



P. O. Box 1887 • 702 Gregg Drive • Buena Vista CO 81211

Phone: (719) 395-3790 Fax: (719) 395-3794

February 17, 2022

Colorado Division of Reclamation, Mining, and Safety  
Attn: Dustin Czapla  
1313 Sherman Street, Room 215  
Denver, CO 80203

**RE: R.B Pit, File No. M-2022-002, Objection to 112c Application Response**

Mr. Czapla:

On February 16, 2022, ACA Products, Inc. (Applicant) received an objection notice (*Exhibit I*) from the Division of Reclamation, Mining and Safety (Division) for the above referenced application on the behalf of Hayden Springs Ranch LLC. The objection notice contains a letter dated February 8, 2022, that in part states the following:

*"Presently ACA has no legal method to deliver the mined material from the subject property on any public road adjoining the Holman land, and therefore the referenced Application should be denied. The Application indicates at #10 the "Primary Mine Entrance Location" as Latitude (N) 38.53769 Longitude (W) -106.14258. This location is at the terminus of CR 140 (Chaffee County). As such, this location is in direct violation of Chaffee County Resolution 2017-58, Section 1. (j) which prohibits any "incidental use of CR 140 or CR 250 in connection with the operation" of the gravel pit. The Resolution was included in Exhibit M of the Application.*

*During the Land Use Change Application with Chaffee County, ACA was unable to demonstrate a safe and adequate access for the mining operation to the Holman property by use of CR 140 and CR 250. Consequently, ACA submitted the attached letter dated July 28, 2017, which stated the access to the proposed surface mine would proceed south across the Holman property to Colorado State Highway 50, thereby not requiring use of CR 140 and CR 250. As a result, Chaffee County imposed conditions upon ACA in granting the Change of Land Use at Section 1. (a) of the Resolution which required ACA to "apply for and receive a CDOT access permit to address the impacts to Colorado State Highway 50, and (ACA) shall provide opportunity for (Chaffee) County to provide feedback on the application permit". To date, ACA has no legal right to use Highway 50 for the gravel pit operation, nor has ACA provided Chaffee County an opportunity for feedback on ACA's proposed use of Highway 50 for a surface mining operation."*



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The R.B. Pit will be accessed from US 50 at Mile Point (MP) 212.62 Left (L). No access to mining operations will be from Chaffee County Road (CR) 140 or CR 250. As required by Chaffee County Resolution 2017-58, the Applicant has thus far properly obtained legal access to the proposed mine location on the subject property by obtaining the Colorado Division of Transportation (CDOT) Highway Access Permit No. 520022 (*Exhibit 2*). The latitude and longitude listed in section #10 of the above referenced application is intended to be the location on US 50 at MP 212.62 L.

As part of the CDOT Highway Access Permit No. 520022, there are terms and conditions that must be met to ensure safe access to the proposed mine site. Among these conditions are approved Design Plans, which are shown in *Exhibit 3*. Also, part of these terms and conditions require CDOT inspections during and upon completion of the access construction. Full approval of CDOT Highway Access Permit No. 520022 will not occur until construction is complete and approved in accordance with CDOT and the Design Plans. Upon successfully obtaining a permit from the Division, the Applicant plans to start construction on the US 50 highway access.

As demonstrated herein, the Applicant has thus far taken the steps to obtain legal right to access, and transport mined materials from the proposed mine location as approved by Chaffee County. Do not hesitate to contact Blake Bennetts, ACA Products, if any further information is needed or any other questions arise.

Sincerely,

Blake Bennetts, P.E.  
Sales and Development Manager  
ACA Products, Inc.  
702 Gregg Drive; PO Box 1887  
Buena Vista, CO 81211  
Cell: (719) 248-4138  
Email: [bbennetts@acaproducts.com](mailto:bbennetts@acaproducts.com)



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***Exhibit 1—Objection Letter***

February 16, 2022

Blake Bennetts  
ACA Products, Inc.  
702 Gregg Drive  
Buena Vista, CO 81211



1313 Sherman Street, Room 215  
Denver, CO 80203

***RE: R.B. Pit, File No. M-2022-002, Objection to 112c Application***

Mr. Bennetts:

On February 16, 2022 the Division of Reclamation, Mining and Safety (Division) received an objection (copy enclosed) to the above referenced application from Hayden Springs Ranch LLC.

Please inform the Division of how the Applicant will respond to the jurisdictional issues presented by Hayden Springs Ranch. Please submit your response by March 3, 2022.

If you require additional information, or have questions or concerns, please contact me.

Sincerely,

***Dustin Czapla***  
Environmental Protection Specialist  
Division of Reclamation, Mining and Safety  
Phone: (303) 866-3567, ext. 8188



## Permitting Action Comment OR Objection



**COLORADO**  
Division of Reclamation,  
Mining and Safety  
Department of Natural Resources

### CONTACT INFORMATION

#### Date of Comment or Objection

02/16/2022

**\*** *Indicates a Required Field*

#### Comment or Objection \*

- ☒ Objection
- ☐ Support
- ☐ General Comment
- ☐ Agency Comment

#### Contact Type \*

- ☒ Individual
- ☐ Group
- ☐ Agency
- ☐ Attorney

Please select the appropriate option above to identify who you represent.

#### Your First Name \*

Mark

#### Your Last Name \*

Anderson

#### Your Address \*

P.O. BOX 567

#### Your Address 2

#### Your City \*

Salida

#### Your State

CO

#### Your Zip Code \*

Maximum of 10 digits. (Example) 80202

81201

#### Email Address \*

Enter a valid email address in this field to receive a confirmation e-mail.

marka\_007@outlook.com

#### Your Phone Number \*

Used only to follow up.

7192391225

## Extension

### Alternate Phone Number

Used only to follow up.

### Alternate Phone Extension

### Connection to Operation \*

Select all that apply

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Land Owner of affected land | <input type="checkbox"/> Structure Owner within 200' of affected land |
| <input type="checkbox"/> Mineral Owner                          | <input checked="" type="checkbox"/> Nearby Resident                   |
| <input checked="" type="checkbox"/> Adjacent Land Owner         | <input checked="" type="checkbox"/> Concerned Citizen                 |
| <input type="checkbox"/> Government Agency                      | <input type="checkbox"/> Other <input type="text"/>                   |

## DESCRIPTION OF COMMENT OR OBJECTION

You are providing a comment or objection to the public record of a permitting action currently under review by the Division of Reclamation, Mining and Safety. This form is not intended for reporting of possible violations or illegal activity. Please be as specific as possible.

### Comment/Objection Narrative \*

See attached Objection Letter dated February 8, 2022, and received by the DRMS on February 14, 2022 at 1313 Sherman St., Room 215, Denver, CO. 8003.

### Permit Number \*

Enter valid letter and then numbers, for example M1977999, M1999777UG or C1981201.

M2022002

### Permitting Action Type

Select revision type or leave blank if comment pertains to a new permit application or NOI

### Permit Type

### County \*

Chaffee

Enter one county only

### Site Name

R.B. Pit

### Permittee/Operator Name

ACA Products, Inc.

## ADDITIONAL INFORMATION

### Are there supporting photos, maps, or documents you wish to upload? \*

☒ Yes ☐ No

### Upload Supporting Documents

Maximum of 5 files can be uploaded and each file size must be 10mb and under. PDF, JPG, and PNG formats only.

HSR DRMS Opposition Letter 3.pdf

135.07KB

By submitting this form electronically you agree to receive any/all follow up correspondence from the Division of Reclamation, Mining, and Safety at the email address you have provided.



# HAYDEN SPRINGS RANCH LLC

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13601 CR 140  
P.O. BOX 567  
Salida, Colorado 81201  
(719) 239-1225

February 8, 2022

RECEIVED  
FEB 14 2022  
DIVISION OF RECLAMATION  
MINING AND SAFETY

Division of Reclamation, Mining and Safety  
1313 Sherman St.  
Room 215  
Denver, Colorado 80203

Re: ACA Products, Inc.  
Construction Materials Regular (112) Operation Permit Application  
For R.B.Pit, dated December 29, 2021

Dear Division of Reclamation, Mining and Safety,

Please consider these comments as reasons to deny the referenced Application.

Hayden Springs Ranch borders the Holman property upon which the proposed surface mining has been applied for by ACA. Exhibit O of the Application indicates our Ranch property is affected by the mining operations. We hereby object to the granting of the Application for the reasons stated below.

Presently ACA has no legal method to deliver the mined material from the subject property on any public road adjoining the Holman land, and therefore the referenced Application should be denied. The Application indicates at #10 the "Primary Mine Entrance Location" as Latitude (N) 38.53769 Longitude (W) -106.14258. This location is at the terminus of CR 140 (Chaffee County). As such, this location is in direct violation of Chaffee County Resolution 2017-58, Section 1. (j) which **prohibits** any "incidental use of CR 140 or CR 250 in connection with the operation" of the gravel pit. The Resolution was included in Exhibit M of the Application.

During the Land Use Change Application with Chaffee County, ACA was unable to demonstrate a safe and adequate access for the mining operation to the Holman property by use of CR 140 and CR 250. Consequently, ACA submitted the attached letter dated July 28, 2017, which stated the access to the proposed surface mine would proceed south across the Holman property to Colorado State Highway 50, thereby not requiring use of CR 140 and CR 250. As a result, Chaffee County imposed conditions upon ACA in granting the Change of Land Use at Section 1. (a) of the Resolution which required ACA to "apply for and receive a CDOT access permit to address the impacts to Colorado State Highway 50, and (ACA) shall provide opportunity for (Chaffee) County to provide feedback on the application permit". To date, ACA has no legal right to use Highway 50 for the gravel pit operation, nor has ACA provided Chaffee County an opportunity for feedback on ACA's proposed use of Highway 50 for a surface mining operation.

The Applicant has deliberately misled the DRMS by including in Exhibit M, only page 1 of CDOT Form #101 completed by Frank Holman and ACA. Exhibit M falsely implies that ACA/Holman presently have the legal right to use Colorado State Highway 50 as access for the proposed gravel pit operation. Nothing could be further from the truth.

CDOT Form #101, provides under Additional Information, "See attached pages 2-3 of Form 101, and all other attachments, enclosures, and exhibits for additional terms and conditions". Upon contacting the CDOT Access Manager assigned to Access Permit (Randee Reider, 970-385-3626), the CDOT Access Permit file is forty-six (46) pages and contains the "additional terms and conditions" for Holman/ACA to be granted permission to operate the gravel pit by accessing Colorado State Highway 50. Among those "conditions" are the submission of "Design Plans" which need to be approved by CDOT well in advance of construction. To date, save and except for completing CDOT Form #101 in June 2020, and requesting an extension of time to comply with the "Additional Terms and Conditions", neither ACA nor Holman have submitted any documents to CDOT to receive approval to use Colorado State Highway 50 for access to operate the proposed gravel pit. Consequently, at this time ACA does not have the legal right to use Colorado State Highway 50 as access to the R.B. Pit.

Because ACA lacks the legal right to use the only public roads available to transport the mined materials from the Holman property, the referenced Permit Application should be denied.

Please feel free to contact us with any questions or concerns regarding this matter.

Sincerely,

HAYDEN SPRINGS RANCH LLC

BY: 

Mark Anderson  
Manager



**P.O. Box 1887, 702 Gregg Drive, Buena Vista, CO 81211**  
**Ph: (719) 395-3790 Fax: (719) 395-3794**

**July 28, 2017**

**Jon Roorda  
Chaffee County Planning Manager  
P.O. Box 699,  
104 Crestone Avenue  
Salida, Colorado 81201**

**RE: Holman Pit**

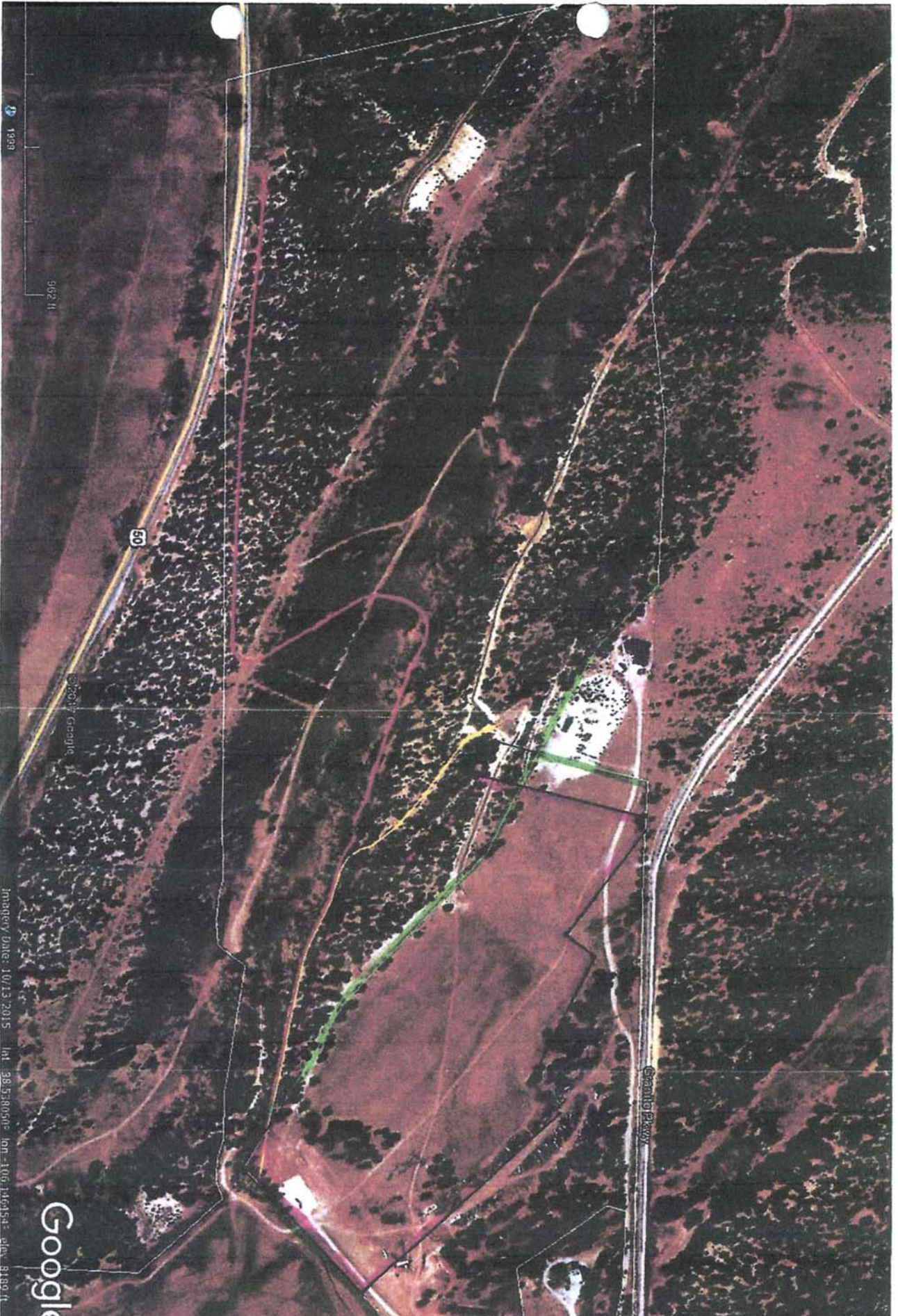
**ACA Products will not be changing any of the operational characteristics of the original application. All previously submitted information that met the Chaffee County Land Use Code and was voted on by the Chaffee County Commissioners at the June 21, 2016 meeting remains the same. We are submitting an alternate route that will be across private property and will require only a CDOT Highway Access Permit.**

