

Question 23. SUPPLEMENTAL INFORMATION UPLOAD

- Narrative Annual Report – Provides detail to answers on annual report questions.
- 2019 Tailing Storage Facility Evaluation Letter from AECOM
- 2019 McNulty OSF Expansion As-Built Drawings
- 1 Dam Horizontal Drains – no new drains drilled in 2019
- Weed Control Data Tables

Annual Report – 2019
Climax Molybdenum Company - Climax Mine
Highway 91 – Fremont Pass
Climax, Colorado 80429
Permit No. M-1977-493

According to C.R.S. 34-32-116, each year, on the anniversary date of the permit, an operator shall submit the annual fee, an annual report and map showing the extent of current disturbances to affected land, required monitoring information, reclamation accomplished to date and during the preceding year, any new disturbance that is anticipated to occur during the upcoming year, the dates for the beginning of active operations, and the date active operations ceased for the year.

The 2019 Annual Report for Climax Mine (Climax) follows the format of the questionnaire that is posted on the Division of Reclamation, Mining and Safety's (DRMS) Minerals Reclamation Permit Annual Report webpage. Climax's responses to the questionnaire are provided below. Other supporting documentation including reclamation maps, environmental monitoring data, weed control, and tailing storage facility stability information are included in the upload sections of questions 21, 22, and 23.

Climax Responses to DRMS Annual Report Questionnaire

1. Yes. There is an identification sign posted on the east facing wall of the Climax main gate house that is visible from the entrance road.
2. Yes. Although boundaries are not marked in remote areas that are generally inaccessible due to the rugged terrain of the site, property boundaries at potential public access points are marked with Do Not Enter and No Trespassing signs. The Climax affected land boundaries also are clearly delineated on publicly available maps distributed with the AM-06 application; Climax believes that signage at public access points together with the AM-06 maps meet the intent of Rule 3.1.12(2) and (3).
3. No. Climax is not in final reclamation.
4. Excavation, hauling, processing, and tailing deposition activities are currently ongoing at Climax. The Annual report form requires a date in the field, so the anniversary date is displayed here (3/4/20).
5. Climax operates more than 180 days per year.
6. No. Climax has neither requested, nor been granted, approval for Temporary Cessation or Intermittent Operation during the reporting year.
7. No. Climax has neither requested, nor been granted, approval for Temporary Cessation or Intermittent Operation during the reporting year.

8. There are 4,164.3 acres of currently affected land, including mining and incomplete and/or unreleased reclamation. Climax is permitted for 7,908 acres within the AM-06 affected land boundary.
9. Climax has 43.6 acres of newly affected land for the current (2019) report year.
10. Climax did not reclaim any affected land during the current (2019) report year.
11. Climax estimates that up to 60 acres may become affected in the next (2020) report year.
12. Climax does not anticipate any new reclamation occurring in the next (2020) report year.
Areas where there is reclamation in progress will remain as indicated in question 13 below.
These areas include Lake Irwin, Robinson TSF, 1 Dam, 2 Dam, areas surrounding Robinson Lake, and areas north of 3 Dam.
13. The total acres in various stages of reclamation (not counting the 550.7 acres of bond released reclamation) since permitted mining activities began are as follows:
 - a. Total acres backfilled: NA – all reclamation earth-work consists of regrading.
 - b. Total acres graded: 798.6
 - c. Total acres seeded with approved mix: 549.1
 - In 2019, 4 acres of Robinson TSF were seeded.
 - d. Seed Application Method: Hydroseeding for slopes > 50%, Broadcast for all other areas.
 - e. Total acres fertilized with approved fertilizer: 434.0
 - In 2019, 4 acres of Robinson TSF were fertilized.
 - f. Fertilizer application method: Incorporation of Composted Biosolids or Hydroseeder.
The annual report form only allows for one entry, so “tractor spreader” is used to describe Incorporation of Composted Biosolids.
 - g. Total acres with topsoil replaced: 110.6
 - In 2019, 0.17 acres were disturbed for repair of the Arkansas Pipeline, and those 0.17 acres were replaced with topsoil.
 - h. Topsoil replacement depth: 6 – 12 inches
 - i. Total acres mulched with approved mulch: 87.6
 - j. .Mulch application rate: 1 ton per acre
 - k. Mulch application method: Hydroseeder

14. Yes. Weed control was conducted in accordance with the Weed Control Plan submitted in Amendment AM-06 and the weed species and control types are found on the maps uploaded in question 22. A weed control information narrative is provided in the supplemental information upload section.
15. Yes. As described in Amendment AM-06, adequate topsoil for reclamation has been identified/reserved within the affected land boundary. However, not all available cover material has been stripped and stockpiled. Climax has been segregating and stockpiling topsoil since 1979 based on areas of disturbance associated with mining activities. Although current soil stockpiles do not currently meet final reclamation needs, soil from future disturbed areas will continue to be stockpiled and Climax will utilize its biosolids composting operation to generate additional nutrient-rich topsoil amendment.
16. Yes. Stockpiled topsoil has been vegetated and stabilized.
17. N/A. Mining activities have not exposed groundwater.
18. Yes. All hazardous materials at Climax are stored within approved spill containment structures.
19. Yes. AM-06 approved financial warranty is sufficient to cover complete reclamation cost.
20. Yes. Climax's basis for legal right to enter (as described in AM-06) is still valid.
21. Yes. Annual monitoring information is uploaded in question 21. A narrative statement is included as a cover page with results of groundwater and surface water monitoring in 2019.
22. Climax has prepared several maps depicting the permit boundary, current affected area boundary and locations of the acreages specified in items 7 – 12. The maps included in Appendix 2 attached to this report are as follows:
 - a. Map 1 – Depicts the permit boundary, current affected area boundary, the acreage currently affected, the acreage that was newly affected in the reporting year.
 - b. Map 2 – Depicts the total acreage that has been reclaimed, and the acreage where reclamation is in progress.
 - c. Map 3 – Depicts the acreage where reclamation is in progress that has been graded and/or covered with topsoil.
 - d. Map 4 – Depicts the acreage where reclamation is in progress that has been seeded, mulched, or fertilized.
23. Information included in this section: This narrative, 2019 annual TSF evaluation letter from AECOM, 2019 McNulty OSF Expansion As-Built Drawings, and Weed Control information and tables.
24. Climax has not drilled any exploration/prospecting holes that have produced artesian flow.

January 20, 2020

Ms. Diana Kelts
Environmental Manager
Climax Molybdenum Company- Climax Mine
Highway 91 – Fremont Pass
Climax, CO 80429

Subject: DRMS Annual (Year 2019) Tailings Storage Facility Evaluation, Tenmile and
Mayflower Tailings Storage Facilities, Climax Mine, Permit No. M-1977-493

Dear Ms. Kelts:

AECOM, through its legacy company URS Corporation, serves as the Engineer of Record (EOR) for the Tenmile and Mayflower Tailings Storage Facilities (TSF) at the Climax Mine, located near Fremont Pass Colorado. AECOM has prepared this summary of our Annual (2019) TSF Evaluation as required by Section 6 of the Mayflower TSF Operations and Maintenance Manual (OMM) and as stated in the response letter dated June 23, 2014 from Climax Molybdenum Company to the Division of Reclamation, Mining, and Safety (DRMS):

DRMS initially requested that the annual TSF inspection/evaluation/certification report be submitted to DRMS within 30 working days of the inspection. Climax has requested that the report be included with the standard annual report for the site. DRMS will allow the submittal of the TSF certification report with the other annual report if Climax will commit to notifying DRMS within 30 days of the inspection (or sooner if possible) of any issues identified in the inspection report that require corrective actions or modification to the existing approved TSF plans.

It is our understanding you will include this annual letter to DRMS in compliance with your other annual reporting. Presented below is a summary of key observations made during 2019.

A majority of the tailings deposition occurred at the Mayflower TSF in 2019. Deposition through the leadoffs or cutouts at Mayflower TSF occurred in January thru May and October thru December. Spigot deposition at Mayflower TSF occurred generally from May 31 thru October 21. Deposition occurred for a brief time in 2019 at the Tenmile TSF with a six-day leadoff deposition campaign in February and an eleven-day spigot deposition in July to fill in low spots. Otherwise, there was no spigot deposition or other leadoff or cutout deposition campaigns at Tenmile TSF in 2019.

AECOM completed monthly site inspections of the active TSF(s) from June to September 2019. A report was not completed in October 2019 due to an early winter limiting ability to complete the inspection. The reviews included meeting with operations personnel and reviewing production and operational logistics, operational plans, tailings management challenges, and future plans for operating the dams. Our site visits included reviewing tailings dam instrumentation, specifically reviewing piezometric elevations, inclinometer, InSAR, and GPS survey data, as available. We also completed a monthly walking tour of the dam observing the active and inactive tailings beach, dam crest, abutments, downstream slope, and toe area. We also conducted a review of the horizontal and foundation drain outfalls, as accessible and applicable.

Ms. Diana Kelts
Climax Molybdenum Company
January 20, 2020
Page 2

Monitoring of the Mayflower Seepwater pipeline leak, identified in September 2017, continued into April 2019 when Climax initiated efforts to discharge the seep from the North Cutout discharge channel, located approximately 100 ft upstream of the 5 Dam crest and is not located within the structural dam shell. This location will remain effect until late 2020 when a new discharge point will be established further upstream of the 5 Dam crest. At that time, Climax will remove/abandon portions of the seepwater pipeline that are no longer needed and that are located within approximately 1,000 ft upstream of the current dam crest. As stated with the initial notification Climax provided in 2017, the pipeline leak had no impacts on 5 Dam stability, either currently or in the foreseeable future.

No significant issues were identified in 2019 during the EOR site visits that required notification to the DRMS by Climax. Any maintenance issues during the EOR site visits were discussed with the Climax tailings operations staff and corrective action plans were developed and implemented.

The Tenmile and Mayflower TSFs appear to be functioning within the established design criteria. This judgment is based on observations made during site visits, as well as information provided and reported by Climax tailings operations staff such as deposition quantity, water surface elevations, and other parameters.

The remote monitoring system provides continuous monitoring of piezometric elevations. The system incorporates alarms based on piezometric elevation changes identified as either rate of change or threshold elevations. Rate of change alarms are triggered when predetermined elevation changes occur over a prescribed period of time. Action levels and threshold elevations are specific to individual piezometers. Threshold levels are established based on the results of slope stability analyses and provide redundant warnings should piezometric elevations rise above prescribed predetermined elevations. The monitoring system triggers alarms requiring immediate review.

AECOM reviews the piezometric data monthly on both the Tenmile and Mayflower TSFs. Piezometers levels are tracking in accordance with the design. AECOM reviewed the annual movement monument and inclinometer data and found movement within the tolerance expected.

Continued diligence in monitoring embankment construction, decant pond levels, and instrumentation is essential to long term safety and performance of the structure. Correct operation of the tailings storage facility is essential and it is incumbent upon Climax to maintain proper training and personnel. AECOM will continue to work with the Climax team to monitor the performance of the TSFs.

