing**: ☑ Crushing/Screening

13.1 Briefly explain mining method (e.g. truck/shovel): Crushing, screening, and stockpiling of numerous aggregate specifications

List any designated chemicals or acid-producing materials to be used or stored within permit area: None

16. **Description of Amendment or Conversion**:

If you are amending or converting an existing operation, provide a brief narrative describing the proposed change(s).

Certification:

As an authorized representative of the applicant, I hereby certify that the operation described has met the minimum requirements of the following terms and conditions:

1. To the best of my knowledge, all significant, valuable and permanent man-made structure(s) in existence at the time this application is filed, and located within 200 feet of the proposed affected area have been identified in this application (Section 34-32.5-115(4)(e), C.R.S.).

2. No mining operation will be located on lands where such operations are prohibited by law (Section 34-32.5-115(4)(f), C.R.S.;

3. As the applicant/operator, I do not have any extraction/exploration operations in the State of Colorado currently in violation of the provisions of the Colorado Land Reclamation Act for the Extraction of Construction Materials (Section 34-32.5-120, C.R.S.) as determined through a Board finding.

4. I understand that statements in the application are being made under penalty of perjury and that false statements made herein are punishable as a Class 1 misdemeanor pursuant to Section 18-8-503, C.R.S.

This form has been approved by the Mined Land Reclamation Board pursuant to section 34-32.5-112,C.R.S., of the Colorado Land Reclamation Act for the Extraction of Construction Materials. Any alteration or modification of this form shall result in voiding any permit issued on the altered or modified form and subject the operator to cease and desist orders and civil penalties for operating without a permit pursuant to section 34-32.5-123, C.R.S.

Signed and dated this 23rd day of October 2017, _____.

Transit Mix Concrete Co.
Applicant/Operator or Company Name

If Corporation Attest (Seal)

Signed: Jerald Schnabel

Title: President

Signed: _____
Corporate Secretary or Equivalent
Town/City/County Clerk
Controller, Ass't Treasurer

State of Colorado)
) ss.
County of El Paso)

The foregoing instrument was acknowledged before me this 23rd day of October, 2017, by Jerald Schnabel as President of Transit Mix Concrete Co.

KAY SANCHEZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074002949
My Commission Expires 02-22-2019

Kay Sanchez
Notary Public

My Commission expires: 02-22-2019

SIGNATURES MUST BE IN BLUE INK

You must post sufficient Notices at the location of the proposed mine site to clearly identify the site as the location of a

proposed mining operation. The following is a sample of the Notice required for Rule 1.6.2(1)(b) that you may wish to use.

NOTICE

This site is the location of a proposed construction materials operation. (Name of the Applicant/Operator) Transit Mix Concrete Co., whose address and phone number is (Address and Phone Number of the Applicant/Operator) 444 E. Costilla St. 719-475-0700, has applied for a Reclamation Permit with the Colorado Mined Land Reclamation Board. Anyone wishing to comment on the application may view the application at the (County Name) El Paso County Clerk and Recorder's Office, (Clerk and Recorder's Office Address) 1675 West Garden of the Gods, and should send comments prior to the end of the public comment period to the Division of Reclamation, Mining, and Safety, 1313 Sherman St, Room 215, Denver, Colorado 80203.

Certification:

I, Jerald Schnabel, hereby certify that I posted a sign containing the above notice for the proposed permit area known as the (Name of Operation) Hitch Rack Ranch Quarry, on (Date Posted) September 25, 2017,

.

Jerald Schnabel
SIGNATURE

October 23, 2017
DATE

EXHIBIT A
LEGAL INFORMATION

EXHIBIT A
LEGAL DESCRIPTION

The legal description of the 398.88 acre Hitch Rack Ranch Quarry permit boundary and this permit application, according to quarter, quarter section is: Portions of SW1/4 of NE1/4, SW1/4 of NW1/4, NW1/4 of NW1/4, SE1/4 of NW1/4, NE1/4 of NW1/4, SW1/4 of SE1/4, NW1/4 of SE1/4, SE1/4 of SE1/4, NE1/4 of SE1/4, NE1/4 of SW1/4, and NW1/4 of SW1/4 of Section 16; plus portions of SW1/4 of NE1/4, NW1/4 of NE1/4 SE1/4 of NE1/4, NE1/4 of NE1/4 of Section 21; and portions of SW1/4 of NW1/4, SE1/4 of NW1/4, SW1/4 of NE1/4, NW1/4 of NE1/4, SE1/4 of NE1/4, NE1/4 of NE1/4 of Section 22, and portions of NW1/4 of NW1/4 of Section 23, Township 16 South, Range 67 West of the 6th P.M., El Paso County, Colorado, as shown on the various maps contained in this permit application.

The entrance to the mine site is located at Easting 511,754.3 m E, Northing 4,277,578.9 m N, UTM NAD 1983, Zone 13 NAD 1983, Zone 13.

CERTIFICATION STATEMENT

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

LEGEND

Proposed Permit Boundary

NORWEST CORPORATION

0 1000 2000 3000
FEET

From USGS Mount Big Chief and Cheyenne Mountain Quadrangles

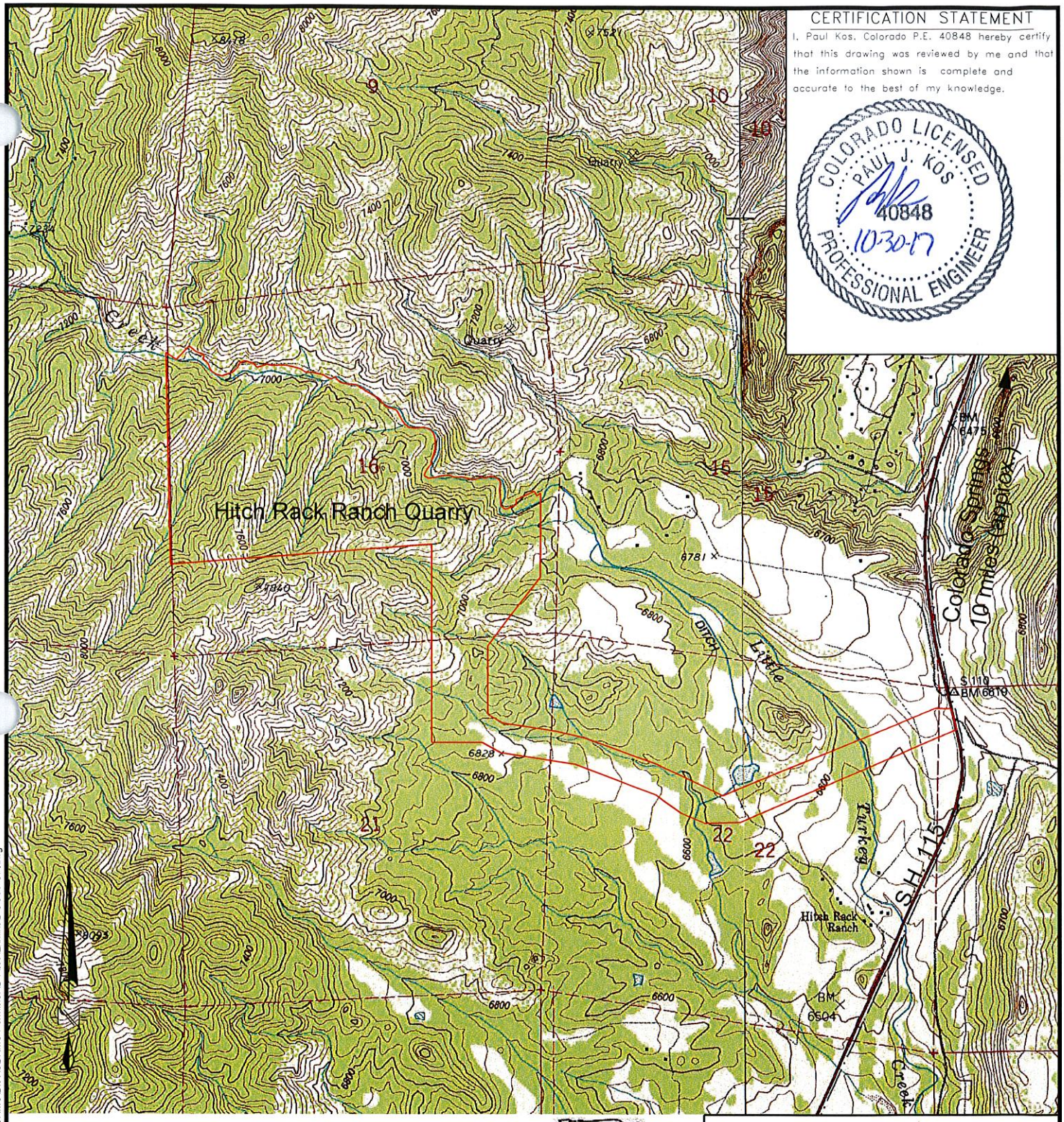
TRANSIT MIX CONCRETE CO.

EXHIBIT A
INDEX MAP

DRAWN: PK	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: NORWEST	DATE REVIEWED: Oct 30, 2017		
DRAWING: Exhibit B CO83-CF.dwg			

Oct 30, 2017 - 12:... ransit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Exhibit B CO83-CF.dwg

EXHIBIT B
INDEX MAP



CERTIFICATION STATEMENT

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

LEGEND

Proposed Permit Boundary

NORWEST CORPORATION

0 1000 2000 3000
FEET

From USGS Mount Big Chief and Cheyenne Mountain Quadrangles

TRANSIT MIX CONCRETE CO.

EXHIBIT B INDEX MAP

DRAWN: PK	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: NORWEST	DATE REVIEWED: Oct 30, 2017		
DRAWING: Exhibit B CO83-CF.dwg			

Oct 30, 2017 - 12:... ransit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Exhibit B CO83-CF.dwg

EXHIBIT C
MINING PLAN MAPS
OF AFFECTED LANDS

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 PROFESSIONAL ENGINEER 10-30-17

Little Turkey Creek Road
West Fault
East Fault System
Topsoil Stockpile (TS1)
Plant
F2
Fines Stockpile (F1)
Quarry Area
F3
Deadman Creek
Little Turkey Creek
Little Turkey Creek Road
Highwall 115
Scale House
Topsoil Stockpiles - Access Road
Hitch Rack Ranch Road

Note: Drawing was prepared using best available data. Little Turkey Creek and Little Turkey Creek Road locations though mining area were surveyed by LWA Land Surveying, Inc. in June 2017. Contours, roads, drainages, and property boundaries are from El Paso County data clearinghouse and are based on a LIDAR flight from 2011.

LEGEND

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Plant/Facilities Area
- Existing Road
- Access Road
- Fines/Overburden Stockpile
- Topsoil Stockpile/Topsoil Windrow
- Distribution Line within 200ft of Disturbance
- Perennial Drainage
- Ephemeral Drainage
- Fault

0 600 1200 1800
FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure C-1
Hitch Rack Ranch Quarry
General Layout Map

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	Oct 30, 2017	591-6	As Shown
REVIEWER:	DATE REVIEWED:		
PK	Oct 30, 2017		

DRAWING: G:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-1_Site Layout.dwg

7600000153
PRINSTER RICHARD R LIVING TRUST

7600000011
UNITED STATES GOVERNMENT

7600000071
HANCOCK CHARLES H & DENISE A

7600000290
2390 PASEO CORTA ROAD LLC

7600000082
HUGHES BARBARA L &

7600000108
RMBC GROUP LLC

7600000109
RMBC GROUP LLC

7600000110
RMBC GROUP LLC

7600000111
RMBC GROUP LLC

7600000289
TURLEY MICHAEL J

LTC-GW-1

RMBC Group LLC

LITTLE TURKEY CREEK

SEEP AREA

7600000078
RASOLKHANI TASHA M

7600000081
DRY HEAD RANCH LLC

7600000113
RMBC GROUP LLC

7600000114
RMBC GROUP LLC

7600000115
RMBC GROUP LLC

LTC-GW-3

7600000112
RMBC GROUP LLC

LTC-GW-4

RMBC Group LLC

LTC-GW-5

RMBC Group LLC

LTC-GW-7

LTC-GW-6

LTC-GW-2

7600000243
2390 PASEO CORTA ROAD LLC

7611002049
BERG JOSEPH E

7611002018
DAILEY WILLIAM C JR

7611002021
KELLY VERLE L JR & KATHLEEN D

7611002046
TALLENT KAY TRUST

7611002023
CHOUGH LEO

7611002022
GARD JOHN P

7610001002
CHISNELL BRUCE H

7611003005
BERRIOS LUIS SR

7610001010
HAKALA JODY DEAN

7610001011
HODGES BEVERLY A

7610001006
BELL HEIDE M

7610002006
ATKINSON WESLEY J

7611003008
FINAN SHAWN C

7610001005
CLARK JOHN B JR

7614001018
HARPER CHARLES M

7615002014
NABB ALVIN

7614001019
HINTZ STEVEN J

7615001015
FLORES MARTIN M

7615002015
WOODS CLAUDE S

7614001015
KOSCOVE JOSEPH H

7615002003
KAUSSEN YOUNG J

7615002004
PORTER JAMES R

7614001020
TROUTT KENNETH A

7615002005
GERBER ANN L

7615001017
CAMPBELL TODD A

7615001013
STOM MARIE E & CARROLL G

7615002006
BRIGHT DANIELA I

7614001017
MAXIMENKO LIVING TRUST

7615001004
CUMBA RAYMOND JR

7614001010
BRICE CHARLTON L

7615002013
SALAZAR JOSEPH JR

7615003006
RAWSON STANLEY I

7615002008
FELLOWS ANNE F

7615002012
KILLINGER MERRILEE J

7615003008
SINN ALICE V

7615002011
BETHEA CHARLES

7615003002
INGHAM CHERYL L

7615003003
ROGERS LONNIE T

7615003004
SWONGER JAMES A

7615004019
LARRABEE DONALD C JR

7615004010
BAIRD KENNETH R

7615004009
FREI JOSEPH F

7615004020
LARRABEE DONALD C JR

7615004017
MCCOWEN GARY K

7615004007
HUGHES WAYNE D & CAROL J

7615004005
MILLER JEAN A

7615004013
JOHNSTON DOUGLAS L

7615004014
ELLISON KAREN A

7615004012
PORTER RICHARD A

7615004015
GROEN BENJAMIN

FORT CARSON

7615000001
LIHS MICHAEL

7615000003
WEKAMP DOUGLAS LEE

7615000002
DEAN ELIZABETH W

7615000004
BLAIR RONALD D

7615000005
GOW CHRISTINE A

7600000118
RMBC GROUP LLC

7600000117
RMBC GROUP LLC

7600000116
RMBC GROUP LLC

7600000165
RMBC GROUP LLC

RMBC Group LLC

SCHLUCKEBIER HEADGATE AND DITCH

7600000011
UNITED STATES GOVERNMENT

7600000120
STATE OF COLORADO

7600000121
STATE OF COLORADO

7600000162
STATE OF COLORADO

7600000161
RMBC GROUP LLC

7600000123
RMBC GROUP LLC

7615004021
DEAN ELIZABETH W

7615000006
RMBC GROUP LLC

Fort Carson

Colorado Spring Utilities

FORT CARSON

RMBC Group LLC

GLEN CAIRN RESERVOIR

Century Link

7600000139
RMBC GROUP LLC

7600000138
STATE OF COLORADO

7600000164
RMBC GROUP LLC

Black Hills Energy

7600000097
RMBC GROUP LLC

7600000028
NATURE CONSERVANCY

State of Colorado

FORT CARSON

7600000163
STATE OF COLORADO

7600000099
INGERSOLL HAROLD C

7600000096
DIAZ ENTERPRISES LLC

FORT CARSON

Legend

- HRR_MW
- PROPERTY BOUNDARY
- 200ft OFFSET FROM PERMIT BOUNDARY
- PERMIT BOUNDARY
- WATER RESOURCE
- AFFECTED LAND BOUNDARY
- ROADS
- DAM
- DISTRIBUTION LINE
- FENCE
- TELEPHONE/DATA CABLE
- GATE
- CULVERT
- PRIVATE LAND
- STATE OF COLORADO
- UNITED STATES GOVERNMENT

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was revied by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 10-30-17 PROFESSIONAL ENGINEER

N

0 600 1,200 1,800 Feet

NORWEST CORPORATION

TRANSIT MIX CONCRETE COMPANY

Figure C- 2
Hitch Rack Ranch
Property and Structure Ownership Map

DRAWN: NL	DATE: October 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: NORWEST	DATE REVIEWED: October 30, 2017		
DRAWING: Figure C-2.mxd			

BLOCK MODEL BOUNDARY

8 9 10 7 16 15

B1 B2 B3 B4 B5 B6

HC001-15 HC002-15 HC003-15 HC004-15 HC005-15 HC006-15 HC007-15

MW-LTC-1 MW-LTC-2 MW-LTC-3 MW-LTC-4 MW-LTC-5 MW-LTC-6 MW-LTC-7

NORTH RIDGE GRANITE

SOUTH RIDGE GRANITE & DIABASE

NORTHEAST RIDGE GRANITE

MICA QUARRY AREA GRANITE & PEGMATITE

EAST FAULT ZONE GRANITE & PEGMATITE

SANDSTONE

DEADMAN CREEK FAULT ZONE

LITTLE TURKEY CREEK FAULT ZONE

WEST FAULT

LEGEND

- PROPERTY BOUNDARY
- PERMIT BOUNDARY
- AFFECTED LANDS BOUNDARY

DRILL HOLES

- B1 COMPLETED 2014
- HC001-15 COMPLETED 2015
- INCLINED HOLE PLAN VIEW TRACE
- MW-1 MONITORING WELL COMPLETED 2017
- MICA QUARRY

SURFACE DRAINAGE

- PERENNIAL DRAINAGE
- EPHEMERAL DRAINAGE

SURFACE TOPOGRAPHY

- CONTOUR INTERVAL 10FT

SURFACE GEOLOGY ZONES

- BASEMENT ROCK - AGGREGATE
- CREEK BED FAULT ZONE
- EAST FAULT ZONE
- SANDSTONE
- FAULT TRACE

GRID COORDINATES
COLORADO CENTRAL STATE PLANE NAD83
T16S, R62W, SECTION 16

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown, is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 PROFESSIONAL ENGINEER

0 250 500 750
FEET

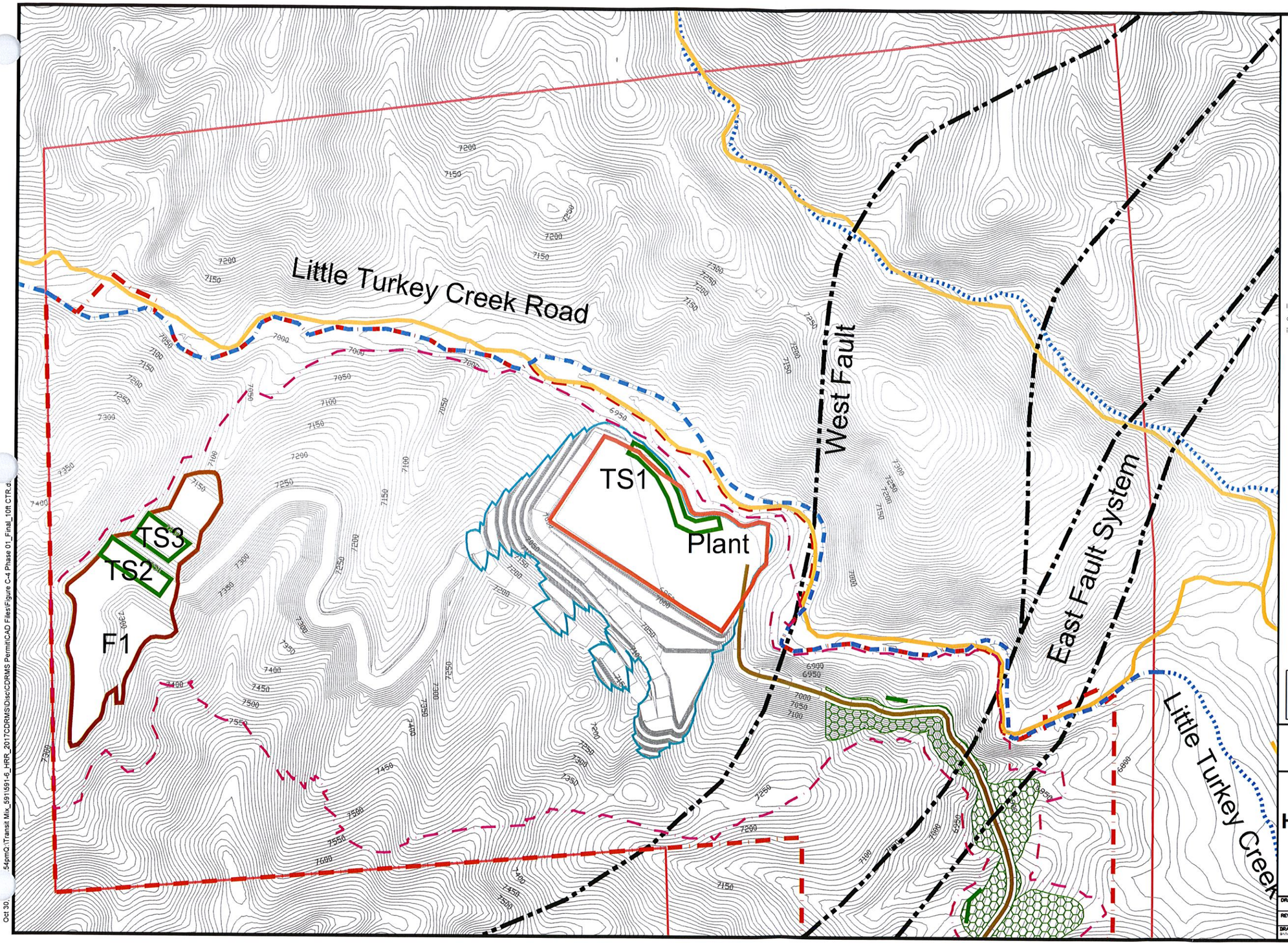
NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure C-3
Hitch Rack Ranch
Geology Plan

DRAWN:	DL	DATE:	Oct 30, 2017	PROJECT NO.	591-6	SCALE:	As Shown
REVISED:	PK	DATE REVISED:	Oct 30, 2017				

DRAWING: P:\Project Mx_591\591-6_HRR_2017\DRWG\Dec\CDWG Permit\CAD Files\Figure C-3_HRR Geology Plan_8-3-17.dwg



Legend

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Plant/Facilities Area
- Fault
- Existing Road
- Access Road
- Fines/Overburden Stockpile
- Topsoil Stockpile
- Perennial Drainage
- Ephemeral Drainage
- Reclamation Area

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

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Figure C-4
Hitch Rack Ranch Quarry
Staging Drawing
Mining Phase I

DRAWN:	DATE:	PROJECT NO.	SCALE:
SC	Oct 30, 2017	591-6	As Shown
REVIEWED:	DATE REVIEWED:		
PK	Oct 30, 2017		

DRAWING: S:\Transit Mix_591591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-4 Phase 01_Final_10ft CTR.dwg