**ACA Products, Inc. has developed a safe access to the Holman Pit across private property per the outstanding item from the previous Commissioners meetings. Attached is a narrative describing the road's impact on groundwater, aquifer recharge, environmental conditions, erosion, sediment control, drainage and grading. Also attached is the signed agreement from the landowners.**

**Respectfully,**

A handwritten signature in black ink, reading 'Shiela A. Moore'. The signature is written in a cursive, flowing style.

**Shiela A. Moore  
Controller**



1999

502 ft

50

©2015 Google

Grading

Imagery Date: 10/13/2015 lat: 38.538050° lon: -106.146154° elev: 8189 ft

Google



"ASPHALT, CONCRETE, & AGGREGATES"

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*Exhibit 2— Colorado Division of Transportation Highway Access Permit*



**COLORADO**  
**Department of Transportation**  
Region 5

Traffic & Safety  
3803 N. Main Avenue, Suite 100  
Durango, CO 81301

October 13, 2021

ACA Products, Inc.  
Blake Bennetts  
PO Box 1887  
Buena Vista, CO 81211

Re: Extension of Access Permit No. **520022**, **US 50**, **MP 212.62 L** in Chaffee County

Dear Mr. Bennetts:

We received on October 7, 2021 your request for a one-year extension of time to construct the above-referenced access permit.

Pursuant to the 1998 State Highway Access Code, Section 2.11(d), please consider this letter as authorization for a one-year extension for Access Permit No. **520022** per the request. This authorization will expire on June 2, 2022. If you do not proceed with construction prior to the above expiration date, the permit will become null and void.

The above-referenced permit includes the following requirements:

The access shall be constructed in accordance with a set of approved design plans, which must be furnished to CDOT well in advance of construction. When the final design plans, including, but not limited to material specifications, Certifications of Compliance, and a construction schedule, are accepted and approved, a pre-construction conference must be scheduled with this office well in advance of construction. After the pre-construction meeting issues have been resolved, CDOT will issue a **Notice To Proceed** that will allow construction to begin.

This authorization is hereby considered an attachment to the permit referenced above. **All terms and conditions of Permit No. 520022 remain valid.** Please have this authorization letter and your copies of the issued permit available for review at the construction site by CDOT personnel.

If you have any questions, please call me at (970) 385-3626.

Sincerely,

Randee Reider  
Region 5 Access Manager  
Cc: Access File  
Chaffee County  
Maintenance



<b>COLORADO DEPARTMENT OF TRANSPORTATION</b> <b>STATE HIGHWAY ACCESS PERMIT</b>			CDOT Permit No. <b>520022</b>
			State Highway No / Mp / Side 050A / 212.62 / Left
Permit Fee \$300.00	Date of Transmittal	Region / Section / Patrol / Name 5 / 07 / 17	Local Jurisdiction Chaffee County

<b>The Permittee(s):</b>  Frank Holman 14110 CR 140 Salida, Colorado 81201 (719) 539-9138	<b>The Applicant(s):</b>  Blake Bennetts ACA Products, Inc. PO Box 1887 Buena Vista, Colorado 81211 (719) 395-3790
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is hereby granted permission to have an access to the state highway at the location noted below. The access shall be constructed, maintained and used in accordance with this permit, including the State Highway Access Code and any attachments, terms, conditions and exhibits. This permit may be revoked by the Issuing Authority if at any time the permitted access and its use violate any parts of this permit. The issuing authority, the Department and their duly appointed agents and employees shall be held harmless against any action for personal injury or property damage sustained by reason of the exercise of the permit.

Location: Access to be located on the North side of State Highway 050, a distance of approximately 3274 feet East from Milepost 212.

<b>Access to Provide Service to:</b> (Land Use Code) <b>991 - Gravel Pit</b>	(Size) <b>191.98</b>	(Units) <b>Acres</b>
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**Additional Information:**

\* See attached pages 2-3 of Form 101, and all other attachments, enclosures, and exhibits for additional terms and conditions. \*

<b>MUNICIPALITY OR COUNTY APPROVAL</b> Required only when the appropriate local authority retains issuing authority.			
Signature N/A	Print Name	Date	Title

Upon the signing of this permit the permittee agrees to the terms and conditions and referenced attachments contained herein. All construction shall be completed in an expeditious and safe manner and shall be finished within 45 days from Initiation. The permitted access shall be completed in accordance with the terms and conditions of the permit prior to being used.

**The permittee shall contact Shay Hatch with the Colorado Department of Transportation, at (970) 385-8362 to schedule a pre-construction inspection at least 5 days prior to desired construction start date.**

The person signing as the permittee must be the owner or legal representative of the property served by the permitted access and have full authority to accept the permit and its terms and conditions.

DocuSigned by: <b>Permittee Signature</b> <i>Frank Holman</i>	Print Name Frank Holman	Date 6/1/2020   5:35 PM MDT
DocuSigned by: <b>Applicant Signature</b> <i>Blake Bennetts</i>	Print Name Blake Bennetts	Date 5/27/2020   9:59 AM PDT

This permit is not valid until signed by a duly authorized representative of the Department.

<b>COLORADO DEPARTMENT OF TRANSPORTATION</b>			
DocuSigned by: Signature <i>Julie Constan</i>	Print Name Julie Constan	Title	Date (of issue) 6/4/2020   1:56 PM MDT

**Copy Distribution:****Required:**

- 1.Region
- 2.Applicant

- 3.Staff Access Section
- 4.Central Files

**Make copies as necessary for:**

- |                 |                  |
|-----------------|------------------|
| Local Authority | Inspector        |
| MTCE Patrol     | Traffic Engineer |

**Previous editions are obsolete and may not be used**

## State Highway Access Permit Form 101, Page 2

The following paragraphs are excerpts of the State Highway Access Code. These are provided for your convenience but do not alleviate compliance with all sections of the Access Code. A copy of the State Highway Access Code is available from your local issuing authority (local government) or the Colorado Department of Transportation (Department). When this permit was issued, the issuing authority made its decision based in part on information submitted by the applicant, on the access category which is assigned to the highway, what alternative access to other public roads and streets is available, and safety and design standards. Changes in use or design not approved by the permit or the issuing authority may cause the revocation or suspension of the permit.

### APPEALS

1. Should the permittee or applicant object to the denial of a permit application by the Department or object to any of the terms or conditions of a permit placed there by the Department, the applicant and permittee (appellant) have a right to appeal the decision to the [Transportation] Commission [of Colorado]. To appeal a decision, submit a request for administrative hearing to the Transportation Commission of Colorado within 60 days of transmittal of notice of denial or transmittal of the permit for signature. Submit the request to the Transportation Commission of Colorado, 4201 East Arkansas Avenue, Denver, Colorado 80222-3400. The request shall include reasons for the appeal and may include changes, revisions, or conditions that would be acceptable to the permittee or applicant.

2. Any appeal by the applicant or permittee of action by a local issuing authority shall be filed with the local authority and be consistent with the appeal procedures of the local authority.

3. In submitting the request for administrative hearing, the appellant has the option of including within the appeal a request for a review by the Department's internal administrative review committee pursuant to [Code] subsection 2.10. When such committee review is requested, processing of the appeal for formal administrative hearing, 2.9(5) and (6), shall be suspended until the appellant notifies the Commission to proceed with the administrative hearing, or the appellant submits a request to the Commission or the administrative law judge to withdraw the appeal. The two administrative processes, the internal administrative review committee, and the administrative hearing, may not run concurrently.

4. Regardless of any communications, meetings, administrative reviews or negotiations with the Department or the internal administrative review Committee regarding revisions or objections to the permit or a denial, if the permittee or applicant wishes to appeal the Department's decision to the Commission for a hearing, the appeal must be brought to the Commission within 60 days of transmittal of notice of denial or transmittal of the permit.

### PERMIT EXPIRATION

1. A permit shall be considered expired if the access is not under construction within one year of the permit issue

date or before the expiration of any authorized extension. When the permittee is unable to commence construction within one year after the permit issue date, the permittee may request a one year extension from the issuing authority. No more than two one-year extensions may be granted under any circumstances. If the access is not under construction within three years from date of issue the permit will be considered expired. Any request for an extension must be in writing and submitted to the issuing authority before the permit expires. The request should state the reasons why the extension is necessary, when construction is anticipated, and include a copy of page 1 (face of permit) of the access permit. Extension approvals shall be in writing. The local issuing authority shall obtain the concurrence of the Department prior to the approval of an extension, and shall notify the Department of all denied extensions within ten days. Any person wishing to reestablish an access permit that has expired may begin again with the application procedures. An approved Notice to Proceed, automatically renews the access permit for the period of the Notice to Proceed.

### CONSTRUCTION

1. Construction may not begin until a Notice to Proceed is approved. (Code subsection 2.4)

2. The construction of the access and its appurtenances as required by the terms and conditions of the permit shall be completed at the expense of the permittee except as provided in subsection 2.14. All materials used in the construction of the access within the highway right-of-way or on permanent easements, become public property. Any materials removed from the highway right-of-way will be disposed of only as directed by the Department. All fencing, guard rail, traffic control devices and other equipment and materials removed in the course of access construction shall be given to the Department unless otherwise instructed by the permit or the Department inspector.

3. The permittee shall notify the individual or the office specified on the permit or Notice to Proceed at least two working days prior to any construction within state highway right-of-way. Construction of the access shall not proceed until both the access permit and the Notice to Proceed are issued. The access shall be completed in an expeditious and safe manner and shall be finished within 45 days from initiation of construction within the highway right-of-way. A construction time extension not to exceed 30 working days may be requested from the individual or office specified on the permit.

4. The issuing authority and the Department may inspect the access during construction and upon completion of the access to ensure that all terms and conditions of the permit are met. Inspectors are authorized to enforce the conditions of the permit during construction and to halt any activities within state right-of-way that do not comply with the provisions of the permit, that conflict with concurrent highway construction or maintenance work, that endanger highway property, natural or cultural resources protected by law, or the health and safety of workers or the public.

5. Prior to using the access, the permittee is required to complete the construction according to the terms and conditions of the permit. Failure by the permittee to abide

by all permit terms and conditions shall be sufficient cause for the Department or issuing authority to initiate action to suspend or revoke the permit and close the access. If in the determination of the Department or issuing authority the failure to comply with or complete the construction requirements of the permit create a highway safety hazard, such shall be sufficient cause for the summary suspension of the permit. If the permittee wishes to use the access prior to completion, arrangements must be approved by the issuing authority and Department and included in the permit. The Department or issuing authority may order a halt to any unauthorized use of the access pursuant to statutory and regulatory powers. Reconstruction or improvement of the access may be required when the permittee has failed to meet required specifications of design or materials. If any construction element fails within two years due to improper construction or material specifications, the permittee shall be responsible for all repairs. Failure to make such repairs may result in suspension of the permit and closure of the access.

6. The permittee shall provide construction traffic control devices at all times during access construction, in conformance with the M.U.T.C.D. as required by section 42-4-104, C.R.S., as amended.

7. A utility permit shall be obtained for any utility work within highway right-of-way. Where necessary to remove, relocate, or repair a traffic control device or public or private utilities for the construction of a permitted access, the relocation, removal or repair shall be accomplished by the permittee without cost to the Department or issuing authority, and at the direction of the Department or utility company. Any damage to the state highway or other public right-of-way beyond that which is allowed in the permit shall be repaired immediately. The permittee is responsible for the repair of any utility damaged in the course of access construction, reconstruction or repair.

8. In the event it becomes necessary to remove any right-of-way fence, the posts on either side of the access shall be securely braced with an approved end post before the fence is cut to prevent any slacking of the remaining fence. All posts and wire removed are Department property and shall be turned over to a representative of the Department.

9. The permittee shall ensure that a copy of the permit is available for review at the construction site at all times. The permit may require the contractor to notify the individual or office specified on the permit at any specified phases in construction to allow the field inspector to inspect various aspects of construction such as concrete forms, subbase, base course compaction, and materials specifications. Minor changes and additions may be ordered by the Department or local authority field inspector to meet unanticipated site conditions.