AECOM represents that our services are performed within the limits prescribed by the Client in a manner consistent with the level and skill ordinarily exercised by other consultants under similar circumstances. No representation to the Client, expressed or implied, and no other warranty or guarantee is included or intended.



Ms. Diana Kelts
Climax Molybdenum Company
January 20, 2020
Page 3

Please do not hesitate to call us with any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lisa Yenne'.

Lisa R. Yenne, PE
Project Manager

A handwritten signature in blue ink, appearing to read 'Richard Davidson'.

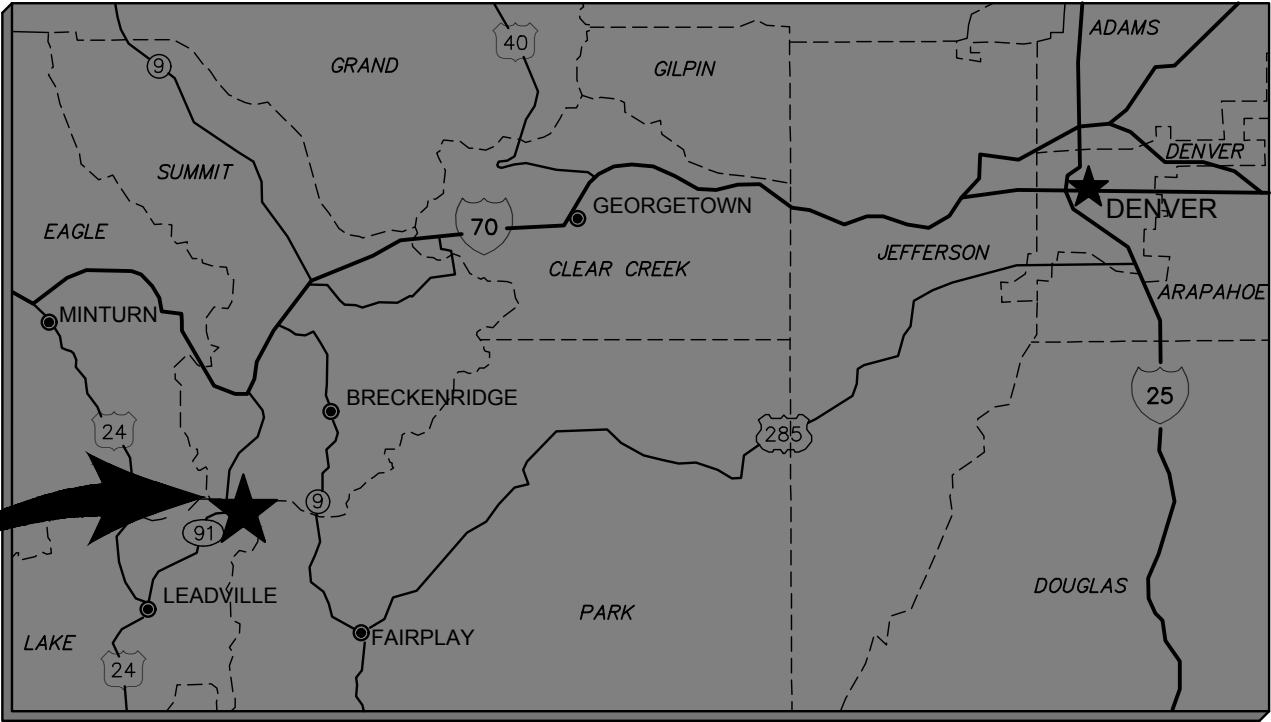
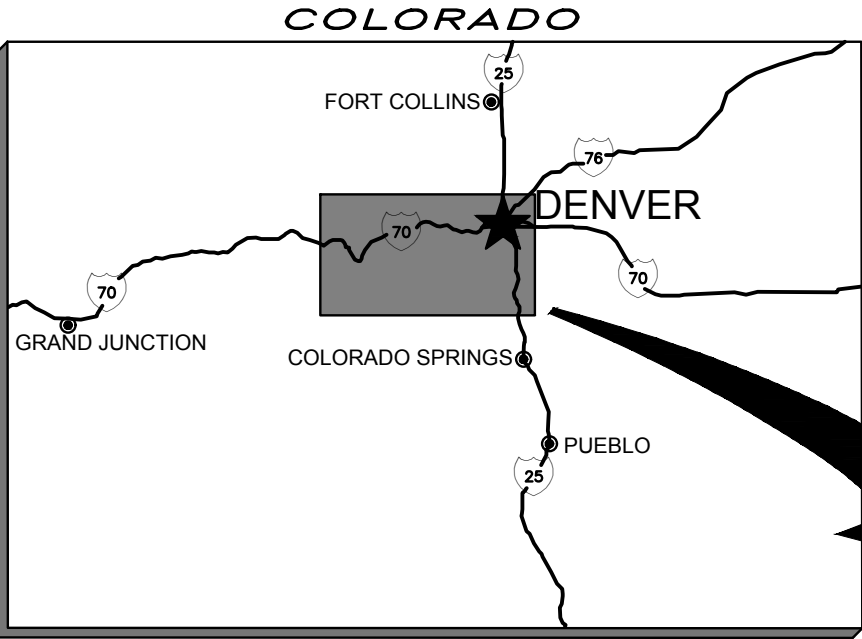
Richard R. Davidson, PE
Senior Principal Engineer

MCNULTY OSF EXPANSION 2019 AS-BUILT DRAWINGS

CLIMAX MINE, COLORADO

FEBRUARY 2020

REVISION - 1



CLIMAX MINE
Not to Scale

DRAWING INDEX	
DRAWING No.	DRAWING TITLE
GENERAL	
MCN-AB-01	COVER SHEET
MCN-AB-02	LEGEND AND GENERAL NOTES
MCN-AB-03	2019 AS-BUILT STRUCTURES
EARTHWORKS	
MCN-AB-04	FINAL TOPOGRAPHY
MCN-AB-05	REGRADE CROSS-SECTIONS
MCN-AB-06	CONCRETE BOX CULVERT BACKFILL CROSS-SECTIONS
MCN-AB-07	VALLEY DRAIN ALIGNMENT & CROSS-SECTIONS
MCN-AB-08	STORMWATER CONTROL BERM CROSS-SECTIONS
DRAINAGE SYSTEM	
MCN-AB-09	REACH C1 CWCS ALIGNMENT & PROFILE
MCN-AB-10	REACH C1 CWCS CROSS-SECTIONS
MCN-AB-11	REACH C2 CWCS ALIGNMENT & PROFILE
MCN-AB-12	REACH C2 CWCS CROSS-SECTIONS
MCN-AB-13	ENERGY DISSIPATION STRUCTURE NO. 1 PLAN VIEW



AutoCAD FILE: MCNAB-01.dwg

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2	ISSUED FOR CLIENT REVIEW	RLM	12/19



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CLIMAX MINE
MCNULTY OSF EXPANSION
COVER SHEET

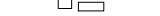
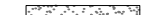
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1	12155	MCN-AB-01	1	1

NOTES

GENERAL NOTES:

1.
- THIS DRAWING SET IS BASED ON INFORMATION PROVIDED BY OTHERS. ALL LOCATIONS ARE BELIEVED TO BE ACCURATE.
2.
- AS-BUILT SURVEY DATA COLLECTED BY SEMA CONSTRUCTION BETWEEN 7/1/19 & 9/30/19.
3.
- AS-BUILT SURVEY DATA COLLECTED BY INTER-MOUNTAIN ENGINEERING ON 9/12/19, 9/16/19, 10/2/19.
4.
- 2016 AERIAL. BASE TOPOGRAPHY PROVIDED BY FMI-CLIMAX.

LEGEND

	PRE CONSTRUCTION TOPOGRAPHY
	PAVED ROAD
	UNPAVED ROAD
	TRAIL
	EXISTING EAST INTERCEPTOR
	EXISTING MCNULTY DITCH
	MCNULTY OSF ALT2 BOUNDARY
	CULVERT
	BUILDINGS/STRUCTURES
	EXISTING DUMP FOOTPRINT
	AS-BUILT TOPOGRAPHY BOUNDARY
	AS-BUILT TOPOGRAPHY
	EXISTING TOPOGRAPHY (2016)
	AS-BUILT FINAL TOPOGRAPHY
	AS-BUILT EXCAVATION SURFACE / BOTTOM OF GEOTEXTILE
	AS-BUILT TOP OF GEOTEXTILE
	AS-BUILT TERTIARY NCWCS
	AS-BUILT PIPE LOCATION
	AS-BUILT TOP OF SAND
	AS-BUILT TOP OF GRAVEL

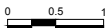


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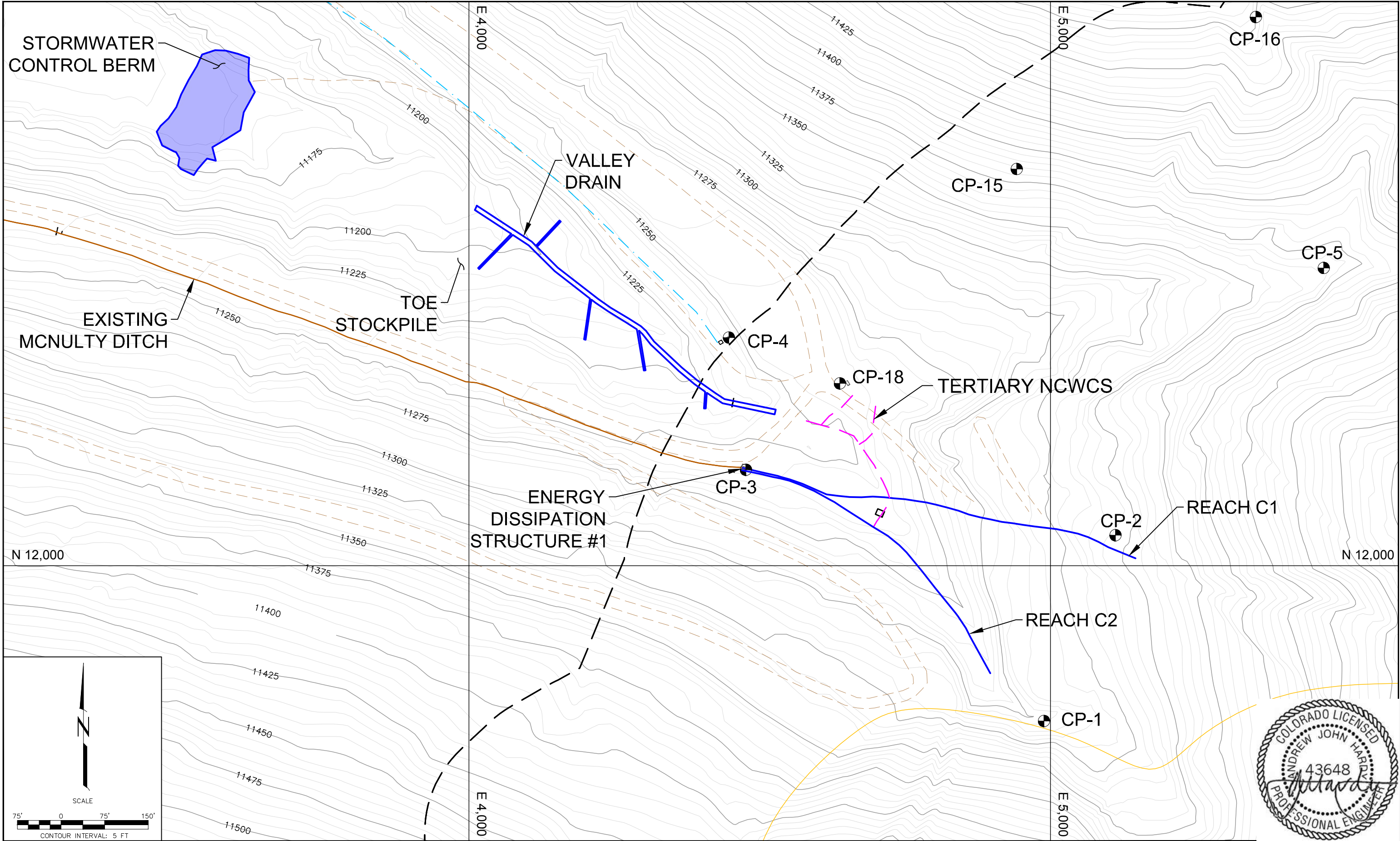
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CLIMAX MINE

