

May 13, 2016

**RECEIVED**

**MAY 13 2016**

**DIV. OF OIL, GAS & MINING**

Permit Supervisor, Utah Coal Regulatory Program  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, UT 84114-5801

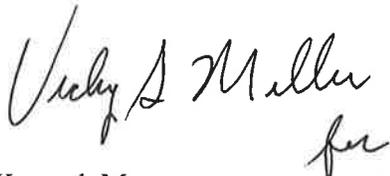
Re: Amendment to MRP to add to the Rock Chute Structure at the Tipple Building, , Sufco Mine, Canyon Fuel Company, LLC, Permit Number C/041/0002

Dear Sirs:

Please find enclosed with this letter an amendment to the Sufco Mine Permit to address the addition to the existing Rock Chute Structure. The amendment includes a drawing showing the changes to the structure and a revision to the bond to cover the reclamation cost for the additional steel.

If you have questions or need addition information please contact Vicky Miller at (435)286-4481.

CANYON FUEL COMPANY, SUFCO Mine



Kenneth May  
General Manager

Encl.

cc: DOGM Correspondence File

# APPLICATION FOR COAL PERMIT PROCESSING

Permit Change  New Permit  Renewal  Exploration  Bond Release  Transfer

**Permittee:** Canyon Fuel Company, LLC

**Mine:** Sufco Mine

**Permit Number:** C/041/0002

**Title:** Amendment to Enlarge Rock Chute, including Drawing and Revisions to Reclamation Bond

**Description:** Include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first eight (gray) questions, this application may require Public Notice publication.

- Yes  No    1. Change in the size of the Permit Area? Acres: \_\_\_\_\_ Disturbed Area: \_\_\_\_\_  increase  decrease.
- Yes  No    2. Is the application submitted as a result of a Division Order? DO# \_\_\_\_\_
- Yes  No    3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
- Yes  No    4. Does the application include operations in hydrologic basins other than as currently approved?
- Yes  No    5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes  No    6. Does the application require or include public notice publication?
- Yes  No    7. Does the application require or include ownership, control, right-of-entry, or compliance information?
- Yes  No    8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
- Yes  No    9. Is the application submitted as a result of a Violation? NOV # \_\_\_\_\_
- Yes  No    10. Is the application submitted as a result of other laws or regulations or policies?  
     *Explain:* \_\_\_\_\_
- Yes  No    11. Does the application affect the surface landowner or change the post mining land use?
- Yes  No    12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
- Yes  No    13. Does the application require or include collection and reporting of any baseline information?
- Yes  No    14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
- Yes  No    15. Does the application require or include soil removal, storage or placement?
- Yes  No    16. Does the application require or include vegetation monitoring, removal or revegetation activities?
- Yes  No    17. Does the application require or include construction, modification, or removal of surface facilities?
- Yes  No    18. Does the application require or include water monitoring, sediment or drainage control measures?
- Yes  No    19. Does the application require or include certified designs, maps or calculation?
- Yes  No    20. Does the application require or include subsidence control or monitoring?
- Yes  No    21. Have reclamation costs for bonding been provided?
- Yes  No    22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
- Yes  No    23. Does the application affect permits issued by other agencies or permits issued to other entities?

**Please attach one (1) review copy of the application.**

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

Jacob D. Smith  
Print Name

J. D. Smith, Engr. Mgr., 5/11/16  
Sign Name, Position, Date

Subscribed and sworn to before me this 11 day of May, 2016

Jacquelyn Nebeker  
Notary Public

My commission Expires: \_\_\_\_\_, 20\_\_\_\_ }  
Attest: State of \_\_\_\_\_ } ss:  
County of \_\_\_\_\_



<p><b>For Office Use Only:</b></p>	<p>Assigned Tracking Number:</p>	<p>Received by Oil, Gas &amp; Mining</p> <p style="font-size: 24px; font-weight: bold; color: red;">RECEIVED</p> <p style="font-size: 24px; font-weight: bold; color: red;">MAY 13 2016</p> <p>DIV. OF OIL, GAS &amp; MINING</p>
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APPENDIX 5-9