10. Each access shall be constructed in a manner that shall not cause water to enter onto the roadway or shoulder, and shall not interfere with the existing drainage system on the right-of-way or any adopted municipal system and drainage plan..

11. By accepting the permit, permittee agrees to save, indemnify, and hold harmless to the extent allowed by law,

the issuing authority, the Department, its officers, and employees from suits, actions, claims of any type or character brought because of injuries or damage sustained by any person resulting from the permittee's use of the access permit during the construction of the access.

#### CHANGES IN ACCESS USE AND PERMIT VIOLATIONS

1. It is the responsibility of the property owner and permittee to ensure that the use of the access to the property is not in violation of the Code, permit terms and conditions or the Act. The terms and conditions of any permit are binding upon all assigns, successors-in-interest, heirs and occupants. If any significant changes are made or will be made in the use of the property which will affect access operation, traffic volume and or vehicle type, the permittee or property owner shall contact the local issuing authority or the Department to determine if a new access permit and modifications to the access are required.

2. When an access is constructed or used in violation of the Code, section 43-2-147(5)(c), C.R.S., of the Act applies. The Department or issuing authority may summarily suspend an access permit and immediately order closure of the access when its continued use presents an immediate threat to public health, welfare or safety. Summary suspension shall comply with article 4 of title 24, C.R.S.

#### MAINTENANCE

1. The permittee, his or her heirs, successors-in-interest, assigns, and occupants of the property serviced by the access shall be responsible for meeting the terms and conditions of the permit, the repair and maintenance of the access beyond the edge of the roadway including any cattle guard and gate, and the removal or clearance of snow or ice upon the access even though deposited on the access in the course of Department snow removal operations. Within unincorporated areas the Department will keep access culverts clean as part of maintenance of the highway drainage system. However, the permittee is responsible for the repair and replacement of any access-related culverts within the right-of-way. Within incorporated areas, drainage responsibilities for municipalities are determined by statute and local ordinance. The Department will maintain the roadway including auxiliary lanes and shoulders, except in those cases where the access installation has failed due to improper access construction and/or failure to follow permit requirements and specifications in which case the permittee shall be responsible for such repair. Any significant repairs such as culvert replacement, resurfacing, or changes in design or specifications, requires authorization from the Department.

**State Highway Access Permit****Page – 101a****Worker Safety and Health**

All workers within the State Highway right of way shall comply with their employer's safety and health policies/procedures, and all applicable U.S. Occupational Safety and Health Administration (OSHA) regulations – including, but not limited to the applicable sections of 29 CFR Part 1910 – Occupational Safety and Health Standards and 29 CFR Part 1926 – Safety and Health Regulations for Construction.

Personal protective equipment (e.g. head protection, footwear, high visibility apparel, safety glasses, hearing protection, respirators, gloves, etc.) shall be worn as appropriate for the work being performed, and as specified in regulation. At a minimum, all workers in the State Highway right of way, except when in their vehicles, shall wear the following personal protective equipment:

- Head protection that complies with the ANSI Z89.1-1997 standard;
- At all construction sites or whenever there is danger of injury to feet, workers shall comply with OSHA's PPE requirements for foot protection per 29 CFR 1910.136, 1926.95, and 1926.96;
- High visibility apparel as specified in the Traffic Control provisions of this permit (at a minimum, ANSI/ISEA 107-1999, Class 2).

Where any of the above-referenced ANSI standards have been revised, the most recent version of the standard shall apply.

**Environmental Clearance**

It is the applicant's responsibility to contact the appropriate agencies and obtain all environmental clearances that apply to their activities. Such clearances may include but are not limited to Corps of Engineers 404 Permits or Colorado Discharge Permit System permits, or ecological, archeological, historical, or cultural resource clearances. The CDOT Environmental Clearances Information Summary presents contact information for agencies administering certain clearances and information about prohibited discharges; copy attached.

Permit Number 520022  
State Highway 050, Milepost 212.62 Left  
ACA Products, Inc. Access with Auxiliary Lanes

**LEVEL 3 - ACCESS PERMIT TERMS & CONDITIONS**  
**FULL-MOVEMENT ACCESS WITH AUXILIARY LANES**

**A. PERMIT REQUIREMENTS SPECIFIC TO THIS ACCESS:**

1. **Permit Number 520022** is issued by the Colorado Department of Transportation (CDOT) in accordance with the 1998 Access Code and is based upon the information submitted by the Permittee.
  - a. Any changes in the herein permitted type and use and/or volume of traffic using the access, drainage, or other operational aspects shall render this permit void, requiring that a new application be submitted for review based upon currently existing and anticipated future conditions.
  - b. Upon completion of the improvements identified in this permit, Permit Number **520022** shall replace and void all previous access permits for this location.
  - c. If the requirements of this Permit are not satisfied or this Permit expires, the access rights will revert to the access permit issued prior to this permit. If there is no valid prior permit then the access rights and uses shall revert to the historic use.
  - d. This permit is not valid unless the land use(s) enumerated herein have been approved by the local (City/County) Land Use Planning Authority.
2. Permit Number **520022** is issued for the **construction and use** of:
  - a. A **Paved Full-Movement access** on **State Highway 050** for **Frank Holman/ACA Products, Inc.** at approximate mile marker **212.62 Left**.
  - b. A **left turn ingress deceleration lane** from **eastbound State Highway 050 into the access. Details for this lane shall be submitted by Permittee/Applicant in Exhibit "B," Reserved (Designs Plans) and approved by CDOT prior to construction.**
  - c. A **right turn ingress deceleration lane** from **westbound State Highway 050 into the access. Details for this lane shall be submitted by Permittee/Applicant in Exhibit "B," Reserved (Designs Plans) and approved by CDOT prior to construction.**
3. The access shall be **Paved a distance of 50 feet** from the edge of traveled way and may be paved or gravel surfaced any remaining distance within State Highway ROW. The access shall have a width of **35 feet** and radius of **50 feet**.
4. The access shall be **perpendicular** to the travel lanes of the State Highway for a minimum distance of **40 feet from the edge of pavement or to the ROW, whichever is furthest.** **It shall slope down and away** from the adjacent pavement edge at a rate of **two percent (2%)** for a minimum of **20 feet**, then not to exceed **eight percent (8%)** grade up or down to the ROW line.
5. **Temporary Traffic Control, with prior written approval by CDOT,** is required at all times during construction of the access in accordance with the **Traffic Control Plan (TCP) and corresponding Methods of Handling Traffic (MHT).** The **MHT's shall be developed and implemented** by a **Traffic Control Supervisor (TCS) certified** by the

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**American Traffic Safety Services Association (ATSSA) or the Colorado Contractors Association (CCA).**

6. The category for this section of Highway **050** is **R-A**. The access shall be in conformance with the State of Colorado State Highway Access Code, Volume Two, Code of Colorado Regulations 601-1, August 31, 1998 as amended.
7. The access shall serve a tract of land located in **Section 1, Township 49 North, Range 8 West, N.M.P.M., Chaffee County, Colorado; also known as 14100 County Road 140, Salida, CO 81201.**
8. Incorporated as part of this permit are the following:
  - a. State Highway Access Permit pages 1-3 and Page 101a
  - b. Access Permit Terms and Conditions Pages **1 through 12**
  - c. **EXHIBIT "A,"** (Traffic Impact Study dated **April 7, 2020**)
  - d. **EXHIBIT "B," Reserved** (Plans).
  - e. CDOT Late Fall, Winter and Spring Special Provisions for Access Construction and Utility Installations
  - f. CDOT Environmental Clearances Information Summary
  - g. Water Quality Program Summary
  - h. State Highway Access Permit Application (CDOT Form No. 137) received **February 21, 2020.**
9. This Permit describes the access and improvements that will serve the following land uses:
  - a. **191.98 Acre Gravel Pit (ITE Code 991).**
10. This permit is only for the purpose stated herein. Any changes in the type, use and/or volume of traffic using the access will require a new permit.
11. The maximum traffic generation to **SH 050** for the development listed in **9.a.** above is as follows:
  - a. ACA Products, Inc. gravel pit – shall generate no more than a maximum of **228** daily new external vehicle trips, **50** AM Peak Hour movements, and **50** PM Peak Hour movements as identified in **EXHIBIT "A,"**.
12. If any future development impacts this State Highway connection, CDOT will review the changes and shall determine if a traffic impact study is needed. CDOT will make the determination based on the potential degradation of the access below an acceptable level of service **"C"** for the classification of **SH 050** of **National Truck Route** in **Mountainous** terrain. If in the sole judgment of CDOT a new traffic impact study is needed, it shall be completed at no cost to CDOT and the new development shall be required to mitigate any impacts revealed by the traffic impact study.
13. At the access location, **SH 050** has a posted speed limit of **65 mph** with approximate **6:1 foreslopes** and a daily traffic volume of **3,000** AADT, which correlates to a minimum Clear

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Zone of **28** feet from the edge of traveled way. The Permittee/Contractor shall take the minimum Clear Zone into consideration during the design and construction of the access.

14. **All required access improvements will be installed prior to any use of this access.**

15. "Right-of-Way" means the entire width between the boundary lines of every way publicly maintained when any part thereof is open to the use of the public for purposes of vehicular travel or the entire width of every way declared to be a public highway by any law of this state.

16. Internal site circulation and parking must be adequate to serve the land uses described here.

17. No backing into the Right-of-Way will be allowed under any circumstances.

18. No parking within the Right-of-Way will be allowed under any circumstances.

19. Both backing into the Right-of-Way and parking within the Right-of-Way are considered to be traffic offenses and can be ticketed by any law enforcement officer of the jurisdiction in which the access is located.

20. Any violation of the above provisions may be grounds for revocation by the Department of this access permit and may result in physical closure of the access.

**B. REQUIREMENTS PRIOR TO SUBMISSION OF DESIGN PLANS:**

1. Plan development shall include:

- a. Design Scoping - prior to beginning design, the permittee and their Design Engineer shall schedule a scoping with **CDOT prior to design commencing.**
- b. Once 30% Design is achieved, the permittee and their Design Engineer shall schedule a Field Initial Review of the plans, specifications and Estimate (PS&E) package with CDOT.
- c. Once 90% Design is achieved the permittee and their Design Engineer shall schedule a Final Office Review of the PS&E package with CDOT.
- d. Once FOR comments are incorporated, the permittee/design engineer shall submit a final PS&E package for approval by CDOT.

**C. REQUIREMENTS PRIOR TO NOTICE-TO-PROCEED (NTP) FOR CONSTRUCTION:**

1. It is the responsibility of the Permittee/Applicant to determine which **environmental clearances** and/or regulations apply to the project, and to obtain any clearances that are required directly from the appropriate agency. Please refer to "CDOT Environmental Clearance Information Summary" for details. **FAILURE TO COMPLY WITH REGULATORY REQUIREMENTS MAY RESULT IN SUSPENSION OR REVOCATION OF THE CDOT ACCESS PERMIT, OR ENFORCEMENT ACTIONS BY OTHER AGENCIES.**

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**Prior to the request for Notice-to-Proceed (NTP), you must first contact CDOT's Environmental Specialist at 970-385-1425, and provide the necessary environmental clearances as identified in the Permit Terms & Conditions and Permit Attachments. This office will not issue a Notice-to-Proceed (NTP) without written Environmental Clearance Certification.**

2. A **written request for a Notice to Proceed** must be submitted to this issuing office along with the following items. Only after the Permittee complies with items a through l of this section will a **Notice-to-Proceed (NTP)** be issued to allow the commencement of construction.
  - a. The Permittee shall provide **written approval** from the Local Authority for the proposed land use that will be served by the access. Granting of an access permit in no way implies CDOT concurrence or non-concurrence with the Permittee's proposed land use.
  - b. Once the Land Use has been approved by the Local Authority, the Permittee will furnish the Colorado Department of Transportation (CDOT) **one (1) electronic set of design plans** for review. These plans must be scaled to 11x17" paper.
  - c. The **design plans shall show the existing highway ROW, property lines and easements, as determined by a Professional Land Surveyor, for the entire length of the access improvements along the highway.** If the **proposed improvements along the highway encroach on the existing ROW or easements, ROW plans are required** for the dedication and/or acquisition of the necessary ROW/easements. **The permittee shall request a ROW plan coordination meeting with the Region 5 Access Manager prior to developing any ROW plans. No grading, construction, structures or toes of slopes necessary for site development shall be placed within CDOT ROW.**
  - d. Once accepted, CDOT will sign the plans as approved. **Once approved, the design plans will become final and labeled EXHIBIT "B," (Plans)** and incorporated as part of this permit. The access approach and all related highway improvements will be constructed in accordance with the approved final design plans. The remainder of the terms and conditions of this permit shall refer to the final design plans as **EXHIBIT "B,"** reserved. If the Permittee wishes a **waiver** from the design standards the request shall be in conformance with section 4.12 of the State Highway Access Code utilizing CDOT Form No. 112. CDOT may or may not approve the waiver. CDOT will only issue a NTP for approved designs.
  - e. The Permittee shall provide documentation showing that current (less than 1 year old) CDOT approved **mix designs** will be used for Hot Mix Asphalt (HMA) and Concrete as well as documentation listing the sources of materials for use on the project. The documentation shall be submitted to the CDOT Region 5 Access Manager for verification a minimum of five (5) working days prior to the requested NTP date. A NTP shall **NOT** be issued **PRIOR** to obtaining approval for all materials from the Region Materials Engineer (RME).