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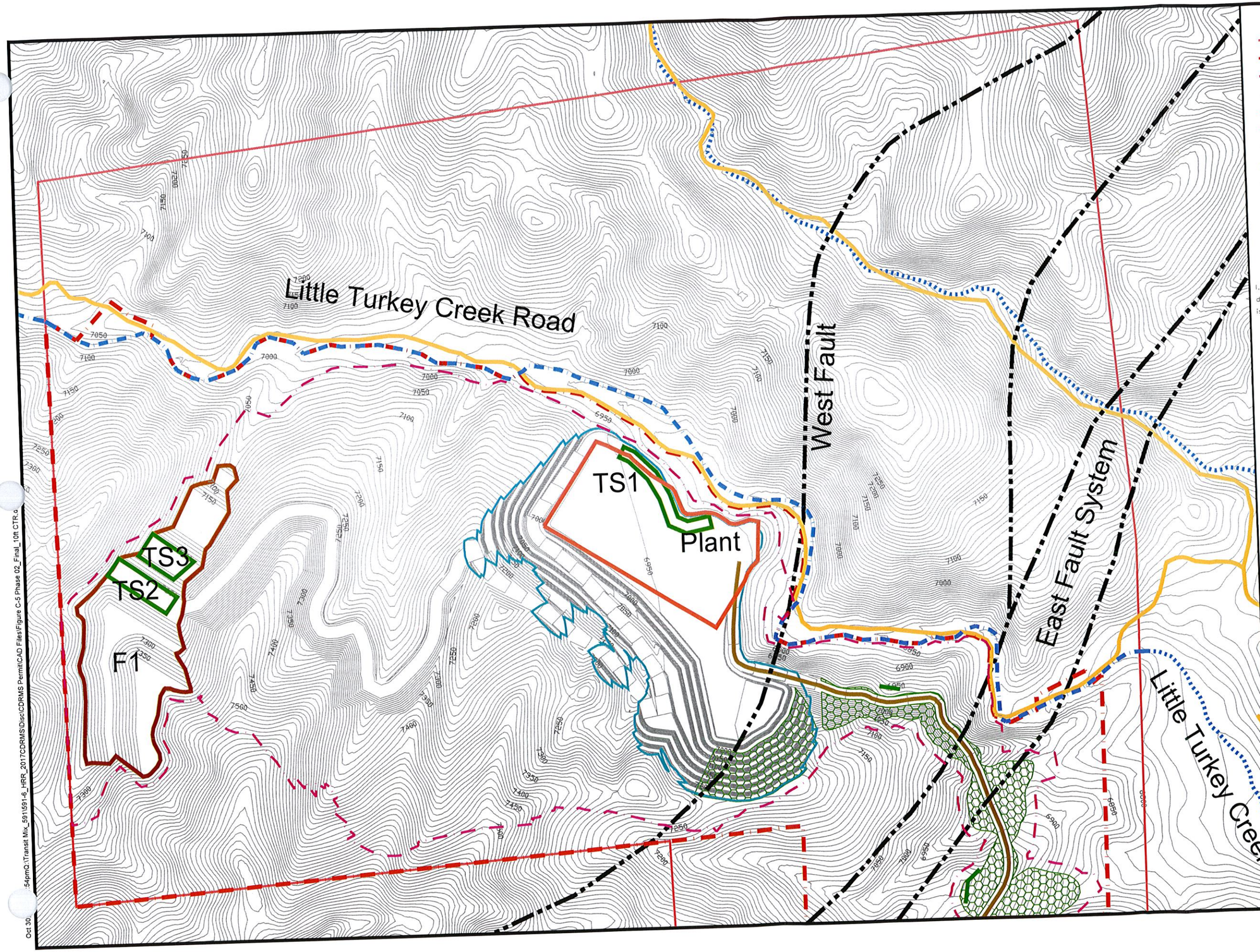

Legend

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Plant/Facilities Area
- Fault
- Existing Road
- Access Road
- Fines/Overburden Stockpile
- Topsoil Stockpile
- Perennial Drainage
- Ephemeral Drainage
- Reclamation Area

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PAUL J. KOS
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PROFESSIONAL ENGINEER

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Figure C-5
Hitch Rack Ranch Quarry
Staging Drawing
Mining Phase II

DRAWN: SC	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: G:\Transit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-5 Phase 02_Final_10ft CTR.dwg

Oct 30 ...54pm Q:\Transit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-5 Phase 02_Final_10ft CTR.dwg

Little Turkey Creek Road

F2

TS1

Plant

TS2

F1

TS4

F3

West Fault

East Fault System

Little Turkey Creek

Legend

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Plant/Facilities Area
- Fault
- Existing Road
- Access Road
- Fines/Overburden Stockpile
- Topsoil Stockpile
- Perennial Drainage
- Ephemeral Drainage
- Reclamation Area

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Figure C-6
Hitch Rack Ranch Quarry
Staging Drawing
Mining Phase III

DRAWN: SC	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: J:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-6 Phase 03_Final_10ft CTR.dwg

Oct 30, 2017 - 1:53pm G:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-6 Phase 03_Final_10ft CTR.dwg

Little Turkey Creek Road

West Fault

East Fault System

Little Turkey Creek

F2

TS1

Plant

TS2

F1

TS4/F3

Legend

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Plant/Facilities Area
- Fault
- Existing Road
- Access Road
- Fines/Overburden Stockpile
- Topsoil Stockpile
- Perennial Drainage
- Ephemeral Drainage
- Reclamation Area

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PROFESSIONAL ENGINEER

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Figure C-7
Hitch Rack Ranch Quarry
Staging Drawing
Mining Phase IV

DRAWN:	DATE:	PROJECT NO.	SCALE:
SC	Oct 30, 2017	591-6	As Shown
REVIEWER:	DATE REVIEWED:		
PK	Oct 30, 2017		

DRAWING: G:\Transit Mix_591\591-6_HRR_2017\CDRMS\Dsc\CDRMS Permit\CAD Files\Figure C-7 Phase 04_Final_10Ft CTR.dwg

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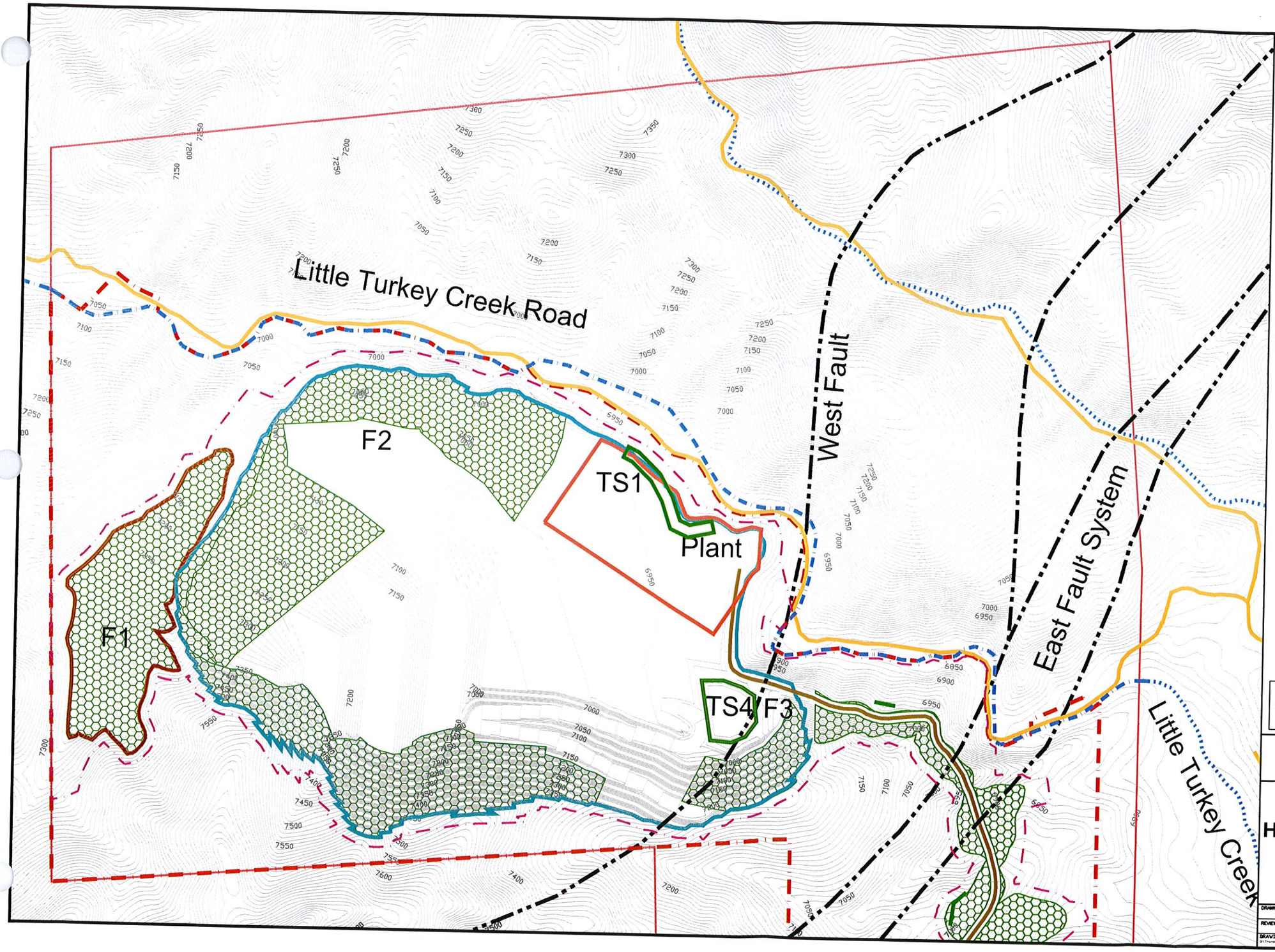

Legend

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Plant/Facilities Area
- Fault
- Existing Road
- Access Road
- Fines/Overburden Stockpile
- Topsoil Stockpile
- Perennial Drainage
- Ephemeral Drainage
- Reclamation Area

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PROFESSIONAL ENGINEER

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TRANSIT MIX CONCRETE CO.

Figure C-8
Hitch Rack Ranch Quarry
Staging Drawing
Mining Phase V

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	October 30, 2017	591-6	As Shown
REVIEWER: PK	DATE REVIEWED: October 30, 2017		

DRAWING: G:\Transit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-8 Phase 05_Final_10ft CTR.dwg

Oct 30, 2017 - 1:24pm G:\Transit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-8 Phase 05_Final_10ft CTR.dwg

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10-30-17
PROFESSIONAL ENGINEER

Little Turkey Creek Road
West Fault
East Fault System
Deadman Creek
Little Turkey Creek
Little Turkey Creek Road
Highwall 115
Little Turkey Creek
Hitch Rack Ranch Road
F2
F3
Fines Stockpile (F1)
Quarry Area
Scale House

LEGEND

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Existing Road
- Access Road
- Perennial Drainage
- Ephemeral Drainage
- Fault
- Reclamation Area

0 600 1200 1800
FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure C-9
Hitch Rack Ranch Quarry
Final Reclamation Phase

DRAWN: JDS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

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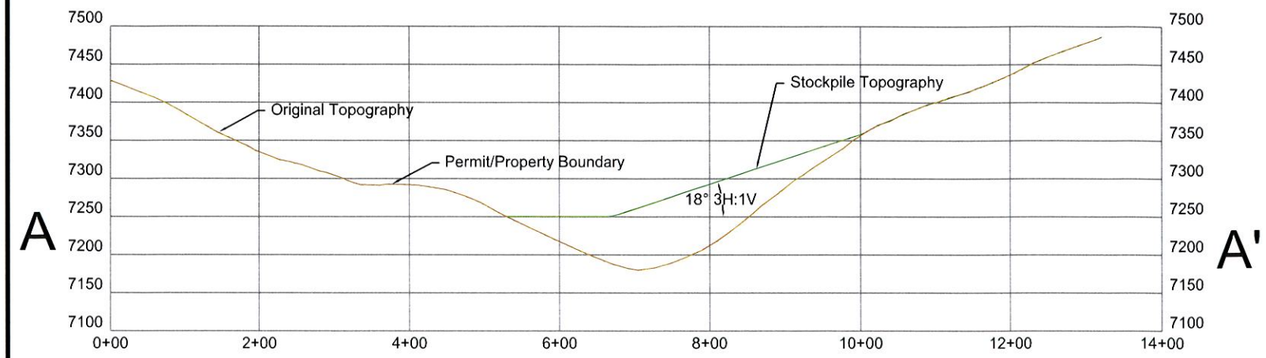
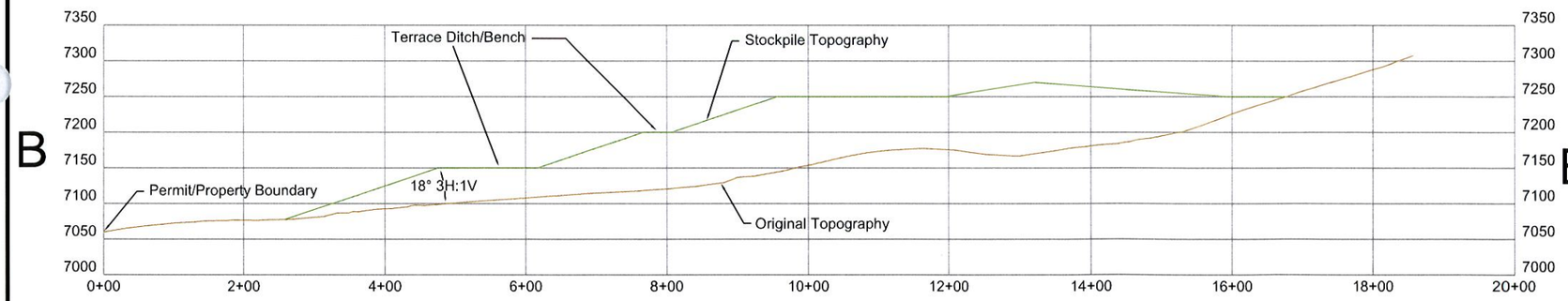
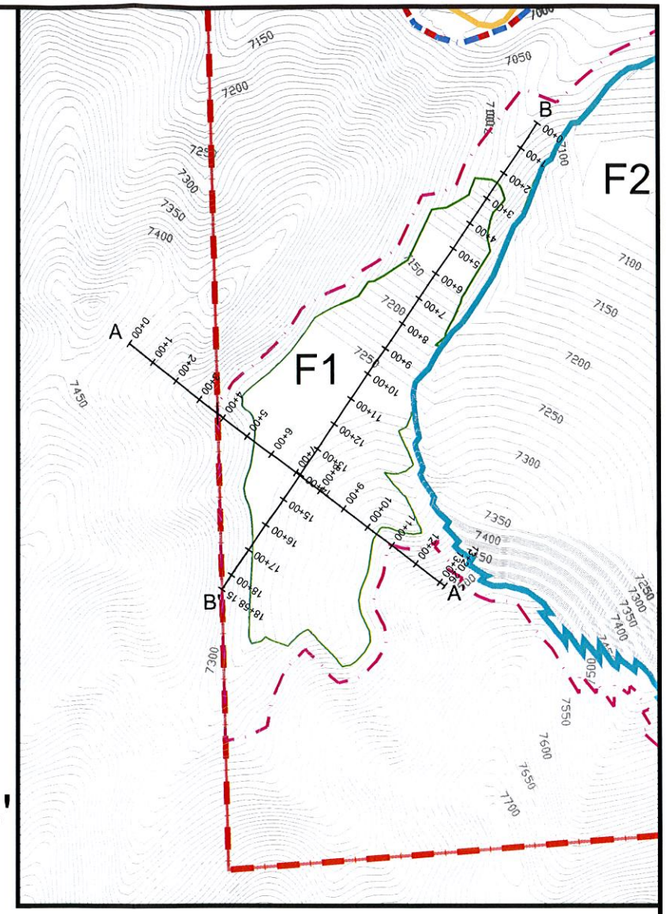
O:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-9 Phase 06.dwg







0 250 500 750
FEET

NORTH

NORWEST CORPORATION

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 PROFESSIONAL ENGINEER
10/30/17

TRANSIT MIX CONCRETE CO.

Figure C-9b
Hitch Rack Ranch Quarry
Fines/Overburden
Backfill Cross-Sections

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	Oct 30, 2017	591-6	As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: Figure 2 F1 Stockpile X-Sections_Phase 06.dwg

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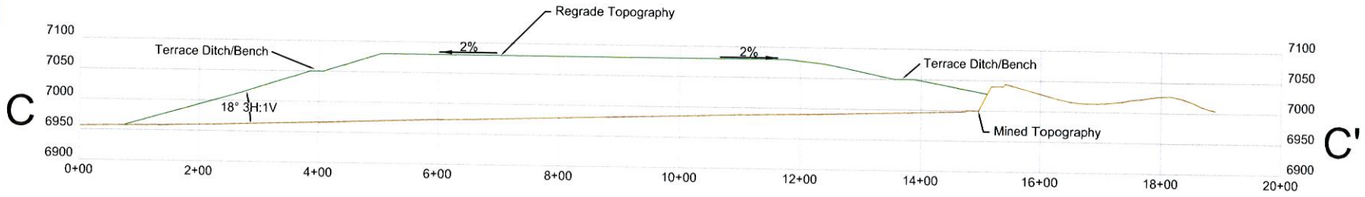
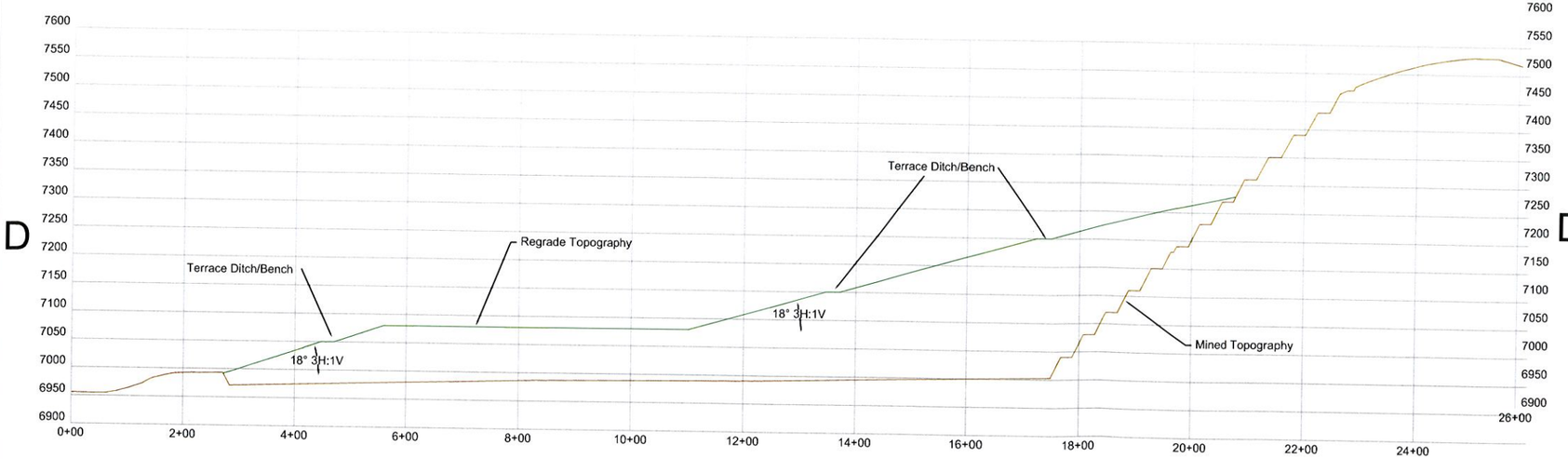
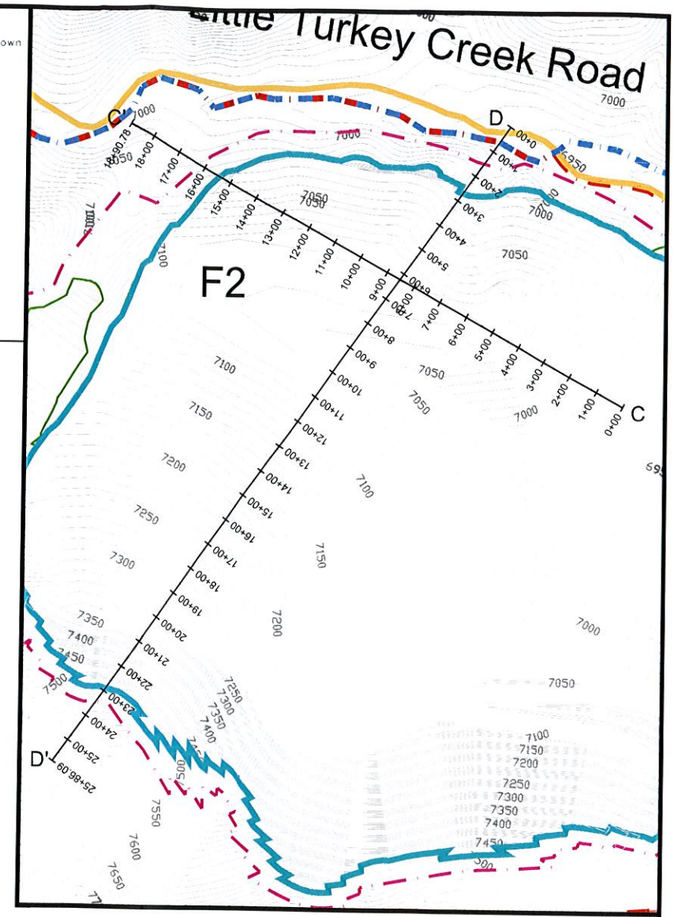






0 250 500 750
FEET

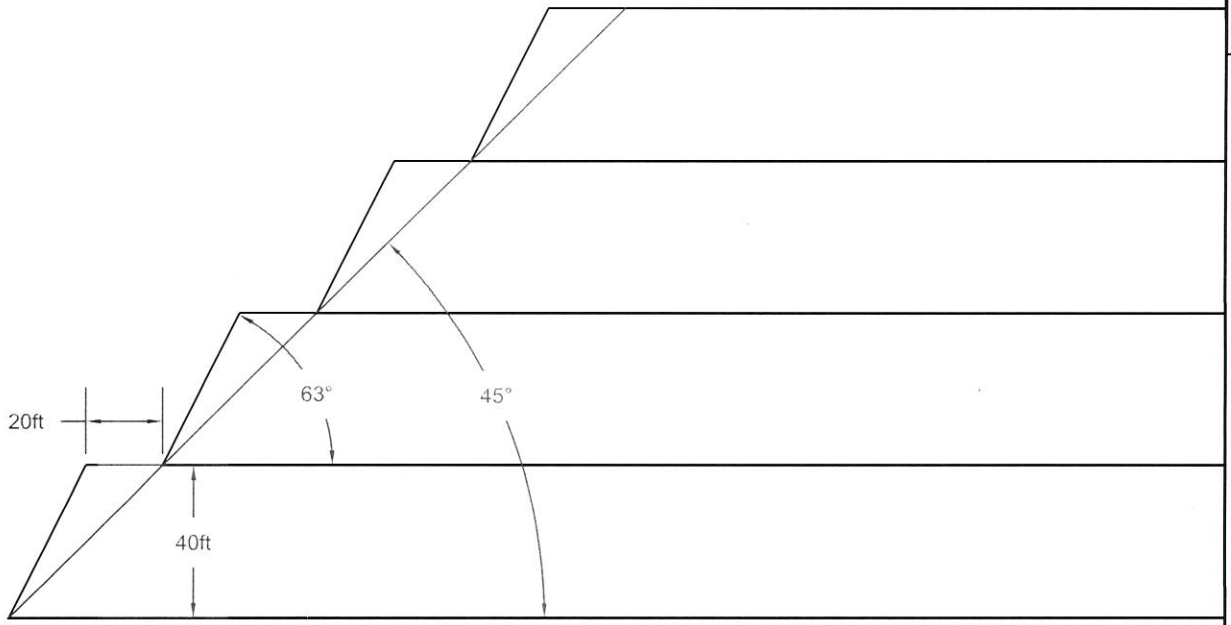
NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure C-9c
Hitch Rack Ranch Quarry
Fines/Overburden
Backfill Cross-Sections

