

C/041/002 Incoming ✓

#5301

RECEIVED  
OCT 19 2016  
DIV. OF OIL, GAS & MINING

**Sufco Mine**  
Kenneth E. May  
General Manager  
597 South SR24  
Salina Utah 84654  
(435) 286-4400  
Fax (435) 286-4499

October 11, 2016

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 Bond and Revise An Appendix to Include a Catwalk and Shed to Protect Pipes, 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 modifications to the permit to do the following:

In 2016 Sufco Mine plans to modify the Office Building by added a catwalk to the roof to provide secure footing and handholds to personnel doing maintenance to equipment on the roof. A drawing has been attached of the proposed addition.

A shed adjacent to existing 3,000 gallon water tank is to be constructed to protect existing pipes from frost and freezing. The pipes around which the shed will be built are currently within a depression on the water tank pad, the topsoil/subsoil have been removed previously from the area during the construction of the water tank pad. A drawing has been included showing the dimensions of the proposed shed.

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

CANYON FUEL COMPANY, SUFCO Mine



John Byars  
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:** Bond and Appendix Revision to Include Catwalk and Frost Shed to Protect Pipes

**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.

Les A. Topham  
 Print Name

Les A. Topham BUSINESS MGR. 10/11/16  
 Sign Name, Position, Date

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

Jacquelyn Nebeker  
 Notary Public  
 My commission Expires: \_\_\_\_\_, 20\_\_\_\_ }  
 Attest: State of \_\_\_\_\_ } ss:  
 County of \_\_\_\_\_



<b>For Office Use Only:</b>	<b>Assigned Tracking Number:</b>	<b>Received by Oil, Gas &amp; Mining</b>



**CHAPTER 5**  
**ENGINEERING**

APPENDIX 5-9

Reclamation Bond Estimate

### Direct Costs

Subtotal Demolition and Removal	\$1,735,166	
Subtotal Backfilling and Grading	\$1,261,248	
Subtotal Revegetation	\$164,246	
<b>Direct Costs</b>	<b>\$3,160,660</b>	<i>2014 Dollars</i>

### Indirect Costs

Mob/Demob	\$316,066	10.0%
Contingency	\$158,033	5.0%
Engineering Redesign	\$79,016	2.5%
Main Office Expense	\$214,925	6.8%
Project Management Fee	\$79,016	2.5%
<b>Subtotal Indirect Costs</b>	<b>\$847,056</b>	<b>26.8%</b>

<b>Total Cost</b>	<b>\$4,007,715.76</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>\$ 4,361,935 2019 Dollars</i>

<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
Difference Between Cost Estimate and Bond	<b>-\$418,000.00</b>
Percent Difference	<b>-10.60%</b>