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- f. The Permittee shall provide a **Traffic Control Plan (TCP)** which will be **submitted as part of the aforementioned design plans.** The TCP shall include the typical applications (which may be a reference to one or more of the cases illustrated in the MUTCD or in the CDOT S Standard Plans) showing the different phases of construction, the locations of signs, signals, and pavement marking. A tabulation of necessary pavement markings, signing quantities, schedule of construction traffic control devices and project specifications are also required. In addition to the TCP, the actual **Methods of Handling Traffic (MHT)** shall be submitted by the **Traffic Control Supervisor (TCS)** at the pre-construction conference. Any additional MHT's required during the course of construction **shall be submitted** to the Region 5 Access Manager for review and acceptance **a minimum of three (3) working days prior to the desired implementation date.** Traffic Control of any nature will not be allowed unless authorized in writing by CDOT.
- g. A **Performance Bond** to CDOT shall be required to be in place to insure completion of the required highway improvements in conformance with all CDOT standards and specifications. The bond must be in the amount of at least 110% of the cost of the construction. A Cost Estimate certified by the Engineer and a draft of the bond must be provided to CDOT for review and approval by CDOT before acceptance of the final bond and before a pre-construction will be scheduled. Upon completion and acceptance of the highway improvements, CDOT will release the performance bond after an approved **Warranty Bond** in the amount of 20% of the cost of the construction is received. The warranty bond shall be held for two (2) years after the construction acceptance date.
- h. The Department will require the **Permittee to retain a Professional Engineer (PE)** to be in Responsible Charge of Construction oversight. A written confirmation from the Permittee is required to show that the requirement in this term is met.
- i. The Permittee/Contractor is required to obtain **Insurance** in conformance with Standard Specification Section 107 Responsibility for Damage Claims, Insurance Types and Coverage Limits. **Professional Liability insurance, as described in Section 107, is required for the design plans, design and construction surveying, as well as for the Professional Engineer in responsible Charge of Construction oversight.** Copies of insurance coverage will be submitted to the Region 5 Access Manager prior to the issuing of the NTP or approving the Design Plans **EXHIBIT "B"** reserved. A copy of the insurance policy is required to be available at the construction site at all times for inspection.
- j. A **Construction Schedule** detailing the execution of the project shall be submitted to the Region 5 Access Manager prior to scheduling the pre-construction conference.
- k. A **pre-construction conference** is required prior to the issuance of the NTP. It is the responsibility of the Permittee to schedule and coordinate this meeting. At least five (5) working days prior to the pre-construction conference the Permittee will submit the following packet of information to CDOT for review:

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- a. Baseline Construction Schedule
  - b. Material Submittals
  - c. Asphalt and Concrete Mix Designs
  - d. Methods of Handling Traffic
  - e. Performance Bond
  - f. Liability Insurance
  - g. Written confirmation of PE for Construction
1. The Permittee/Contractor must contact the Region 5 Traffic Construction Coordinator at 3803 North Main Avenue, Durango, CO or telephone (970) 385-3633 to schedule a **pre-construction conference**.

#### **D. GENERAL DESIGN REQUIREMENTS:**

1. **Design of improvements** within the highway ROW shall be in compliance with the most current editions of the following manuals and documents except as indicated:
  - a. CDOT Design Guide
  - b. CDOT Drainage Design Manual
  - c. CDOT Standard Plans M&S Standards
  - d. AASHTO Roadside Design Guide
  - e. AASHTO Policy on Geometric Design of Highways and Streets
  - f. CDOT Standard Specifications for Road and Bridge Construction
  - g. CDOT Standard Special Provisions
  - h. Manual on Uniform Traffic Control Devices (MUTCD)
  - i. 1998 State Highway Access Code, Volume 2, Code of Regulations 601-1, as amended
  - j. ITE Traffic Engineering Handbook
  - k. ITE Trip Generation Manual, **6<sup>th</sup> Edition**
  - l. 2011 CDOT CAD Manual
2. **No grading, construction, structures or toes of slopes necessary for site development shall be placed within CDOT ROW.**
3. The design standards listed under item 1 of this section will override the final design plans, **EXHIBIT "B,"** reserved should an oversight, omission or conflict occur.
4. CDOT assumes no liability or responsibility whatsoever for the accuracy, completeness or correctness of the Permittee's final design plans, **EXHIBIT "B,"** reserved. Any design errors are the sole responsibility of the Permittee and their Engineer.
5. Permittee is required to comply with the **Americans with Disabilities Act Accessibility Guidelines (ADAAG)** that have been adopted by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board), and incorporated by the U.S. Attorney General as a federal standard. These guidelines are defining traversable slope requirements and prescribing the use of a defined pattern of truncated domes as detectable warnings at street

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crossings. The current Standard Plans reflect these requirements.

6. It is the responsibility of the Permittee/Applicant to determine which **environmental clearances** and/or regulations apply to the project, and to obtain any clearances that are required directly from the appropriate agency. Please refer to "CDOT Environmental Clearance Information Summary" for details. **FAILURE TO COMPLY WITH REGULATORY REQUIREMENTS MAY RESULT IN SUSPENSION OR REVOCATION OF THE CDOT ACCESS PERMIT, OR ENFORCEMENT ACTIONS BY OTHER AGENCIES.**
7. ALL discharges are subject to the provisions of the Colorado Water Quality Control Act and the Colorado Discharge Permit Regulations. Prohibited discharges include substances such as: wash water, paint, automotive fluids, solvents, oils or soaps.
8. Unless otherwise identified by CDOT or the Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Division (WQCD) as not being a source of pollutants to the waters of the State, the following discharges to storm water systems are allowed without a Colorado Discharge Permit System permit: landscape irrigation, diverted stream flows, uncontaminated ground water infiltration to separate storm sewers, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, footing drains, water line flushing, flows from riparian habitats and wetlands, and flow from firefighting activities, and water incidental to street sweeping (including associated sidewalks and medians) and that is not associated with construction. Discharges from these sources may still require separate CDPS permit coverage to be obtained by the discharger.
9. ANY OTHER DISCHARGES may require Colorado Discharge Permit(s) or separate permits from CDPHE or the appropriate agency before work begins. For additional information and forms, go to the CDPHE website at:  
<http://www.cdphe.state.co.us/wq/PermitsUnits/wqcdpmt.html> or contact the CDOT Water Quality Program Manager at 303-757-9343.
10. Discharges may also be subject to additional State and Local restrictions, such as MS4 (Municipal Separate Storm Water Sewerage Systems) requirements for permanent sediment control, TMDL (Total Maximum Daily Limit), TMAL (Total Maximum Annual Limit) or discharge.
11. **Any removal of existing fence, in excess of opening required for the access, or installation of a fence that is erected adjacent to the highway ROW requires a separate CDOT Fencing Agreement.** All fencing described by the CDOT Fencing Agreement shall be shown in the design plans.
12. **Any landscaping** within CDOT ROW requires a separate **CDOT Landscaping Permit**. All landscaping described by the CDOT Landscaping Permit shall be shown in the design plans.

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13. **Any Utility work** within CDOT ROW requires a separate **CDOT Utility Permit**. All utilities and utility work described by the CDOT Utility Permit shall be shown in the design plans.

**E. DRAINAGE DESIGN REQUIREMENTS:**

1. No site drainage from the constructed access shall enter onto the traveled way of the highway.
2. Drainage to the State Highway Right-of-Way shall not exceed the historical undeveloped rate of flow. Detention ponds may be required to control drainage flow from developed properties at or below historical flow rates.
3. Any drainage study shall consider and the design reflect the 25 year flood for rural two lane highways, 50 year flood for four lane highways, and 100 year flood in all urban areas.
4. Required Cross Culverts under the State Highway, Side Drain Culverts under the Access, Curb, Gutter, Inlets, Manholes, Sidewalk and Driveways shall conform to CDOT Standards and facilitate proper drainage along the State Highway. Culvert ends not contained within manholes or inlets shall be fitted with standard end sections. The Drainage design shall be included in **EXHIBIT "B,"** reserved.

**F. PAVEMENT DESIGN REQUIREMENTS:**

- a. Pavement design materials shall conform with:
  - a. Section 304 - Aggregate Base Course (ABC) - Class 1 or 2 and Class 6, with resistance values of at least 70 and 78 respectively when tested by the Hveem Stabilometer method.
  - b. Section 403 - Hot Mix Asphalt Grading S or SX.
  - c. Section 412 & 601 - Concrete Pavement Class P = 4,200 psi
- b. The permittee/applicant is responsible for submitting a pavement design for improvements within current or proposed CDOT ROW. At its discretion, CDOT may provide the pavement design required for the improvements.

**G. FINAL STABILIZATION REQUIREMENTS:**

1. Topsoil, seeding, fertilizer and mulching shall be required within the ROW limits on all disturbed areas not surfaced immediately upon completion of the access.
2. A minimum of 4 inches of topsoil shall be placed on all slopes which are to be seeded and mulched.
3. The following types of seed and application rates shall be used unless a separate Landscaping

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Permit states otherwise:

**Seed Requirements:**

<u>COMMON NAME</u>	<u>BOTANICAL NAME</u>	<u>LBS.</u>
<u>PLS\ACRE</u>		
Western Wheatgrass (V. Arriba)	Pascopyrum Smithii	16
Slender Wheatgrass (V. San Luis)	Elymus Trachycaulus	6
Indian Ricegrass (V. Paloma)	Oryzopsis Hymenoides	6
Hard Fescue (V. Durar)	Festuca Ovina Duriuscula	6
Alsike Clover	Trifolium Hybridum	4
Sand Dropseed	Sporobolus Cryptandrus	<u>0.50</u>
Total lbs/acre		38.50

Seed shall be mechanically drilled to a depth of 0.25 or 0.5 inches into the soil on slopes flatter than 3:1. Seed shall be broadcast on slopes 3:1 or steeper and raked into soil.

4. **Fertilizer Requirements:**

<u>Nutrient Type</u>	<u>% AVAILABLE</u>	<u>LBS\ACRE</u>
Nitrogen:	18	45
Phosphorus:	46	115

Fertilizer shall be incorporated to a depth of 2" to 4" into the topsoil.

5. **Mulching Requirements and Application:** 2 tons/acre straw mechanically crimped into soil on slopes flatter than 3:1. Place a soil retention blanket consisting of woven wood or straw coconut material on slopes 3:1 or steeper.

**H. GENERAL CONSTRUCTION REQUIREMENTS:**

- A COPY OF THIS PERMIT AND THE VALIDATED NOTICE TO PROCEED MUST BE ON THE JOB WITH THE CONTRACTOR AT ALL TIMES OR ANY WORK ONSITE AND OFFSITE WILL BE ORDERED TO BE IMMEDIATELY SUSPENDED UNTIL THIS TERM IS COMPLIED WITH.**
- The PE in responsible charge of construction observation shall evaluate insure compliance with plans and specifications with regard to the roadway improvements and Traffic Control within the State Highway ROW. **The PE's responsibilities shall be as defined in Section 5 of the Bylaws and Rules of The State Board of Licensure for Architects, Professional Engineers and Professional Land Surveyors** and the relevant sections of the latest CDOT Standard Specifications for Road and Bridge Construction. The PE shall be experienced and competent in road and bridge construction management, inspection and materials testing.
- Construction Activities** within the highway ROW shall be in compliance with the most current editions of the following manuals:
  - CDOT Standard Specifications for Road and Bridge Construction
  - CDOT Standard Special Provisions

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- c. CDOT Standard Plans M&S Standards
  - d. CDOT Construction Manual
  - e. CDOT Field Materials Manual
  - f. CDOT Laboratory Manual of Test Procedures
  - g. Manual on Uniform Traffic Control Devices (MUTCD) Part IV and the Colorado Supplement
  - h. **EXHIBIT "B,"** reserved
4. The Permittee/Contractor is responsible for obtaining any necessary additional **Federal, State and/or City/County permits or clearances** required for construction of the access. Approval of this access permit does not constitute verification of this action by the Permittee.
  5. The Permittee will be responsible for **verification of existing utility locations**. The Permittee must notify owners or operators of **underground utility facilities** at least two (2) business days prior to beginning excavation in the vicinity of such facilities, as required under Section 9-1.5-103, Colorado Revised Statutes. **Call Utility Notification Center of Colorado (UNCC), 811** or 1-800-922-1987 for marking of member utilities. Call non-member utilities directly.
  6. The Permittee/Contractor shall coordinate access construction with any utility installations.
  7. Any damage to utilities during construction shall be the Permittee's responsibility to repair or replace the utility at no cost to the Department.
  8. The Permittee/Contractor shall not make any changes to the access design without prior approval from the Region 5 Access Manager or other authorized Region 5 CDOT representative. If necessary, minor changes, corrections, and/or additions to this permit will be ordered by CDOT to meet unanticipated site conditions.
  9. Any damage to any existing highway facilities shall be repaired by the Permittee prior to continuing other work.

#### **I. SAFETY, WORKING TIMES AND TRAFFIC CONTROL:**

1. CDOT reserves the right to suspend any construction activities, to include Traffic Control, that interfere with the safe operation of the State Highway. Any such suspensions shall require a written plan of action detailing how the Permittee/Contractor will prevent further safety infractions prior to recommencing construction activities.
2. All equipment, materials or any other non-crashworthy item shall be stored outside the clear zone during non-working times.
3. Existing highway signs requiring removal within the limits of the construction activities shall be removed and delivered to the CDOT Maintenance Shop for storage and future replacement by the Permittee unless otherwise agreed to by CDOT and Permittee. Installation shall be as

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directed by CDOT.

4. The Permittee/Contractor will be responsible for keeping the State Highway travel lanes and shoulders clear of any mud or debris tracked onto it throughout construction of the access on a daily basis or as otherwise directed by CDOT.
5. The existing paved shoulder edge shall not be saw cut back until the future pavement is ready to be installed. The shoulder shall be saw cut a minimum of one (1) foot from the existing pavement edge to assure a straight edge for placement of adjacent asphalt material.
6. Any pavement drop-offs that will be left overnight shall be delineated with appropriate channelizing devices and any reasonably obtained lateral buffer space.
7. Any required pavement marking(s) and signing shall be installed by the Permittee/Contractor prior to opening any roadway to traffic.
8. The Permittee/Contractor shall comply with Revision of Section 107.06 of the CDOT Specifications regarding Safety, Health, and Sanitation Provisions.
9. No work within the highway ROW will be allowed on Saturdays, Sundays, legal holidays, or during periods of adverse weather conditions.
10. All construction activities within the state highway ROW will not be allowed to begin before sunrise and shall be required to cease prior to sunset. Traffic Control operations may begin one half hour before sunrise and continue until one half hour after sunset.
11. No disruption of traffic flow will be allowed during the morning (7:00 AM to 8:30 AM) and evening (4:30 PM to 6:00 PM) peak hour traffic flows, unless otherwise authorized in writing by CDOT.