DRAWN: JDS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		
DRAWING: Figure 3 F2 Stockpile X-Section_Phase 06.dwg			

Oct 30, 2017 - 2:00pm Q:\Transit Mix_591591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure 3 F2 Stockpile X-Section_Phase 06.dwg



I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

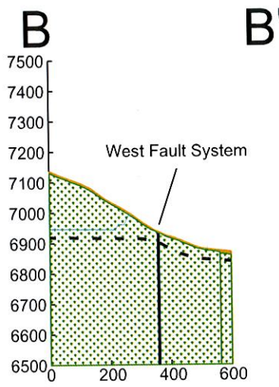
0 12.5 25 37.5 50
FEET

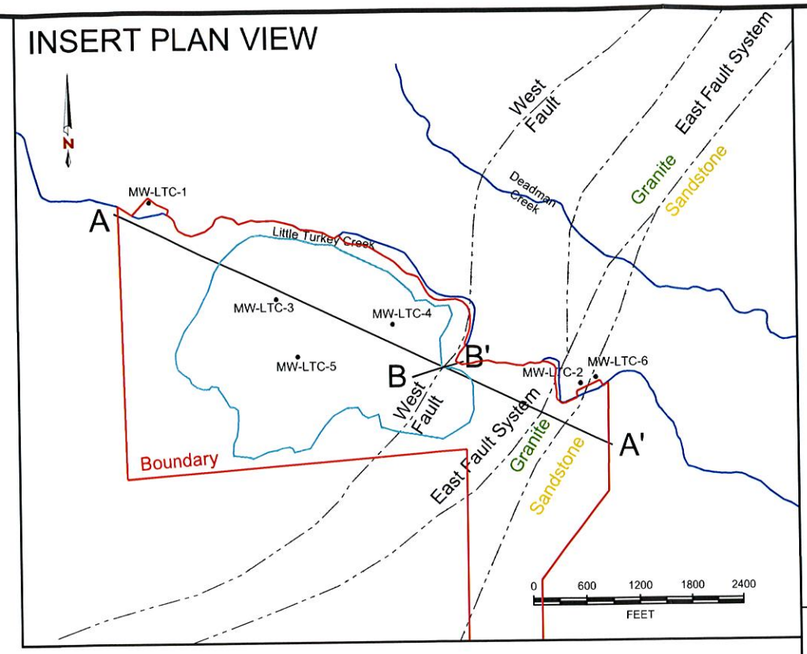
NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure C-10
Hitch Rack Ranch
Typical Highwall Cross-Section

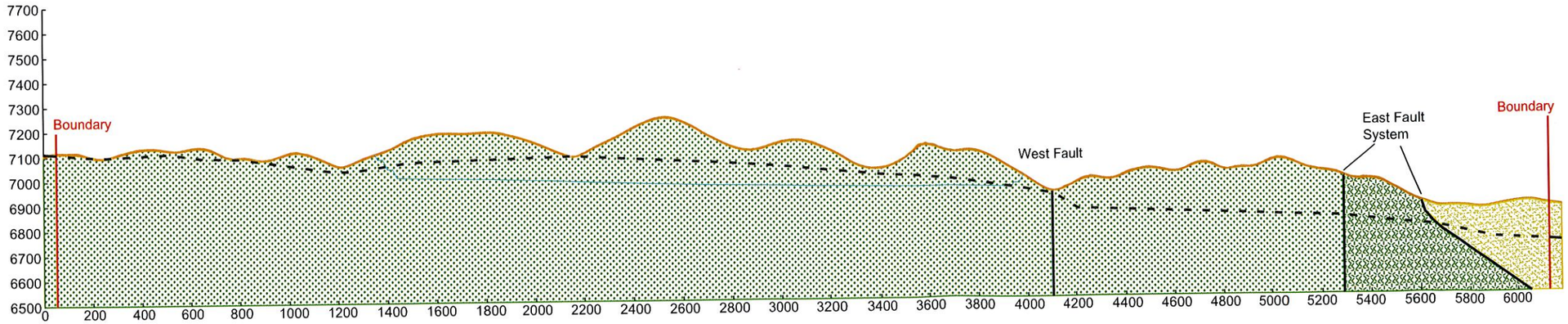
Drawn:	Date:	Project No.	Scale:
JDS	Oct 30, 2017	591-6	As Shown
Reviewed: PK	Date Reviewed: Oct 30, 2017		





Legend

- Top soil & unconsolidated
- Granite
- Granite & Pegmatite
- Granite & Fault Zone
- Sandstone
- Sandstone & Fault Zone
- Fault Trace
- Generalized Water Level
- Pit Outline



I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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10/30/17

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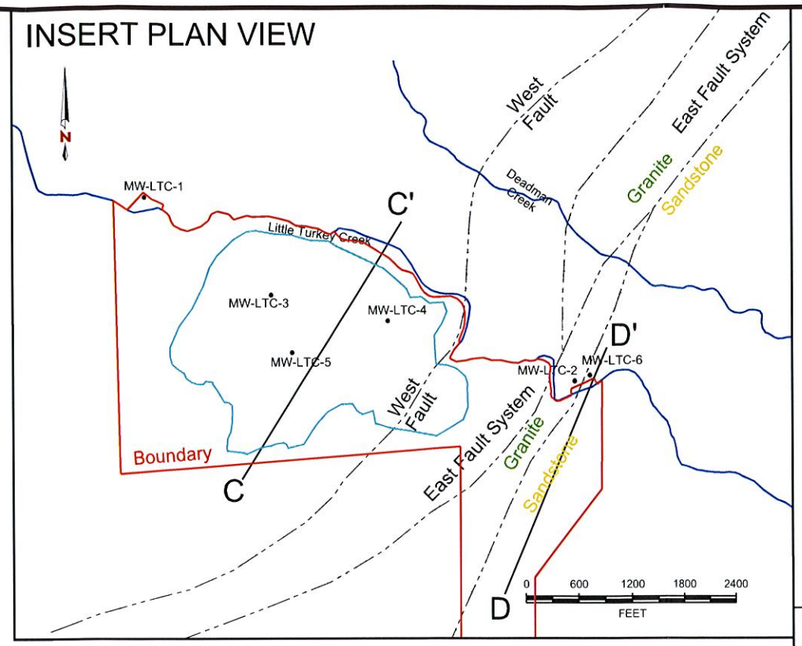
Figure C-11
Hitch Rack Ranch Quarry
Regional Structure
Cross Sections AA' & BB'

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	Oct 30, 2017	591-6	As shown in feet
REVIEWED: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING

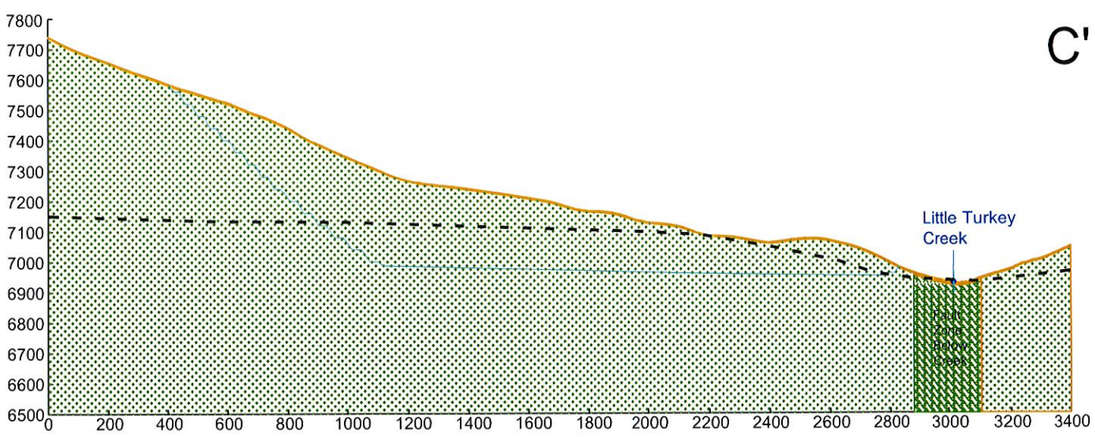
INSERT PLAN VIEW



Legend

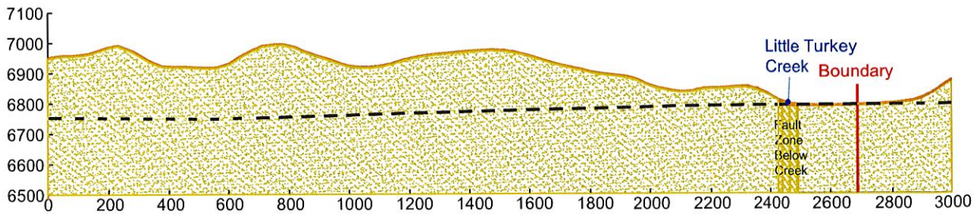
- Top soil & unconsolidated
- Granite
- Granite & Pegmatite
- Granite & Fault Zone
- Sandstone
- Sandstone & Fault Zone
- Fault Trace
- Generalized Water Level
- Pit Outline

C



C'

D



D'

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure C-12
Hitch Rack Ranch Quarry
Regional Structure
Cross Sections CC' & DD'

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	Oct 30, 2017	591-6	As shown in feet
REVIEWED: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: G:\Transit Mix_591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure C-11 and C-12 HRR_Sections Geohydo.dwg

EXHIBIT F
RECLAMATION PLAN MAP

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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PAUL KOS
40848
10-30-17
PROFESSIONAL ENGINEER

Little Turkey Creek Road
West Fault
East Fault System
Deadman Creek
Little Turkey Creek
Fines Stockpile (F1)
F2
Quarry Area
F3
Scale House
Highwall 115
Hitch Rack Ranch Road

LEGEND

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Topography (10ft Contour)
- Pit Crest
- Fault
- Existing Road
- Access Road
- Riparian Area
- Mixed Conifer
- Mountain Shrubland
- Grassland
- Perennial Drainage
- Ephemeral Drainage

0 600 1200 1800
FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure F-1
Hitch Rack Ranch Quarry
Final Reclamation Phase

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	Oct 30, 2017	591-6	As Shown
REVIEWER:	DATE REVIEWED:		
PK	Oct 30, 2017		

DRAWING:
Q:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure F-1 Reclamation_Final_10ft CTR.dwg

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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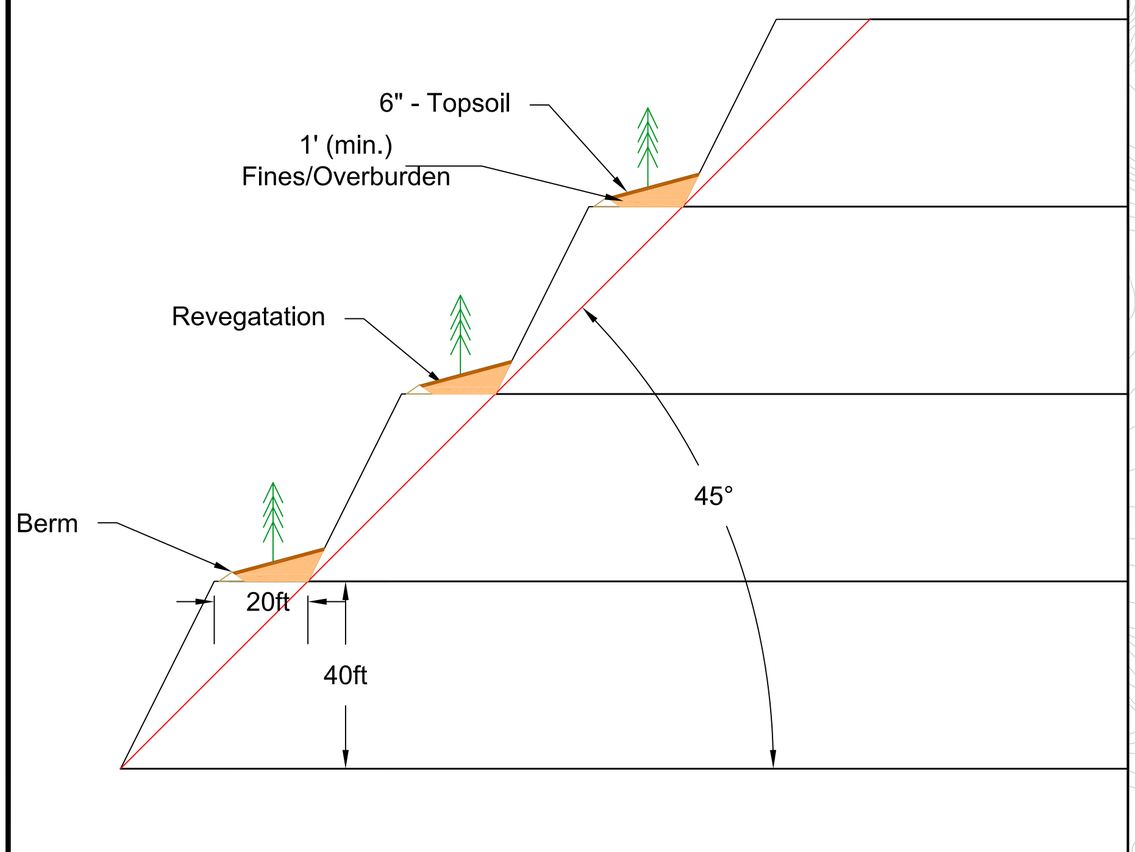
PAUL J. KOS
40848
PROFESSIONAL ENGINEER

Little Turkey Creek Road
West Fault
East Fault System
Deadman Creek
Little Turkey Creek
Little Turkey Creek Road
Highwall 115
Little Turkey Creek
Hitch Rack Ranch Road
F2
Fines Stockpile (F1)
Quarry Area
F3
Scale House



0 12.5 25 37.5 50
FEET

LEGEND

- Property Boundary
- Permit Boundary
- Affected Lands Boundary
- Pit Crest
- Fault
- Existing Road
- Access Road
- Riparian Area
- Mountain Shrubland
- Mixed Confiner
- Grassland
- Perennial Drainage
- Ephemeral Drainage
- Topography (10ft Contour)

0 600 1200 1800
FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure F-2
Hitch Rack Ranch Quarry Reclamation Topography and Cross Section Map

DRAWN:	DATE:	PROJECT NO.	SCALE:
JDS	Oct 30, 2017	591-6	As Shown
REVIEWER:	DATE REVIEWED:		
PK	Oct 30, 2017		

DRAWING:
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EXHIBIT G
WATER INFORMATION

Transit Mix has consulted with the State Engineer's office regarding permitting and mitigation measures to ensure that any impacts to ground water or the prevailing hydrology at the site will be fully remedied or, if necessary, that any *de minimis* depletions of groundwater are replaced. A request for a Groundwater Well Permit, and, if necessary, Substitute Water Supply Plan has been submitted to the State Engineer's office, even though no depletions associated with mining at the Quarry are projected.

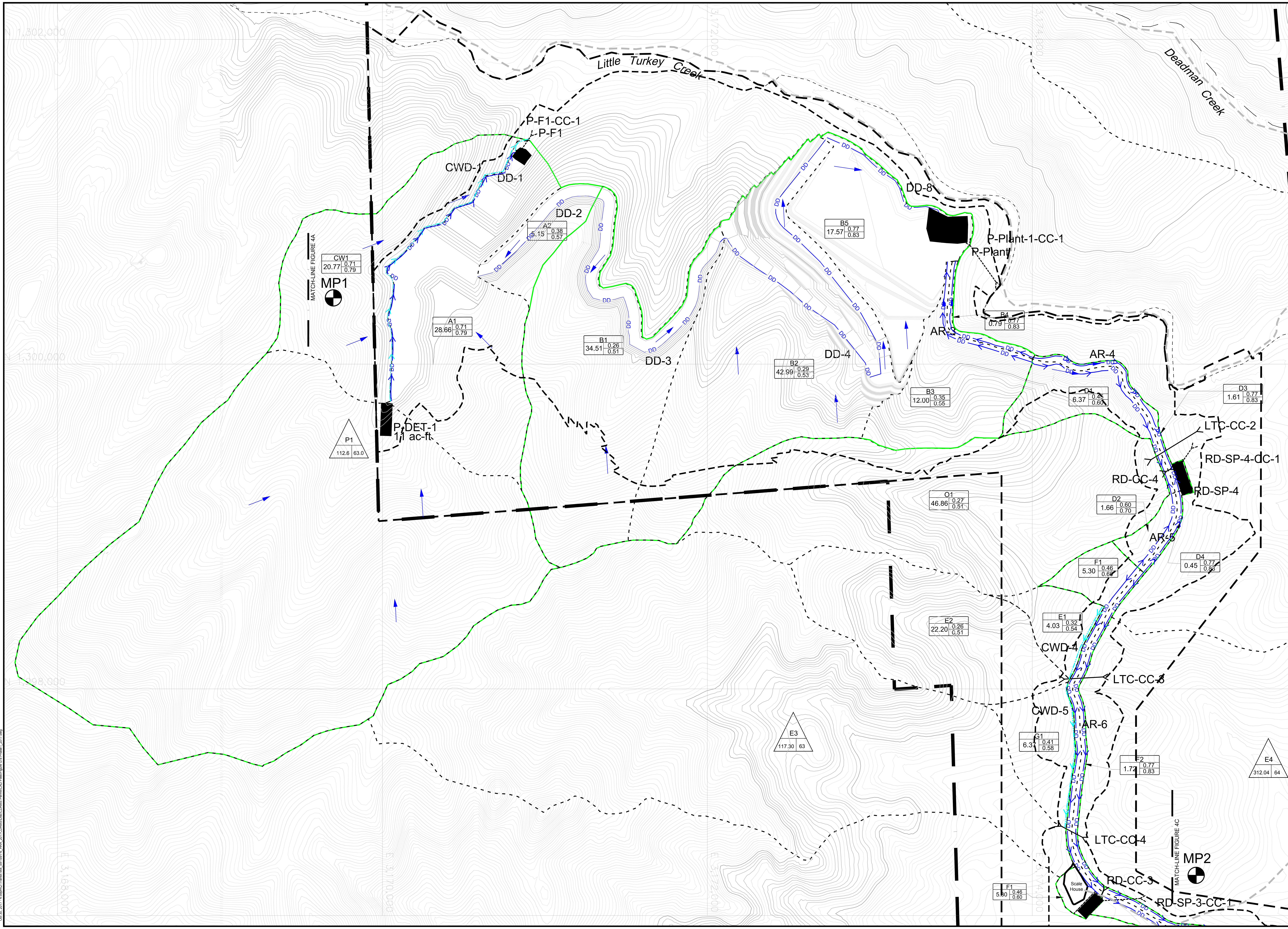
Transit Mix will operate the Quarry in a way such that any ground water encountered during mining will be allowed to drain or will be delivered to either Little Turkey Creek or the ground water system within the mine permit area. Transit Mix will control any ground water encountered while mining in a manner which prevents depletion and evaporation. All consumptive water uses at the Quarry, such as dust suppression and material washing, will be supplied exclusively with water trucked into the site from an off-site legal source.

Conclusion

Transit Mix has designed the Quarry to minimize impacts to the hydrologic balance, and this includes both the surface water and groundwater systems. Primarily, there are approximately 5.9 square miles of watershed upstream from the Quarry area which will remain unaffected. Similarly, all development will occur south of Little Turkey Creek. Surface water flows from these areas will not be affected in any manner by Quarry development. No runoff waters will be captured and used by the Quarry operations, and all these waters will be conveyed to downstream users. Runoff from disturbed areas will be temporarily detained in detention basins to remove sediment before the waters are discharged to Little Turkey Creek. The sediment basins have orifice plates to restrict outlet flows thus maintaining peak flows in Little Turkey Creek at rates similar to those which currently occur.

Impacts to the groundwater system are limited and localized and will be minimized by mine planning and operational procedures. As excavation will remain at least 10 feet above the level of the adjacent Little Turkey Creek, localized drawdown from Quarry development will remain above the creek elevation, and there will be no impacts to groundwater north of Little Turkey Creek or east of the project area. Intercepted groundwater south of Little Turkey Creek will cause drawdown of potentiometric levels in the fractured granodiorite; however, the very low bulk transmissive capacity of the fractured rocks limits the extent of the drawdown to the Quarry area and a small area west of the Ranch property.