MCNULTY OSF EXPANSION

LEGEND AND GENERAL NOTES

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DRAWING	MCN-AB-02
SHEET	1 OF 1



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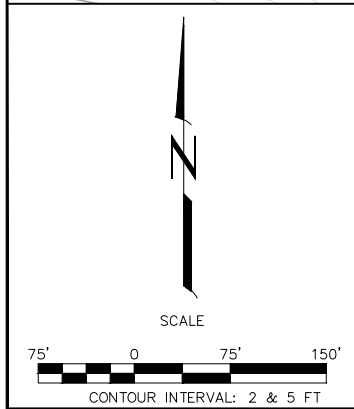
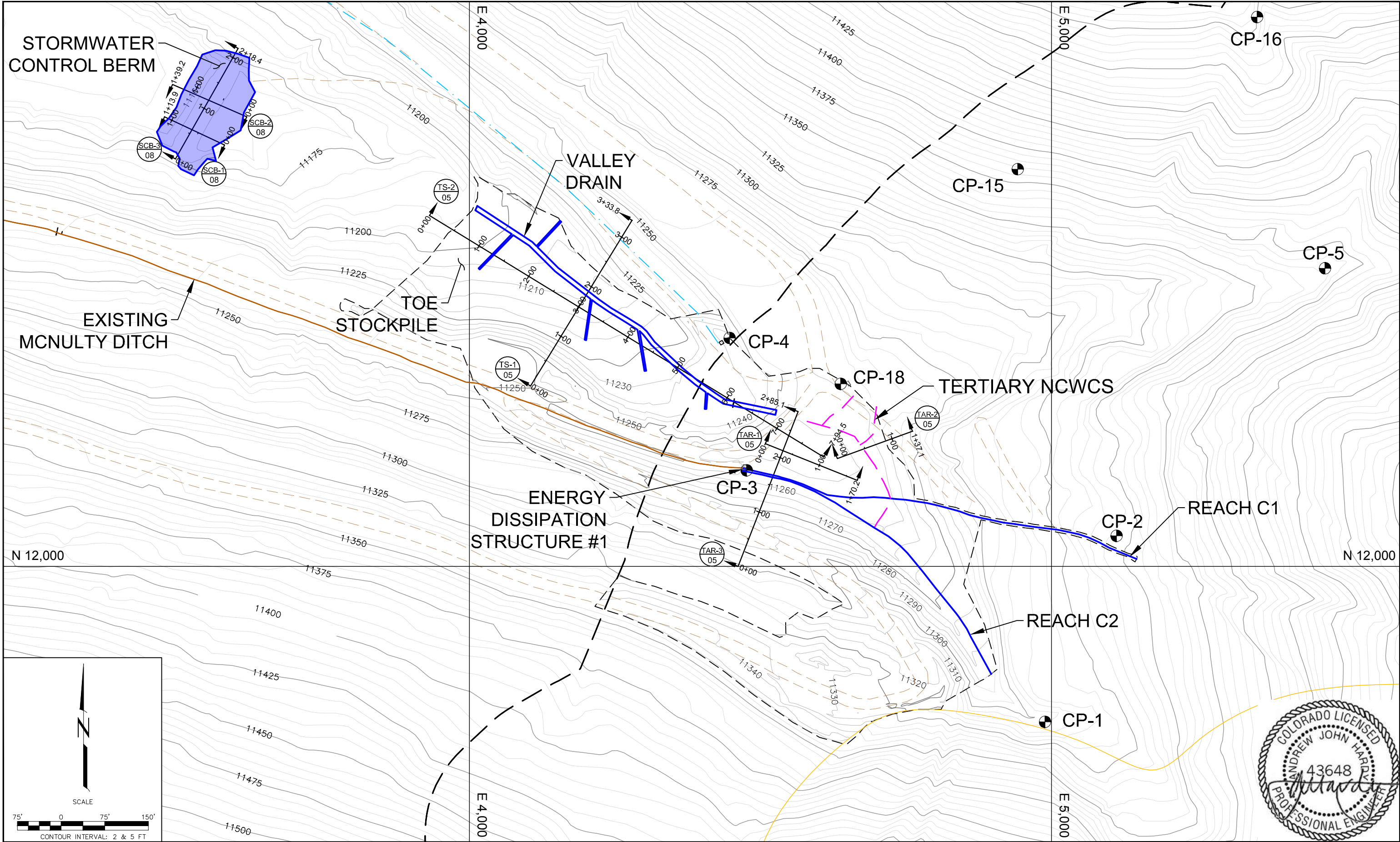


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CLIMAX MINE
MCNULTY OSF EXPANSION
2019 AS-BUILT STRUCTURES

REVISION	1
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DRAWING	MCN-AB-03
SHEET	1 OF 1



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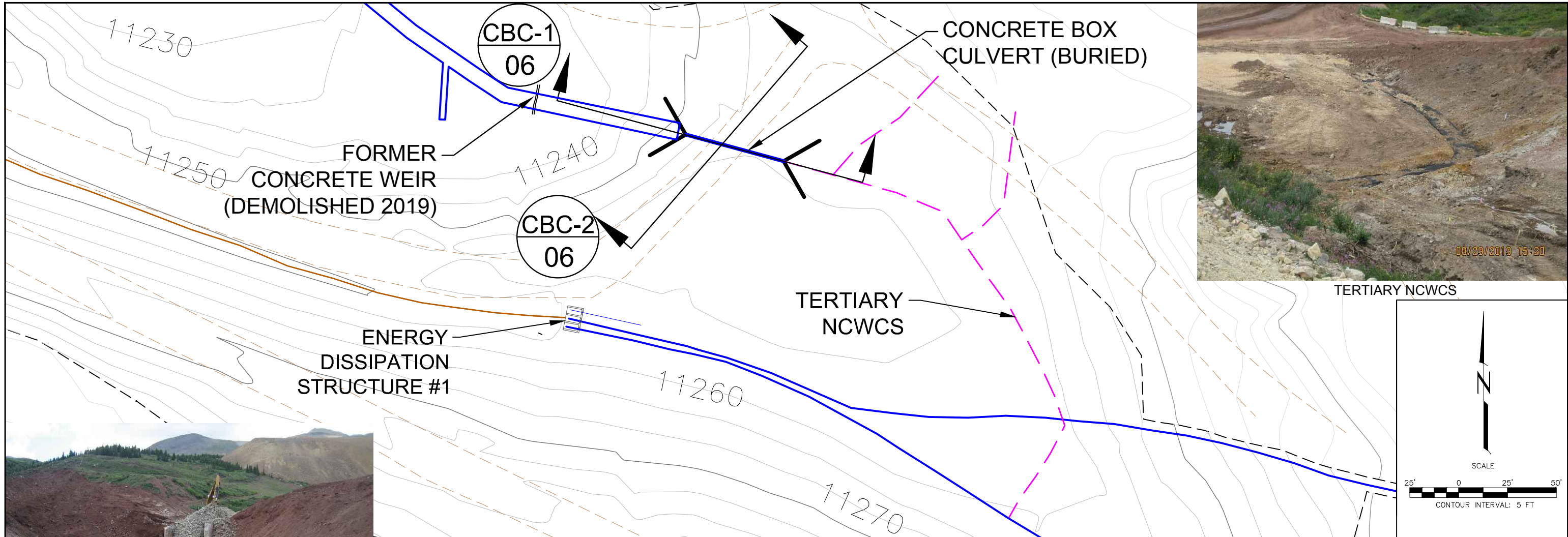