Reclamation Bond Estimate

### Direct Costs

Subtotal Demolition and Removal	\$1,735,044	
Subtotal Backfilling and Grading	\$1,261,248	
Subtotal Revegetation	\$164,246	
<b>Direct Costs</b>	<b>\$3,160,538</b>	<i>2014 Dollars</i>

### Indirect Costs

Mob/Demob	\$316,054	10.0%
Contingency	\$158,027	5.0%
Engineering Redesign	\$79,013	2.5%
Main Office Expense	\$214,917	6.8%
Project Management Fee	\$79,013	2.5%
<b>Subtotal Indirect Costs</b>	<b>\$847,024</b>	<b>26.8%</b>

<b>Total Cost</b>	<b>\$4,007,561.76</b>	<i>2014 Dollars</i>
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<i>Escalation factor for 2014</i>	<i>0.019</i>
<i>Number of years to next midterm</i>	<i>5</i>
<i>Escalation Amount</i>	<i>\$354,219.00</i>

<i>Reclamation Cost Escalated</i>	<i>\$ 4,361,781 2019 Dollars</i>
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<b>Bond Amount (rounded to nearest \$1,000) 2019</b>	<b>\$4,362,000.00</b>
<b>Dollars</b>	

Posted Bond 8/10/15	\$3,944,000.00
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Difference Between Cost Estimate and Bond	<b>-\$418,000.00</b>
Percent Difference	<b>-10.60%</b>

**DEMOLITION COSTS**

**MAY 2016**

Ref.	Description	Materials	Means Reference Number	Unit Cost	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost, 2014 Dollars
<b>Main Facilities</b>																			
21	Ambulance Garage																		\$3,455.00
31	Amey Building																		\$2,453.00
4	Blast Chambers A																		\$152,004.00
5	Blast Chambers B																		\$56,770.00
6	Bulk and Used Oil Storage																		\$3,372.00
7	Cap Magazine																		\$750.00
8	Chromalox Bld																		\$735.00
9	Diesel Tank - 16,900 Gal																		\$2,938.00
10	Drainage Culverts																		\$31,176.00
11	Electrical Bld																		\$7,053.00
12	Fan																		\$15,841.00
13	Fire Water Tank 300,000 Gal																		\$1,429.00
14	Fuel Dock																		\$515.00
15	Guard House																		\$4,229.00
16	Loadout Belt																		\$3,498.00
17	Lower Stacker Coal Storage																		\$1,545.00
18	Lump Coal Belt																		\$2,332.00
19	Lump Coal Storage																		\$18,568.00
20	Mine 1 Pnd																		\$4,750.00
21	No. 1 Belt																		\$113,321.00
22	Office Building																		\$183,257.00
23	Pavement Removal																		\$750.00
24	Powder Magazine																		\$1,796.00
25	Pump Houses																		\$558,602.00
26	Riprap Filter Fabric																		\$4,852.00
27	Rock Dust Bin																		\$1,457.00
28	ROM Coal Storage																		\$115,388.00
29	ROM MCC Bld																		\$1,851.00
30	Sampler Building																		\$3,157.00
31	Sand and Salt Storage																		\$69,600.00
32	Seal Portals																		\$2,358.00
33	Sediment Trap																		\$12,234.00
34	Septic Tanks																		\$5,696.00
35	Shelves																		\$109,659.00
36	Shop and Warehouse																		\$16,117.00
37	Shop Garage																		\$3,186.00
38	Shop Office																		\$1,857.00
39	Side Release Tank																		\$10,744.00
40	Steam Cleaner Building																		\$2,009.00
41	Stoker Belt																		\$11,800.00
42	Stoker Bin																		\$3,411.00
43	Stoker Coal Storage																		\$4,866.00
44	Stoker Oil Tanks																		\$2,142.00
45	Storage Trailers																		\$75,387.00
46	Substation Lower*																		\$852.00
47	Ticket Printers																		\$77,804.00
48	Tipple Building																		\$5,652.00
49	Tipple MCC Building																		\$ 4,371.00
50	Tipple Office Building																		\$822.00
51	Trail Pit																		\$14,034.00
52	Transfer Building																		\$3,037.00
53	Truck Loader Bin																		\$49,354.00
54	Truck Scale																		\$1,050.00
55	Water Tank Lower																		\$1,050.00
56	Water Tank Upper																		\$1,050.00
57	Water Hesse Tunnels																		\$45,811.00
58	Yard Pnd																		\$1,650.00
<b>Link Canyon Facilities</b>																			
60	Link Canyon Portals																		\$366.00
61	Link Canyon Substation																		\$24,055.00
<b>Fourth East Facilities</b>																			
63	Fan Generator Building																		\$4,007.00
64	Four East Fan																		\$22,819.00
<b>Mitigation</b>																			
65	Northwater Mitigation																		\$18,217.00
	<b>Total</b>																		<b>\$1,735,044.00</b>