An evaluation of potential drawdown impacts from the quarrying operation is described in more detail in Exhibit G-2. This evaluation indicates that a drawdown of between 1 and 5 feet might occur, at maximum development of the Quarry, at three domestic wells located within a half-mile west of the Ranch property along the south side of Little Turkey Creek. This minimal drawdown will likely have a negligible impact on the productivity of these domestic supply wells. One other well location, Permit #34643, is suspected of being incorrectly recorded with the State Engineer



I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL KOS 40848 10-30-17 PROFESSIONAL ENGINEER

LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- DD Disturbed Collection Ditch
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Pond Watershed Boundary
- Flow Direction
- Label / Area (acres) / Runoff Coeff. 10 Yrs / Runoff Coeff. 100 Yrs — Sub Watershed Details (Rational Method)
- Label / Area (acres) / Curve Number — Sub Watershed Details (Curve Number Method)

0 100 200 300 FEET

N

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-8A Pit Area Hitch Rack Ranch Quarry Mining Phase I

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

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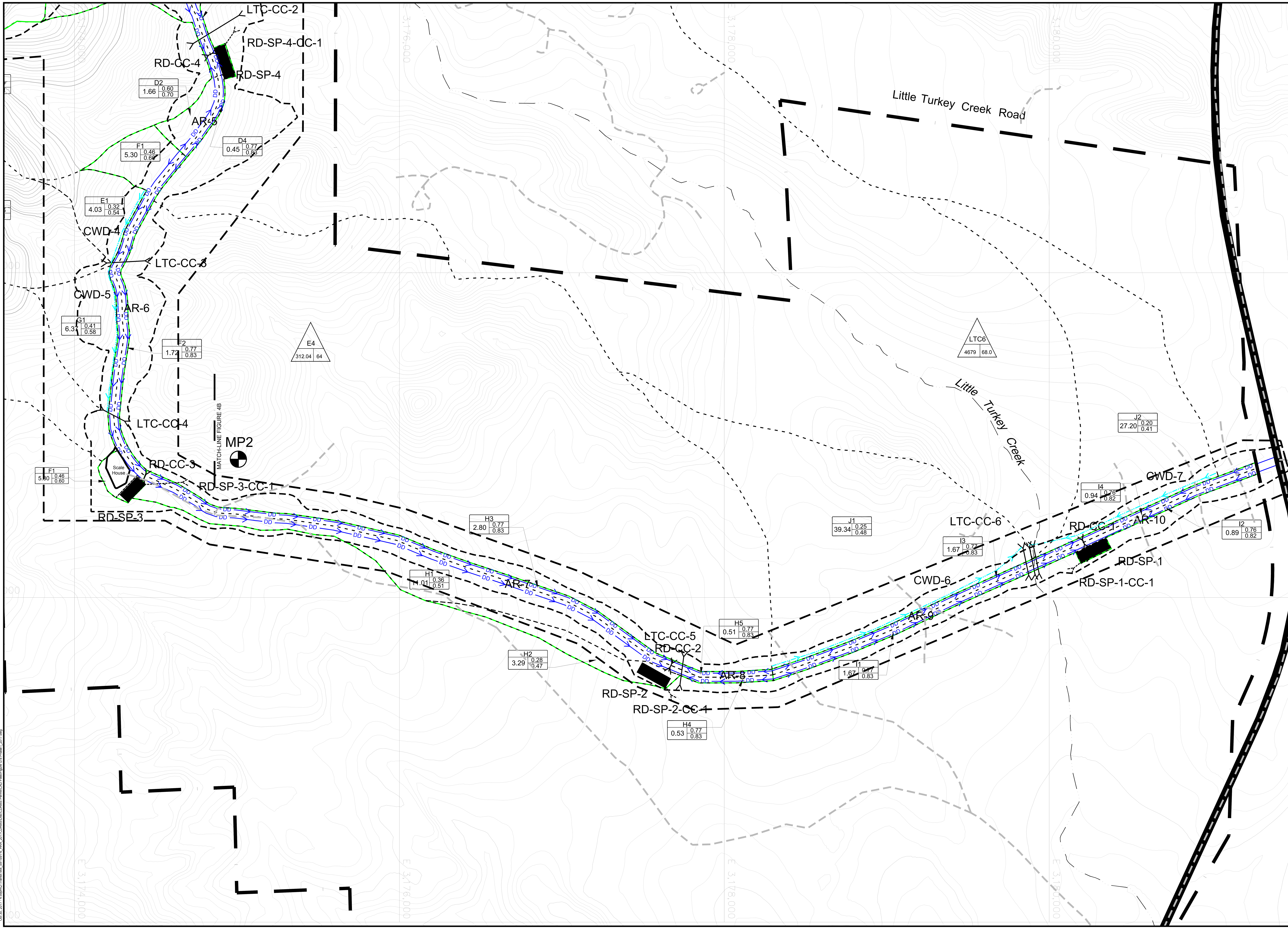

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- Disturbed Collection Ditch
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Pond Watershed Boundary
- Flow Direction
- Sub Watershed Details (Rational Method) — Label; Area (acres); Runoff Coeff 10 Yrs; Runoff Coeff 100 Yrs
- Sub Watershed Details (Curve Number Method) — Label; Area (acres); Curve Number

N

0 100 200 300 FEET

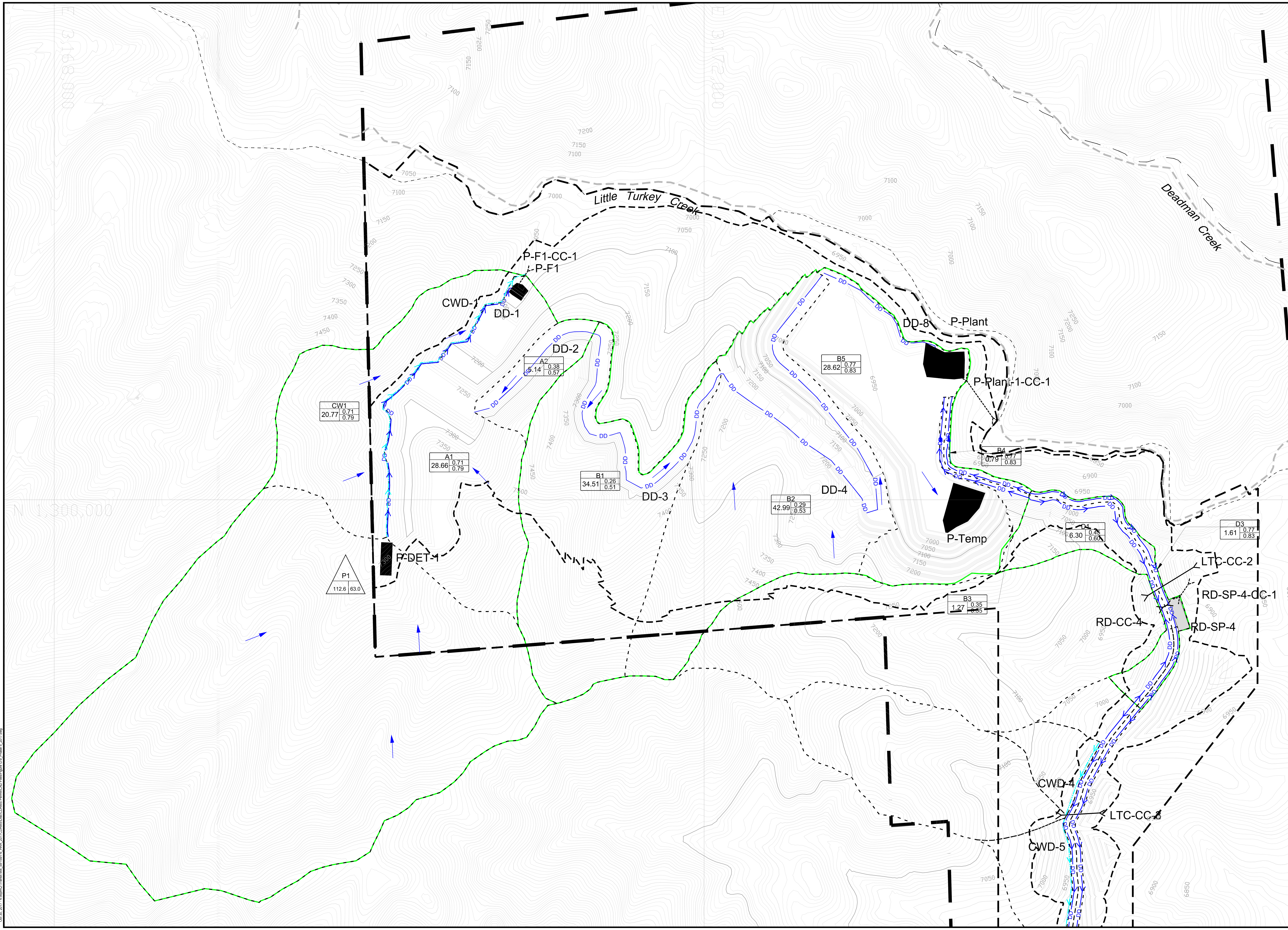
NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-8B
Pit Area
Hitch Rack Ranch Quarry
Mining Phase I

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: Q:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure G-8 Phase I_2017.dwg



I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 PROFESSIONAL ENGINEER 10-30-17

LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- Disturbed Collection Ditch
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Pond Watershed Boundary
- Flow Direction
- Sub Watershed Details (Rational Method) — Label; Area (acres); Runoff Coeff. 10 Yrs; Runoff Coeff. 100 Yrs
- Sub Watershed Details (Curve Number Method) — Label; Area (acres); Curve Number

N

0 100 200 300
FEET

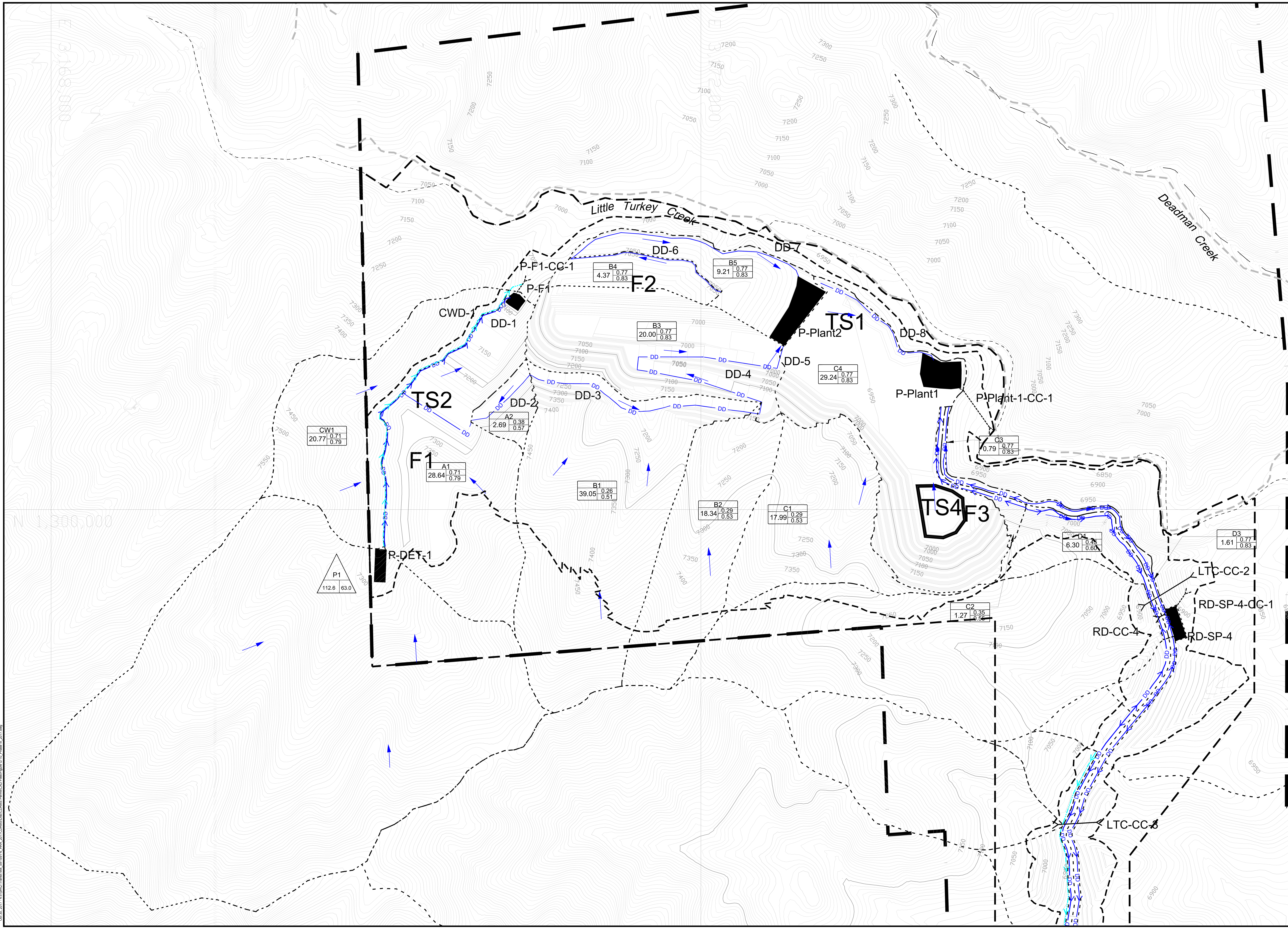
NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-9
Pit Area
Hitch Rack Ranch Quarry
Mining Phase II

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: Q:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure G-9_Phase II_2017.dwg



I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- Disturbed Collection Ditch
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Flow Direction
- Label / Area (acres) / Runoff Coeff 10 Yrs / Runoff Coeff 100 Yrs — Sub Watershed Details (Rational Method)
- Label / Area (acres) / Curve Number — Sub Watershed Details (Curve Number Method)

N

0 100 200 300 FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-10
Pit Area
Hitch Rack Ranch Quarry
Mining Phase III

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: Q:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure G-10_Phase III_2017.dwg

E 3168000

E 3172000

E 3176000

N 1,300,000

Little Turkey Creek

Deadman Creek

F1

F2

F3

TS1

TS2

TS4

DD-1

DD-3

DD-4

DD-5

DD-6

DD-7

DD-8

CWD-1

P-F1

P-F1-CC-1

P-Plant1

P-Plant2

P-Plant-1-CC-1

P-Plant-2-CC-1

R-DET-1

LTC-CC-2

LTC-CC-3

RD-CC-4

RD-SP-4-CC-1

RD-SP-4

A1	25.68	0.71 / 0.79
B1	22.24	0.26 / 0.51
B2	18.21	0.29 / 0.53
B3	41.98	0.77 / 0.83
B4	4.37	0.77 / 0.83
B5	9.21	0.77 / 0.83
C1	15.94	0.29 / 0.53
C2	1.27	0.35 / 0.56
C3	0.79	0.77 / 0.83
C4	31.28	0.77 / 0.83
CW1	20.77	0.71 / 0.79
D1	6.30	0.45 / 0.60
D3	1.61	0.77 / 0.83
P1	112.60	63.0

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL W. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- Disturbed Collection Ditch
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Flow Direction
- Sub Watershed Details (Rational Method)
- Sub Watershed Details (Curve Number Method)

N

0 100 200 300 FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-11
Pit Area
Hitch Rack Ranch Quarry
Mining Phase IV

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO: 591-6	SCALE: As Shown	
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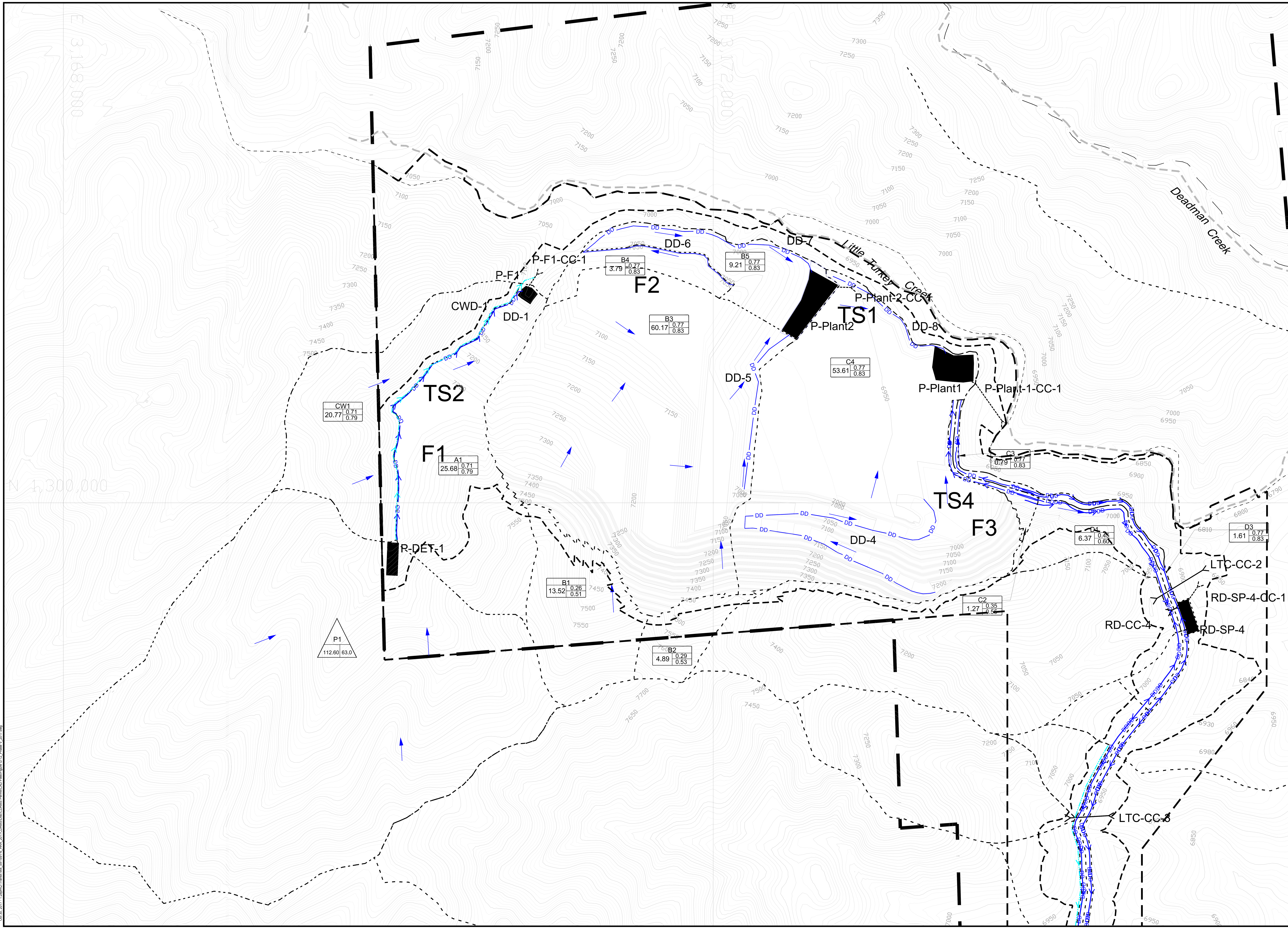

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 PROFESSIONAL ENGINEER 10-30-17

LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- Disturbed Collection Ditch
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Flow Direction
- Sub Watershed Details (Rational Method)
- Sub Watershed Details (Curve Number Method)

0 100 200 300 FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-12
Pit Area
Hitch Rack Ranch Quarry
Mining Phase V

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO: 591-4	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

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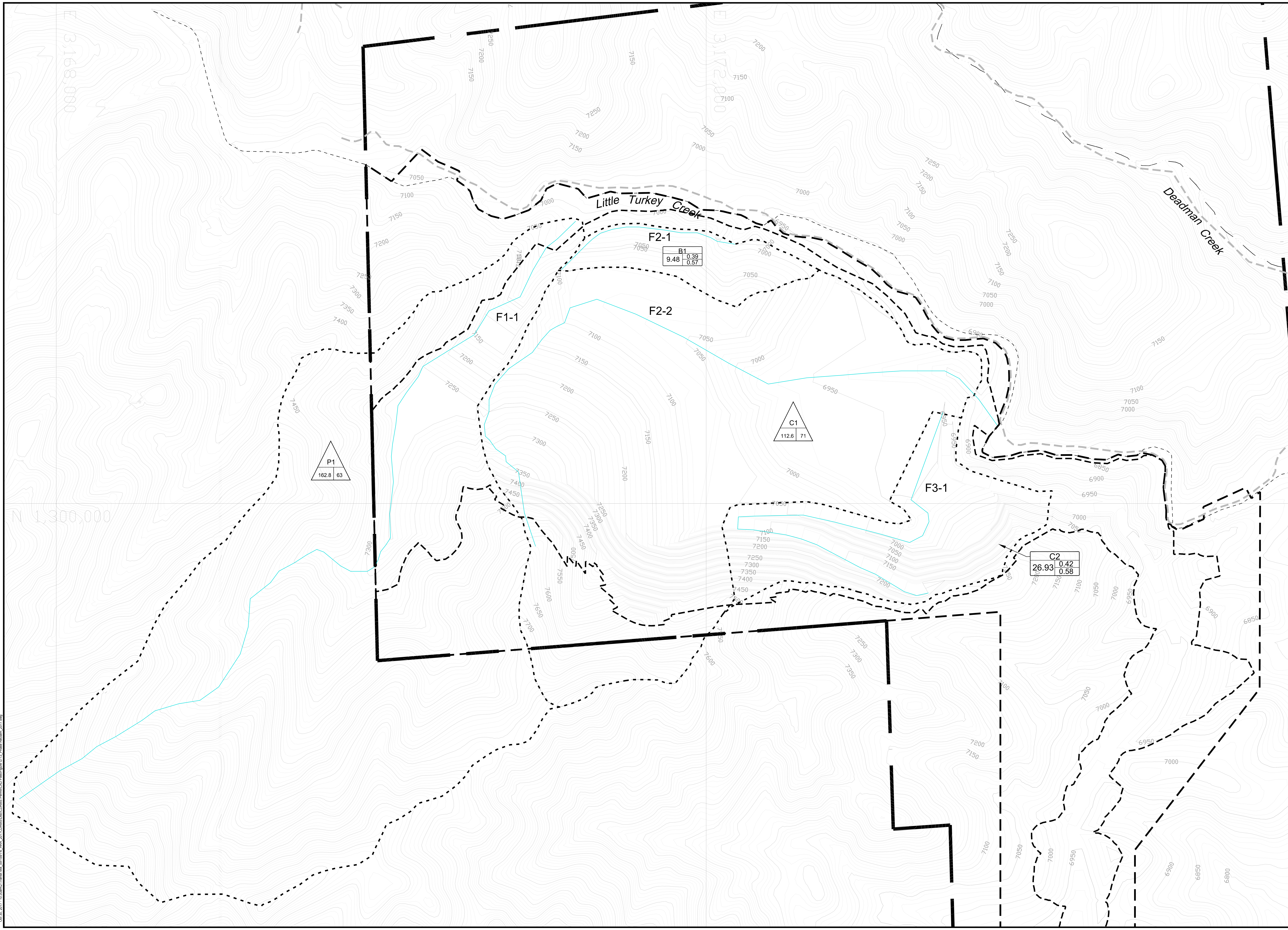

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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LEGEND

- Property Boundary
- Permit Boundary
- Affected Land Boundary
- Un-disturbed Topo Contour (10ft)
- Disturbed Topo Contour (10ft)
- Existing Road
- Mine Facilities
- Perennial Drainage
- Ephemeral Drainage
- Disturbed Collection Ditch (DD)
- Clean Water Diversion Ditch
- Sediment Detention Basins
- Culvert
- Pond Outlet Culvert
- Sub Watershed Boundary
- Flow Direction
- Sub Watershed Details (Rational Method) — Label, Area (acres), Runoff Coeff 10 Yrs, Runoff Coeff 100 Yrs
- Sub Watershed Details (Curve Number Method) — Label, Area (acres), Curve Number
- Reclaimed Area

N

0 100 200 300 FEET

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TRANSIT MIX CONCRETE CO.

Figure G-13
Pit Area
Hitch Rack Ranch Quarry
Reclamation Phase

DRAWN: TS	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWER: PK	DATE REVIEWED: Oct 30, 2017		

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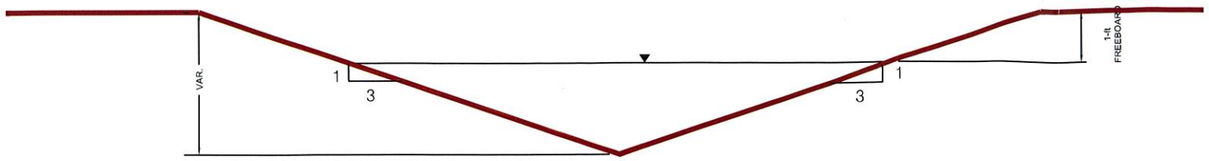
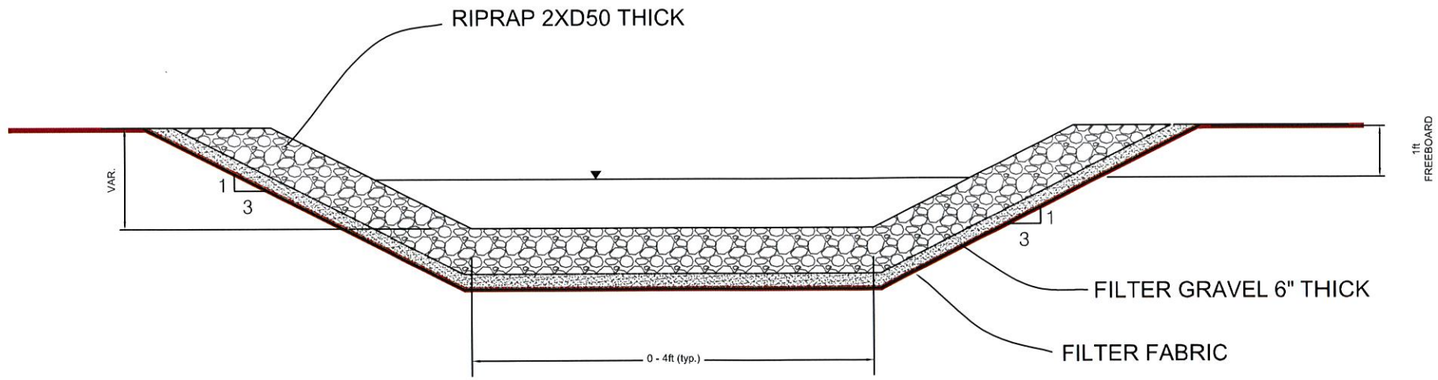


TYPICAL EARTHEN DITCH
N.T.S.