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CLIMAX MINE
MCNULTY OSF EXPANSION
FINAL TOPOGRAPHY

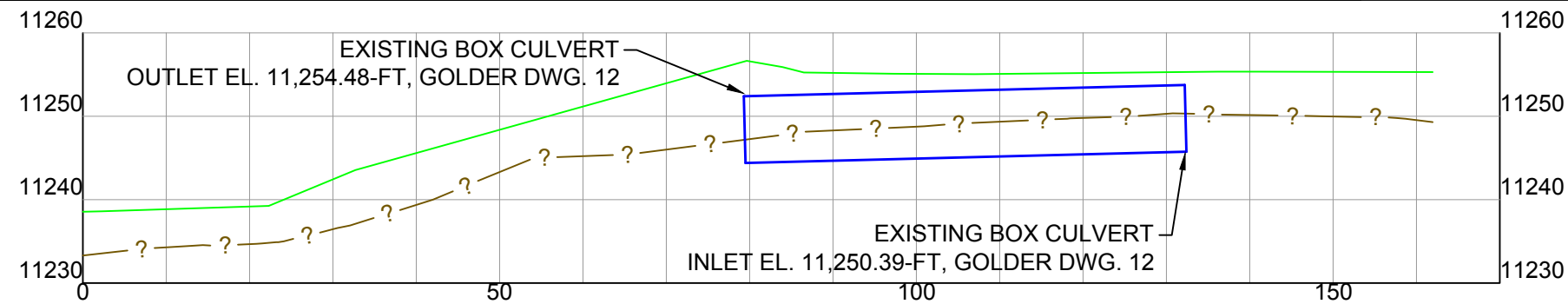
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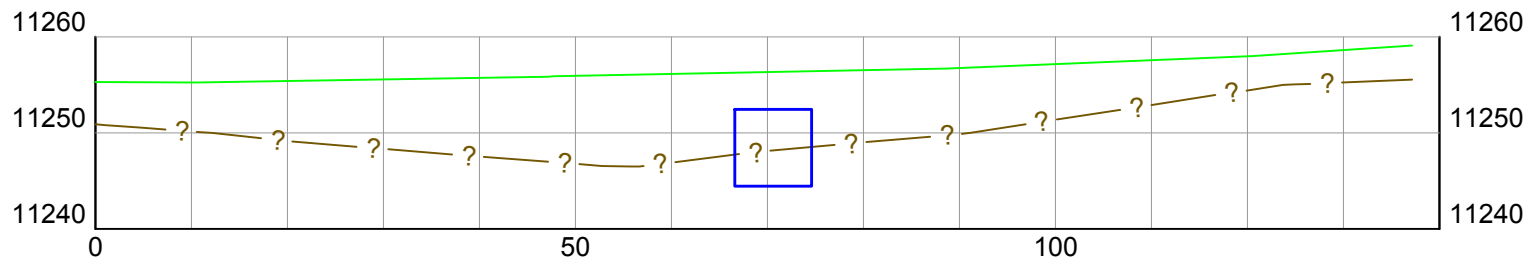
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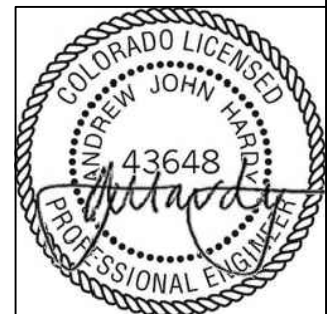
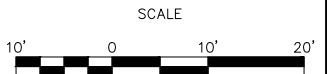
UPSTREAM VIEW



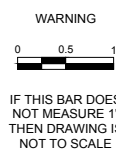
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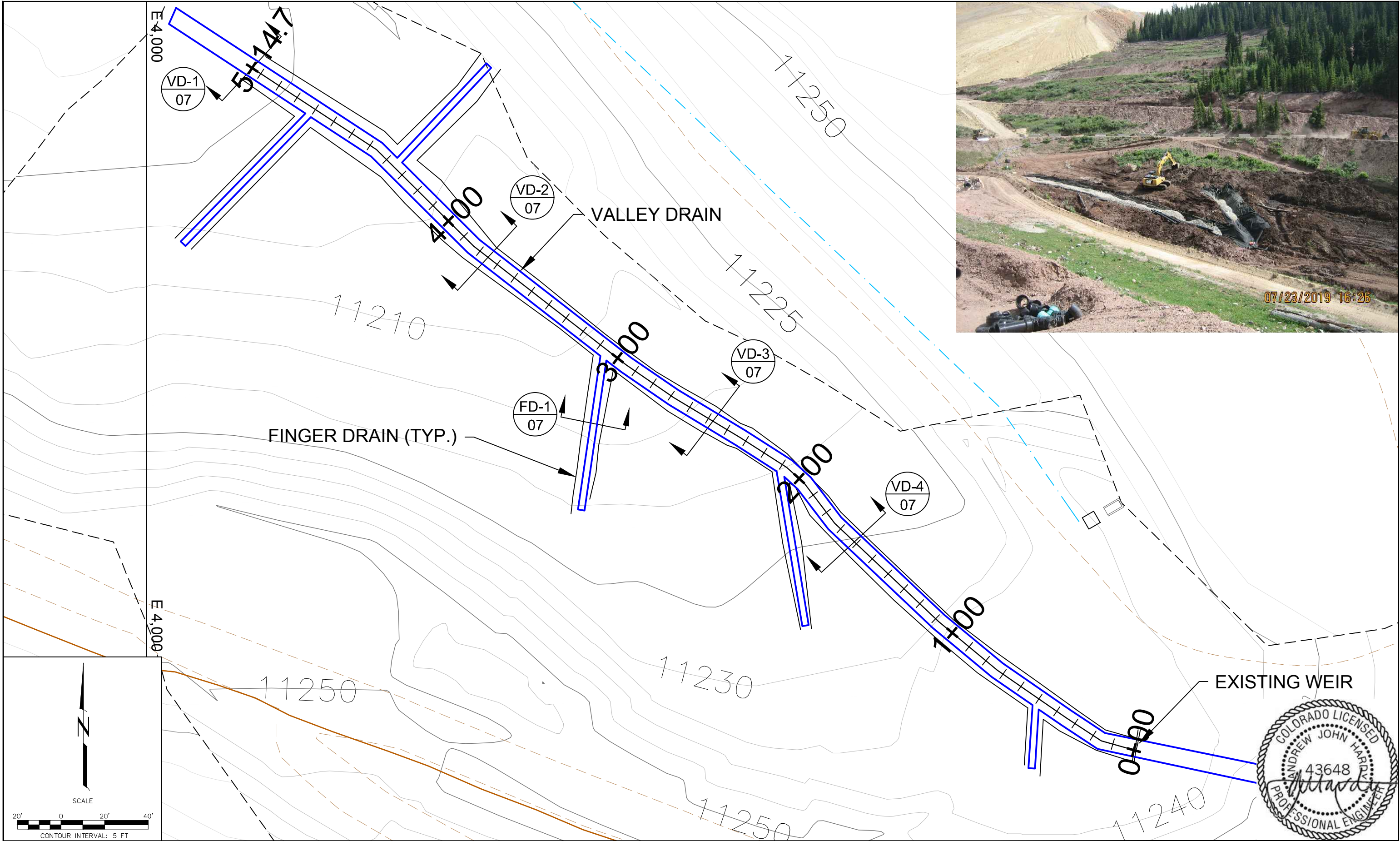
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CLIMAX MINE
MCNULTY OSF EXPANSION
CONCRETE BOX CULVERT BACKFILL
CROSS-SECTIONS

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SHEET	1 OF 1



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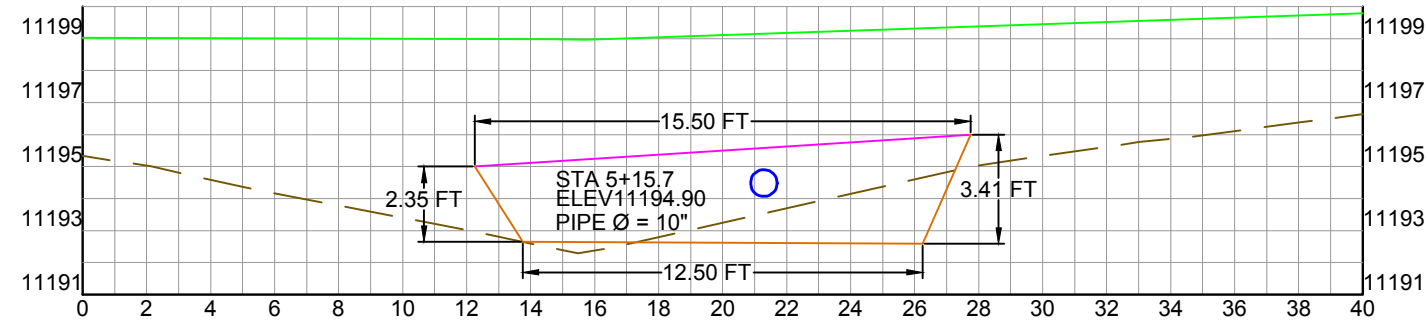
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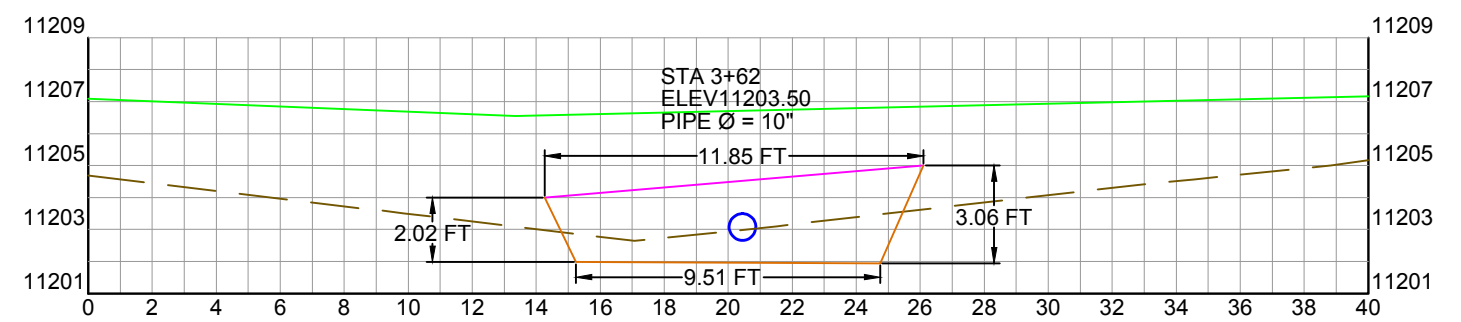
CLIMAX MINE
MCNULTY OSF EXPANSION
VALLEY DRAIN ALIGNMENT
& CROSS-SECTIONS