#### **J. FINAL PROJECT ACCEPTANCE:**

1. **Engineering Certification Submittal:** Prior to final acceptance by CDOT, the PE shall certify to CDOT in writing that all inspections, materials, materials testing, and construction methods conform to the plans, specifications and purpose of the design. The certification shall be supported by the submittal of project documentation complying with the requirements of this permit. The submittal shall be sent to the Region 5 Access Manager, Colorado Department of Transportation, 3803 Main Avenue, Suite 100, Durango, Colorado 81301. The submittal shall:
  - a. Have the stamp and signature of the PE in responsible charge of construction oversight signifying that the engineering services addressed therein have been performed by the PE, or directly under the PE's supervision.
  - b. Be based upon the PE's knowledge and information regarding the project.

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- c. Be in accordance with applicable standards of practice.
2. Upon completion of the work, the Engineer **shall submit 3-sets of "As Constructed" plans** showing in detail all ROW easements, construction improvements and any modifications or revisions made to the design plans during construction. All changes, modifications or revisions shall be signed and sealed by the engineer.
3. **Final Project Acceptance** will be by the Regional Transportation Director (RTD) or their authorized designee.
4. **Reconstruction or improvements** to the access will be required when the Permittee fails to meet the required design and/or materials specifications. If any construction element fails within two years of CDOT's final acceptance due to improper construction or materials, the Permittee is responsible for all such repairs.

PERMITTEE:  6/1/2020 | 5:35 PM MDT  
36BB2C3C0D904EA... DATE \_\_\_\_\_  
Frank Holman

APPLICANT:  5/27/2020 | 9:59 AM PDT  
C4D23580F42B4FD DATE \_\_\_\_\_  
Blake Bennetts for ACA Products, Inc.

# Traffic Impact Study

## ACA Products

Highway 50  
Chaffee County

Prepared For:

**ACA Products**

**PO Box 1887**

**Buena Vista, CO**

Prepared By:



**112 Rubey Dr Ste 210**  
**Golden, CO 80403**  
**303-940-9966**

Fred Lantz  
Traffic Engineer

August 2019  
Revised December 2019  
Revised April 2020



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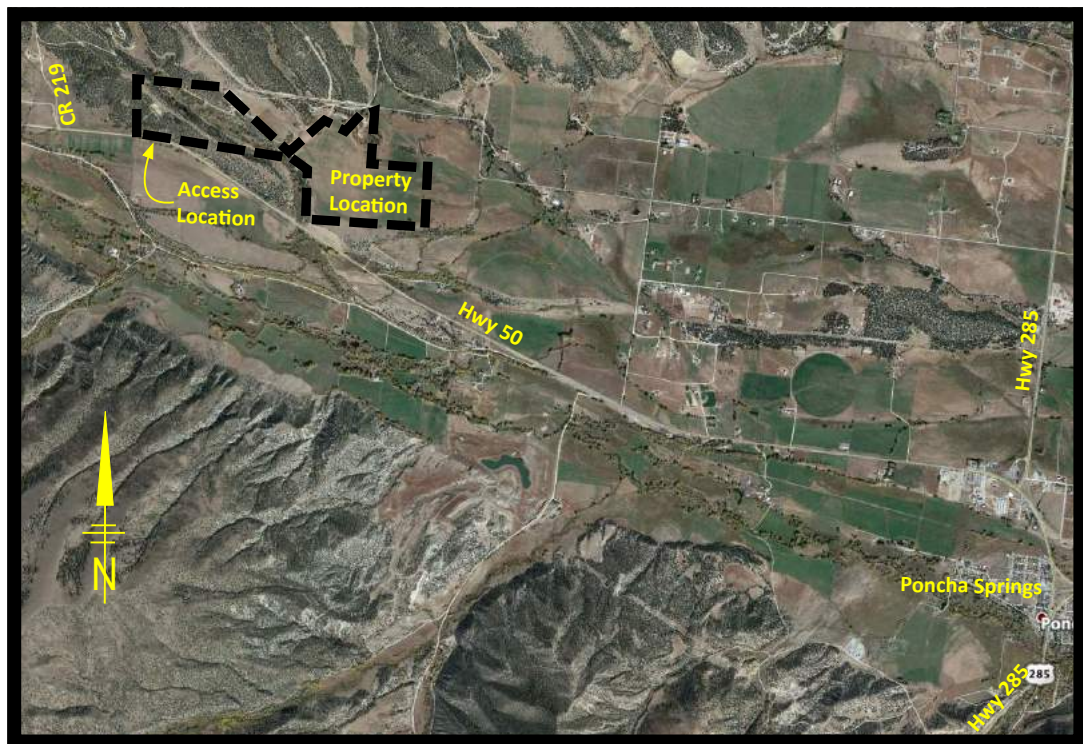
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## Introduction

This Traffic Impact Study will address the amount of traffic that the ACA Products development is expected to generate and the impact on the roadway system. The proposed development is located on the north side of Hwy 50 east of County Road 219 and West of Poncha Springs. The property is presently vacant. Figure 1 below shows the site location.



**Figure 1 - Site Location**

## Existing Conditions

Highway 50 is classified as an RA – Regional Highway with a 65 mph speed limit. It is a 2 lane roadway. All Traffic Data Services Inc. conducted a 24-hour directional traffic count on Hwy 50 at the proposed site of the development. The traffic counts were taken on Tuesday June 4, 2019. The traffic counts indicated that there were 1858 vehicles per day in the eastbound direction and 2031 vehicles per day in the westbound direction. The total for both directions was 3889 vehicles per day. The highest hours are 391

vehicles from 11-12 in the AM and 365 vehicles from 1-2 in the PM. These counts are consistent with CDOT's on line information in OTIS. The traffic counts are included in the appendix.

## Proposed Development

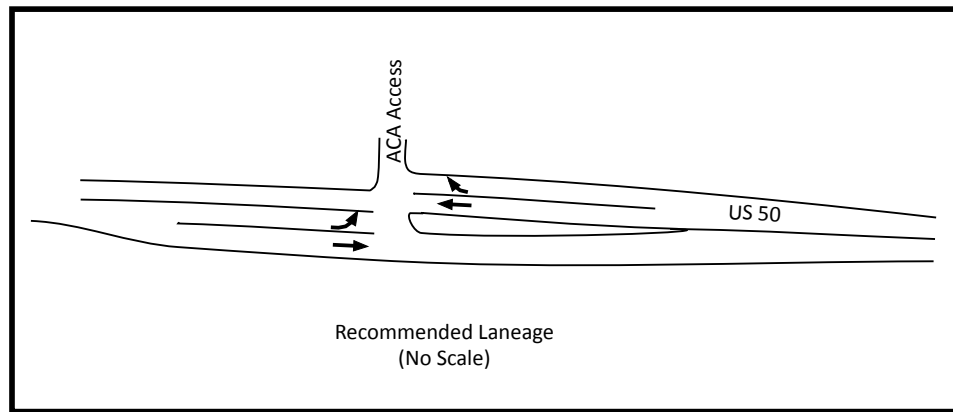
The proposed development is a Sand and Gravel Pit. An access is proposed on Hwy 50 2112' east of County Road 219. Because of the type of traffic at the site, deceleration lanes are proposed along Hwy 50 at the access. The eastbound left turning volume calculated in Figure 3 will be a high of 5 passenger car equivalents per hour. While this number is less than the volume required for a left turn lane in the State Highway Access Code (>10 vehicles per hour), it was decided to include the eastbound left turn lane because of the type of vehicles normally seen at a Sand and Gravel Pit. Likewise, the westbound right turn lane is calculated at a high of 21 passenger car equivalents per hour which, is less than the 25 listed in the State Highway Access Code as the threshold requiring a right turn deceleration lane.

The length of these lanes was calculated using tables 4-5, 4-6, and 4-8 of the State Highway Access Code. Table 4-5 states that for the Access Category R-A, the left turn length is the deceleration length plus the storage. The storage length from table 4-8 is 25' as the left turning volume (5 pce's) is below 30 in the table. Table 4-6 calls for a deceleration length of 800' for 65 mph. Thus the minimum left turn lane should be 800' (deceleration) plus 25' (storage) or a total of 825'. The proposed lane is 847', which exceeds the minimum length requirement.

The westbound right turn deceleration lane only needs to include the deceleration length according to table 4-5 of the State Highway Access Code for the R-A Category. Table 4-6 indicates the deceleration of 800' for 65 mph. Thus the proposed right turn lane at 800', equals the length required in the State Highway Access Code.

Sight distance for entering traffic will exceed the 1105' requirement for Multi-Unit Trucks as shown in Table 4-2 of State Highway Access Code.

Figure 2 below shows a sketch of the Proposed Roadway Improvements.



**Figure 2 – Proposed Laneage at Access**

### **Trip Generation**

The trips generated by the development were estimated using the information provided by the owner as the Institute of Transportation Engineers *Trip Generation Manual, 10<sup>th</sup> Edition* does not have a listing for a Sand and Gravel Pit or a Quarry. Trips are based on the type and the number of vehicles that will be on-site. The number of large trucks is based upon the fact that the Sand and Gravel Pit can only accommodate a maximum of 6 trucks per hour. Those trips were converted to Passenger Car Equivalents by multiplying by 3 as required by the State Highway access code. A total of 3 employees are planned on-site between 7 am and 5 pm, with these trips posted during the AM and PM peak periods as well as a couple of mid-day trips. It is also estimated that there will be 100 miscellaneous trips daily that include deliveries, other employees, and visitors.

Both Daily and Peak Hour trips are estimated for the development.

Table 1 shows the number of trips that could be generated by the proposed land use broken down by trip type.

		Trips Generated - Weekday						
Trip Type	Unit	Daily	AM Peak Hour			PM Peak Hour		
			Enter	Exit	Total	Enter	Exit	Total
Gravel Trucks	PCE	120	18	18	36	18	18	36
Employees	Veh	8	3	1	4	1	3	4
Misc Trips	Veh	100	5	5	10	5	5	10
<b>Total Trips</b>		<b>228</b>	<b>26</b>	<b>24</b>	<b>50</b>	<b>24</b>	<b>26</b>	<b>50</b>

PCE = Passenger car equivalents (1 Truck = 3 PCE)  
Veh = Vehicle

**Table 1 – Development Trip Generation**

As the Trip Generation Table indicates, this development is expected to generate 228 daily trips with 50 AM peak hour and 50 PM peak hour trips.

### Initial Traffic During AM/PM Peak Hours

Discussions with the owner indicated that most of the traffic would come from the east. Employees will most likely live in Poncha Springs, Salida or Buena Vista. The products from the Sand and Gravel pit will also go toward the populations in Poncha Springs, Salida and Buena Vista. There will be a few trips to the west, thus a distribution of 80% to the east and 20% to the west was decided on. The AM and PM peak hour trips in the Trip Generation table were assigned to Highway 50 with 80% of the trips going to/from the east and 20% of the trips going to/from the west. The site peak hours would have the highest volume of traffic entering and leaving the development with a 7 am to 5 pm workday.

Figure 3 below shows the Site Peak Hour Trips at the access with Highway 50. The Highway 50 volumes were obtained from the traffic count that was taken on Tue June 4, 2019 for the corresponding 7 am and the 5 pm hours. These hours were selected to match the peak hours of the Sand and Gravel Pit. The Sand and Gravel Pit is ready to open as soon as they are able to obtain their access permit, so the 2019 traffic volumes are appropriate to use. CDOT counts in the area were checked and they indicate that the summer months have higher traffic volumes than the winter months.