TYPICAL TERRACE DITCH
N.T.S.



TYPICAL ARMORED DITCH CROSS-SECTION
N.T.S.

ROCK GRADATION TABLE			
NOMINAL DIAMETER (in)		CLASS 1 RIPRAP	FILTER MATERIAL
NONE GREATER THAN	(in)	6	1
20% TO 50%	(in)	4	0.5
50% TO 80%	(in)	3	#4 (0.187)
100% GREATER THAN	(in)	2	#10 (0.08)
FILTER FABRIC	8oz NONWOVEN GEOTEXTILE		

NOTE: RIPRAP SIZES ARE TYPICAL. ACTUAL SIZES WILL BE BASED ON DESIGN FLOWS AND CHANNEL GRADIENTS.

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

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FIGURE G-14
HITCH RACK RANCH
TYPICAL DITCH DESIGNS

DRAWN: PK	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: NTS
REVIEWER: NORWEST	DATE REVIEWED: Oct 30, 2017		
DRAWING: Figure G-14 Ditch.dwg			

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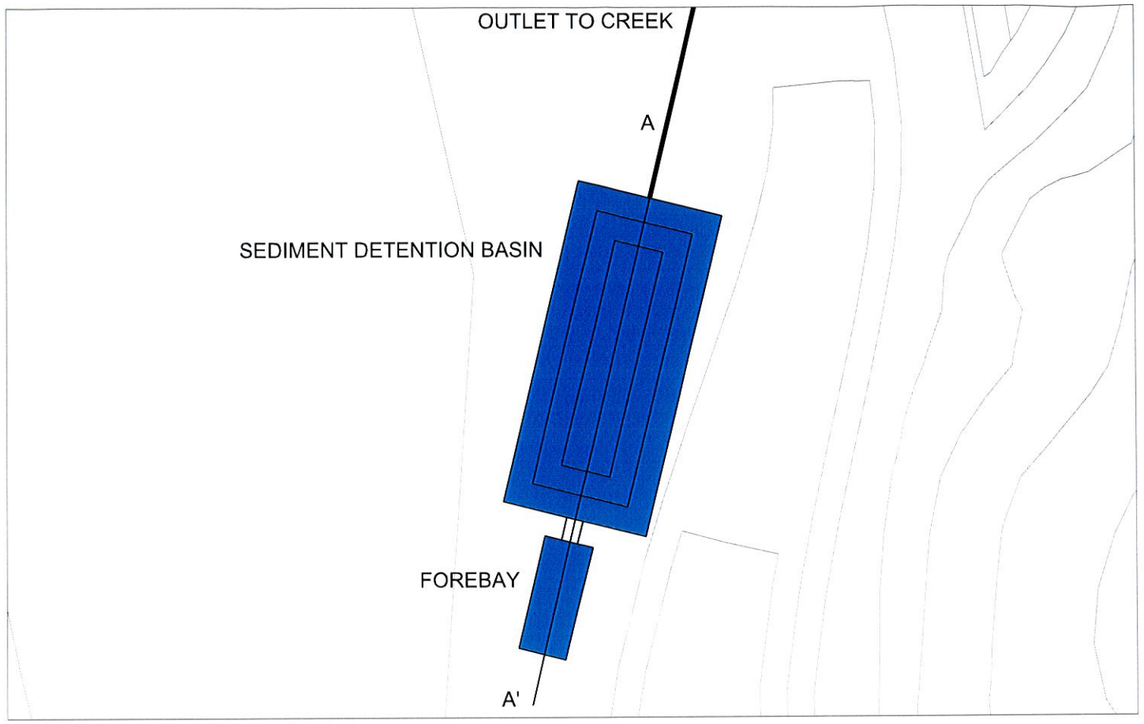
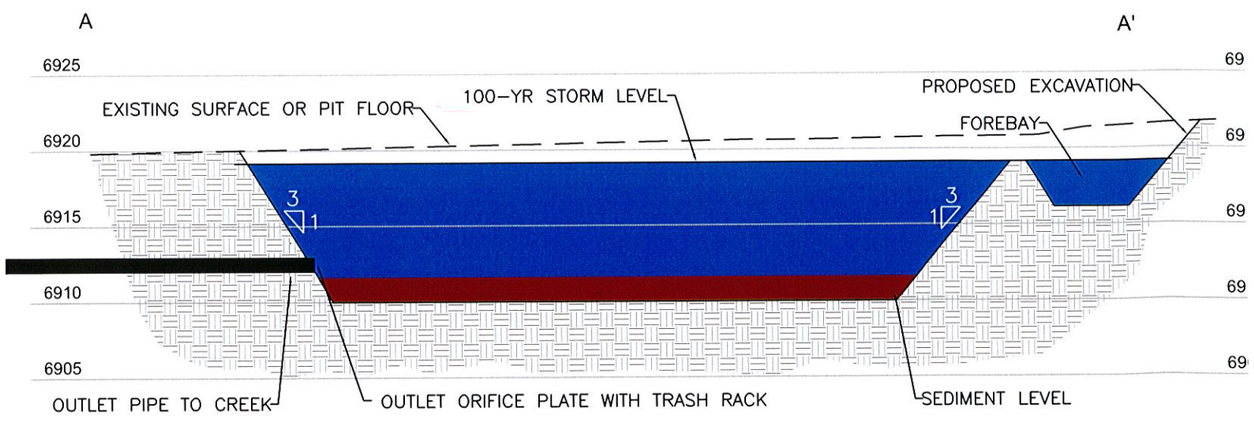
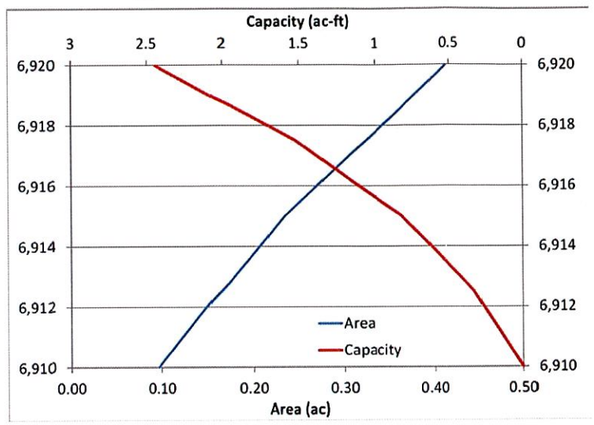


SEDIMENT DETENTION BASIN PLAN VIEW
NTS



CROSS SECTION A-A'

SEDIMENT DETENTION BASIN
AREA AND CAPACITY CURVES



NOTES:
1) BASIN WALLS WILL BE 3h:1v IN UNCONSOLIDATED MATERIAL.
2) BASIN WALLS WILL BE NEAR VERTICAL IN BEDROCK.
3) A 10% ACCESS RAMP WILL BE INSTALLED TO MAINTAIN THE BASIN.
4) OUTLET ORIFICE PLACE WILL DRAIN BASIN WITHIN 72 HOURS.
5) ENERGY DISSIPATION WILL BE INSTALLED AT PIPE OUTLET.
6) SEDIMENT CAPACITY IS 20% OF DESIGN STORM.
7) FOREBAY CAPACITY IS 10% OF DESIGN STORM.
8) SEDIMENT SHALL BE REMOVED BEFORE IT REACHES THE 20% LEVEL.

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

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TRANSIT MIX CONCRETE CO.

FIGURE G-15
HITCH RACK RANCH
TYPICAL SEDIMENT DETENTION BASIN

DRAWN: PK	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: NTS
REVIEWED: NORWEST	DATE REVIEWED: Oct 30, 2017		
DRAWING: Figure G-15 Pond.dwg			

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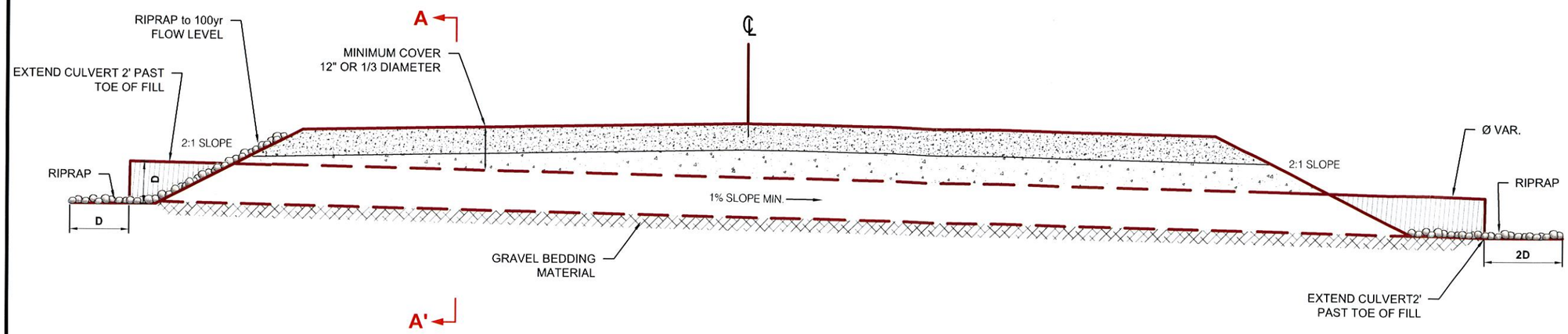

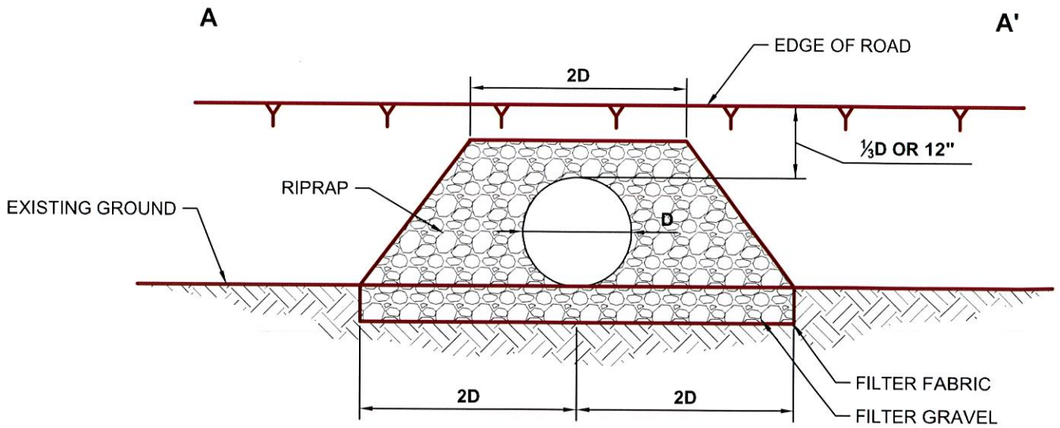

ROCK GRADATION TABLE			
NOMINAL DIAMETER (in)		RIPRAP	FILTER MATERIAL
NONE GREATER THAN	(in)	6	1
20% TO 50%	(in)	4	0.5
50% TO 80%	(in)	3	#4 (0.187)
100% GREATER THAN	(in)	2	#10 (0.08)
FILTER FABRIC		8oz NONWOVEN GEOTEXTILE	

NOTE: RIPRAP SIZES ARE TYPICAL. ACTUAL SIZES WILL BE BASED BASED ON DESIGN FLOWS AND CHANNEL GRADIENTS.

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED PAUL J. KOS 40848 PROFESSIONAL ENGINEER
10/30/17

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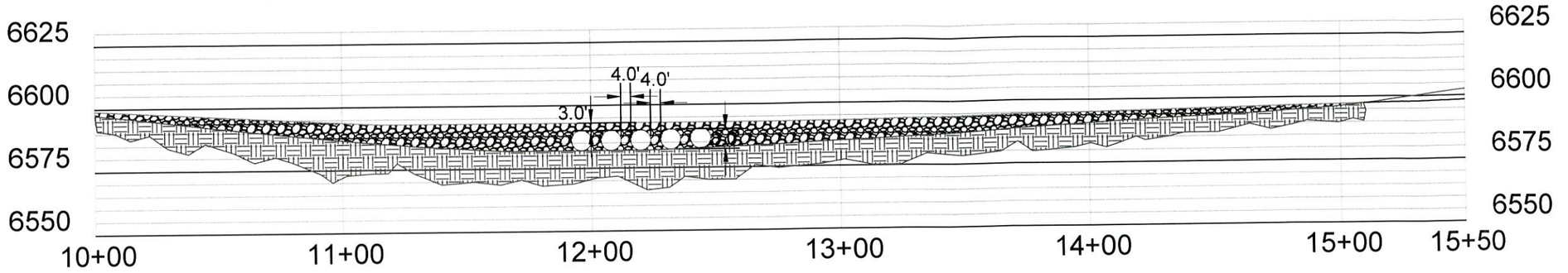
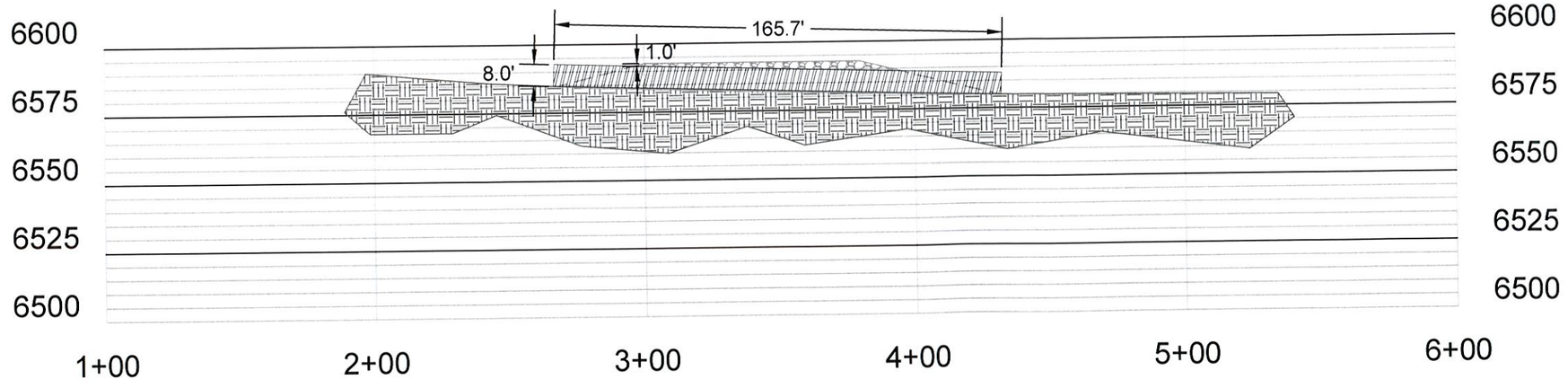
TRANSIT MIX CONCRETE CO.

FIGURE G-16
HITCH RACK RANCH
TYPICAL CULVERT DESIGN

DRAWN: PK	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: NTS
REVIEWED: NORWEST	DATE REVIEWED: Oct 30, 2017		
DRAWING: Figure G-16 Culvert.dwg			

Oct 30, 2017 - Q:\Transit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure G-16 Culvert.dwg





NOTES:

1. See Figure G-16 for armoring requirements.
2. Culvert pipes shall be 2-2/3" x 1/2" corrugated steel pipe, 0.079" thick (14 gauge).
3. Minimum cover is 12 inches for H20 loading.
4. Pipe shall be install per manufacturers recommendation. Care shall be taken to ensure that haunch areas of pipe is backfilled with good materials and adequately compacted to above the spring-line of the pipe.

Legend

FILL MATERIAL

ORIGINAL GROUND

CULVERT

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

0 25 50 75 100

FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure G-17
Hitch Rack Ranch Quarry
LTC-CC-6
Culvert Sections

DRAWN: PK	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWED: PK	DATE REVIEWED: Oct 30, 2017		
DRAWING:			

EXHIBIT H
WILDLIFE INFORMATION

EXHIBIT H
WILDLIFE INFORMATION

The permit area provides habitat for several big game species. Elk and mule deer are common; seasonal use is described below. Black bears are also fairly common, and the permit area is within Colorado Parks and Wildlife (CPW)-mapped black bear summer concentration area, fall concentration area, and black bear human conflict area. The permit area also provides habitat for mountain lion and is mapped within mountain lion overall range and human conflict area.

Common small game species in the permit area include wild turkey, mourning dove, and cottontail rabbit. Turkeys are common throughout the permit area, which is within CPW-mapped wild turkey winter range, winter concentration area, and production area.

Nongame wildlife species present are those typical of mixed conifer forests and the more open forests, shrublands, and grasslands of the lower part of the permit area. These include rodents and mid-sized predators such as coyote, bobcat, red fox, weasel, and badger. A number of migratory songbirds occur on the site as summer residents, with fewer species present during winter.

The permit area provides nesting and foraging habitat for a number of raptor species. Red-tailed hawk, Cooper's hawk, American kestrel, and some owl species are likely or possible breeders. Golden eagles are likely to forage on the permit area at times, although no golden eagle nests are known on or near the permit area. Peregrine falcons are documented nesting 1 to 2 miles west of the property and can be expected to occasionally forage over the property. Raptor surveys were conducted in the spring of 2016 and 2017.

The Nature Conservancy in opposing the previous application asserted that the area provided unique wildlife habitat and that the Quarry would block wildlife migration from the summer range to the winter range. While the overall area may be unique, the Quarry occupies less than 0.25% of the unique area that The Nature Conservancy has identified. The new Quarry plan also does not impact the wildlife migration corridor, because it preserves the area north of Little Turkey Creek and stays away from the creek.

I. Big Game Seasonal Use

Elk occur at or near the site throughout the year. The site is mapped by CPW within elk summer range, and a resident population area is adjacent to the Ranch to the south and east. The site is also mapped within elk winter range, and elk winter concentration area is mapped a few miles west and south. The permit area is within a landscape that provides migration corridors on ridges and in drainages, where elk make seasonal movements between higher elevation summer ranges and winter ranges at generally lower elevations. Mule deer also may occur in and near the permit

EXHIBIT I
SOILS INFORMATION

EXHIBIT I
SOILS INFORMATION

Soil types were identified within the project area using existing United States Department of Agricultural' s Natural Resources Conservation Service (NRCS) soil resources data. The NRCS has mapped eight soil map units (MU) on the property (NRCS 2015), as shown in **Figure I-1**. The property occupies the rugged foothills of the Rocky Mountains, hilly terrain near the base of the foothills, and flatter, more gently sloping terrain where terraces and alluvial fans have formed below the foothills in the upper reaches of the piedmont.

The mapped soils in the foothills (MU 77, Rock outcrop-Coldcreek-Tolman complex) are characterized by a high percentage of exposed bedrock and associated shallow soils. MU 77 is composed of rock outcrop, gravelly/cobbly sandy loam, or sandy clay loam soils, often with bedrock starting at 13 to 17 inches below the surface. Topsoil availability within this map unit is limited and ranges from 0 to 6 inches. The majority of the surface disturbance will occur within the MU 77 soil complex.

Other soil complexes within the affected lands area occur within the haul road corridor. MU 76, the Rizozo-Neville complex, which is characterized by fine sandy loam and shallow loam soils, is associated with hilly terrain near the base of the foothills where they grade into the upper reaches of the piedmont. This soil type extends into the fans and terraces of the piedmont in some areas. Bedrock depths within MU 76 range from 20 to 60 inches below the surface. Topsoil availability ranges from 0 to 10 inches.

The predominant soil types on the lower side slopes above the piedmont are MUs 57 and 58, and on the terraces and fans are MUs 12, 13, and 55. All five of these MUs are composed of deep, sandy loams.

MU 57, Neville fine sandy loam, occurs on 3 to 9 percent slopes and depth to bedrock is estimated at 60 inches below surface with 0 to 10 inches of topsoil available.

MU 58, the Neville-Rednum complex also occurs on 3 to 9 percent slopes. Bedrock depths range from 60 inches below the surface with 0 to 10 inches of available topsoil.

MU 12, Bresser sandy loam, occurs within 3 to 5 percent slopes. Bedrock depths are at 60 inches below surface with 0 to 8 inches of available topsoil.

MU 13, Bresser sandy loam, occurs within 5 to 9 percent slopes. Bedrock depths are at 60 inches below surface with 0 to 8 inches of available topsoil.

MU 55, Nederland cobbly sandy loam, occurs within 9 to 25 percent slopes. Bedrock depths are at 60 inches below surface with 0 to 5 inches of available topsoil.

These soils predominately are deep, sandy loam soils associated with the lower side slopes, terraces and fans of the piedmont.