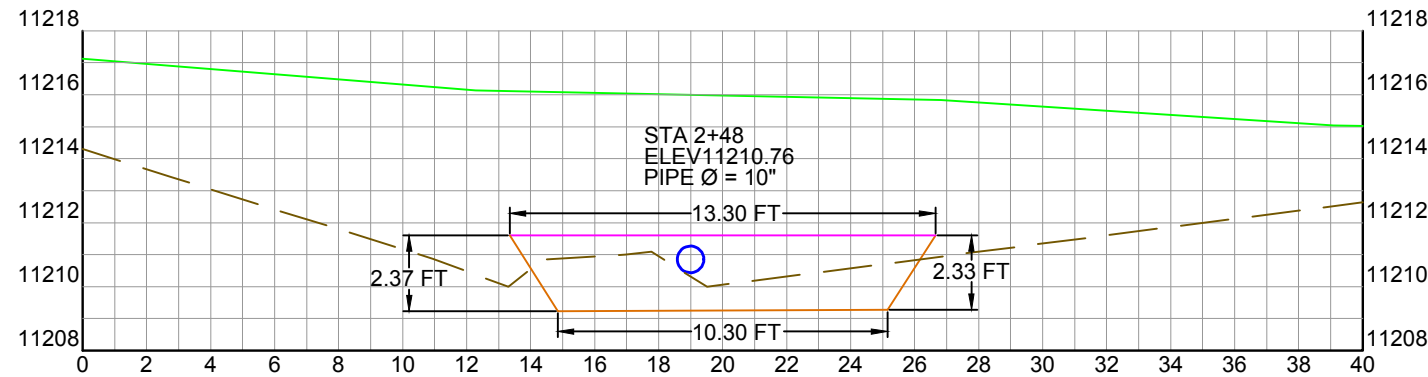
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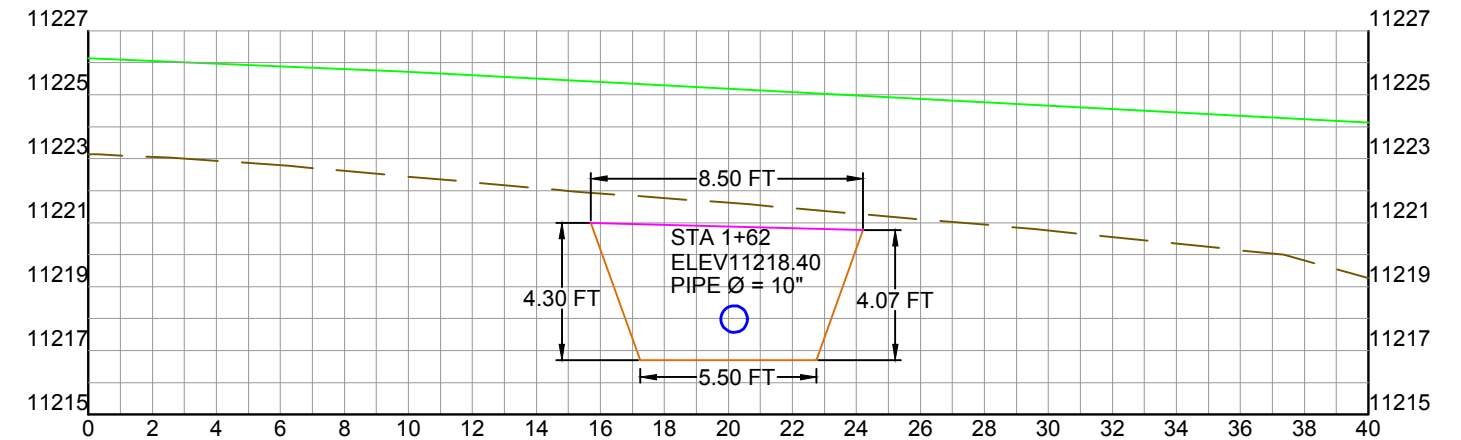
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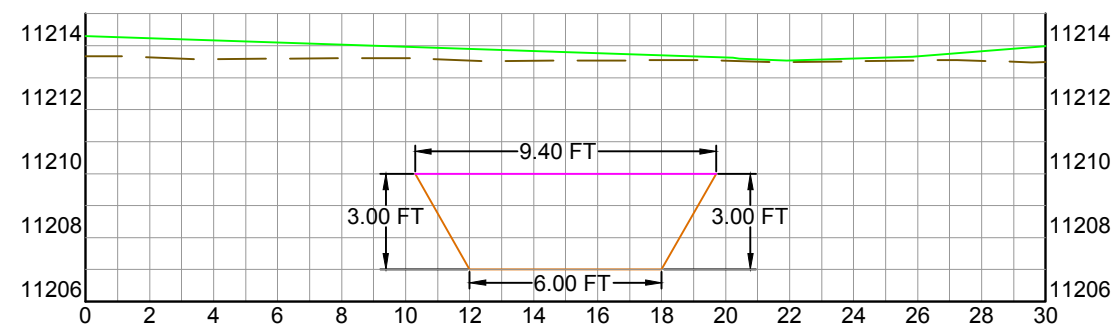
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SECTION VD-3



SECTION VD-4



SECTION FD-1



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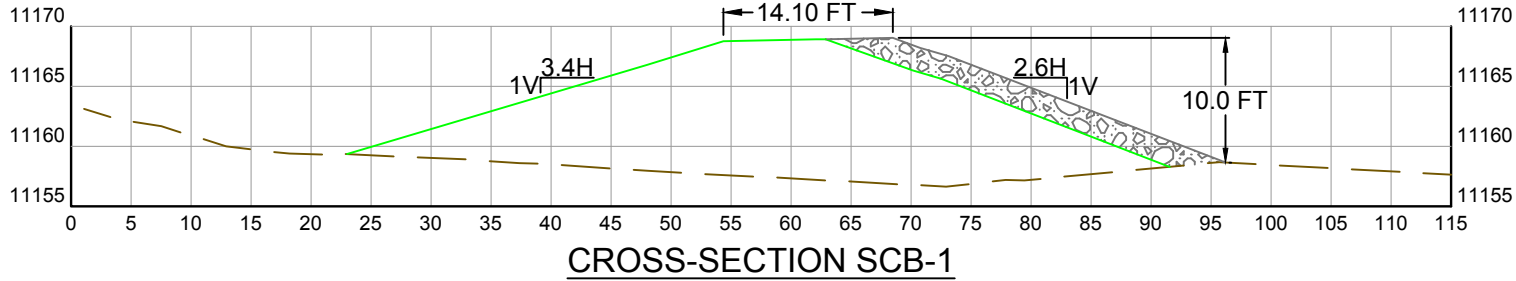
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CLIMAX MINE
VALLEY DRAIN ALIGNMENT
& CROSS-SECTIONS

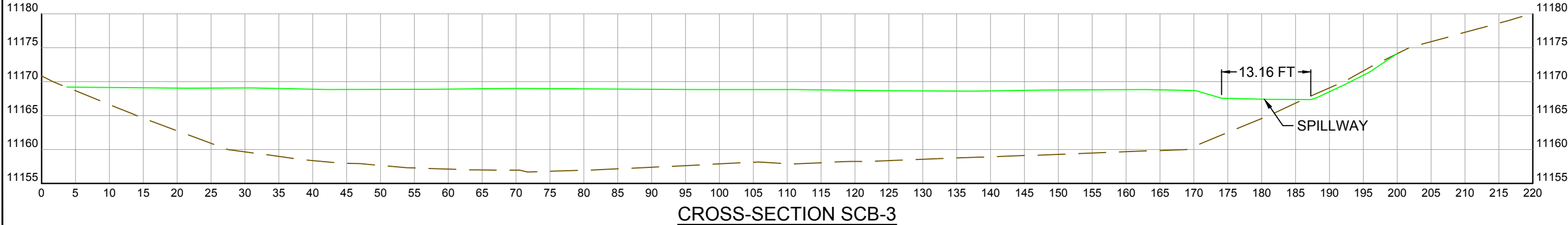
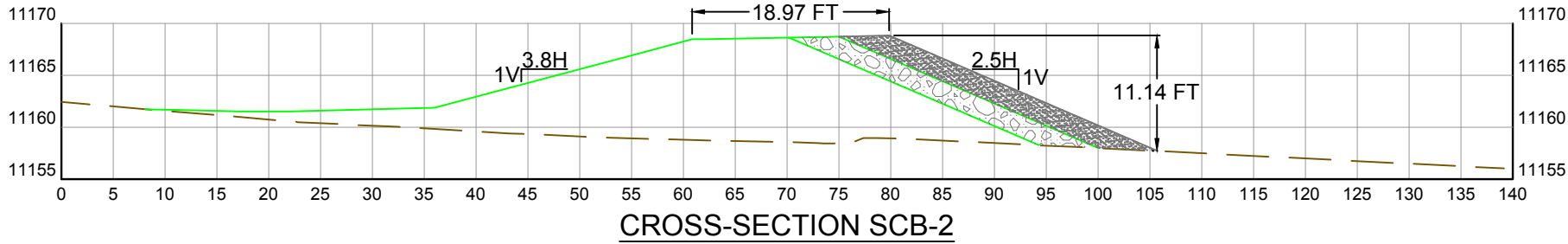
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SHEET	2 OF 2



UPSTREAM FACE



DOWNSTREAM FACE



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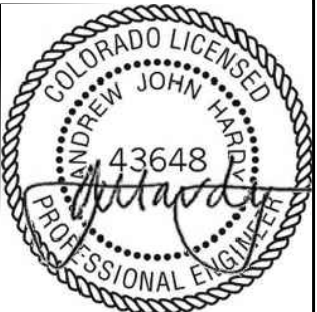
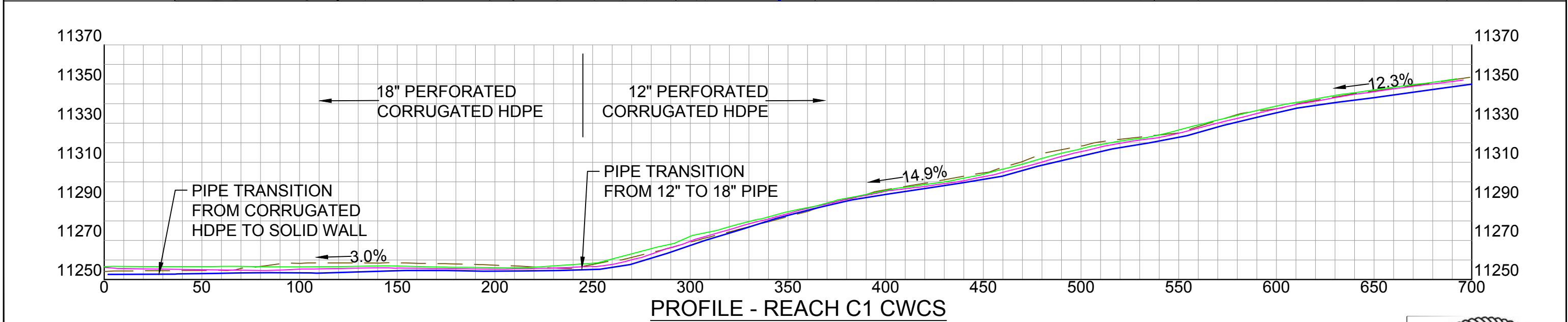
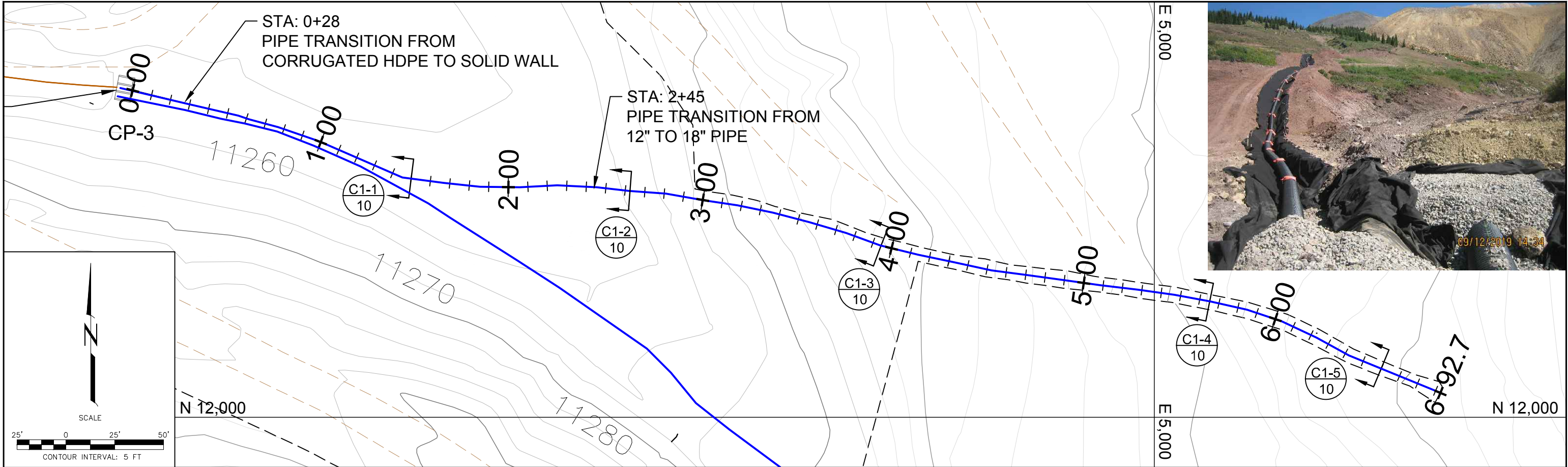