Item	Description	Quantity	Unit	Rate	Total
<b>Main Facilities</b>					
2	Ambulance Garage			\$3,433.00	\$3,433.00
3	Annex Buildings			\$72,463.00	\$72,463.00
4	Blast Channels A			\$152,004.00	\$152,004.00
5	Blast Channels B			\$56,770.00	\$56,770.00
6	Bulk and Used Oil Storage			\$3,372.00	\$3,372.00
7	Can Magazine			\$790.00	\$790.00
8	Chromator Bld			\$785.00	\$785.00
9	Diesel Tank - 16 900 Gal			\$2,938.00	\$2,938.00
10	Drainage Culverts			\$31,195.00	\$31,195.00
11	Electrical Bld			\$1,176.00	\$1,176.00
12	Flm			\$7,063.00	\$7,063.00
13	Fire Water Tank 300,000 Gal			\$13,841.00	\$13,841.00
14	Fuel Dock			\$1,429.00	\$1,429.00
15	Guard House			\$535.00	\$535.00
16	Loadout Belt			\$4,209.00	\$4,209.00
17	Lower Stocker Coal Storage			\$3,488.00	\$3,488.00
18	Lump Coal Bld			\$1,545.00	\$1,545.00
19	Lump Coal Storage			\$2,332.00	\$2,332.00
20	Mine 1 Pad			\$18,588.00	\$18,588.00
21	No. 1 Belt			\$4,760.00	\$4,760.00
22	Office Building			\$113,323.00	\$113,323.00
23	Pavement Removal			\$183,257.00	\$183,257.00
24	Powder Magazine			\$790.00	\$790.00
25	Pump Houses			\$1,906.00	\$1,906.00
26	Rapra Filter Fabric			\$358,802.00	\$358,802.00
27	Rock Dust Bin			\$4,852.00	\$4,852.00
28	ROM Coal Storage			\$1,457.00	\$1,457.00
29	ROM MCC Bld			\$116,388.00	\$116,388.00
30	Sampler Building			\$1,851.00	\$1,851.00
31	Sand and Salt Storage			\$3,167.00	\$3,167.00
32	Scal Portholes			\$9,600.00	\$9,600.00
33	Sediment Trap			\$2,359.00	\$2,359.00
34	Serpic Tanks			\$12,234.00	\$12,234.00
35	Shelves			\$5,606.00	\$5,606.00
36	Shop and Warehouse			\$102,889.00	\$102,889.00
37	Shop Garage			\$16,117.00	\$16,117.00
38	Shop Office			\$3,199.00	\$3,199.00
39	Sole Release Tank			\$1,857.00	\$1,857.00
40	Sodium Cleaner Building			\$10,744.00	\$10,744.00
41	Stoker Bell			\$7,809.00	\$7,809.00
42	Stoker Bin			\$1,811.00	\$1,811.00
43	Stoker Coal Storage			\$3,866.00	\$3,866.00
44	Stoker Cr Tanks			\$2,142.00	\$2,142.00
45	Storage Trailers			\$75,787.00	\$75,787.00
46	Substation Lower			\$387.00	\$387.00
47	Token Building			\$77,804.00	\$77,804.00
48	Truck Office Building			\$5,662.00	\$5,662.00
49	Truck Office Building			\$4,371.00	\$4,371.00
50	Truck Office Building			\$822.00	\$822.00
51	Truck Office Building			\$14,034.00	\$14,034.00
52	Trunker Building			\$3,037.00	\$3,037.00
53	Truck Loader Bin			\$48,354.00	\$48,354.00
54	Truck Scale			\$1,050.00	\$1,050.00
55	Water Tank Lower			\$1,050.00	\$1,050.00
56	Water Tank Upper			\$1,050.00	\$1,050.00
57	West Lease Turneh			\$45,811.00	\$45,811.00
58	Yard Hoist			\$1,630.00	\$1,630.00
<b>Link Canyon Facilities</b>					
60	Link Canyon Restak			\$366.00	\$366.00
61	Link Canyon Substation			\$24,655.00	\$24,655.00
<b>Fourth East Facilities</b>					
62	Four East Generator Building			\$4,007.00	\$4,007.00
64	Four East Fan			\$22,319.00	\$22,319.00
<b>Mitigation</b>					
65	Northwater Mitigation			\$18,217.00	\$18,217.00
<b>TOTAL</b>					\$1,735,166.00

Ref.	Description	Materials	Means Reference Number	Unit Cost	Unit	Length	Width	Height	Diameter	Area	Volume	Weight	Density	Time	Number	Unit	Jewell Factor	Quantity	Unit	Cost
	<b>Office Building</b>																			
	Structure's Demolition Cost	Mixed Material	02 41 16 13 01 00	0.3 /CF	CF						23884.16						0.1	23884.02	CF	711653
	Structure's Vol. Demolished																			
	Truck's Capacity										12									
	Haulage																			
	Transportation Cost Steel Truck																			
	Transportation Cost Steel Truck Drive																			
	Transportation Cost Truck/Driver	Nielson Construction - 10 whl DT - 12 CY	Truck & Driver '14	7.00 /Day	Day															19000
	<b>Subtotal</b>																			<b>90053</b>
	Equipment's Disposal Cost																			
	Dismantling Cost	Manhole Demo	02 41 13 42 02 00	13.49 /SF Face	SF Face	4.43	3.77	4	2						32.8					445
	Equipment's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY	CY															3
	Transport Costs	12 CY (16 Ton) Dump Truck 1/2 mi. md. trp	31 23 20 10 14	2.95 /CY	CY															6
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY	CY															17
	<b>Subtotal</b>																			<b>471</b>
	Asphalt Demo																			
	Demolition Cost	Asphalt 6 inches thick	02 41 13 17 5050	7.01 /SY	SY						292									4094
	Alpha's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY	CY															635
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trp	31 23 20 10 14	2.95 /CY	CY															1121
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY	CY															3287
	<b>Subtotal</b>																			<b>9137</b>
	Concrete Demolition																			
	Demolition Cost	4" gutter asphalt	02 41 13 17 6300	2.51 /LF	LF	207														520
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY	CY															22
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trp	31 23 20 10 14	2.95 /CY	CY															38
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY	CY															112
	<b>Subtotal</b>																			<b>692</b>
	Concrete Demolition																			
	Demolition Cost	Foundations <15"	Nielson '14	13.75 /CY	CY						21.3									289
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY	CY															47
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trp	31 23 20 10 14	2.95 /CY	CY															83
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY	CY															242
	<b>Subtotal</b>																			<b>561</b>
	Concrete Demolition																			
	Demolition Cost	Foundations <15"	Nielson '14	13.75 /CY	CY						292									4016
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY	CY															635
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trp	31 23 20 10 14	2.95 /CY	CY															1121
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY	CY															3287
	<b>Subtotal</b>																			<b>9058</b>
	Untreated Base Course																			
	Demolition Cost	8 inches untreated base course	Nielson '14	13.75 /CY	CY						6617									
	Concrete's Vol. Demolished																			
	Loading Cost	Front end loader 3 CY	31 23 16 42 1300	1.67 /CY	CY															400
	Transportation Cost	12 CY (16 Ton) Dump Truck 1/2 mi. md. trp	31 23 20 10 14	2.95 /CY	CY															723
	Disposal Costs	On site disposal	02 41 16 17 4200	8.65 /CY	CY															2119
	<b>Subtotal</b>																			<b>3251</b>
	<b>Total</b>																			<b>113323</b>