EXHIBIT J
VEGETATION INFORMATION

Basemap Source:
ESRI World Imagery

Map created: 10/22/2015

N

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0 1,000 2,000 Feet

Legend

- Hitch Rack Ranch Boundary
- Residence Area
- Lake

Vegetation Community

- Montane Mixed Conifer Forest
- Mountain Shrubland
- Pinyon-Juniper Woodland
- Ponderosa Pine Woodland
- Grassland
- Riparian Woodland
- Herbaceous Wetland

COLORADO LICENSED
PAUL J. KOS
40848
10/22/15
PROFESSIONAL ENGINEER

Hitch Rack Ranch

Figure 1
Vegetation Communities

BIO-Logic, Inc.
125 Colorado Avenue, Suite B
Montrose, CO 81401
(970) 240-4374
www.bio-geo.com

NRCS Soil Map Unit

- 12 Bresser sandy loam, 3 to 5% slopes
- 13 Bresser sandy loam, 5 to 9% slopes
- 32 Fortwingate-Rock outcrop complex, 15 to 60% slopes
- 55 Nederland cobbly sandy loam, 9 to 25% slopes
- 57 Neville fine sandy loam, 3 to 9% slopes
- 58 Neville-Rednun complex, 3 to 9% slopes
- 76 Rizozo-Neville complex, 3 to 30% slopes
- 77 Rock outcrop-Coldcreek-Tolman complex, 9 to 90% slopes

Basemap Source:
ESRI World Imagery

Map created: 10/22/2015

N

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0 1,000 2,000 Feet

Legend

- Hitch Rack Ranch Boundary
- Residence Area
- Lake

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

Hitch Rack Ranch

Figure 2
NRCS Soil Types

BIO-Logic, Inc.
125 Colorado Avenue, Suite B
Montrose, CO 81401
(970) 240-4374
www.bio-geo.com

NRCS Soil Type

- 12 Bresser sandy loam, 3 to 5% slopes
- 13 Bresser sandy loam, 5 to 9% slopes
- 32 Fortwingate-Rock outcrop complex, 15 to 60% slopes
- 55 Nederland cobbly sandy loam, 9 to 25% slopes
- 57 Neville fine sandy loam, 3 to 9% slopes
- 58 Neville-Rednun complex, 3 to 9% slopes
- 76 Rizozo-Neville complex, 3 to 30% slopes
- 77 Rock outcrop-Coldcreek-Tolman complex, 9 to 90% slopes

Basemap Source:
ESRI World Imagery

Map created: 10/22/2015

N

1:15,000

0 1,000 2,000 Feet

Legend

- Hitch Rack Ranch Boundary
- Residence Area
- Lake

Vegetation Community

- Montane Mixed Conifer Forest
- Grassland
- Mountain Shrubland
- Pinyon-Juniper Woodland
- Ponderosa Pine Woodland
- Riparian Woodland
- Herbaceous Wetland

COLORADO LICENSED
PAUL J. KOS
40848
10/30/17
PROFESSIONAL ENGINEER

Hitch Rack Ranch

Figure 3
Vegetation Communities and Soil Type

BIO-Logic, Inc.
125 Colorado Avenue, Suite B
Montrose, CO 81401
(970) 240-4374
www.bio-geo.com

Base Map Source:
NGS 2D Topographic Map
(40-ft contours)

Map created: 10/22/2015

N

1:15,000

0 1,000 2,000 Feet

Legend

- Hitch Rack Ranch Boundary
- Residence Area
- Lake

Vegetation Community

- Montane Mixed Conifer Forest
- Mountain Shrubland
- Pinyon-Juniper Woodland
- Ponderosa Pine Woodland
- Grassland
- Riparian Woodland
- Herbaceous Wetland

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

Hitch Rack Ranch

Figure 4
Vegetation Communities and Topography

BIO-Logic, Inc.
125 Colorado Avenue, Suite B
Montrose, CO 81401
(970) 240-4374
www.bio-geo.com

EXHIBIT L
RECLAMATION COSTS

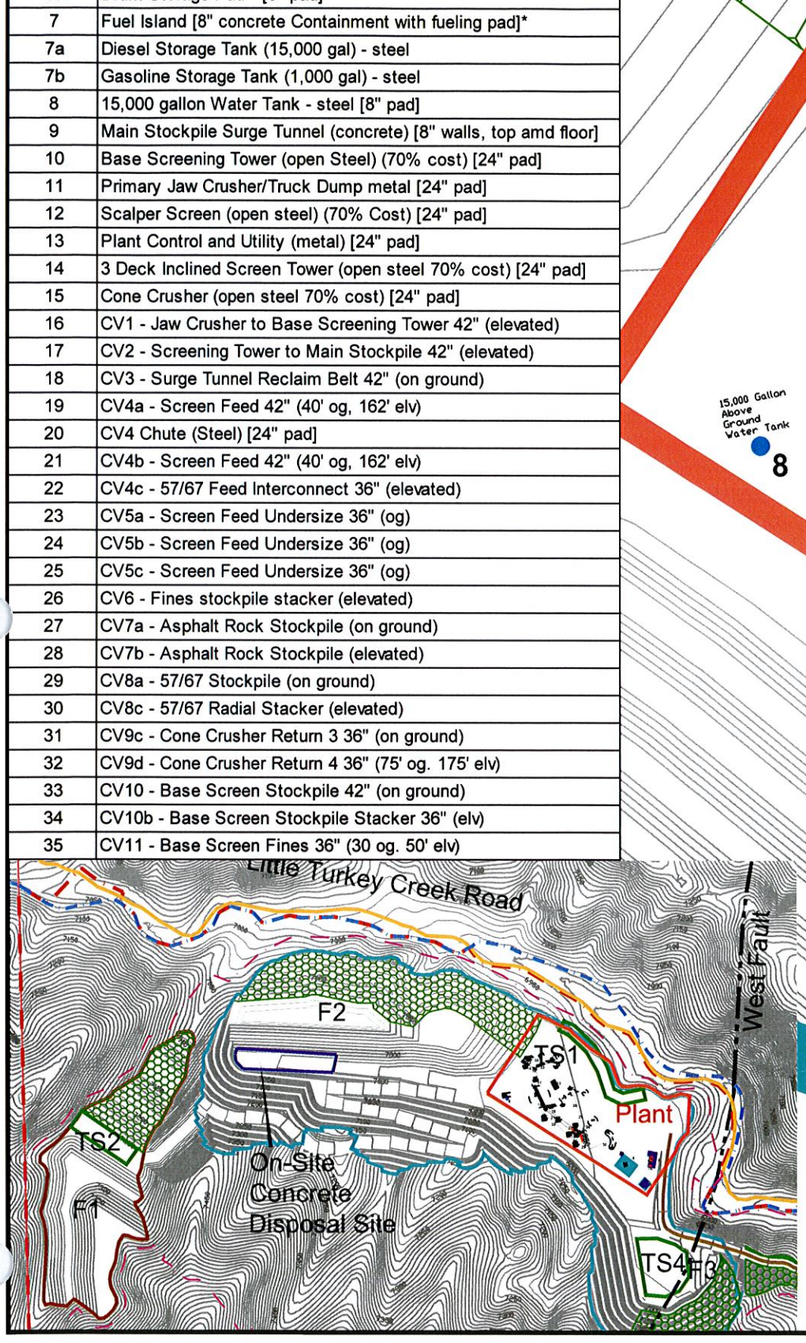
Revegetation Summary

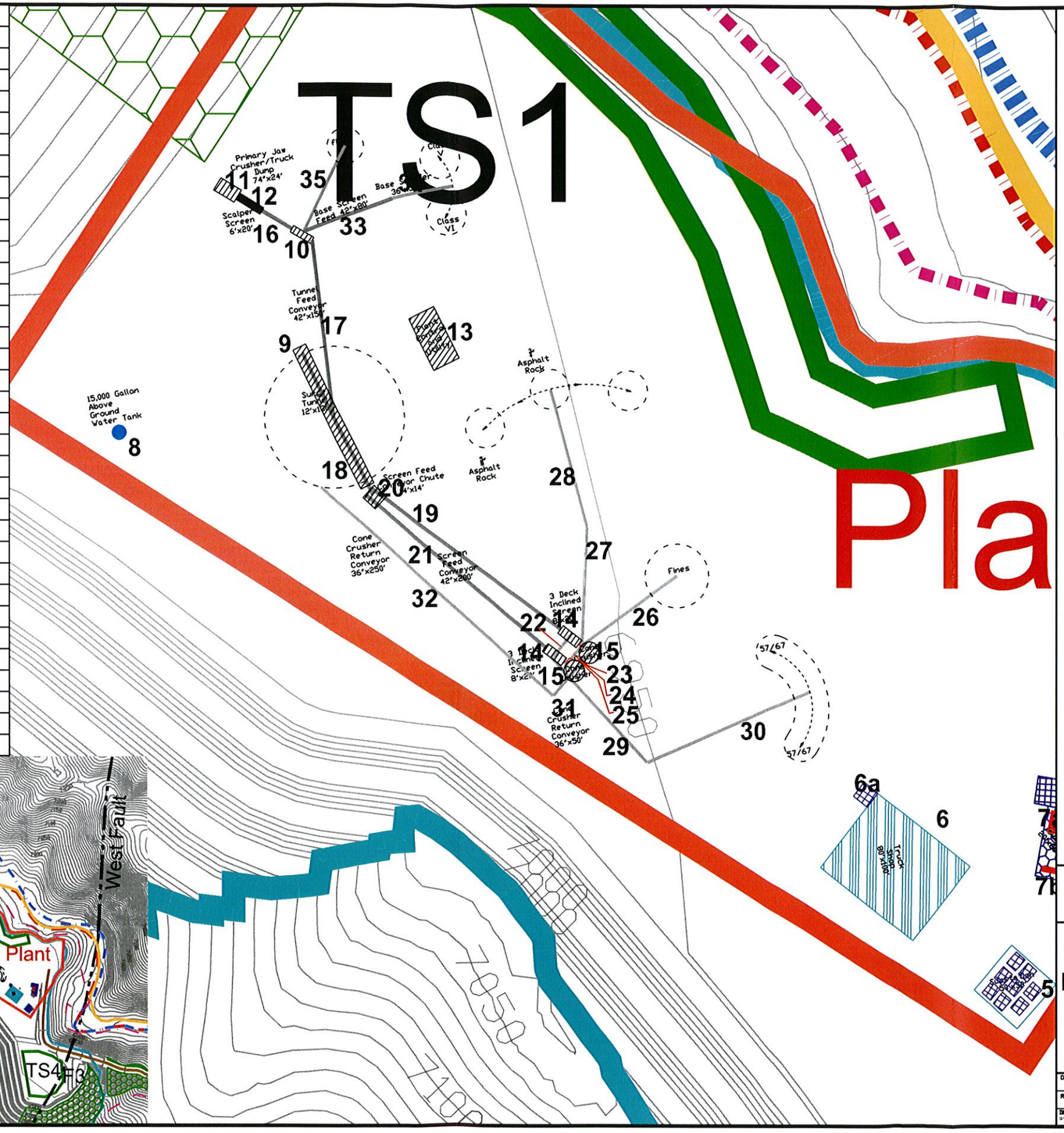
The revegetation summary provides the total affected area consisting of 159.92 acres with the steep highwall slopes consisting of 16.50 acres being excluded from revegetation. The remaining 143.42 acres will be seeded with portions being reforested as mixed conifer (63.33 acres), mountain shrubland (16.36 acres), and riparian (2.83 acres) with the remaining in just grassland (60.90 acres). The area summary and cost is on page 25 of Appendix L-1.

Certification Statement

I, Paul Kos, Colorado P.E. 40848 hereby certify that the information contained in Exhibit L was reviewed by me and that the information is complete and accurate to the best of my knowledge.

Number	Structure
5	Central Substation - concrete pads * [8" pads]
6	Warehouse/Truck Shop- steel [8" pad, footer walls]
6a	Drum Storage Pad * [8" pad]
7	Fuel Island [8" concrete Containment with fueling pad]*
7a	Diesel Storage Tank (15,000 gal) - steel
7b	Gasoline Storage Tank (1,000 gal) - steel
8	15,000 gallon Water Tank - steel [8" pad]
9	Main Stockpile Surge Tunnel (concrete) [8" walls, top amd floor]
10	Base Screening Tower (open Steel) (70% cost) [24" pad]
11	Primary Jaw Crusher/Truck Dump metal [24" pad]
12	Scalper Screen (open steel) (70% Cost) [24" pad]
13	Plant Control and Utility (metal) [24" pad]
14	3 Deck Inclined Screen Tower (open steel 70% cost) [24" pad]
15	Cone Crusher (open steel 70% cost) [24" pad]
16	CV1 - Jaw Crusher to Base Screening Tower 42" (elevated)
17	CV2 - Screening Tower to Main Stockpile 42" (elevated)
18	CV3 - Surge Tunnel Reclaim Belt 42" (on ground)
19	CV4a - Screen Feed 42" (40' og, 162' elv)
20	CV4 Chute (Steel) [24" pad]
21	CV4b - Screen Feed 42" (40' og, 162' elv)
22	CV4c - 57/67 Feed Interconnect 36" (elevated)
23	CV5a - Screen Feed Undersize 36" (og)
24	CV5b - Screen Feed Undersize 36" (og)
25	CV5c - Screen Feed Undersize 36" (og)
26	CV6 - Fines stockpile stacker (elevated)
27	CV7a - Asphalt Rock Stockpile (on ground)
28	CV7b - Asphalt Rock Stockpile (elevated)
29	CV8a - 57/67 Stockpile (on ground)
30	CV8c - 57/67 Radial Stacker (elevated)
31	CV9c - Cone Crusher Return 3 36" (on ground)
32	CV9d - Cone Crusher Return 4 36" (75' og. 175' elv)
33	CV10 - Base Screen Stockpile 42" (on ground)
34	CV10b - Base Screen Stockpile Stacker 36" (elv)
35	CV11 - Base Screen Fines 36" (30 og. 50' elv)





Legend

- Topography (10ft Contour)
- Affected Land Boundary
- Plant/Facilities Area
- Existing Road
- Access Road
- Drainage
- Gravel Stockpiles
- Paved Asphalt Road
- 42" Conveyor
- 36" Conveyor
- Plant Structures
- Buildings
- Concrete Pads
- Concrete Containment
- Water Tanks
- Fuel Tanks

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL J. KOS
40848
PROFESSIONAL ENGINEER
6/30/17

0 25 50 75 100
FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure L-1
Hitch Rack Ranch Quarry
Plant Site Structure Demolition

DRAWN: DBM	DATE: Oct 30, 2017	PROJECT NO. 591-6	SCALE: As Shown
REVIEWED: PK	DATE REVIEWED: Oct 30, 2017		

DRAWING: G:\Transit Mix_591\591-6_HRR_2017\CDRMS\Disc\CDRMS Permit\CAD Files\Figure L-1 and L-2 Plant Site Surety Figures.dwg

Number	Structure
1	Scale House/Office -(mixed) [8" pad]
2	Septic Tank/Vault (Concrete) [8" walls, floor, top]
3	Non-Potable Water Tank/Cistern (5,000 gallon) [8" walls, floor, top]
4	Truck Scale [8" foundation]

Scale House

6650

6600

3 Non Potable Water

4

2 Septic Tank

Scale House/Office Building 24' x 60'

Truck Scale

1

Legend

- Permit Boundary
- Affected Land Boundary
- Topography (10ft Contour)
- Scale House Area
- Existing Road
- Access Road
- Paved Asphalt Road
- Buildings
- Water Tanks

I, Paul Kos, Colorado P.E. 40848 hereby certify that this drawing was reviewed by me and that the information shown is complete and accurate to the best of my knowledge.

COLORADO LICENSED
PAUL J. KOS
40848
10-30-17
PROFESSIONAL ENGINEER

N

0 25 50 75 100
FEET

NORWEST CORPORATION

TRANSIT MIX CONCRETE CO.

Figure L-2
Hitch Rack Ranch Quarry
Scale House Site
Structure Demolition

DRAWN:	DATE:	PROJECT NO.	SCALE:
DBM	Oct 30, 2017	591-6	As Shown
REVIEWER: PK	DATE REVISED: Oct 30, 2017		

DRAWING: G:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure L-1 and L-2 Plant Site Surety Figures.dwg

Oct 30, 2017 - 2:05pm Q:\Transit Mix_591\591-6_HRR_2017CDRMS\Disc\CDRMS Permit\CAD Files\Figure L-1 and L-2 Plant Site Surety Figures.dwg

EXHIBIT Q
PROOF OF MAILING OF NOTICES TO COUNTY COMMISSION, SOIL CONSERVATION DISTRICT ADJACENT LANDOWNERS

Transit Mix placed a sign at the nearby local access road. The sign has been in place for several months, so flagging was added to the sign to highlight the new permit.

A second sign was placed at the proposed Quarry entrance, which is approximately 400 feet south of the intersection of Little Turkey Creek Road and State Highway 115.

Transit Mix Concrete Co.

October 3, 2017

Barbara L. Hughes
3011 Springridge Dr.
Colorado Springs, CO 80903-3749

SENT VIA UNITED STATES POSTAL SERVICE - CERTIFIED MAIL

NOTICE TO LANDOWNER

Transit Mix Concrete Company, 444 East Costilla, Colorado Springs, CO 80903-3761, (719-475-0700), has filed an application for a quarry to their Regular (112) Reclamation Operation Permit with the Colorado Mined Land Reclamation Board under the provisions of the Colorado Mined Land Reclamation Act for the Extraction of Construction Materials. The proposed mine is known as the Hitch Rack Ranch Quarry and is located predominantly in Section 16, Township 16 South, Range 67 West, 6th Prime Meridian. The quarry entrance will be located near the intersection of Highway 115 and Little Turkey Creek Road, approximately 10 miles south of Academy Boulevard on Highway 115.

The proposed date of commencement is January 1, 2019, and the proposed date of completion is December 31, 2058. The proposed future use of the land is wildlife habitat. Additional information and tentative decision date may be obtained from the Division of Reclamation, Mining and Safety, 1313 Sherman St, Room 215, Denver, Colorado 80203, (303) 866-3567, or at the El Paso County Clerk and Recorder's Office, Chuck Broerman, County Clerk and Recorder, 1675 West Garden of the Gods, Colorado Springs, CO 80907, (719) 520-6202, or the above-named applicant.

Comments must be in writing and must be received by the Division of Reclamation, Mining and Safety by 4:00 P.M. on November 30, 2017.

Regards,

Jerald Schnabel

Jerald Schnabel, President
Transit Mix Concrete Co.

EXHIBIT R
PROOF OF FILING WITH COUNTY CLERK AND RECORDER

Transit Mix Concrete Co.

NOTICE OF FILING APPLICATION

FOR COLORADO MINED LAND RECLAMATION PERMIT

FOR REGULAR (112) CONSTRUCTION MATERIALS EXTRACTION OPERATION

NOTICE TO THE COUNTY CLERK

EL PASO COUNTY

Chuck Broerman
1675 West Garden of the Gods
Colorado Springs, CO 80907

Transit Mix Concrete Company (the "Applicant/Operator") has applied for a Regular (112) reclamation permit from the Colorado Mined Land Reclamation Board (the "Board") to conduct the extraction of construction materials operations in El Paso County.

The attached amendment application is being provided to you to allow for public review of the location and nature of the proposed amended operations. We request that you place the entire application in a place for public review but not be recorded. This request is made pursuant to C.R.S. §34-32-112(10)(a) and §1.6.2(1)(c) of the Hard Rock/Metal Mining Rules and Regulations of the Colorado Mined Land Reclamation Board.

Transit Mix Concrete Company

Acknowledgement of Receipt:

By: _____

Title: Deputy Clerk

Date: 10-31-17

EXHIBIT S
PERMANENT MAN MADE STRUCTURES

NORWEST
CORPORATION

To:	Colorado Division of Reclamation, Mining, and Safety	**Ref #**	591-6
CC:	Jerald Schnabel, Transit Mix	**Date:**	October 3, 2017
From:	Paul Kos		
Subject:	Engineering Evaluation of Highway 115		

Introduction

Highway 115 is an existing structure located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. The location is shown on Figure 1. This engineering evaluation discusses the structure location and components before evaluating potential impacts quarry development may have on the structure and presenting how the quarry has been designed so there are no adverse impacts to Highway 115.

Structure Description

Highway 115 is located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary at the intersection with the proposed access road. This is at the easternmost extent of the permit area and located away from mining areas. At this location, Highway 115 is a two-lane, paved road. The southbound lane has an acceleration/passing lane that ends at the approximate location of the Hitch Rack Ranch Quarry's proposed access road. Work activities in and along Highway 115 will only occur during construction of the access road and acceleration and deceleration lanes.

Potential Impacts and Mitigation

Potential Problem: Construction of the access road could damage Highway 115.

Solution: Development of the quarry will require construction of acceleration and deceleration lanes on both the north and southbound lanes of Highway 115. The road widening will result in improved lines of sight at the intersection, which is also at the crest of a hill. All construction will occur within the Highway 115 right-of-way. The lanes will be designed following Colorado Department of Transportation (CDOT) guidelines and regulations and will be permitted with CDOT. Therefore, Highway 115 will not be adversely impacted by construction of the quarry access road.

Conclusions

Highway 115 is located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. The road will be impacted by construction of acceleration and deceleration lanes, but all construction will be permitted with CDOT, completed in cooperation with CDOT, and will occur within the Highway 115 right-of-way. There will be a temporary impact to Highway 115 while the acceleration and deceleration lanes are constructed, and the impacts will be similar to other road widening construction projects. Once the road construction is finished, Highway 115 will have acceleration and deceleration lanes and better sight lines. Thus, construction of the access road and intersection will improve the safety and use of Highway 115, and the highway will not be adversely impacted.

Engineer Certification

This engineering evaluation demonstrates that by following CDOT guidelines and permit requirements, Highway 115 will not be adversely impacted by construction of the quarry access road.

NORWEST
CORPORATION

To:	Colorado Division of Reclamation, Mining, and Safety	**Ref #**	591-6
CC:	Jerald Schnabel, Transit Mix	**Date:**	October 3, 2017
From:	Paul Kos		
Subject:	Engineering Evaluation of Fort Carson Structures		

Introduction

An access road, gate, and fence are Fort Carson structures located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary in the vicinity of the intersection between Highway 115 and the proposed access road. The location is shown on Figure 1. This engineering evaluation discusses the structure location and components before evaluating potential impacts quarry development may have on the structure and presenting how the quarry has been designed to prevent adverse impacts to Fort Carson structures.

Structure Description

Fort Carson structures located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary include an access road, gate, and fence line. All of these structures are located east of Highway 115 and outside the highway easement corridor. The access road is paved between Highway 115 and the gate, which is a distance of approximately 120 feet. East of the gate, the access road is a two-lane gravel road. The gate is a typical steel road gate with two swings, one for each lane of travel. The fence is a typical wire fence with multiple strands. A photograph of the structures is included as Figure 2.

Figure 2. Fort Carson Road, Gate, and Fence

Potential Impacts and Mitigation

Potential Problem: Construction of the access road could damage the fence, gate, or the access road.

Solution: All Hitch Rack Ranch Quarry access road construction will occur west of the fence and gate, and these structures will not be impacted. The westernmost portion of the Fort Carson access road will be impacted by construction of an acceleration lane, with all construction activities occurring within the Highway 115 right-of-way. This construction will not prevent use of the road or gate during or following construction; therefore, the structures on Fort Carson property will not be adversely impacted. The acceleration lane will be designed following Colorado Department of Transportation (CDOT) guidelines and regulations and permitted with through CDOT.

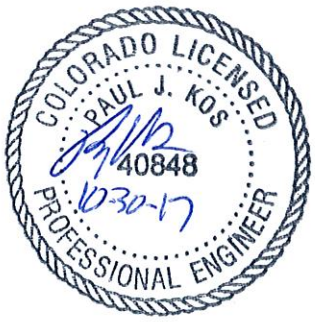
NORWEST
CORPORATION

Conclusions

Infrastructure on Fort Carson exists within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. The road, gate, and fence are all located east of Highway 115, and Hitch Rack Ranch Quarry access road construction will not impact the fence or the gate. The Fort Carson access road will be impacted by the construction of an acceleration lane, but all construction will be permitted with CDOT, completed in cooperation with CDOT, and will occur within the Highway 115 right-of-way. Thus, development and operation of the Hitch Rack Ranch Quarry will not adversely impact use of the road, gate, or fence on Fort Carson.

Engineer Certification

This engineering evaluation demonstrates that the gate, fence and road on Fort Carson will not be adversely impacted by construction related to quarry development.



NORWEST
CORPORATION

To:	Colorado Division of Reclamation, Mining, and Safety	**Ref #**	591-6
CC:	Jerald Schnabel, Transit Mix	**Date:**	October 3, 2017
From:	Paul Kos		
Subject:	Engineering Evaluation of Overhead Electric Distribution Lines		

Introduction

Three segments of overhead electric distribution lines are existing structures located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. These locations are shown on Figure 1. This engineering evaluation discusses the structure locations and components before evaluating potential impacts quarry development could have on the structure and presenting what measures will be taken so that there is no adverse impact to the structure.