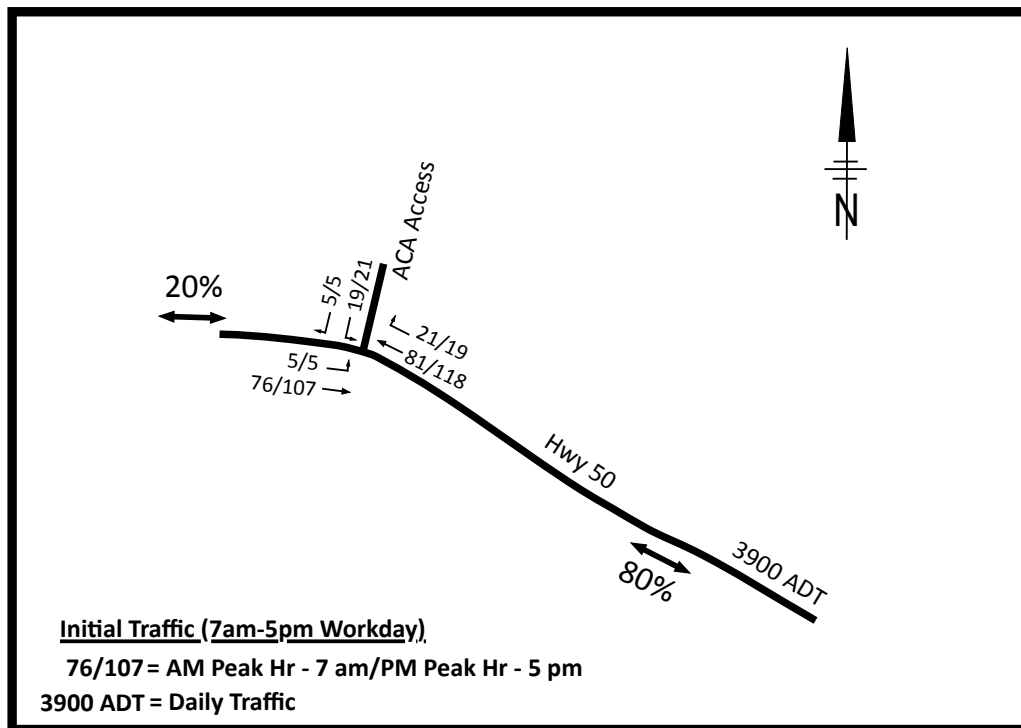
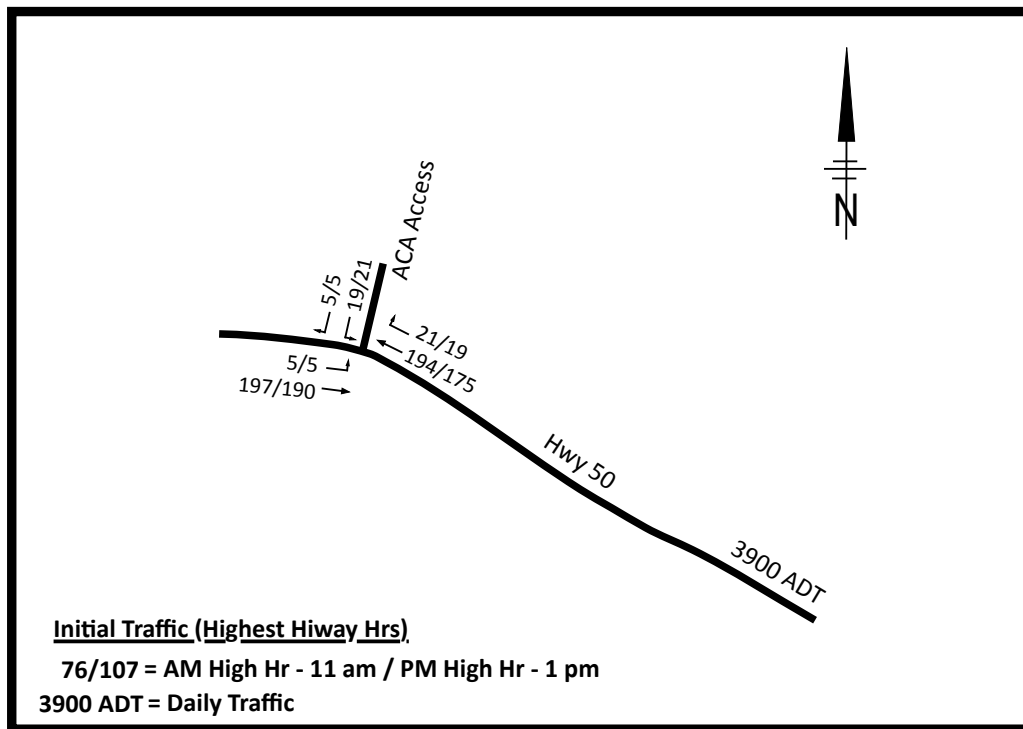


Figure 3 – Site Peak Hour Volumes (2019)

### Initial Traffic During the Highest Roadway Hours

The traffic counts taken on Tue June 4, 2019 indicate the highest hours on Highway 50 occur at 11 am and 1 pm. The Sand and Gravel Pit peak hours occur at 7 am and 5 pm. Since the highest roadway hours do not coincide with the highest development hours, the development traffic was also calculated for the later morning and early afternoon highway peak hours. The employee traffic would not normally be included in these hours, just the trucks and the miscellaneous trips.

Figure 4 below shows the Trips at the access with Highway 50 during the highest highway hours. The Highway 50 volumes were obtained from the traffic count for the corresponding high am and the high pm hours.



**Figure 4 – Highest Highway AM and PM Hours (2019)**

### **Future Traffic During AM/PM Peak Hours**

In order to determine the impact of the development in the future, the roadway traffic was inflated using the 20 year growth rate from the CDOT OTIS web site. The 20 year factor was determined to be 1.13 for this section of Highway 50. Thus the existing volumes were inflated by the growth factor to represent the volumes that would be present in the future (20 years).

It is assumed the Sand and Gravel Pit will remain the same size. If the development increases significantly in the future, this TIS should be updated. It should also be noted that a new access permit will be needed if the site adds additional traffic.

Figure 5 below shows the Site Peak Hour Trips at the access with Highway 50. The Highway 50 volumes were obtained from the inflated traffic count for the corresponding 7 am and the 5 pm hours.

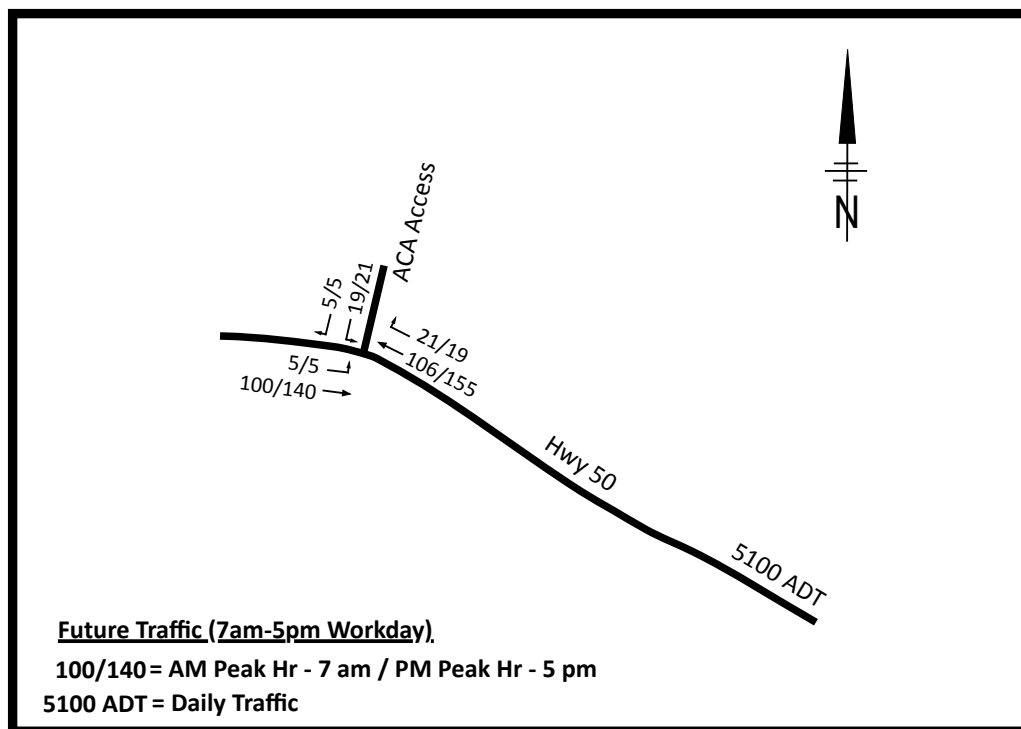
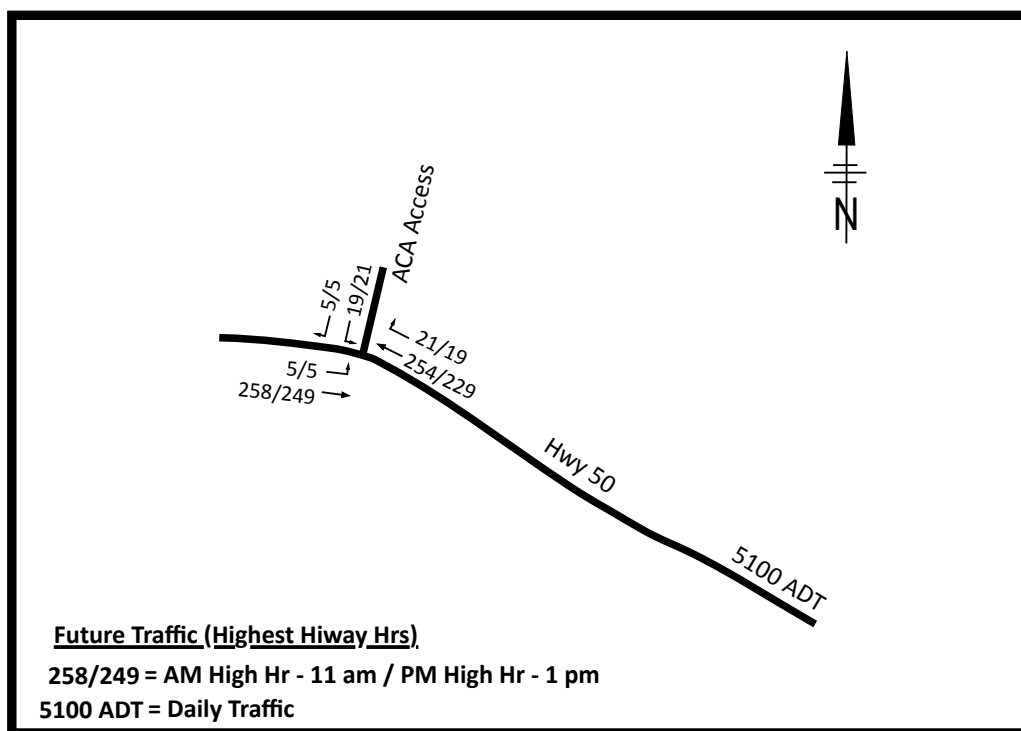


Figure 5 – Future Site Peak Hour Volumes (2039)

### Future Traffic During the Highest Roadway Hours

The future traffic was calculated for the inflated highest am and pm highway hours

Figure 6 below shows the Trips at the access with Highway 50 during the future highest highway hours. The Highway 50 volumes were obtained from the inflated traffic count for the corresponding high AM and the high PM hours.



**Figure 6 – Future Highest Highway AM and PM Hours (2039)**

### LOS Analysis

The volumes for the AM and PM peak hours and the highest AM and PM highway hours for the initial period and for the future (20 year) were entered into the computer program Synchro 10 to determine the Level of Service (LOS) at the access.

The following Table 2 summarizes the LOS for the left turn into the access and the SB access exit. The printouts are included in the appendix.

Movement	Initial Peak Hrs		Initial High Hrs		Future Peak Hrs		Future High Hrs	
	AM	PM	AM	PM	AM	PM	AM	PM
EB Left	A	A	A	A	A	A	A	A
SB	B	B	B	B	B	B	B	B

**Table 2 – LOS**

As the above table indicates, the traffic at the access intersection on Hwy 50 will not experience any delays with the development now or in the future. The queue lengths will be 1 vehicle or less.

## Conclusion and Recommendation

The development of a Sand and Gravel Pit on Highway 50 east of CR 219 will not have any discernable impact on the traffic flow in the area with the turn lanes proposed. Because of the type and volume of traffic, deceleration lanes are proposed for the westbound right turn lane and the eastbound left turn lane even though the volumes do not meet the threshold in State Highway Access Code. The volumes at the access do not warrant acceleration lanes as specified in the Access Code.

The development will generate 228 daily trips with 50 AM peak hour trips and 50 PM peak hour trips. The peak hour trips were examined to determine the LOS at the intersection at those hours. Because the street peak hours are different than the development peak hours, the AM and PM street peak hours were also examined to determine the LOS at the intersection. The intersection will operate at LOS B and better for all periods indicating little to no delay.

Sight distance is adequate at the intersection and the location of the access was chosen to have the access at the optimal point in the horizontal curve.

## Appendix

Traffic Counts  
Synchro Reports

Site Code: 1  
Station ID:  
HWY 50 W/O PONCHA SPRINGS

Start Time	04-Jun-19 Tue	EB	WB	Total
12:00 AM		5	7	12
01:00		5	3	8
02:00		4	12	16
03:00		6	5	11
04:00		6	12	18
05:00		14	26	40
06:00		48	44	92
07:00		76	81	157
08:00		92	122	214
09:00		149	122	271
10:00		140	172	312
11:00		197	194	391
12:00 PM		176	172	348
01:00		190	175	365
02:00		163	169	332
03:00		131	150	281
04:00		129	152	281
05:00		107	118	225
06:00		74	96	170
07:00		61	82	143
08:00		37	56	93
09:00		23	31	54
10:00		14	16	30
11:00		11	14	25
Total		1858	2031	3889
Percent		47.8%	52.2%	
AM Peak	-	11:00	11:00	-
Vol.	-	197	194	-
PM Peak	-	13:00	13:00	-
Vol.	-	190	175	-
Grand Total		1858	2031	3889
Percent		47.8%	52.2%	
ADT		ADT 3,889	AADT 3,889	

The following information can be found in the Highway Capacity Manual, Transportation Research Board, 2000: Chapter 10 – Urban Streets Concepts Signalized Intersections and Chapter 17 – Unsignalized Intersections.

### **Level Of Service (LOS) for Signalized Intersections**

Levels of service are defined to represent reasonable ranges in control delay.

#### **LOS A**

Describes operations with low control delay, up to 10 s/veh. This LOS occurs when progression is extremely favorable and most vehicles arrive during the green phase. Many vehicles do not stop at all. Short cycle lengths may tend to contribute to low delay values.

#### **LOS B**

Describes operations with control delay greater than 10 and up to 20 s/veh. This level generally occurs with good progressions, short cycle lengths, or both. More vehicles stop than with LOS A, causing higher levels of delay.

#### **LOS C**

Describes operations with control delay greater than 20 and up to 35 s/veh. These higher delays may result from only fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at the level. Cycle failure occurs when a given green phase does not serve queued vehicles, and overflows occur. The number of vehicles stopping is significant at this level, though many still pass through the intersection without stopping.

#### **LOS D**

Describes operations with control delay greater than 35 and up to 55 s/veh. At LOS D, the influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent.

#### **LOS E**

Describes operations with control delay greater than 55 and up to 80 s/veh. These high delay values generally indicate poor progression, long cycle lengths, and high v/c ratios. Individual cycle failures are frequent.