Assumptions  
 Building with no internal walls  
 Add Catwalk 10/11/16

Item	Description	Quantity	Unit	Rate	Material																		
<b>Pump Houses</b>																							
	Structure's Demolition Cost			0.27	CF																		
	Structure's Vol. Demolished																						
	Structure's Capacity																						
	Transportation Cost Steel Truck																						
	Transportation Cost Steel Truck/Driver																						
	Nelson Construction - 10 w/d DT - 12 CY																						
	Truck & Driver *14																						
	<b>Subtotal</b>																						
	Equipment & Disposal Cost																						
	Equipment Cost																						
	Equipment & Vol. Demolished																						
	Equipment Cost																						
	Equipment Cost																						
	Disposal Costs																						
	<b>Subtotal</b>																						
	Concrete Demolition																						
	Demolition Cost																						
	Concrete's Vol. Demolished																						
	Equipment Cost																						
	Transportation Cost																						
	Disposal Costs																						
	<b>Subtotal</b>																						
	<b>Total</b>																						

Assumptions  
 Building with no internal walls  
 Added pump shed 10/11/16

October 11, 2016

**APPENDIX 5-11**

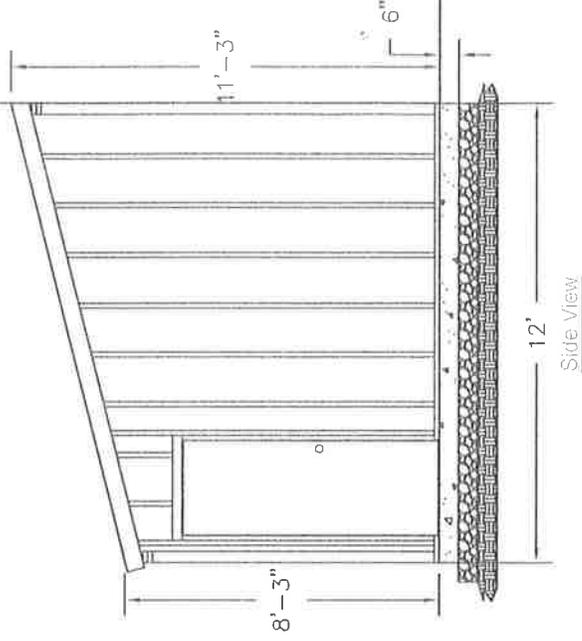
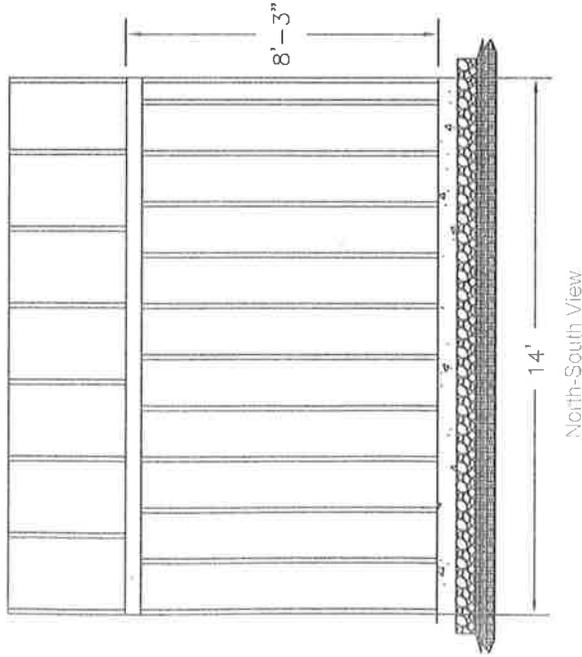
OFFICE BUILDING CATWALK AND PIPE PROTECTION SHED