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CLIMAX MINE
MCNULTY OSF EXPANSION
STORMWATER CONTROL BERM
CROSS-SECTIONS

REVISION	1
PROJECT NO.	12155
DRAWING	MCN-AB-08
SHEET	1 OF 1



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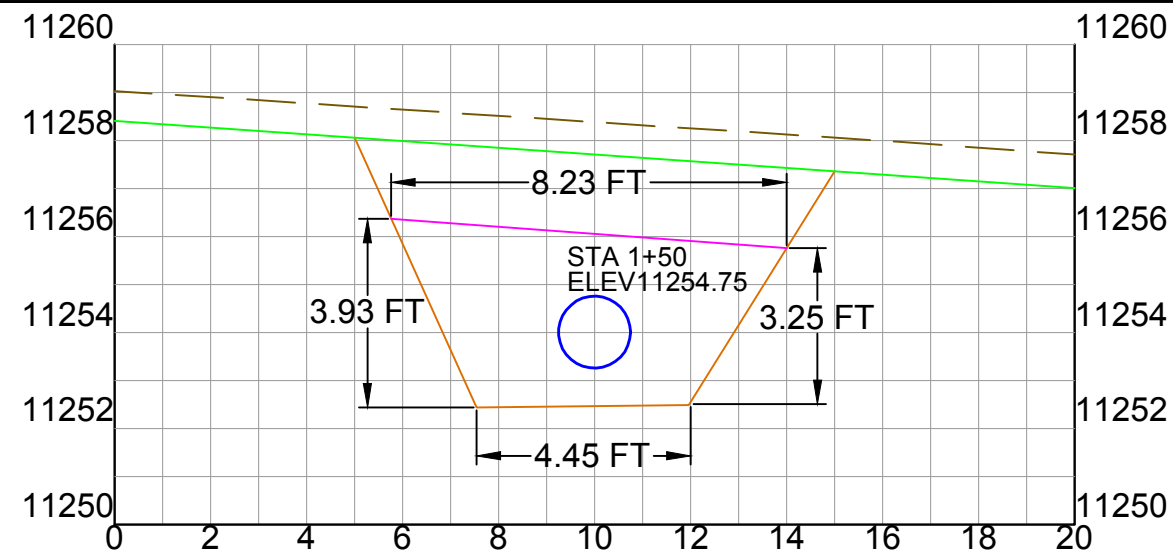


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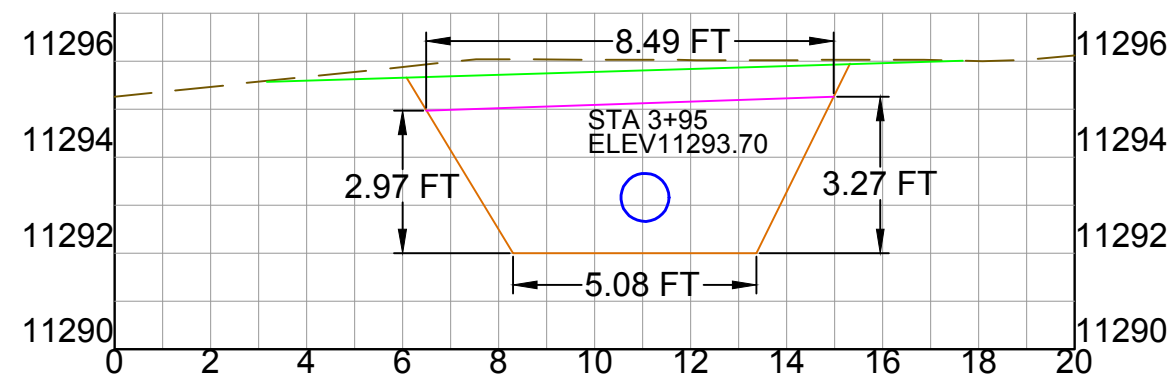
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DRAWN	RLM
CHECKED	AJH
REVIEWED	AJH
CLIENT	CMC
DATE	2/25/20

CLIMAX MINE
MCNULTY OSF EXPANSION
REACH C1 CWCS ALIGNMENT & PROFILE

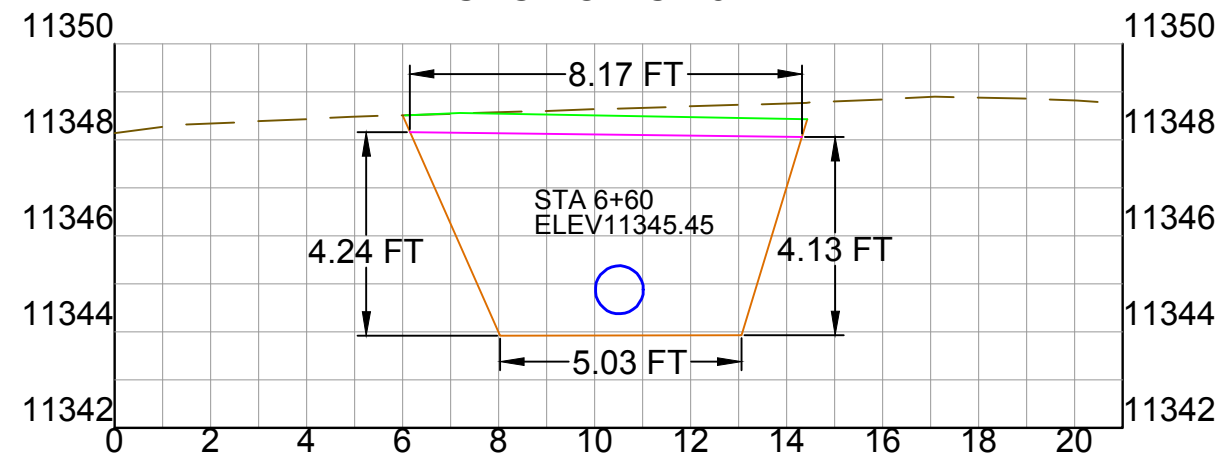
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PROJECT NO.	12155
DRAWING	MCN-AB-09
SHEET	1 OF 1



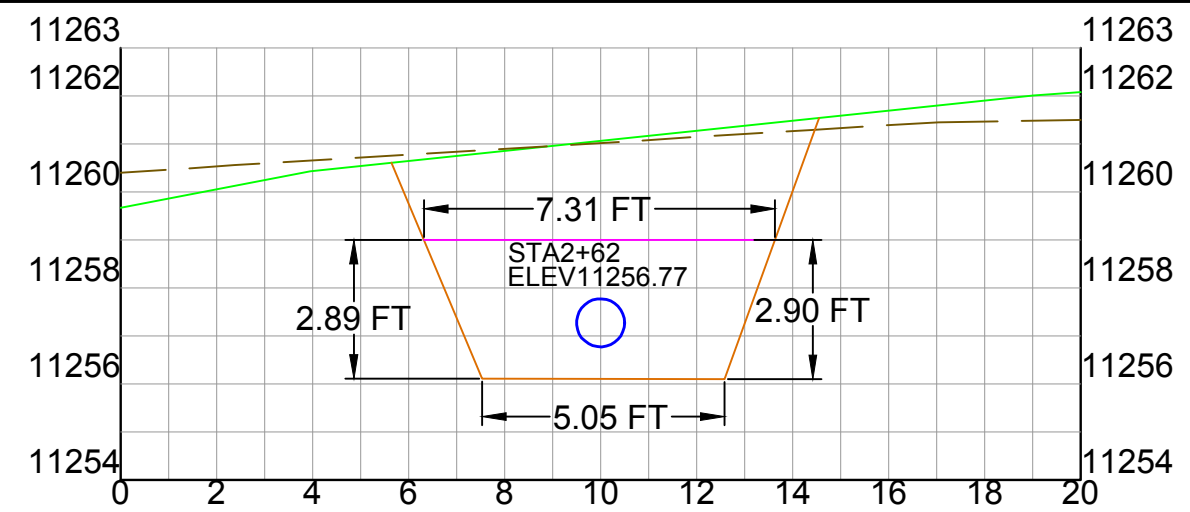
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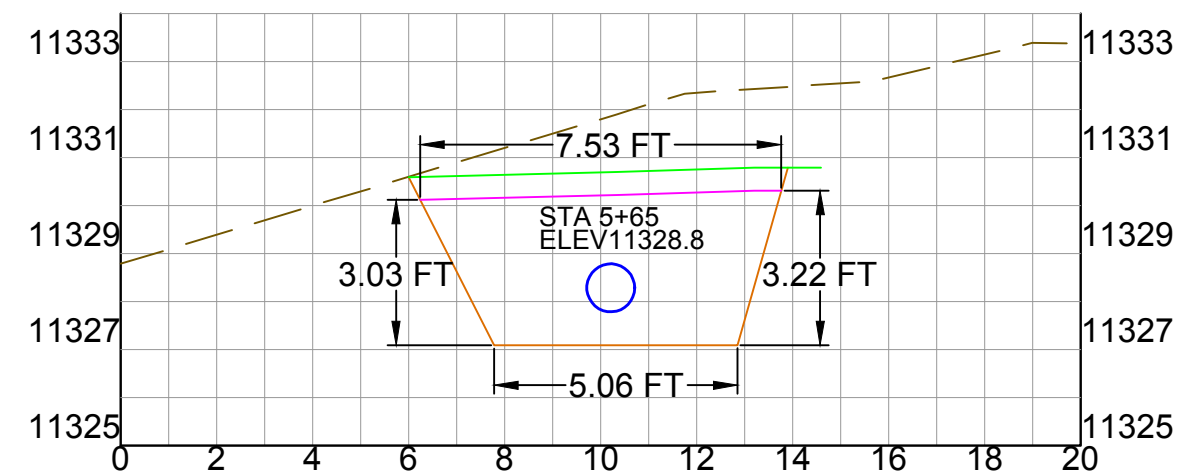
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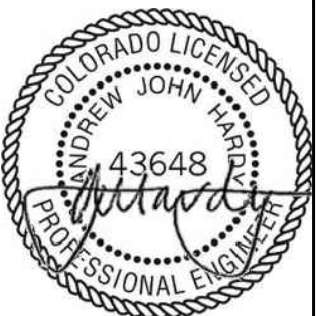
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SECTION C1-2