#### **LOS F**

Describes operations with control delay in excess of 80 s/veh. This level, considered unacceptable to most drivers, often occurs with over saturation, that is, when arrival flow rates exceed the capacity of lane groups. It may also occur at high v/c ratios with many individual cycle failures. Poor progression and long cycle lengths may also contribute significantly to high delay levels.

### **Level of Service (LOS) for Unsignalized TWSC Intersections**

Level of Service	Average Control Delay (s/veh)
A	0 - 10
B	> 10 - 15
C	> 15 - 25
D	> 25 - 35
E	> 35 - 50
F	> 50







# ACA Products HCM 6th TWSC

Initial AM  
1: Hwy 50 & ACA Access

## Intersection

Int Delay, s/veh 1.4

## Movement EBL EBT WBT WBR SBL SBR

Lane Configurations						
Traffic Vol, veh/h	5	76	81	21	19	5
Future Vol, veh/h	5	76	81	21	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	-	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	83	88	23	21	5

## Major/Minor Major1 Major2 Minor2

Conflicting Flow All	111	0	-	0	181	88
Stage 1	-	-	-	-	88	-
Stage 2	-	-	-	-	93	-
Critical Hdwy	4.12	-	-	-	6.9	6.7
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.218	-	-	-	3.95	3.75
Pot Cap-1 Maneuver	1479	-	-	-	710	853
Stage 1	-	-	-	-	828	-
Stage 2	-	-	-	-	823	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1479	-	-	-	708	853
Mov Cap-2 Maneuver	-	-	-	-	708	-
Stage 1	-	-	-	-	826	-
Stage 2	-	-	-	-	823	-

## Approach EB WB SB

HCM Control Delay, s	10.5	0	10.1
HCM LOS			B

## Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h)	1479	-	-	-	734
HCM Lane V/C Ratio	0.004	-	-	-	0.036
HCM Control Delay (s)	7.4	-	-	-	10.1
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

ACA Products  
HCM 6th TWSC

Initial PM  
1: Hwy 50 & ACA Access

Intersection

Int Delay, s/veh 1.1

Movement EBL EBT WBT WBR SBL SBR

Lane Configurations 

Traffic Vol, veh/h 5 107 118 19 21 5

Future Vol, veh/h 5 107 118 19 21 5

Conflicting Peds, #/hr 0 0 0 0 0 0

Sign Control Free Free Free Free Stop Stop

RT Channelized - None - None - None

Storage Length 550 - - 500 0 -

Veh in Median Storage, # 0 0 - 0 -

Grade, % - 0 0 - 0 -

Peak Hour Factor 92 92 92 92 92 92

Heavy Vehicles, % 2 2 2 2 50 50

Mvmt Flow 5 116 128 21 23 5

Major/Minor Major1 Major2 Minor2

Conflicting Flow All 149 0 - 0 254 128

Stage 1 - - - - 128 -

Stage 2 - - - - 126 -

Critical Hdwy 4.12 - - - 6.9 6.7

Critical Hdwy Stg 1 - - - - 5.9 -

Critical Hdwy Stg 2 - - - - 5.9 -

Follow-up Hdwy 2.218 - - - 3.95 3.75

Pot Cap-1 Maneuver 1432 - - - 642 808

Stage 1 - - - - 792 -

Stage 2 - - - - 794 -

Platoon blocked, % - - -

Mov Cap-1 Maneuver 1432 - - - 640 808

Mov Cap-2 Maneuver - - - - 640 -

Stage 1 - - - - 790 -

Stage 2 - - - - 794 -

Approach EB WB SB

HCM Control Delay, s 0.3 0 10.6

HCM LOS B

Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h) 1432 - - - 667

HCM Lane V/C Ratio 0.004 - - - 0.042

HCM Control Delay (s) 7.5 - - - 10.6

HCM Lane LOS A - - - B

HCM 95th %tile Q(veh) 0 - - - 0.1







# ACA Products HCM 6th TWSC

Highest Hiway AM  
1: Hwy 50 & ACA Access

## Intersection

Int Delay, s/veh 0.8

## Movement EBL EBT WBT WBR SBL SBR

Lane Configurations						
Traffic Vol, veh/h	5	197	194	21	19	5
Future Vol, veh/h	5	197	194	21	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	-	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	214	211	23	21	5

## Major/Minor Major1 Major2 Minor2

Conflicting Flow All	234	0	-	0	435	211
Stage 1	-	-	-	-	211	-
Stage 2	-	-	-	-	224	-
Critical Hdwy	4.12	-	-	-	6.9	6.7
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.218	-	-	-	3.95	3.75
Pot Cap-1 Maneuver	1333	-	-	-	498	722
Stage 1	-	-	-	-	722	-
Stage 2	-	-	-	-	712	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1333	-	-	-	496	722
Mov Cap-2 Maneuver	-	-	-	-	496	-
Stage 1	-	-	-	-	719	-
Stage 2	-	-	-	-	712	-

## Approach EB WB SB

HCM Control Delay, s	0.2	0	12.1
HCM LOS			B

## Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h)	1333	-	-	-	531
HCM Lane V/C Ratio	0.004	-	-	-	0.049
HCM Control Delay (s)	7.7	-	-	-	12.1
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2







# ACA Products HCM 6th TWSC

Highest Hiway PM  
1: Hwy 50 & ACA Access

## Intersection

Int Delay, s/veh 0.8

## Movement EBL EBT WBT WBR SBL SBR

Lane Configurations						
Traffic Vol, veh/h	5	190	175	19	21	5
Future Vol, veh/h	5	190	175	19	21	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Stop	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	-	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	207	190	21	23	5

## Major/Minor Major1 Major2 Minor2

Conflicting Flow All	211	0	-	0	407	190
Stage 1	-	-	-	-	190	-
Stage 2	-	-	-	-	217	-
Critical Hdwy	4.12	-	-	-	6.9	6.7
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.218	-	-	-	3.95	3.75
Pot Cap-1 Maneuver	1360	-	-	-	518	743
Stage 1	-	-	-	-	740	-
Stage 2	-	-	-	-	718	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1360	-	-	-	516	743
Mov Cap-2 Maneuver	-	-	-	-	516	-
Stage 1	-	-	-	-	737	-
Stage 2	-	-	-	-	718	-

## Approach EB WB SB

HCM Control Delay, s	0.2	0	11.9
HCM LOS			B

## Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h)	1360	-	-	-	548
HCM Lane V/C Ratio	0.004	-	-	-	0.052
HCM Control Delay (s)	7.7	-	-	-	11.9
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2







# ACA Products HCM 6th TWSC

Future AM  
1: Hwy 50 & ACA Access

## Intersection

Int Delay, s/veh 1.1

## Movement EBL EBT WBT WBR SBL SBR

Lane Configurations						
Traffic Vol, veh/h	5	100	106	21	19	5
Future Vol, veh/h	5	100	106	21	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Stop	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	-	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	109	115	23	21	5

## Major/Minor Major1 Major2 Minor2

Conflicting Flow All	138	0	-	0	234	115
Stage 1	-	-	-	-	115	-
Stage 2	-	-	-	-	119	-
Critical Hdwy	4.12	-	-	-	6.9	6.7
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.218	-	-	-	3.95	3.75
Pot Cap-1 Maneuver	1446	-	-	-	660	822
Stage 1	-	-	-	-	803	-
Stage 2	-	-	-	-	800	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1446	-	-	-	658	822
Mov Cap-2 Maneuver	-	-	-	-	658	-
Stage 1	-	-	-	-	801	-
Stage 2	-	-	-	-	800	-

## Approach EB WB SB

HCM Control Delay, s	10.4	0	10.4
HCM LOS	B		

## Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h)	1446	-	-	-	687
HCM Lane V/C Ratio	0.004	-	-	-	0.038
HCM Control Delay (s)	7.5	-	-	-	10.4
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

# ACA Products HCM 6th TWSC







Future PM  
1: Hwy 50 & ACA Access

## Intersection

Int Delay, s/veh 0.9

## Movement

	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	5	140	155	19	19	5
Future Vol, veh/h	5	140	155	19	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Stop	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	-	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	152	168	21	21	5

Lane Configurations						
Traffic Vol, veh/h	5	140	155	19	19	5
Future Vol, veh/h	5	140	155	19	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Stop	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	-	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	152	168	21	21	5

## Major/Minor

	Major1	Major2	Minor2
Conflicting Flow All	189	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.12	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.218	-	-
Pot Cap-1 Maneuver	1385	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	1385	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Conflicting Flow All	189	0	-	0	330	168
Stage 1	-	-	-	-	168	-
Stage 2	-	-	-	-	162	-
Critical Hdwy	4.12	-	-	-	6.9	6.7
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.218	-	-	-	3.95	3.75
Pot Cap-1 Maneuver	1385	-	-	-	577	765
Stage 1	-	-	-	-	758	-
Stage 2	-	-	-	-	763	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1385	-	-	-	575	765
Mov Cap-2 Maneuver	-	-	-	-	575	-
Stage 1	-	-	-	-	755	-
Stage 2	-	-	-	-	763	-

## Approach

	EB	WB	SB
HCM Control Delay, s	9.3	0	11.2
HCM LOS	A	B	B

HCM Control Delay, s	9.3	0	11.2
HCM LOS	A	B	B

## Minor Lane/Major Mvmt

	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1385	-	-	-	606
HCM Lane V/C Ratio	0.004	-	-	-	0.043
HCM Control Delay (s)	7.6	-	-	-	11.2
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

Capacity (veh/h)	1385	-	-	-	606
HCM Lane V/C Ratio	0.004	-	-	-	0.043
HCM Control Delay (s)	7.6	-	-	-	11.2
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.1

ACA Products  
HCM 6th TWSC

Future Highest Hiway AM  
1: Hwy 50 & ACA Access

Intersection

Int Delay, s/veh 0.6

Movement EBL EBT WBT WBR SBL SBR

Lane Configurations 

Traffic Vol, veh/h 5 258 254 21 19 5

Future Vol, veh/h 5 258 254 21 19 5

Conflicting Peds, #/hr 0 0 0 0 0 0

Sign Control Free Free Free Free Stop Stop

RT Channelized - Stop - None - None

Storage Length 550 - - 500 0 -

Veh in Median Storage, # 0 0 - 0 -

Grade, % - 0 0 - 0 -

Peak Hour Factor 92 92 92 92 92 92

Heavy Vehicles, % 2 2 2 2 50 50

Mvmt Flow 5 280 276 23 21 5

Major/Minor Major1 Major2 Minor2

Conflicting Flow All 299 0 - 0 566 276

Stage 1 - - - - 276 -

Stage 2 - - - - 290 -

Critical Hdwy 4.12 - - - 6.9 6.7

Critical Hdwy Stg 1 - - - - 5.9 -

Critical Hdwy Stg 2 - - - - 5.9 -

Follow-up Hdwy 2.218 - - - 3.95 3.75

Pot Cap-1 Maneuver 1262 - - - 413 661

Stage 1 - - - - 672 -

Stage 2 - - - - 662 -

Platoon blocked, % - - -

Mov Cap-1 Maneuver 1262 - - - 411 661

Mov Cap-2 Maneuver - - - - 411 -

Stage 1 - - - - 669 -

Stage 2 - - - - 662 -

Approach EB WB SB

HCM Control Delay, s 0.1 0 13.6

HCM LOS B

Minor Lane/Major Mvmt EBL EBT WBT WBR SBLn1

Capacity (veh/h) 1262 - - - 446

HCM Lane V/C Ratio 0.004 - - - 0.058

HCM Control Delay (s) 7.9 - - - 13.6

HCM Lane LOS A - - - B

HCM 95th %tile Q(veh) 0 - - - 0.2

# ACA Products HCM 6th TWSC







## Future Highest Hiway PM 1: Hwy 50 & ACA Access

### Intersection

Int Delay, s/veh 0.7

### Movement

	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	5	249	229	19	21	5
Future Vol, veh/h	5	249	229	19	21	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Stop	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	271	249	21	23	5

Lane Configurations						
Traffic Vol, veh/h	5	249	229	19	21	5
Future Vol, veh/h	5	249	229	19	21	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	Stop	-	None	-	None
Storage Length	550	-	-	500	0	-
Veh in Median Storage, #	0	0	-	0	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	50	50
Mvmt Flow	5	271	249	21	23	5

### Major/Minor

	Major1	Major2	Minor2
Conflicting Flow All	270	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.12	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.218	-	-
Pot Cap-1 Maneuver	1293	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %	-	-	-
Mov Cap-1 Maneuver	1293	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Conflicting Flow All	270	0	-	0	530	249
Stage 1	-	-	-	-	249	-
Stage 2	-	-	-	-	281	-
Critical Hdwy	4.12	-	-	-	6.9	6.7
Critical Hdwy Stg 1	-	-	-	-	5.9	-
Critical Hdwy Stg 2	-	-	-	-	5.9	-
Follow-up Hdwy	2.218	-	-	-	3.95	3.75
Pot Cap-1 Maneuver	1293	-	-	-	435	686
Stage 1	-	-	-	-	693	-
Stage 2	-	-	-	-	668	-
Platoon blocked, %	-	-	-	-	-	-
Mov Cap-1 Maneuver	1293	-	-	-	433	686
Mov Cap-2 Maneuver	-	-	-	-	433	-
Stage 1	-	-	-	-	690	-
Stage 2	-	-	-	-	668	-

### Approach

	EB	WB	SB
HCM Control Delay, s	0.2	0	13.2
HCM LOS			B

HCM Control Delay, s	0.2	0	13.2
HCM LOS			B

### Minor Lane/Major Mvmt

	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1293	-	-	-	466
HCM Lane V/C Ratio	0.004	-	-	-	-0.061
HCM Control Delay (s)	7.8	-	-	-	13.2
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2

Capacity (veh/h)	1293	-	-	-	466
HCM Lane V/C Ratio	0.004	-	-	-	-0.061
HCM Control Delay (s)	7.8	-	-	-	13.2
HCM Lane LOS	A	-	-	-	B
HCM 95th %tile Q(veh)	0	-	-	-	0.2

# STATE OF COLORADO

## DEPARTMENT OF TRANSPORTATION

### Region 5, Traffic and Safety Unit

3803 N. Main Avenue, Suite 100

Durango, CO 81301

(970) 385-8360

(970) 385-8361 Fax



## LATE FALL, WINTER AND SPRING SPECIAL PROVISIONS FOR ACCESS CONSTRUCTION AND UTILITY INSTALLATIONS

It's that time of year again when work within the Right of Way (ROW) becomes a special concern. Due to Southwest Colorado's unpredictable weather, utility work in the ROW can create several types of hazards for the traveling public, contractors and their personnel. The condition of the highway can change quickly. Mud tracked onto the highway by equipment, or ice and snowpack are just a few of the conditions that make the roadway more hazardous for all concerned. The terrain within the ROW must be kept clear of hazards as well. Holes, trenches, equipment and materials can make the terrain "unrecoverable" for a driver should his/her vehicle leave the highway.