In 2016 Sufco Mine plans to modify the Office Building by added a catwalk to the roof to provide secure footing and handholds to personnel doing maintenance to equipment on the roof. A drawing has been attached of the proposed addition.

A shed adjacent to existing 3,000 gallon water tank is to be constructed to protect existing pipes from frost and freezing. The pipes around which the shed will be built are currently within a depression on the water tank pad, the topsoil/subsoil have been removed previously from the area during the construction of the water tank pad. A drawing has been included showing the dimensions of the proposed shed.

300k Gallon Storage Tank

300k Gallon Storage Tank



- 111 ft<sup>2</sup> E-W Walls
- 176ft<sup>2</sup> Top
- 110 ft<sup>2</sup> N Wall
- Flashing 4@ 5 ft<sup>2</sup> = 20 ft<sup>2</sup>
- Door 17ft<sup>2</sup>

Total 434 ft<sup>2</sup> (.0015 ft thick) = 0.65 ft<sup>3</sup> Steel

Concrete = 4 yds<sup>3</sup> Concrete w/Rebar



Canyon Fuel Company, LLC  
SUFCO Mine

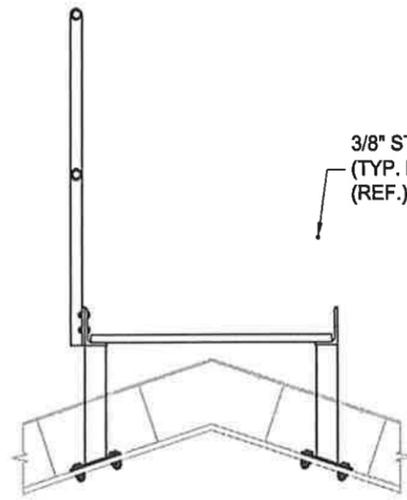
Pipe Frost Protection Shed  
300k Gallon Tank

DATE: October, 2016 SCALE: 1:5

397 SOUTH 800 WEST  
SALINA, UTAH 84654

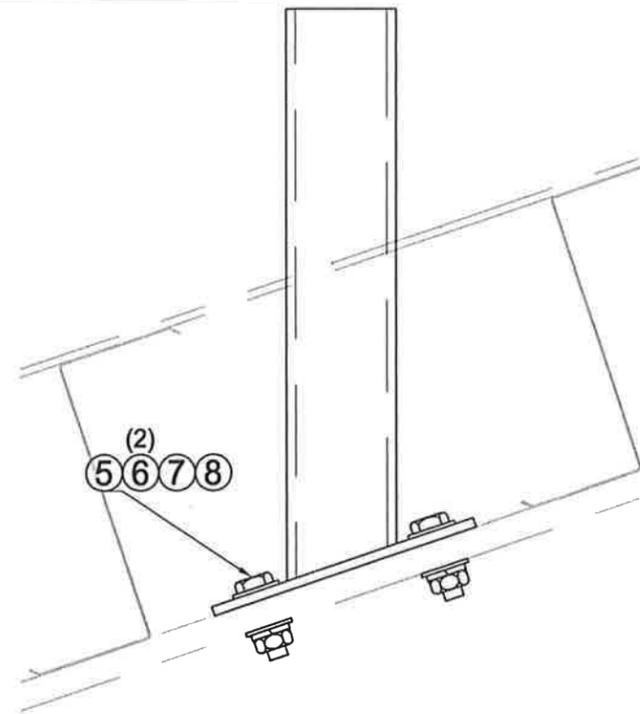
DRAWN BY: CLM

FILENAME: ###



**SUPPORT LEG DETAIL**

Scale: 1/2" = 1'-0"