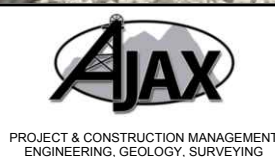


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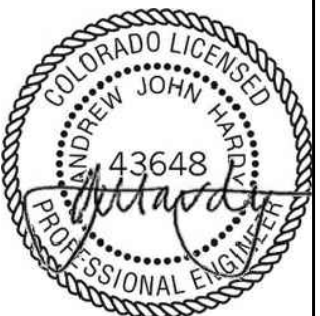
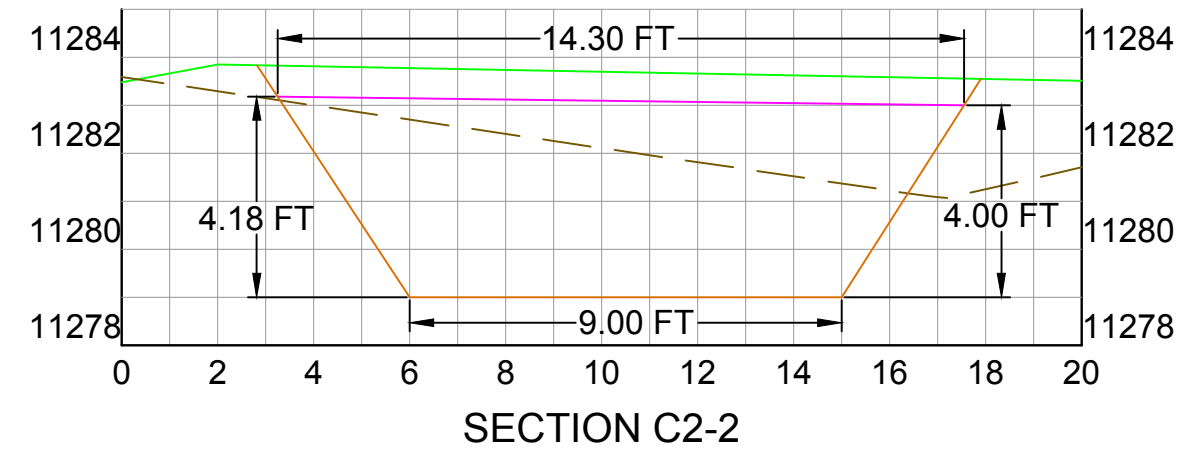
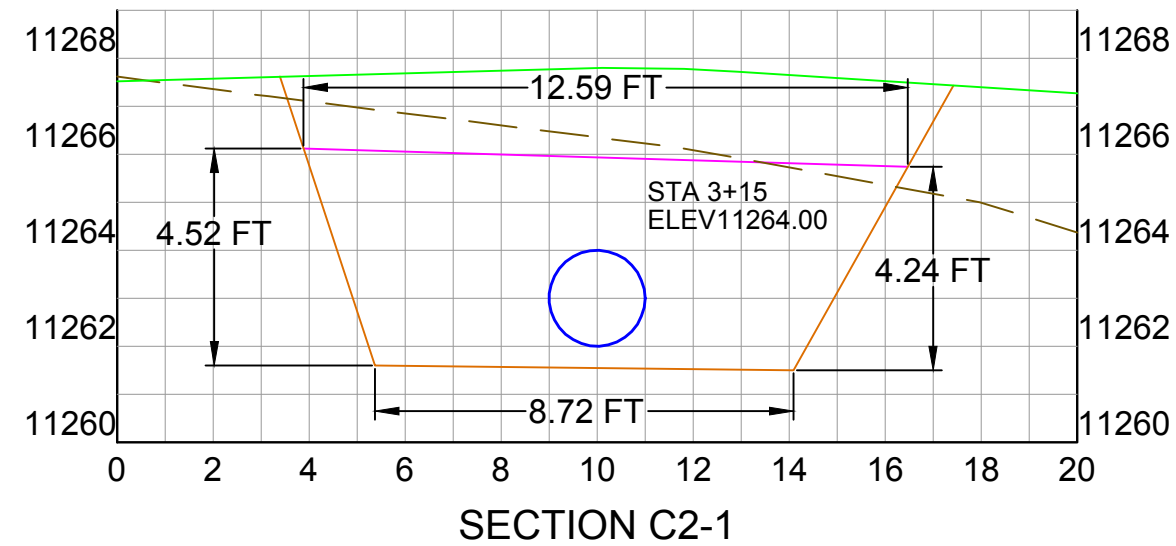
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REV	DESCRIPTION OF REVISION	BY	DATE
1	ISSUED FOR REGULATORY REVIEW	RLM	2/20
2	ISSUED FOR CLIENT REVIEW	RLM	12/19



DESIGNED	GAI
DRAWN	RLM
CHECKED	AJH
REVIEWED	AJH
CLIENT	CMC
DATE	2/25/20

CLIMAX MINE		REVISION
MCNULTY OSF EXPANSION		1
REACH C1 CWCS CROSS-SECTIONS		PROJECT NO. 12155
		DRAWING MCN-AB-10
		SHEET 1 OF 1



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△	ISSUED FOR CLIENT REVIEW	RLM	12/19
△	REV	BY	DATE

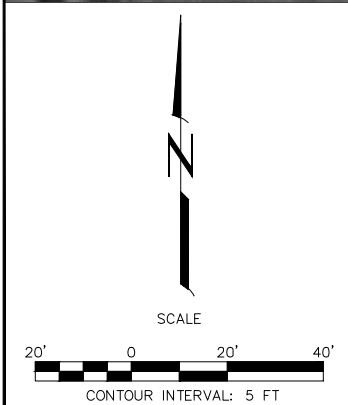
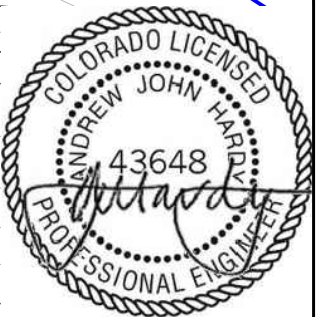
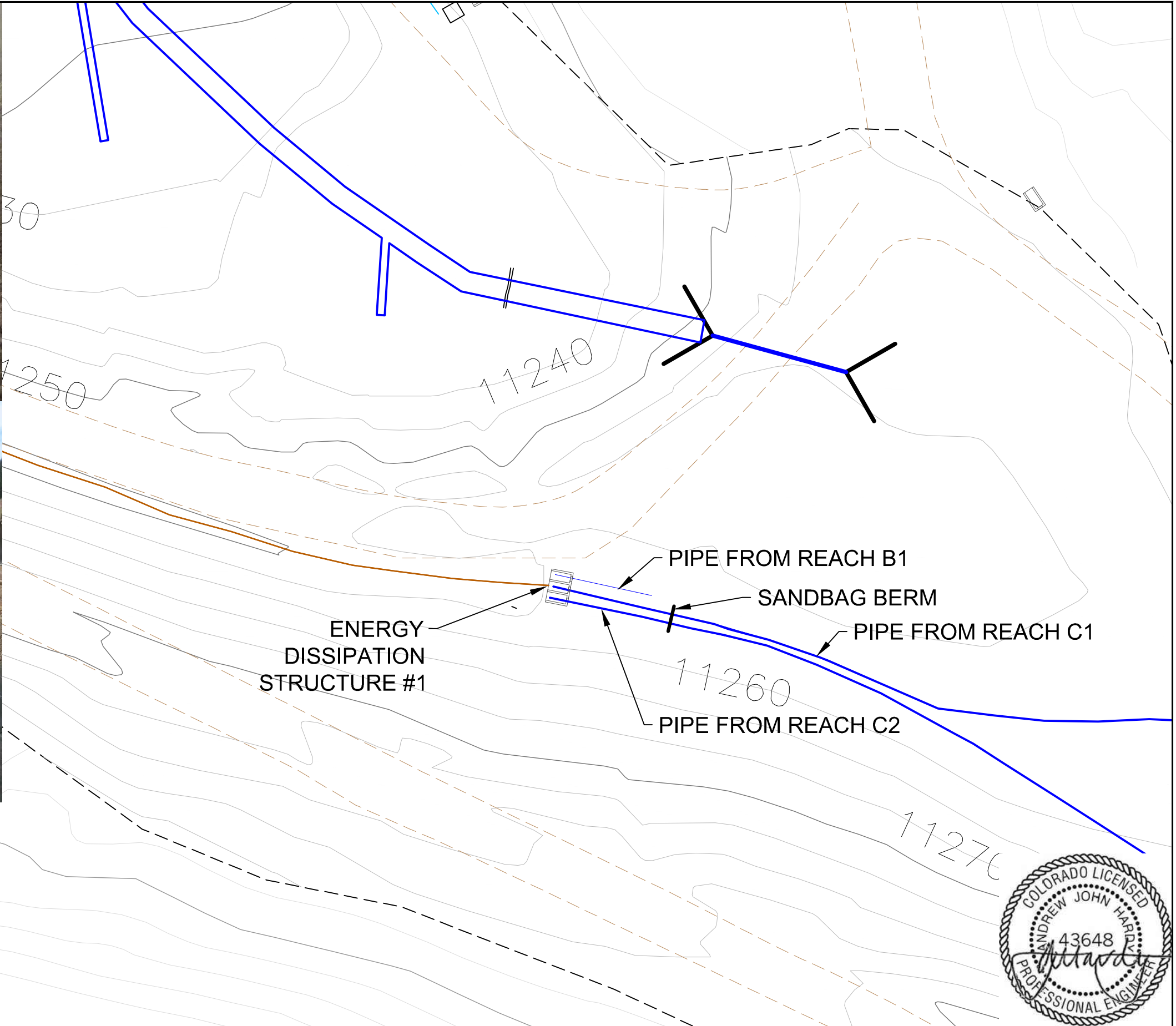


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REVIEWED	AJH
CLIENT	CMC
DATE	2/25/20

CLIMAX MINE
MCNULTY OSF EXPANSION
REACH C2 CWCS CROSS-SECTIONS

REVISION	1
PROJECT NO.	12155
DRAWING	MCN-AB-12
SHEET	1 OF 1



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△	ISSUED FOR REGULATORY REVIEW	RLM	2/20
△	ISSUED FOR CLIENT REVIEW	RLM	12/19
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REV	DESCRIPTION OF REVISION		