Structure Description

Overhead electric distribution lines exist within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. These power lines are located along Highway 115 and along the access road, and none are located in the mining areas. The power line along Highway 115 includes a branch line that runs to Fort Carson, and this line is owned by Colorado Springs Utilities. The power line inside the Hitch Rack Ranch (RMBC Group, Inc.) property is owned by Black Hills Energy. Each overhead electric distribution line consists of elevated cables that transmit electricity. All of the powerlines are single phase lines that provide residential or local service. None are regional or triple phase transmission lines.

Potential Impacts and Mitigation

Potential Problem: Construction of the access road could damage the overhead electric distribution lines.

Solution: Construction crews routinely work around utilities and have standard operating procedures for not impacting or damaging the utility lines. Activities and equipment with the highest risk of impacting a power line include those with potentially elevated components such as: cranes, drill rigs, excavators, and dump trucks. These procedures typically include signage on each side of the power line to remind operators of the hazard and using spotters if work is required near the power lines. Federal law requires at least 10 feet of clearance for voltages under 115,000 - the higher voltage the greater the distance. Transit Mix will ensure that these practices are followed when working near utility lines.

Transit Mix will also work with Colorado Springs Utilities and Black Hills Energy to ensure that the construction occurs without adversely impacting the overhead power lines.

Conclusions

Overhead electric distribution lines exist within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. These power lines are located along the access road, and none are located in the mining areas. Construction around overhead power lines is extremely common, and the construction crews will follow standard operating procedures and Colorado Springs Utility or Black Hills Energy guidelines for working around overhead power. Also, no elevated loads will be required or allowed to operate in the area of the power lines or a spotter will be used. Thus, construction of the access road will not adversely impact the overhead power lines.

Engineer Certification

This engineering evaluation demonstrates that by following standard operating procedures and Colorado Springs Utility or Black Hills Energy guidelines, construction of the quarry access road will not adversely impact the overhead power lines.

NORWEST
CORPORATION

To:	Colorado Division of Reclamation, Mining, and Safety	**Ref #**	591-6
CC:	Jerald Schnabel, Transit Mix	**Date:**	October 3, 2017
From:	Paul Kos		
Subject:	Engineering Evaluation of Buried Data Lines		

Introduction

A segment of underground communications and data lines run along the frontage of the Hitch Rack Ranch and are considered existing structures located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. These locations along Highway 115 are shown on Figure 1. This engineering evaluation discusses the structure locations and components before evaluating potential impacts quarry development could have on the structure. It also presents what measures will be taken so there are no adverse impacts to the communications and data lines.

Structure Description

Communications and data lines transmit information and are frequently buried along roadways. In this instance they are buried along the west side of Highway 115 corridor and marked with delineator posts notifying the public of a buried utility. There are no buried utility lines in the mining area. Work activities in the vicinity of these buried utility lines will only occur during construction of the access road.

Potential Impacts and Mitigation

Potential Problem: Construction of the access road could damage the buried lines.

Solution: Construction crews routinely work around utilities and have standard operating procedures for not impacting or damaging the utility lines. As part of these procedures, Transit Mix will call 811 for an underground utility locate prior to construction to identify the exact location of the buried lines. The standard operating procedures also typically include signage on each side of the utility to remind operators of the hazard and require digging alongside of the utility and then extending the excavation laterally or using water or air jetting excavation techniques. Transit Mix will ensure that these practices are followed when working near utility lines. Transit Mix will also work with CenturyLink to ensure that the construction occurs without incident.

Conclusions

Buried communications and data lines exist within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. These utilities are only located along Highway 115 and are not present in the proposed mining areas. Construction around buried lines is extremely common, and the construction crews will follow standard operating procedures and CenturyLink guidelines for working around the utilities. Thus, development and operation of the Hitch Rack Ranch Quarry will not adversely impact the buried data cables.

Engineer Certification

This engineering evaluation demonstrates that by following standard operating procedures and CenturyLink guidelines, the buried data lines will not be adversely impacted by construction of the quarry access road.

NORWEST
CORPORATION

To:	Colorado Division of Reclamation, Mining, and Safety	**Ref #**	591-6
CC:	Jerald Schnabel, Transit Mix	**Date:**	October 3, 2017
From:	Paul Kos		
Subject:	Engineering evaluation of Little Turkey Creek Road		

Introduction

Little Turkey Creek Road is an existing structure located within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary. Little Turkey Creek Road is adjacent to Little Turkey Creek in the quarry area. The road location is shown on Figure 1. The road and ancillary structures (i.e. culverts) are owned by the property landowner (RMBC Group LLC), but several people have easements to travel the road to their property west of the proposed quarry area. This engineering evaluation covers the road segments along Little Turkey Creek and discusses the structure location, condition, and components before evaluating potential impacts quarry development could have on the structure and presenting how the quarry has been designed so there are no adverse impacts to the structures.

Structure Agreements

Transit Mix has submitted structure agreements to the property owner and the easement holders. Copies of any signed agreements will be submitted to CDMRS for inclusion in Exhibit S of the permit application.

Structure Description

The segment of Little Turkey Creek Road within 200 feet of the proposed Hitch Rack Ranch Quarry permit boundary is a gravel/dirt road that follows the adjacent creek at approximately the same gradient as the creek. The road surface contains a variety of materials including areas of bedrock and dirt; gravel is common near the culvert crossings. The road is not crowned. It is a single-lane road that requires high clearance to travel. Four-wheel drive is not required in dry conditions, but comments received from landowners suggest that four-wheel drive is likely required, or the road is impassable, during wet conditions, snow, or high-water levels in the creek. The comments also discuss the need for extra or continued maintenance on the road. The road segments do not have a constructed ditch system. A photograph showing the typical road condition is included in Figure 2.

The segment along Little Turkey Creek that lies within two hundred feet of the proposed quarry contains four sets of culverts. At each location, there are two reinforced concrete pipe culverts, and each pipe is 30 inches in diameter. The Little Turkey Creek culverts were either installed with insufficient slope or below the grade of the thalweg of the stream so that water ponds at the inlet and outlet even during low-flow periods. The culverts and associated fill cause the road to rise approximately two feet at each crossing location. Comments received from landowners indicate that the culverts historically could not pass the seasonal high flows in springtime, and flows would overtop the culvert and roadway eroding the road. It is not known if this flooding and overtopping occurred with the current culverts or culverts that were replaced after one of the flooding events. Regardless, the existing culverts are undersized for peak flows in Little Turkey Creek. The peak flow resulting from the 10-year, 24-hour storm event is 422 cubic feet per second (cfs), and each 30-in culvert can only convey 50 cfs using a nomograph for concrete pipe culverts prepared by the Bureau of Roads (U.S. Department of Commerce, 1963). The nomograph is attached at the end of this document. The flow calculations are included in Exhibit G of the permit submittal. The culverts do not contain debris protection devices. Photographs showing the Little Turkey Creek culvert crossings are included on Figures 3 through 6. Note how the road rises to get over the culverts.

Public comments also suggest that rock falls are common along portions of Little Turkey Creek Road, particularly where there are high cliffs. The locations of these rock falls were not indicated in the comments, but the most likely location for rock falls is along the rock cliffs located east of the quarry area. This area will not be mined, and these cliffs are located mostly outside the study area.

It is unknown if the road or culverts were engineered in any fashion, but the lack of a crown or drainage features, small size of the culverts, the crossing installations, and the road surface suggests that the road was minimally engineered.

Figure 2: Example Section of Little Turkey Creek Road

Figure 3: Little Turkey Creek East Crossing Looking Downstream

Figure 4: Little Turkey Creek East-Center Crossing Looking Downstream

Figure 5: Little Turkey Creek West-Center Crossing Looking Downstream

Figure 6: Little Turkey Creek West Crossing Looking Downstream

Potential Impacts and Mitigation

This section of the engineering evaluation includes discussions of the potential impacts to Little Turkey Creek Road by development and operation of the Hitch Rack Ranch Quarry and how the quarry has been designed to prevent adverse impacts to the road and related structures. The evaluation of impacts and mitigation relies on guidelines and recommendations in the Gravel Roads Construction & Maintenance Guide prepared by the Federal Highway Administration (FHWA, 2015). This guide indicates that three basic elements are required to properly maintain a gravel road, and Little Turkey Creek Road contains none of these. Each of these is related to providing adequate drainage from the road, as potholes and washboards are typically the result of poor drainage from the road surface (FHWA, 2015). The recommend road cross section is shown in Figure 7.

1. A crowned surface
2. A shoulder that slopes away from the driving surface, and
3. A ditch

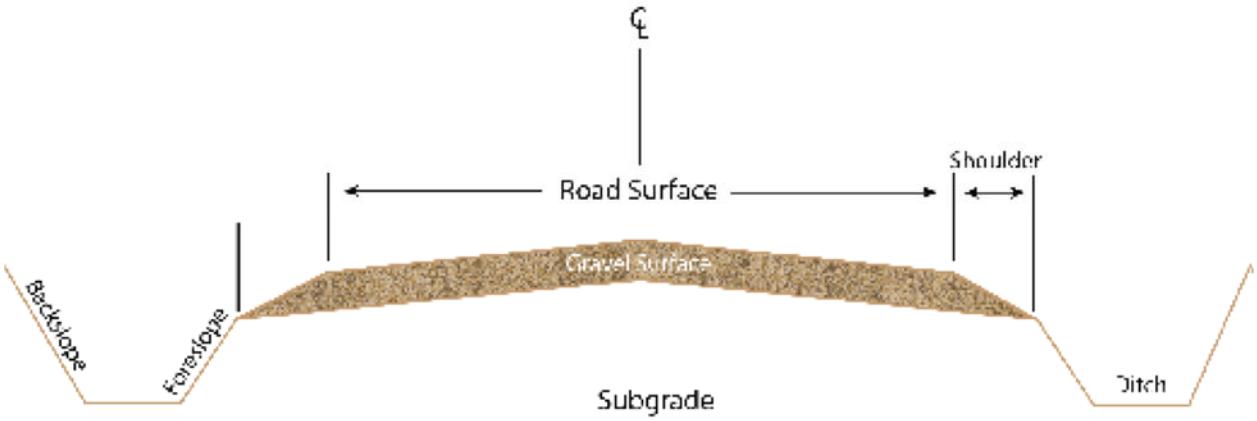


Figure 7: Roadway Cross Section (FHWA, 2015)

Increased Erosion

Potential Problem: Increased runoff from developed areas could increase water on Little Turkey Creek Road and increase erosion of the road surface.

Solution: The quarry design includes a water management system that is designed to convey runoff from the 100-yr, 24-hr storm event through detention basins and then into Little Turkey Creek. The discharge from the detention basins is set to drain the basin over a 72-hour period. This flow is a reduced flow rate from the natural flows and helps to remove sediment and erosion from the peak flows. This drainage system is specific to the affected area around the quarry and is separate from any drainage along Little Turkey Creek Road. Therefore, no waters from developed quarry areas will reach the existing road surface, and there will be no increase in erosion from the proposed mine on Little Turkey Creek Road. Thus, there were will not be an increased amount of erosion to Little Turkey Creek Road.

Increased Flooding

Potential Problem: Development of the quarry could increase flows in Little Turkey Creek increasing the risk of the road flooding.

Solution: Based on public comments, Little Turkey Creek already floods the road, and quarry development will not create any additional flooding problem. As discussed above, the quarry design includes a water management system that is designed to convey runoff from the 100-yr, 24-hr storm event through detention basins and then into Little Turkey Creek. The detention basins discharge over a 72-hour period to remove sediment and reduce peak flows. This detention period and slow release of waters minimizes changes to the creek flood hydrograph. The peak flow in the creek will have passed before the detention basins reach their peak outflow. Consequently, there will be no increase in flooding on Little Turkey Creek Road and the quarry drainage plan may reduce flooding on the road.

Blocked or Washed-out Culverts

Potential Problem: The quarry development could increase the risk of culverts blocking or being washed-out.

Solution: Culvert failure typically occurs when the culvert is undersized or the culvert is blocked by debris. The conveyance capacity of the existing culverts is limited by the pipe diameter and the fill height above the culvert. Culverts are typically designed to safely pass the peak flow from a specific design storm. As discussed above in the “increased flooding” section, there will be no adverse impacts to flows on Little Turkey Creek by quarry development. Also, as mentioned above in the “structure description” section, the existing culverts are undersized for the peak flows from the 10-year, 24-hour storm event and as a result flooding is a common occurrence. Development of the quarry will not impact the performance of the existing culverts.

Quarry development will not have any disturbances within 100 feet of the creeks, and this buffer prevents quarry operations from affecting the amount of debris in Little Turkey Creek.

Rock Falls

Potential Problem: Rock falls, potentially caused by blasting operations, could block the road requiring additional maintenance and repairs. There is also a concern with rock falls hitting vehicles as they travel the road.

Solution: Rock falls are natural occurrences in steep terrain, particularly near cliffs of broken, faulted or jointed bedrock (CGS, 2008). Public comments suggest that rock falls are already common along Little Turkey Creek Road. These rock falls are the result of geology and topography and will continue to occur regardless of operations at the quarry.

Rock falls are typically triggered by natural causes including mechanical or chemical weathering, erosion, precipitation, and freeze/thaw cycles (CGS, 2008). Human activities, including blasting, can cause rock to fall earlier than they would naturally (CGS, 2008). The instability and resulting fall remains a natural occurrence, and the rock fall will eventually happen; thus, the blasting operation is not the root cause of the rock fall. Also, the Blasting Plan requires the road be secured during the blasting operations and peak vibrations limited and monitored to prevent damage to structures. The road from each gate to the operation will be inspected following each blast. Should a rock fall occur, regardless of the cause, Transit Mix will have equipment available to clear rocks off the road.

Collisions between rock and cars typically occur when a car runs into a rock already on the road; however, rocks falling onto cars are rare (CGS, 2008). Also, cars running into rocks on the road require the car to be travelling at a rate of speed where it cannot stop before colliding with the rock. The conditions at the project area do not allow for these speeds. As previously mentioned, the road will be secured during blasting operations and a rock falling onto a car cannot occur.

Geotechnical evaluations of the pitwall and stockpiles are included in Exhibit 6.5 of the permit application. These evaluations demonstrate that the pitwalls and stockpiles are stable and will not cause rocks or other debris to block Little Turkey Creek Road.

Consequently, future rock falls are likely to occur on Little Turkey Creek Road, but they will be a continuation of the ongoing processes already occurring and any collision between a car and rock would be extremely rare.

Wear and Tear by Heavy Loads

Potential Problem: Gravel roads can perform well if traffic consists of light vehicles, but the road can fail if it is travelled by heavy loads, particularly during wet conditions (FHWA, 2015).

Solution: The quarry design includes plans to build a separate access road so that no heavy equipment associated with the quarry will travel Little Turkey Creek Road. Quarry traffic on Little Turkey Creek Road will be limited to light vehicles (i.e. one-ton or less pick-up trucks) and generally for the purpose of securing the road before blasting occurs, inspecting the road following each blast, or conducting routing water monitoring.

Conclusions

The Little Turkey Creek Road structures within 200 feet of the proposed Hitch Rack Ranch Quarry include four sets of culverts and the road. The current road condition requires high clearance vehicles, and four-wheel drive is necessary during inclement weather. The road is currently subject to periodic flooding, erosion, culvert overtopping, and rock falls. The quarry has been designed with 100-foot offsets from Little Turkey Creek and a separate access road. There will be no increased wear and tear due to heavy loads. The quarry water management structures will not cause the risk of flooding, erosion, rock falls, or culvert failure to increase beyond current levels. Thus, there will be no adverse impacts to Little Turkey Creek Road.

NORWEST
CORPORATION

Engineer Certification

This engineering evaluation of Little Turkey Creek Road demonstrates that the quarry design has been performed so that there are no adverse impacts to Little Turkey Creek Road by the development and operation of the Hitch Rack Ranch Quarry.

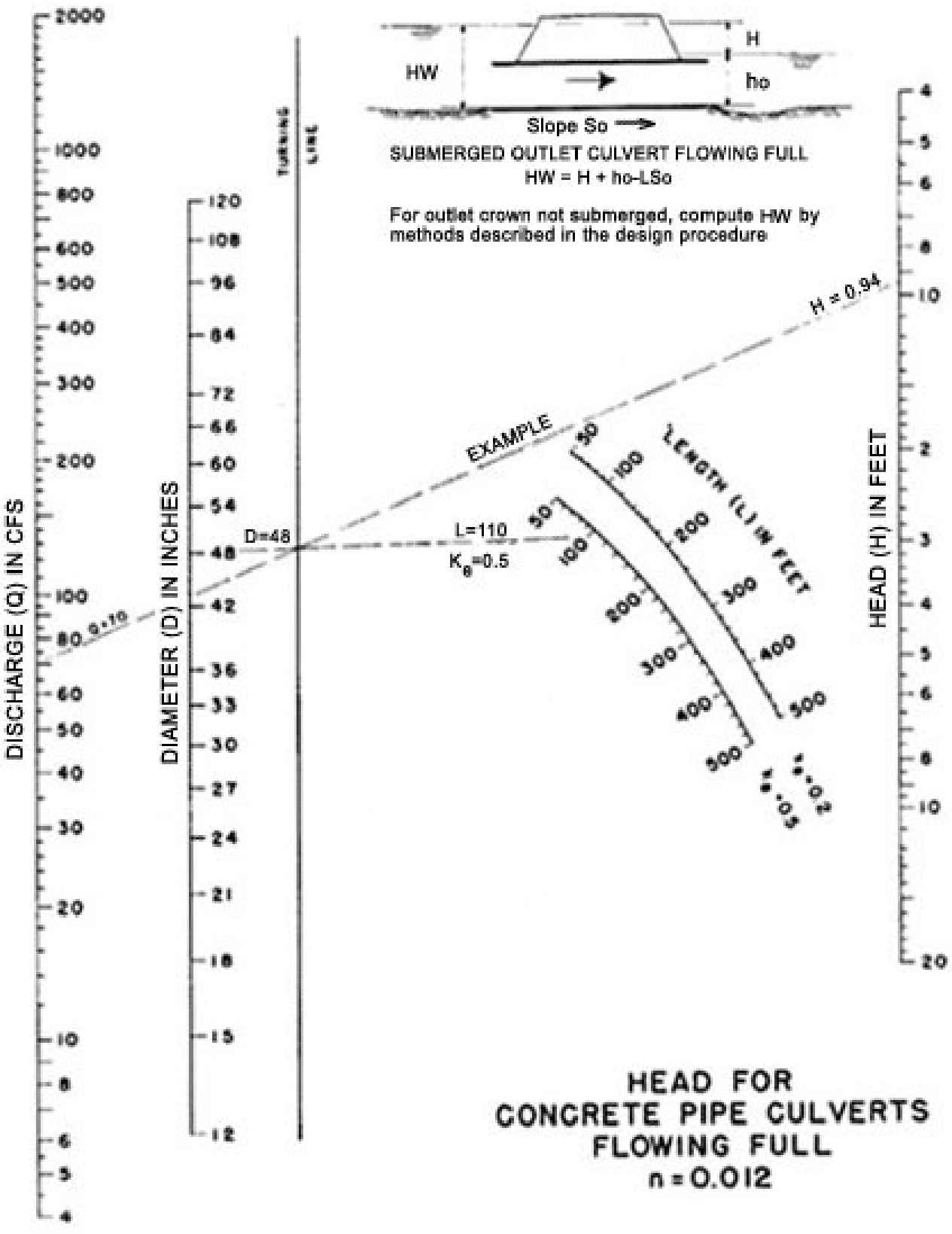
References

Colorado Geological Survey (CGS), 2008. Rocktalk, Volume 11, Number 2, Winter 2008, Rockfall in Colorado. Colorado Department of Natural Resources, Colorado Geological Society. Denver, Colorado.

Federal Highway Administration (FHWA), 2015. Gravel Roads Construction & Maintenance Guide. FHWA Publication No.: FWHA-OTS-15-0002. U.S. Department of Transportation, Federal Highway Administration.

U.S. Dept. of Commerce, Bureau of Public Roads. 1963. Hydraulic Charts for the Selection of Highway Culverts, Hydraulic Engineering Circular No. 5.

NORWEST
CORPORATION



BUREAU OF PUBLIC ROADS JAN. 1963

Transit Mix Concrete Co.
444 East Costilla Street Colorado Springs, Colorado 80903-3761 Phone: (719) 475-0700

October 3, 2017

Barbara L. Hughes
Judy Kline
3011 Springridge Dr
Colorado Springs, CO 80906-3749

SENT VIA UNITED STATES POSTAL SERVICE - CERTIFIED MAIL

STRUCTURE AGREEMENT

Transit Mix Concrete Co. is preparing to file an application for a quarry with the Colorado Mined Land Reclamation Board under the provisions of the Colorado Mined Land Reclamation Act for the Extraction of Construction Materials. This letter has been provided to you as the owner of a structure or easement on or within two hundred (200) feet of a proposed mine site. The State of Colorado, Division of Reclamation, Mining and Safety ("Division") requires that where a mining operation may adversely affect the stability of any significant, valuable and permanent man-made structure located within two hundred (200) feet of the affected land, the Applicant shall either:

a. Provide a notarized agreement between the Applicant and the Person(s) having an interest in the structure, that the Applicant is to provide compensation for any damage to the structure; or
b. Where such an agreement cannot be reached, the Applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation; or
c. Where such structure is a utility, the Applicant may supply a notarized letter, on utility letterhead, from the owner(s) of the utility that the mining and reclamation activities, as proposed, will have "no negative effect" on their utility. (*Construction Materials Rule 6.3.12 and Rule 6.4.19 & Hard Rock/Metal Mining Rule 6.3.12 and Rule 6.4.20*)

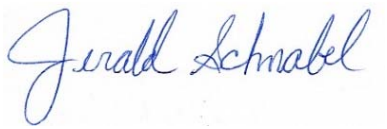
The Colorado Mined Land Reclamation Board ("Board") has determined that this form, if properly executed, represents an agreement that complies with Construction Materials Rule 6.3.12(a), Rule 6.4.19(a), and C.R.S. § 34-32.5-115(4)(e) and with Hard Rock/Metal Mining Rule 6.3.12(a), Rule 6.4.20(a), and C.R.S. § 34-32-115(4)(d). This form is for the sole purpose of ensuring compliance with the Rules and Regulations and shall not make the Board or Division a necessary party to any private civil lawsuit to enforce the terms of the agreement or create any enforcement obligations in the Board or the Division.

I request that you return one notarized structure agreement using the included envelope and retain one structure agreement for your records. If you have any questions, please contact me at 719-475-0700.

The following structures are located on or within 200 feet of the proposed affected area:

1. Easement on Little Turkey Creek Road.
2. Little Turkey Creek Road.

Regards,



Jerald Schnabel, President
Transit Mix Concrete Company

Enclosure

CERTIFICATION

The Applicant, Transit Mix Concrete Co. (print applicant/company name), by Jerald Schnabel (print representative's name), as President (print representative's title), does hereby certify that Barbara L. Hughes and Judy Kline (structure owner) shall be compensated for any damage from the proposed mining operation to the above listed structure(s) located on or within 200 feet of the proposed affected area described within Exhibit A, of the Reclamation Permit Application for Hitch Rack Ranch Quarry (operation name), File Number M-____-____.