Ref.	Description	Materials	Means Reference Number	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Swell Factor	Quantity	Unit	Cost	
	<b>Triple Building</b>																			
	Structure's Demolition Cost	Steel Bld. Large	02 41 16 13 0020	0.27 ICF						105056					CF		105056	CF	26365	
	Structure's Vol. Demolished																			
	Truck's Capacity									12					CY		778	CY		
	Haulage														Trips/Day		65	Trips		
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Transportation Cost Steel Truck & Driver																			
	<b>Subtotal</b>																			161720
	Steel Disposal	Rock Chute													LB. tons					45005
	Dismantling Cost	Remove Whole or Cut up-500-1000 lbs	05 05 05.10 0390	60 EA							147407				tons		147	EA	8844	
	Equipment's Vol. Demolished										67									
	Loading Costs																			
	Transport Costs																			
	Disposal Costs																			
	<b>Subtotal</b>																			1520
	Concrete Demolition																			88244
	Demolition Cost	Foundations <15"	Nielson 14	13.75 CY																
	Concrete's Vol. Demolished									93										
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trip	31 23 23 20 1914	2.95 /CY																
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY																
	<b>Subtotal</b>																			2885
	Concrete Demolition - Sump																			
	Demolition Cost	Foundations <15"	Nielson 14	13.75 CY																
	Concrete's Vol. Demolished									39.2										
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trip	31 23 23 20 1914	2.95 /CY																
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY																
	<b>Subtotal</b>																			3272
	Concrete Demolition																			
	Demolition Cost	Precast Block removal	RockBunk2015	92 EA																
	Concrete's Vol. Demolished	Foundations <15"	Nielson 14	13.75 CY						170										
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY																
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trip	31 23 23 20 1914	2.95 /CY																
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY																
	<b>Subtotal</b>																			19018
	<b>Total</b>																			77804

Assumptions  
Buildings with no internal walls

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APPENDIX 5-11  
Upper Mine Yard Details