WARNING
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DRAWN	RLM
CHECKED	AJH
REVIEWED	AJH
CLIENT	CMC
DATE	2/25/20

CLIMAX MINE
MCNULTY OSF EXPANSION
ENERGY DISSIPATION STRUCTURE NO. 1
PLAN VIEW

REVISION	△
PROJECT NO.	12155
DRAWING	MCN-AB-13
SHEET	1 OF 1

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Lake County

1 Dam, Lake Irwin & Robinson Tailings Pond

Date: 7/26/2019 6:25 AM to 10:49 AM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Tanner Von Riesemann

Weather: Clear 38 degrees F. **Wind:** 1 mph out of W

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow- Linaria vulgaris - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray
(Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	16 fl oz per acre	4 fl oz	0.32 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	3 fl oz	0.24 fl oz per gallon
Telar XP - 352654 - Chlorsulfuron	1.5 Oz (weight) per acre	0.375 Oz (weight)	0.03 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	10 fl oz per acre	2.5 fl oz	0.20 fl oz per gallon

Total Application: 0.25 acre

Application Notes: Treated areas around Lake Irwin, North 1Dam, and Robinson Tailings Pond.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Eagle

Eagle Reservoir, Robinson Dam, 1 Dam

Date: 7/25/2019 6:44 AM to 2:07 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Tanner Von Riesenmann

Weather: Partly Cloudy 43 degrees F. **Wind:** 2 mph out of NW

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Oxeye daisy - Leucanthemum vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow-Linaria vulgaris - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray (Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	16 fl oz per acre	4 fl oz	0.32 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	3 fl oz	0.24 fl oz per gallon
Telar XP - 352654 - Chlorsulfuron	1.5 Oz (weight) per acre	0.375 Oz (weight)	0.03 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	10 fl oz per acre	2.5 fl oz	0.20 fl oz per gallon

Total Application: 0.25 acre

Application Notes: Treated below Eagle Reservoir, areas below Robinson Dam and Chalk Mountain Reservoir Dam.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Summit County

PDWTP, Lower/Upper Mayflower, East Interceptor

Date: 7/24/2019 6:36 AM to 2:21 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Tanner Von Riesemann

Weather: Clear 43 degrees F. **Wind:** 1 mph out of N

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Oxeye daisy - Leucanthemum vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow-
Linaria vulgaris - List B, Mayweed chamomile - Anthemis cotula - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray
(Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	16 fl oz per acre	4 fl oz	0.32 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	3 fl oz	0.24 fl oz per gallon
Telar XP - 352654 - Chlorsulfuron	1.5 Oz (weight) per acre	0.375 Oz (weight)	0.03 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	10 fl oz per acre	2.5 fl oz	0.20 fl oz per gallon

Total Application: 0.25 acre

Application Notes: Continued treatments around PTWTP facilities. Main Mine north entrance gate road side corridor and lower Mayflower and topsoil stockpile. Moved to upper Mayflower and treated East Interceptor corridor, Clinton Cutout, Sludge Plant.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Summit County

PDWTP

Date: 7/23/2019 10:22 AM to 3:46 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Tanner Von Riesemann

Weather: Sunny 64 degrees F. **Wind:** 2 mph out of NW

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Oxeye daisy - Leucanthemum vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow-Linaria vulgaris - List B, Mayweed chamomile - Anthemis cotula - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray (Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	16 fl oz per acre	4 fl oz	0.32 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	3 fl oz	0.24 fl oz per gallon
Telar XP - 352654 - Chlorsulfuron	1.5 Oz (weight) per acre	0.375 Oz (weight)	0.03 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	10 fl oz per acre	2.5 fl oz	0.20 fl oz per gallon

Total Application: 0.25 acre

Application Notes: Treated areas around PTWTP building facilities and road side corridors.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Summit County

Mayflower & PDWTP

Date: 8/22/2019 6:36 AM to 11:45 AM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Clear 34 degrees F. **Wind:** 1 mph out of NE

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Oxeye daisy - *Leucanthemum vulgare* - List B, Thistle, Canada - *Cirsium arvense* - List B, Toadflax, Dalmatian - *Linaria dalmatica/genistifolia* - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray (Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dilution Rate
Induce - Adjuvant	8 fl oz per acre	2 fl oz	0.16 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	3 fl oz	0.24 fl oz per gallon
Escort XP - 352439 - Metsulfuron Methyl	1 Oz (weight) per acre	0.25 Oz (weight)	0.02 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	11 fl oz per acre	2.75 fl oz	0.22 fl oz per gallon

Total Application: 0.25 acre

Application Notes: Treated known locations around lower Mayflower and PDWTP facilities.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Lake County

Arkansas River, Main Security Gate & Billy BLVD

Date: 8/19/2019 7:47 AM to 1:16 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Sunny 57 degrees F. **Wind:** 1 mph out of NE

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Oxeye daisy - Leucanthemum vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow-
Linaria vulgaris - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray
(Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	8 fl oz per acre	2 fl oz	0.16 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	3 fl oz	0.24 fl oz per gallon
Escort XP - 352439 - Metsulfuron Methyl	1 Oz (weight) per acre	0.25 Oz (weight)	0.02 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	11 fl oz per acre	2.75 fl oz	0.22 fl oz per gallon

Total Application: 0.25 acre

Application Notes: Treated reclaimed areas along Arkansas River. Treated areas around main mine gate and security office.
Treated Billy Blvd road corridor.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Lake County

PDC Substation

Date: 8/23/2019 12:32 PM to 1:29 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Partly Cloudy 54 degrees F. **Wind:** 2 mph out of NE

Site/Crop: Non-Crop Industrial

Target Plants: Other Species: See Application Notes

Application Equipment: Orange Kubota #3 **Equipment Rate:** 33 GPA - Orange Kubota #3 Broadcast Spray at 2 MPH **Application Method:** Broadcast Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
MSO - Adjuvant	56 fl oz per acre	42 fl oz	1.70 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	9 fl oz	0.36 fl oz per gallon
Ranger Pro - 524517 - Glyphosate	89 fl oz per acre	66.75 fl oz	2.70 fl oz per gallon
Viewpoint - 352847 - Imazapic	18 fl oz per acre	13.5 fl oz	0.55 fl oz per gallon

Total Application: 0.75 acre

Application Notes: Broadcast treated PDC Substation pad.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Summit, Eagle, & Lake

Substation Pads & Transformer Perimeters

Date: 8/23/2019 8:43 AM to 1:23 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Partly Cloudy 51 degrees F. **Wind:** 2 mph out of SE

Site/Crop: Electrical Station

Target Plants: Other Species: See Application Notes

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray
(Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
MSO - Adjuvant	56 fl oz per acre	56 fl oz	1.12 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	12 fl oz	0.24 fl oz per gallon
Ranger Pro - 524517 - Glyphosate	128 fl oz per acre	128 fl oz	2.56 fl oz per gallon
Viewpoint - 352847 - Imazapic	18 Oz (weight) per acre	18 Oz (weight)	0.36 Oz (weight) per gallon

Total Application: 1 acre

Application Notes: Treated Mayflower Substation, 115KV Substation, PDWTP Barge Substation, Warran Substation and the base of power pole, Arkansas Transformer perimeter, and the PDC Substation.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Eagle_

Robinson Dam Face

Date: 8/23/2019 6:24 AM to 7:50 AM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Partly Cloudy 42 degrees F. **Wind:** 1 mph out of NE

Site/Crop: Non-Crop Industrial

Target Plants: Woody Species Treatment

Application Equipment: Backpack Sprayer **Equipment Rate:** 30 GPA - Backpack Spot Spray **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	1 fl oz per gallon	3.5 fl oz	0.03 fl oz per gallon
Vastlan - 62719687 - Triclopyr	3.2 fl oz per gallon	11.2 fl oz	0.11 fl oz per gallon
Spray Indicator - Blue Dye	1 fl oz per gallon	3.5 fl oz	0.03 fl oz per gallon

Total Application: 3.5 gallon

Application Notes: Treated woody vegetation on the inner and outer Dam slopes.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Eagle_&_Lake

Robinson Dam, Eagle Reservoir, Chalk Mountain Reservoir, & Columbine Canal

Date: 8/21/2019 6:34 AM to 1:37 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Clear 42 degrees F. **Wind:** 1 mph out of E

Site/Crop: Disturbed Area, Right-of-way

Target Plants: Oxeye daisy - Leucanthemum vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow-
Linaria vulgaris - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray
(Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	8 fl oz per acre	4 fl oz	0.16 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	6 fl oz	0.24 fl oz per gallon
Escort XP - 352439 - Metsulfuron Methyl	1 Oz (weight) per acre	0.5 Oz (weight)	0.02 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	11 fl oz per acre	5.5 fl oz	0.22 fl oz per gallon

Total Application: 0.5 acre

Application Notes: Treated areas below the Robinson Dam, Eagle Reservoir, and Chalk Mountain Reservoir and along utility road corridors. Treated two locations along the Columbine Canal. Did not inspect canal all the way to property boundary.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No

Habitat Management, Inc.
Commercial Herbicide Applicator (CO #11318)
Herbicide Application Record



Location: Climax Mine **County:** Summit County

Billy BLVD, Robinson Tailings Pond, 1 Dam

Date: 8/20/2019 5:59 AM to 2:18 PM

Customer: Climax Mine and Mill Hwy 91 Leadville, CO 80461

Qualified Supervisor: Matt Clark #29724

Applicators: Matt Clark, Drew Gramer, Jake Wall

Weather: Clear 37 degrees F. **Wind:** 1 mph out of N

Site/Crop: Reclamation/Revegetation Area, Right-of-way

Target Plants: Oxeye daisy - Leucanthemum vulgare - List B, Thistle, Canada - Cirsium arvense - List B, Toadflax, Yellow-Linaria vulgaris - List B, Mayweed chamomile - Anthemis cotula - List B

Application Equipment: Orange Kubota #3 **Equipment Rate:** 50 GPA - Orange Kubota #2 Spot Spray (Handgun) **Application Method:** Spot-Spraying **Carrier:** Water

Herbicide Applied	Application Rate	Total Amount Applied	Dillution Rate
Induce - Adjuvant	8 fl oz per acre	4 fl oz	0.16 fl oz per gallon
Spray Indicator - Blue Dye	12 fl oz per acre	6 fl oz	0.24 fl oz per gallon
Escort XP - 352439 - Metsulfuron Methyl	1 Oz (weight) per acre	0.5 Oz (weight)	0.02 Oz (weight) per gallon
Transline - 62719-259 - Clopyralid	11 fl oz per acre	5.5 fl oz	0.22 fl oz per gallon

Total Application: 0.5 acre

Application Notes: Light frost settled on the ground this morning after we started spraying. Temperature warmed up quickly. Finished Billy Blvd, locations around Robinson Tailings Pond, above Lake Irwin wetland and upper north corner 1 Dam.

NPDES COMPLIANCE (Only Applicable to Aquatic Sites)

Aquatic site: No

Use Pattern: Weeds and Algae

Is equipment properly calibrated? Yes

Did you conduct visual monitoring for adverse incidents? Yes

Were any adverse incidents identified? No