**SUPPORT LEG INSTALL DETAIL**

Scale: 1" = 5'

**ASSEMBLY NOTES:**

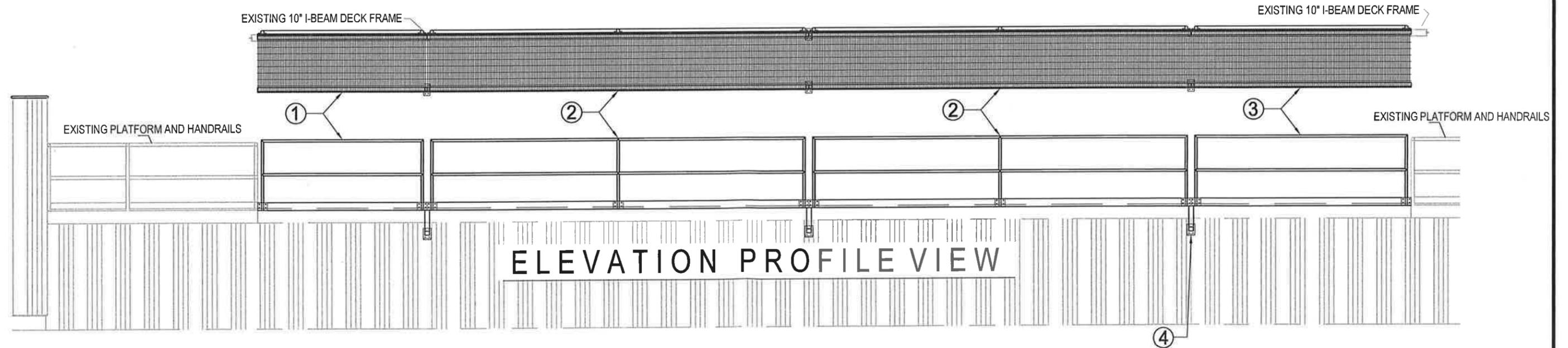
- 1- Install support legs from below to ensure proper placement on existing structural steel.
- 2- Seal all support leg roof penetrations with rubber gasket and silicone before deck installation.
- 3- Install 5"x 3"x 3/8" angle across support legs with 1/4" weld on all sides of support leg.
- 4- Install 1" bar grating between angle, welded every 12" with 3/16" weld.
- 5- Install handrail after all of decking is completely installed.

**Bill of Material**

Item	Qty.	Mat'l	Description	tot. wgt.
1	1	STL	Catwalk Section (see dwg CAT3)	257.8 lbs
2	2	STL	Catwalk Section (see dwg CAT4)	1132.2 lbs
3	1	STL	Catwalk Section (see dwg CAT5)	329.3 lbs
4	4	STL	Support Leg (see dwg CAT2)	63.5 lbs
5	16	STL	Hx Hd Bolt 5/8"-11 X 3" length	-
6	36	STL	Flat Washer 5/8"	-
7	16	STL	Lock Washer 5/8"	-
8	16	STL	Nut 5/8"- 11	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
			Approximate Cubic Feet of Steel	3.64 ft <sup>3</sup>
			Approximate Total Weight	1782.8 lbs

**NOTES:**

- 1- Break or deburr all sharp edges.
- 2- Paint to prevent rust and/or corrosion.
- 3- All welds to be 1/2" unless otherwise specified.



**ELEVATION PROFILE VIEW**



**Canyon Fuel Company, LLC**  
**SUFCO Mine**  
 597 South SR 24 - Salina, UT 84654  
 (435) 286-4880 Phone  
 (435) 286-4499 Fax

**SUFCO Mine Building Rooftop Catwalk**

**Assembly**

SCALE: 3/16" = 1'-0"    DATE: 10/6/2016    DRAWN BY: J.C.S.    ENGINEER: J.C.S.    CHECKED BY: J.G.C.  
 FILE NAME: P:\SeiterJ\Catwalk\Catwalk Final Design.dwg    PROJ: CATWALK

REVISIONS				
NO.	DATE	REQ. BY	DWG. BY	REMARKS

SHEET NO.

**CAT1**