**Rock Chute and Rock Bin**  
2015



**MEMORANDUM**

Keith Bigelow

**Date:** January 19, 2016

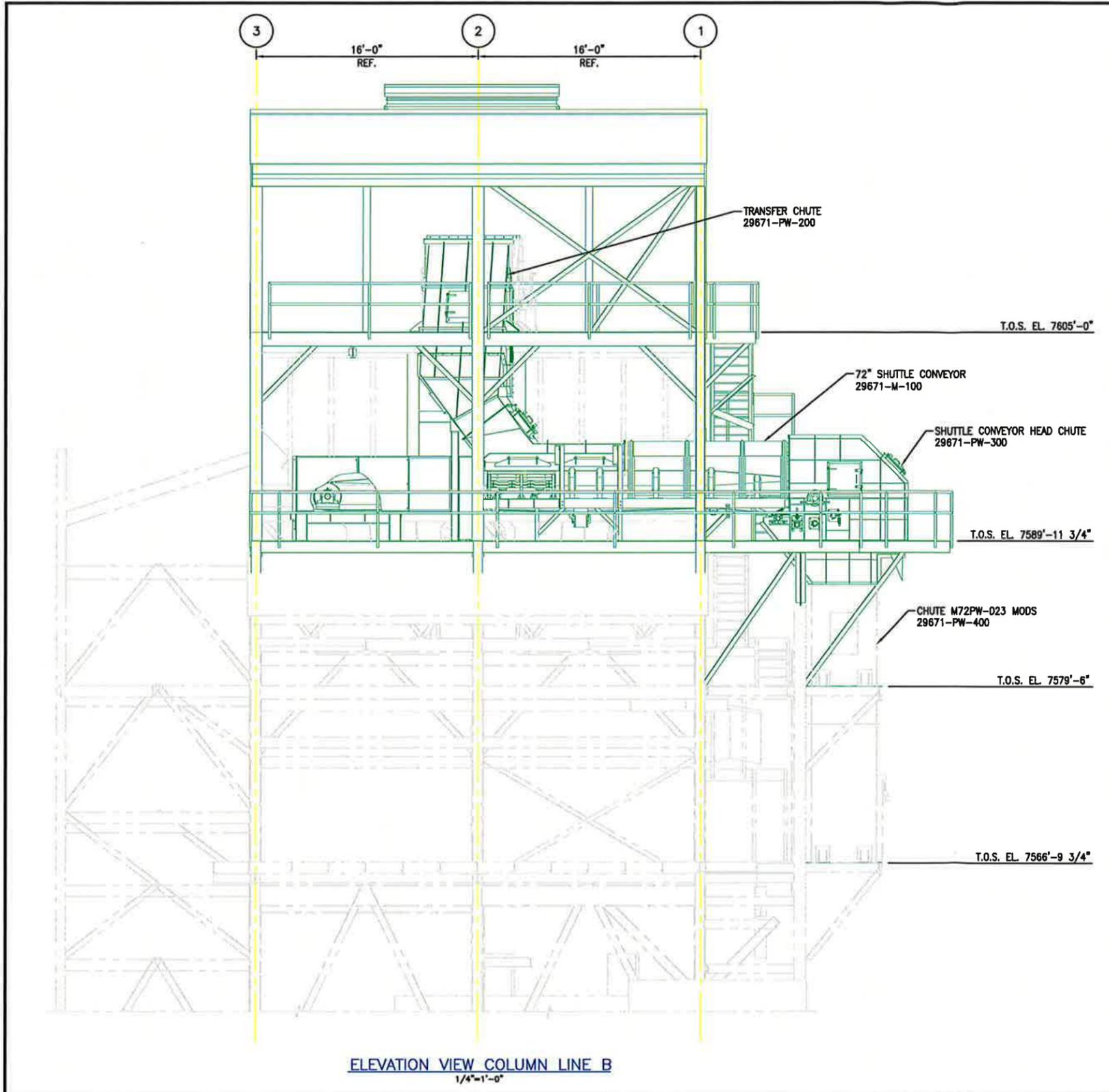
**To:** Vicky Miller

**From:** Keith Bigelow

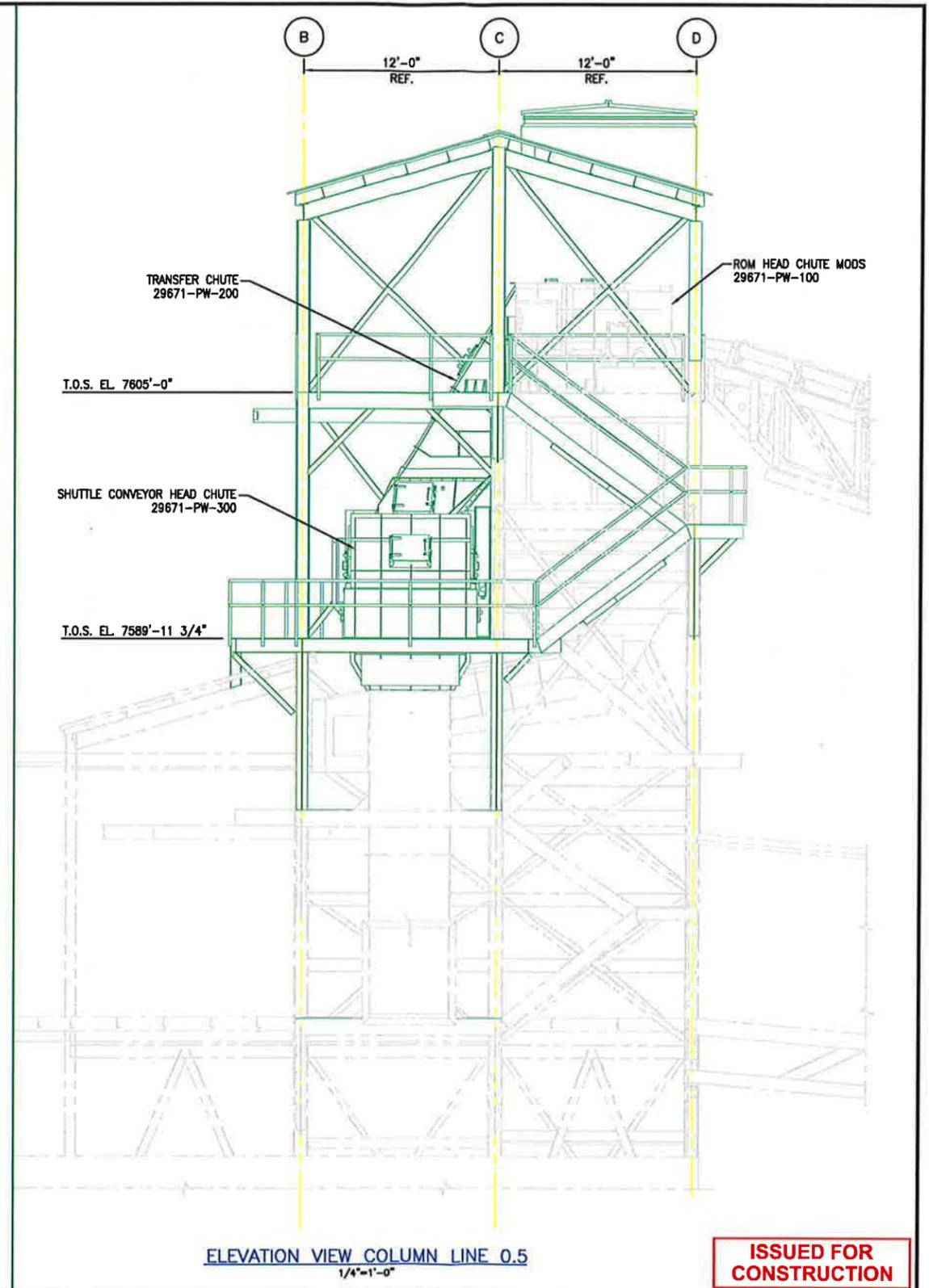
**Subject:** ROM Rock Chute Quantities

Net added steel weight = 98,650 lbs.

Mechanical Equipment Quantities	
Description	Quantity
72" Conveyor Belt	100'
35° Troughing Idler	5
20° Troughing Idler	2
Return Training Idler	1
Flat Return Roller	1
72" Conveyor Tail Pulley	1
72" Conveyor Motorized Drive Pulley	1



ELEVATION VIEW COLUMN LINE B  
1/4"=1'-0"



ELEVATION VIEW COLUMN LINE 0.5  
1/4"=1'-0"

**ISSUED FOR CONSTRUCTION**

										<b>TETRA TECH</b> 4750 West 2100 South, Suite 400 Salt Lake City, Utah 84120 Tel: 801-972-9100			
										PROJECT # 201-29671 SHEET # 0	SCALE: INDICATED TETRA TECH		DATE 10-19-15
										SUFCO: 29671-A-100 PROJECT MANAGER: KB PROJECT ENGINEER: KB	DATE: 10-19-15 CHECKED: JS DESIGNED: JS	DATE: 10-19-15 CHECKED: JS DESIGNED: JS	ELEVATIONS COLUMN LINE B & 0.5 SUFCO MINE - R.O.M. ROCK CHUTE CANYON FUEL COMPANY LLC - SALINA, UT SHEET NO. 201-29671 Dwg. No. 29671-GA-103 REV 0
1-11-15 ISSUED FOR CONSTRUCTION NO. DATE REVISION BY CHK APP NO. DATE REVISION BY CHK APP										DRAWING LIST REFERENCE DRAWINGS			