This form has been approved by the Colorado Mined Land Reclamation Board pursuant to its authority under the Colorado Land Reclamation Act for the Extraction of Construction Materials and the Colorado Mined Land Reclamation Act for Hard Rock, Metal, and Designated Mining Operations. Any alteration or modification to this form shall result in voiding this form.

NOTARY FOR PERMIT APPLICANT

ACKNOWLEGED BY:

Applicant Jerald Schnabel Representative Name Jerald Schnabel

Date September 1, 2017 Title President of Transit Mix Concrete Co.

STATE OF Colorado)
) ss.
COUNTY OF El Paso)

The foregoing was acknowledged before me this 1st day of September, 20 17, by Jerald Schnabel as President of Transit Mix Concrete Co.

Kay Sanchez My Commission Expires: 02-22-2019
Notary Public

KAY SANCHEZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074002949
My Commission Expires 02-22-2019

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner _____ Name _____

Date _____ Title _____

STATE OF _____)
) ss.
COUNTY OF_____)

The foregoing was acknowledged before me this____ day of _____, 20___, by _____ as _____ of _____.

_____ My Commission Expires:_____
Notary Public

Transit Mix Concrete Co.
444 East Costilla Street Colorado Springs, Colorado 80903-3761 Phone: (719) 475-0700

October 3, 2017

Ms. Rhonda Latka
Black Hills Energy
105 South Victoria Avenue
Pueblo, CO 81003

SENT VIA UNITED STATES POSTAL SERVICE - CERTIFIED MAIL

STRUCTURE AGREEMENT

Transit Mix Concrete Co. has filed an application for a quarry with the Colorado Mined Land Reclamation Board under the provisions of the Colorado Mined Land Reclamation Act for the Extraction of Construction Materials. This letter has been provided to you as the owner of a structure or easement on or within two hundred (200) feet of a proposed mine site. The State of Colorado, Division of Reclamation, Mining and Safety ("Division") requires that where a mining operation may adversely affect the stability of any significant, valuable and permanent man-made structure located within two hundred (200) feet of the affected land, the Applicant shall either:

a. Provide a notarized agreement between the Applicant and the Person(s) having an interest in the structure, that the Applicant is to provide compensation for any damage to the structure; or
b. Where such an agreement cannot be reached, the Applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation; or
c. Where such structure is a utility, the Applicant may supply a notarized letter, on utility letterhead, from the owner(s) of the utility that the mining and reclamation activities, as proposed, will have "no negative effect" on their utility. (*Construction Materials Rule 6.3.12 and Rule 6.4.19 & Hard Rock/Metal Mining Rule 6.3.12 and Rule 6.4.20*)

The Colorado Mined Land Reclamation Board ("Board") has determined that this form, if properly executed, represents an agreement that complies with Construction Materials Rule 6.3.12(a), Rule 6.4.19(a), and C.R.S. § 34-32.5-115(4)(e) and with Hard Rock/Metal Mining Rule 6.3.12(a), Rule 6.4.20(a), and C.R.S. § 34-32-115(4)(d). This form is for the sole purpose of ensuring compliance with the Rules and Regulations and shall not make the Board or Division a necessary party to any private civil lawsuit to enforce the terms of the agreement or create any enforcement obligations in the Board or the Division.

I request that you return one notarized structure agreement using the included envelope and retain one structure agreement for your records. If you have any questions, please contact me at 719-475-0700.

The following structures are located on or within 200 feet of the proposed affected area:

1. Distribution line on Hitch Rack Ranch property.

Regards,

Jerald Schnabel

Jerald Schnabel, President
Transit Mix Concrete Company

Enclosure

CERTIFICATION

The Applicant, Transit Mix Concrete Co. (print applicant/company name), by Jerald Schnabel (print representative's name), as President Vance Crocker (print representative's title), does hereby certify that Black Hills Energy (structure owner) shall be compensated for any damage from the proposed mining operation to the above listed structure(s) located on or within 200 feet of the proposed affected area described within Exhibit A, of the Reclamation Permit Application for Hitch Rack Ranch Quarry (operation name), File Number M-____-____.

This form has been approved by the Colorado Mined Land Reclamation Board pursuant to its authority under the Colorado Land Reclamation Act for the Extraction of Construction Materials and the Colorado Mined Land Reclamation Act for Hard Rock, Metal, and Designated Mining Operations. Any alteration or modification to this form shall result in voiding this form.

NOTARY FOR PERMIT APPLICANT

ACKNOWLEGED BY:

Applicant Jerald Schnabel Representative Name Jerald Schnabel

Date September 1, 2017 Title President of Transit Mix Concrete Co.

STATE OF Colorado)
) ss.
COUNTY OF El Paso)

The foregoing was acknowledged before me this 1st day of September, 20 17, by Jerald Schnabel as President of Transit Mix Concrete Co..

Kay Sanchez My Commission Expires: 02-22-2019
Notary Public

KAY SANCHEZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074002949
My Commission Expires 02-22-2019

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner _____ Name Vance Crocker

Date 10-9-2017 Title Vice President, COE

STATE OF Colorado)
) ss.
COUNTY OF Pueblo)

The foregoing was acknowledged before me this 9th day of October, 2017, by Vance Crocker as Vice President of COE.

Catherine L. Gutierrez My Commission Expires: 8/28/18
Notary Public

CATHERINE LORRAINE GUTIERREZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 19984022956
MY COMMISSION EXPIRES AUGUST 28, 2018

Transit Mix Concrete Co.
444 East Costilla Street Colorado Springs, Colorado 80903-3761 Phone: (719) 475-0700

October 3, 2017

Colorado Board of Land Commissioners
1127 Sherman Street
Denver, CO 80203

SENT VIA UNITED STATES POSTAL SERVICE - CERTIFIED MAIL

STRUCTURE AGREEMENT

Transit Mix Concrete Co. has filed an application for a quarry with the Colorado Mined Land Reclamation Board under the provisions of the Colorado Mined Land Reclamation Act for the Extraction of Construction Materials. This letter has been provided to you as the owner of a structure or easement on or within two hundred (200) feet of a proposed mine site. The State of Colorado, Division of Reclamation, Mining and Safety ("Division") requires that where a mining operation may adversely affect the stability of any significant, valuable and permanent man-made structure located within two hundred (200) feet of the affected land, the Applicant shall either:

a. Provide a notarized agreement between the Applicant and the Person(s) having an interest in the structure, that the Applicant is to provide compensation for any damage to the structure; or
b. Where such an agreement cannot be reached, the Applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation; or
c. Where such structure is a utility, the Applicant may supply a notarized letter, on utility letterhead, from the owner(s) of the utility that the mining and reclamation activities, as proposed, will have "no negative effect" on their utility. (*Construction Materials Rule 6.3.12 and Rule 6.4.19 & Hard Rock/Metal Mining Rule 6.3.12 and Rule 6.4.20*)

The Colorado Mined Land Reclamation Board ("Board") has determined that this form, if properly executed, represents an agreement that complies with Construction Materials Rule 6.3.12(a), Rule 6.4.19(a), and C.R.S. § 34-32.5-115(4)(e) and with Hard Rock/Metal Mining Rule 6.3.12(a), Rule 6.4.20(a), and C.R.S. § 34-32-115(4)(d). This form is for the sole purpose of ensuring compliance with the Rules and Regulations and shall not make the Board or Division a necessary party to any private civil lawsuit to enforce the terms of the agreement or create any enforcement obligations in the Board or the Division.

I request that you return one notarized structure agreement using the included envelope and retain one structure agreement for your records. If you have any questions, please contact me at 719-475-0700.

The following structures are located on or within 200 feet of the proposed affected area:

1. State Highway 115
2. Fence along State Highway 115

Regards,

Jerald Schnabel

Jerald Schnabel, President
Transit Mix Concrete Company

Enclosure

CERTIFICATION

The Applicant, Transit Mix Concrete Co. (print applicant/company name), by Jerald Schnabel (print representative's name), as President (print representative's title), does hereby certify that Colorado Board of Land Commissioners (structure owner) shall be compensated for any damage from the proposed mining operation to the above listed structure(s) located on or within 200 feet of the proposed affected area described within Exhibit A, of the Reclamation Permit Application for Hitch Rack Ranch Quarry (operation name), File Number M-____-____.

This form has been approved by the Colorado Mined Land Reclamation Board pursuant to its authority under the Colorado Land Reclamation Act for the Extraction of Construction Materials and the Colorado Mined Land Reclamation Act for Hard Rock, Metal, and Designated Mining Operations. Any alteration or modification to this form shall result in voiding this form.

NOTARY FOR PERMIT APPLICANT

ACKNOWLEGED BY:

Applicant Jerald Schnabel Representative Name Jerald Schnabel

Date September 1, 2017 Title President of Transit Mix Concrete Co.

STATE OF Colorado)
) ss.
COUNTY OF El Paso)

The foregoing was acknowledged before me this 1st day of September, 20 17, by Jerald Schnabel as President of Transit Mix Concrete Co.

Kay Sanchez My Commission Expires: 02-22-2019
Notary Public

KAY SANCHEZ
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20074002949
My Commission Expires 02-22-2019

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

Structure Owner _____ Name Phillip J. Courtney

Date 10-19-2017 Title Solid Minerals Leasing Manager

STATE OF Colorado)
) ss.
COUNTY OF Denver)

The foregoing was acknowledged before me this 19th day of October, 2017, by Phillip J. Courtney as Solid Min. Leasing Mgr of Colorado State Land Board.

_____ My Commission Expires: 4/22/2019
Notary Public

SHERRY LEAL-LEE
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20034013043
MY COMMISSION EXPIRES APRIL 22, 2019

Transit Mix Concrete Co.
444 East Costilla Street Colorado Springs, Colorado 80903-3761 Phone: (719) 475-0700

October 30, 2017

RMBC Group LLC
712 Kris Ct.
Los Alamos, NM 87544-3530

SENT VIA UNITED STATES POSTAL SERVICE - CERTIFIED MAIL

STRUCTURE AGREEMENT

Transit Mix Concrete Co. has filed an application for a quarry with the Colorado Mined Land Reclamation Board under the provisions of the Colorado Mined Land Reclamation Act for the Extraction of Construction Materials. This letter has been provided to you as the owner of a structure or easement on or within two hundred (200) feet of a proposed mine site. The State of Colorado, Division of Reclamation, Mining and Safety ("Division") requires that where a mining operation may adversely affect the stability of any significant, valuable and permanent man-made structure located within two hundred (200) feet of the affected land, the Applicant shall either:

a. Provide a notarized agreement between the Applicant and the Person(s) having an interest in the structure, that the Applicant is to provide compensation for any damage to the structure; or
b. Where such an agreement cannot be reached, the Applicant shall provide an appropriate engineering evaluation that demonstrates that such structure shall not be damaged by activities occurring at the mining operation; or
c. Where such structure is a utility, the Applicant may supply a notarized letter, on utility letterhead, from the owner(s) of the utility that the mining and reclamation activities, as proposed, will have "no negative effect" on their utility. (*Construction Materials Rule 6.3.12 and Rule 6.4.19 & Hard Rock/Metal Mining Rule 6.3.12 and Rule 6.4.20*)

The Colorado Mined Land Reclamation Board ("Board") has determined that this form, if properly executed, represents an agreement that complies with Construction Materials Rule 6.3.12(a), Rule 6.4.19(a), and C.R.S. § 34-32.5-115(4)(e) and with Hard Rock/Metal Mining Rule 6.3.12(a), Rule 6.4.20(a), and C.R.S. § 34-32-115(4)(d). This form is for the sole purpose of ensuring compliance with the Rules and Regulations and shall not make the Board or Division a necessary party to any private civil lawsuit to enforce the terms of the agreement or create any enforcement obligations in the Board or the Division.

I request that you return the notarized agreement using the included envelope. If you have any questions, please contact me at 719-475-0700.

The following structures are located on or within 200 feet of the proposed affected area:

1. Schluckebier Headgate and Ditch, associated appurtenances, and associated water rights related to flow in Little Turkey Creek
2. Glen Carin Reservoir

Regards,

Jerald Schnabel

Jerald Schnabel, President
Transit Mix Concrete Company

Enclosure

CERTIFICATION

The Applicant, Transit Mix Concrete Co. (print applicant/company name), by Jerald Schnabel (print representative's name), as President (print representative's title), does hereby certify that RMBC Group LLC (structure owner) shall be compensated for any damage from the proposed mining operation to the above listed structure(s) located on or within 200 feet of the proposed affected area described within Exhibit A, of the Reclamation Permit Application for Hitch Rack Ranch Quarry (operation name), File Number M-____-____.

This form has been approved by the Colorado Mined Land Reclamation Board pursuant to its authority under the Colorado Land Reclamation Act for the Extraction of Construction Materials and the Colorado Mined Land Reclamation Act for Hard Rock, Metal, and Designated Mining Operations. Any alteration or modification to this form shall result in voiding this form.

NOTARY FOR PERMIT APPLICANT

ACKNOWLEDGED BY:

Applicant Jerald Schnabel Representative Name Jerald Schnabel

Date July 31, 2017 Title President of Transit Mix Concrete Co.

STATE OF Colorado)
) ss.
COUNTY OF Denver)

The foregoing was acknowledged before me this 31st day of July, 2017, by Jerald Schnabel as President of Transit Mix Concrete Co.

Carole A Riese My Commission Expires: 09-25-2017
Notary Public

CAROLE A. RIESE
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20094031187
My Commission Expires 09-25-2017

NOTARY FOR STRUCTURE OWNER

ACKNOWLEGED BY:

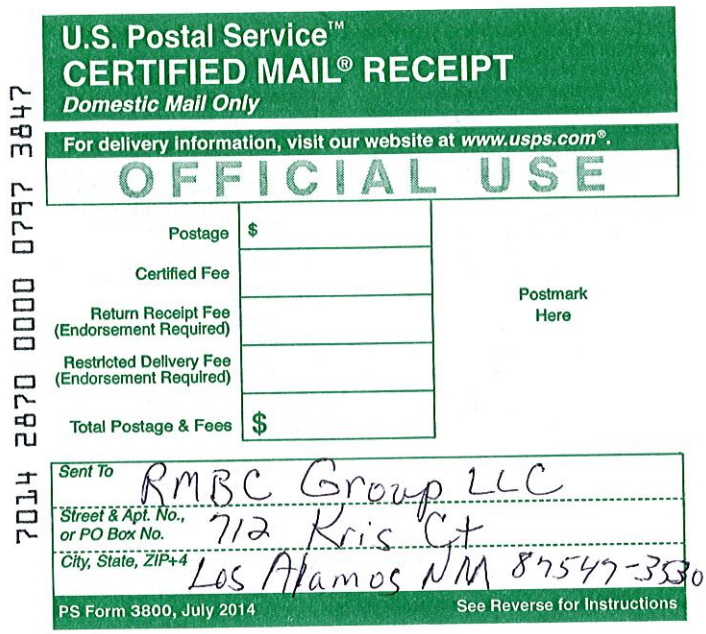
Structure Owner _____ Name _____

Date _____ Title _____

STATE OF _____)
) ss.
COUNTY OF_____)

The foregoing was acknowledged before me this____ day of _____, 20___, by _____ as _____ of _____.

_____ My Commission Expires:_____
Notary Public



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OFFICIAL USE

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

7014 2870 0000 0797 3847

Sent To RMBC Group LLC
Street & Apt. No., or PO Box No. 712 Kris Ct
City, State, ZIP+4 Los Alamos NM 87547-3530

PS Form 3800, July 2014 See Reverse for Instructions

EXHIBIT 6.5
GEOTECHNICAL EXHIBIT

Certification Statement

I, Paul Kos, Colorado P.E. 40848 herby certify that the information contained in the October 3, 2017 Exhibit 6.5 was reviewed by me and that the information is complete and accurate to the best of my knowledge.

E 3,169,500 E 3,170,000 E 3,170,500 E 3,171,000 E 3,171,500 E 3,172,000 E 3,172,500 E 3,173,000 E 3,173,500 E 3,174,000 E 3,174,500 E 3,175,000 E 3,175,500 E 3,176,000

N 1,303,000 N 1,302,500 N 1,302,000 N 1,301,500 N 1,301,000 N 1,300,500 N 1,300,000 N 1,299,500 N 1,299,000

B1
B2
HC002-15
B3
HC007-15
HC004-15
HC001-15
B4
HC003-15
HC005-15
A
DWG.
HC006-15
B5
B6

LEGEND:

- PROPERTY BOUNDARY
- PHASE 1 PIT CREST AREA
- ULTIMATE PIT CREST AREA
- B1 ⊕ EXISTING BOREHOLES
- HC001-15 2015 BOREHOLES
- PROJECTED FAULT TRACE
- LITTLE TURKEY CREEK ROAD
- EXISTING DRILLING ACCESS ROADS
- LITTLE TURKEY CREEK
- EPHEMERAL STREAMS
- SURFACE TOPOGRAPHY (10ft INTERVAL)

NOTES:

1. GRID COORDINATES SYSTEM IS COLORADO CENTRAL PLATE NAD 83 T16S, R62W, SECTION 16

COLORADO LICENSED
PAUL J. KOS
40848
PROFESSIONAL ENGINEER

0 100 200 400 600 800 1000ft

SCALE: 1" = 500'

SCALE:	1:500		
DATE:	2017-08-25		
CO-ORD. SYS.:	UTM		
DRWN BY:	KM	REV'D BY:	PK
DSG'N BY:	PK	APP'D BY:	SE

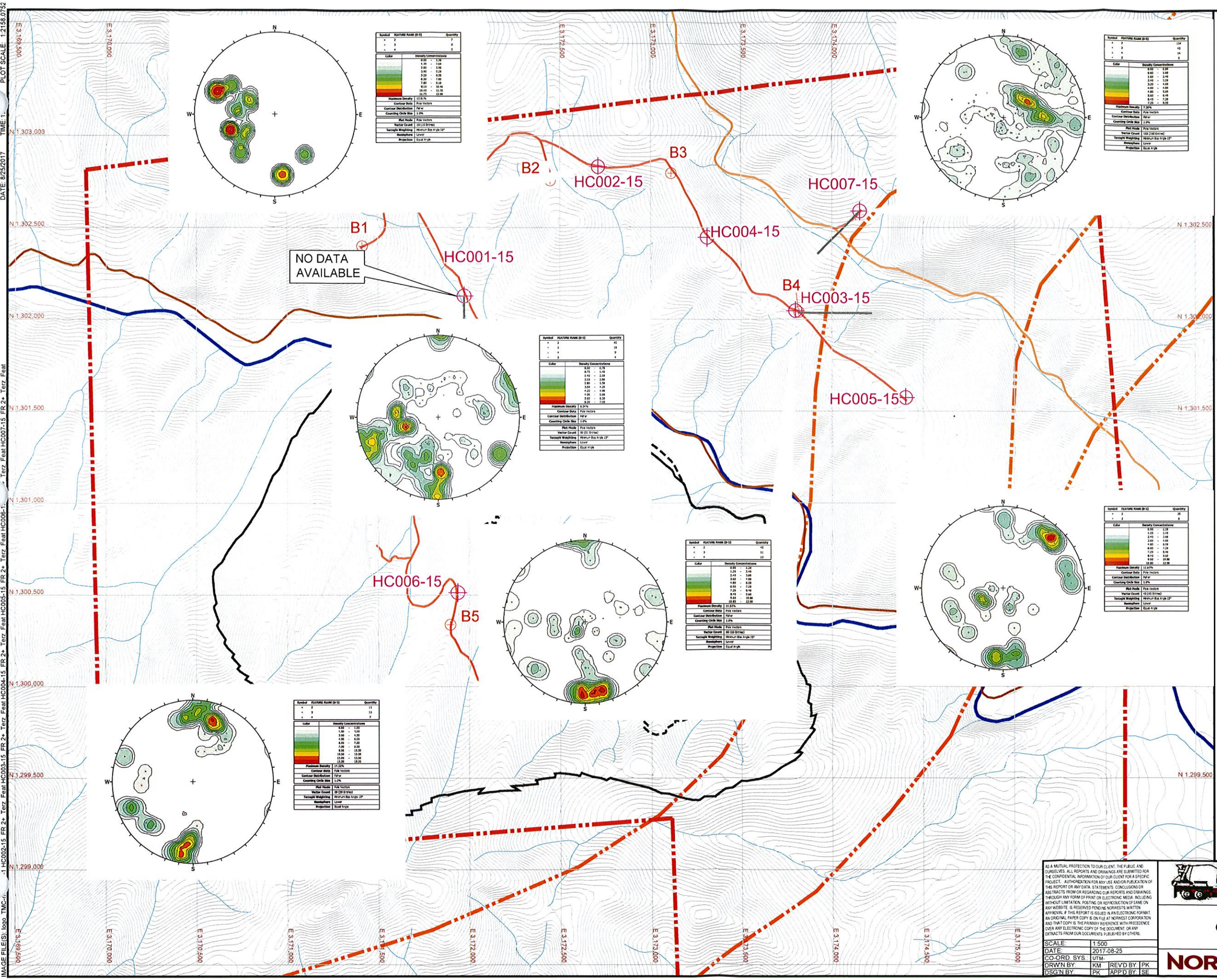
TRANSIT MIX CONCRETE

HITCH RACK RANCH

PLAN VIEW AND CROSS SECTION LOCATIONS

NORWEST

PROJECT NO.:	FIG. NO.:	REV.:
591-6	1	B



PLOT SCALE: 1:2158.0752
TIME: 1:
DATE: 8/25/2017
SIT_MIX_591591-6_HRR_2017\DRMS\DISC\DRAFTING\PIT\WALL REPORT\FIGURE 2 - GEOPHISICAL SURVEY RESULTS.
-1 HC002-15_FR 2+ Terz_Feat HC003-15_FR 2+ Terz_Feat HC004-15_FR 2+ Terz_Feat HC005-15_FR 2+ Terz_Feat HC006-15_FR 2+ Terz_Feat HC007-15_FR 2+ Terz_Feat
-; South Pit Crest Line; Surface Drainage; Topo with Roads; Property Boundary
XREF FILE(S): Section Line
IMAGE FILE(S): topo_TMC-
FILENAME: I:\PROJECTDA

LEGEND:

- PROPERTY BOUNDARY
- PHASE 1 PIT CREST AREA
- ULTIMATE PIT CREST AREA
- B1 — EXISTING BOREHOLES
- HC001-15 — 2015 BOREHOLES
- PROJECTED FAULT TRACE
- LITTLE TURKEY CREEK ROAD
- EXISTING DRILLING ACCESS ROADS
- LITTLE TURKEY CREEK
- EPHEMERAL STREAMS
- SURFACE TOPOGRAPHY (10ft INTERVAL)

NOTES:

1. GRID COORDINATES SYSTEM IS COLORADO CENTRAL PLATE NAD 83 T16S, R62W, SECTION 16

COLORADO LICENSED PAUL J. KOS 40848 10-30-17 PROFESSIONAL ENGINEER

0 100 200 400 600 800 1000ft

SCALE: 1" = 500'

SCALE:	1:500		
DATE:	2017-08-25		
CO-ORD. SYS.	UTM-		
DRWN BY:	KM	REV'D BY:	PK
DSGN BY:	PK	APP'D BY:	SE

TRANSIT MIX CONCRETE

HITCH RACK RANCH

GEOPHISICAL SURVEY RESULTS

NORWEST

PROJECT NO.:	FIG. NO.:	REV.:
591-6	2	B