**Activities must be shut down when the roadway is other than dry.** The use of frozen materials for backfilling will only lead to settlement. The contractor must make extra effort to compact the excavation. In the spring, any settlement of backfill shall be repaired. The re-vegetation shall take place yet this fall or early next spring.



## Clearances Information Summary

**PURPOSE** - This summary is intended to inform entities external to CDOT that may be entering the state highway right-of-way to perform work related to their own facilities (such as Utility, Special Use or Access Permittees), about some of the more commonly encountered environmental permits/clearances that may apply to their activities. This listing is not all-inclusive - additional environmental or cultural resource permits/clearances may be required in certain instances. Appropriate local, state and federal agencies should be contacted for additional information if there is any uncertainty about what permits/clearances are required for a specific activity. **IMPORTANT – Please Review The Following Information Carefully – Failure to Comply With Regulatory Requirements May Result In Suspension or Revocation of Your CDOT Permit, Or Enforcement Actions By Other Agencies.**

**CLEARANCE CONTACTS** - As indicated in the permit/clearance descriptions listed below, the following individuals or agencies may be contacted for additional information:

- Colorado Department of Public Health and Environment (CDPHE): General Information – (303) 692-2035  
Water Quality Control Division (WQCD): (303) 692-3500  
Environmental Permitting Website <https://www.colorado.gov/pacific/cdphe/all-permits>
- CDOT Water Quality Program Manager: (303) 757-9343 <https://www.codot.gov/programs/environmental/water-quality>
- CDOT Asbestos Project Manager: Phil Kangas, (303) 512-5519
- Colorado Office of Archaeology and Historic Preservation: (303) 866-5216
- U.S. Army Corps of Engineers, District Regulatory Offices: Omaha District (NE CO), Denver Office (303) 979-4120  
<http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/Colorado.aspx>
- Sacramento Dist. (Western CO), Grand Junction Office (970) 243-1199  
<http://www.spk.usace.army.mil/Missions/Regulatory.aspx> Albuquerque
- District (SE CO), Pueblo Office (719)-543-9459  
<http://www.spa.usace.army.mil/Missions/RegulatoryProgramandPermits.aspx>
- CDOT Utilities, Special Use and Access Permitting: (303) 757-9654 <https://www.codot.gov/business/permits>

**Wildlife Resources** - Disturbance of wildlife shall be avoided to the maximum extent practicable. Entry into areas of known or suspected threatened or endangered species habitat will require special authorization from the CDOT permitting office. If any threatened or endangered species are encountered during the progress of the permitted work, work in the subject area shall be halted and the CDOT Regional Permitting Office and Region Planning and Environmental Manager shall be contacted immediately. Authorization must be provided by CDOT prior to the continuation of work. Information about threatened or endangered species may be obtained from the CDOT website, <http://www.codot.gov/programs/environmental/wildlife/guidelines>, or the Colorado Parks and Wildlife (CPW) website, <http://www.cpw.state.co.us/learn/Pages/SOC-ThreatenedEndangeredList.aspx>. Additional guidance may be provided by the appropriate Region Planning and Environmental Manager (RPEM).

**Cultural Resources** - The applicant must request a file search of the permit area through the Colorado Office of Archaeology and Historic Preservation (OAHP), Denver, to ascertain if historic or archaeological resources have previously been identified (<http://www.historycolorado.org/oaHP/file-search>). Inventory of the permit area by a qualified cultural resources specialist may be necessary, per the recommendation of CDOT. If archaeological sites/artifacts or historic resources are known to exist prior to the initiation of the permitted work or are encountered as the project progresses, all work in the subject area shall be halted and the CDOT Regional Permitting Office and Region Planning and Environmental Manager shall be contacted immediately. Authorization must be provided by CDOT prior to the continuation of work. Additional guidance may be provided by the Regional Permitting Office and RPEM. **Contact Information:** Contact the OAHP for file searches at (303) 866-5216.

**Paleontological Resources** - The applicant must request a fossil locality file search through the University of Colorado Museum, Boulder (<https://cumuseum.colorado.edu/research/paleontology/vertebrates/policies>), and the Denver Museum of Nature and Science (<http://www.dmns.org/science/collections/earth-science-collections/>) to ascertain if paleontological resources have been previously identified in or near the permit area. Inventory of the permit area by a qualified paleontologist may be necessary, per the recommendation of CDOT. If fossils are encountered during the permitted work, all work in the subject area shall be halted and the CDOT Regional Permitting Office and Region Planning and Environmental Manager shall be contacted immediately. Authorization must be provided by CDOT prior to the continuation of work. Additional guidance may be provided by the Regional Permitting Office in the Permit Special Provisions. **Contact Information:** See the museum websites listed above for Paleontological Collections Manager contact information. Contact the CDOT Paleontologist for further information at [nicole.peavey@state.co.us](mailto:nicole.peavey@state.co.us) or (303) 7579632. The CDOT Paleontologist will not conduct a comprehensive file search independently of the museums.

**Hazardous Materials, Solid Waste** - The Solid Wastes Disposal Sites and Facilities Act C.R.S. 30-20-100, et al, and Regulations Pertaining to Solid Waste Disposal Sites and Facilities (6 CCR 1007-2), prohibit solid waste disposal without an approved Certificate of Designation (a landfill permit). The Colorado Hazardous Waste Act C.R.S. 25-15-301 et al, and the Colorado Hazardous Waste Regulations (6 CCR 1007-3) prohibit the transfer, storage or disposal (TSD) of hazardous waste except at permitted TSD sites. There are no permitted landfills or TSD sites within the State Highway Right of Way. Therefore, all solid or hazardous wastes that might be generated by the activities of entities entering the State Highway Right of Way must be removed from the ROW and disposed of at a permitted facility or designated collection point (e.g., for solid waste, a utility or construction company's own dumpster). If pre-existing solid waste or hazardous materials contamination (including oil or petroleum contaminated soil, asbestos, chemicals, mine tailings, etc.) is encountered during the performance of work, the permittee shall halt work in the affected area and immediately contact the CDOT Regional Permitting Office for direction as to how to proceed. **Contact Information:** Theresa Santangelo-Dreiling, CDOT Hazardous Materials Management Supervisor: (303) 512-5524.

**Asbestos Containing Materials, Asbestos Contaminated Soil** - All work on asbestos containing materials (ACM) must comply with the applicable requirements of the CDPHE Air Pollution Control Division's (APCD) Regulation 8. Disposal of ACM, and work done in asbestos-contaminated soil, must comply with the CDPHE Hazardous Materials and Waste Management Division's (HMWMD) Solid

<p><b>Waste Regulations.</b> The application for any CDOT permit must specifically identify any ACM involved in the work for which the permit is required. Requirements may be specified in the permit special provisions. <b>Contact Information:</b> CDPHE APCD and HMWMD Regulations can be accessed via the CDPHE Environmental Permitting Website listed above. Additional information <b>concerning clearance on CDOT projects</b> is available from the CDOT Asbestos Project Manager (303) 5125519, or Theresa Santangelo-Dreiling, Hazardous Materials Management Supervisor: (303) 512-5524.</p>
<p><b>Transportation of Hazardous Materials</b> - No person may offer or accept a hazardous material for transportation in commerce unless that person is registered in conformance with the United States Department of Transportation regulations at 49 CFR, Part 171. The hazardous material must be properly classed, described, packaged, marked, labeled, and in condition for shipment as required or authorized by applicable requirements, or an exemption, approval or registration has been issued. Vehicles requiring a placard, must obtain authorization and a State HAZMAT Permit from the Colorado Public Utilities Commission. <b>Contact Information:</b> For authorization and more info call the Federal Motor Safety Carrier Administration, US DOT for inter- and intra-state HAZMAT Registration (303) 969-6748. Colorado Public Utilities Commission: (303) 894-2868.</p>
<p><b>Discharge of Dredged or Fill Material – 404 Permits Administered By the U.S. Army Corps of Engineers, and Section 401 Water Quality Certifications Issued by the CDPHE WQCD</b> - Corps of Engineers 404 permits are required for the discharge of dredged or fill materials into waters of the United States, including wetlands. There are various types of 404 permits, including nationwide permits, which are issued for activities with relatively minor impacts. For example, there is a nationwide permit for utility line activities (nwp #12). Depending upon the specific circumstances, it is possible that either a "general" or "individual" 404 permit would be required. If an individual 404 permit is required, section 401 water quality certification from the CDPHE WQCD is also required. Contact the appropriate Corps District Regulatory Office for information about what type of 404 permit may be required (contact information above). Contact the CDPHE Water Quality Control Division at (303) 692-3500.</p>
<p><b>Working on or in any stream or its bank</b> - In order to protect and preserve the state's fish and wildlife resources from actions that may obstruct, diminish, destroy, change, modify, or vary a natural existing stream or its banks or tributaries, it may be necessary to obtain a Senate Bill 40 certification from the Colorado Department of Natural Resources. A stream is defined as 1) represented by a solid blue line on USGS 7.5' quadrangle maps; and/or 2) intermittent streams providing live water beneficial to fish and wildlife; and/or 3) segments of streams supporting 25% or more cover within 100 yards upstream or downstream of the project; and/or 4) segments of streams having wetlands present within 200 yards upstream or downstream of the project measured by valley length. The CPW application, as per guidelines agreed upon by CDOT and CPW, can be accessed at <a href="https://www.codot.gov/programs/environmental/wildlife/guidelines">https://www.codot.gov/programs/environmental/wildlife/guidelines</a>.</p>
<p><b>Stormwater Construction Permit (SCP) and Stormwater Discharge From Industrial Facilities</b> - Discharges of stormwater runoff from construction sites disturbing one acre or more - or certain types of industrial facilities, such as concrete batch plants - require a CDPS Stormwater Permit. <b>Contact Information:</b> Contact the CDPHE Water Quality Control Division at (303) 692-3500. Website: <a href="https://www.colorado.gov/pacific/cdphe/wq-construction-general-permits">https://www.colorado.gov/pacific/cdphe/wq-construction-general-permits</a> and <a href="https://colorado.gov/pacific/cdphe/wq-commerce-and-industry-permits">https://colorado.gov/pacific/cdphe/wq-commerce-and-industry-permits</a>.</p>
<p><b>Construction Dewatering (Discharge or Infiltration) and Remediation Activities</b> - Discharges of water encountered during excavation or work in wet areas may require a Construction Dewatering or Remediation Activities Discharge Permit. <b>Contact Information:</b> For Construction Dewatering and Remediation Activities Discharge Permits, contact the CDPHE WQCD at (303) 6923500. For Applications and Instructions (CDPHE website): <a href="https://www.colorado.gov/pacific/cdphe/wq-construction-general-permits">https://www.colorado.gov/pacific/cdphe/wq-construction-general-permits</a>.</p>
<p><b>Municipal Separate Storm Sewer System (MS4) Discharge Permit</b> - Discharges from the storm sewer systems of larger municipalities, and from the CDOT highway drainage system that lies within those municipalities, are subject to MS4 Permits issued by the CDPHE WQCD. For facilities that lie within the boundaries of a municipality that is subject to an MS4 permit, the owner of such facility should contact the municipality regarding stormwater related clearances that may have been established under that municipality's MS4 permit. All discharges to the CDOT highway drainage system or within the Right of Way (ROW) must comply with the applicable provisions of the Colorado Water Quality Control Act, the Water Quality Control Commission (WQCC) Regulations (<a href="https://www.colorado.gov/pacific/cdphe/wqcc-regulations-and-policies-and-water-quality-statutes">https://www.colorado.gov/pacific/cdphe/wqcc-regulations-and-policies-and-water-quality-statutes</a>) and the CDOT MS4 Permit # COS000005 (<a href="https://www.codot.gov/programs/environmental/water-quality/documents">https://www.codot.gov/programs/environmental/water-quality/documents</a>). Discharges are subject to inspection by CDOT and CDPHE. Contact the CDPHE Water Quality Control Division at (303) 692-3500 for a listing of municipalities required to obtain MS4 Permits, or go to <a href="https://www.colorado.gov/pacific/cdphe/wq-municipal-ms4-permits">https://www.colorado.gov/pacific/cdphe/wq-municipal-ms4-permits</a>. For CDOT-related MS4 regulations, go to: <a href="https://www.codot.gov/programs/environmental/water-quality/stormwater-programs.html">https://www.codot.gov/programs/environmental/water-quality/stormwater-programs.html</a>.</p>
<p><b>General Prohibition – Discharges</b> - All discharges are subject to the provisions of the Colorado Water Quality Control Act and the Colorado Discharge Permit Regulations. Prohibited discharges include, but are not limited to, substances such as wash water, paint, automotive fluids, solvents, oils or soaps and sediment. <b>Contact Information:</b> Contact the CDPHE Water Quality Control Division at (303) 692-3500.</p>
<p><b>General Authorization - Allowable Non-Stormwater Discharges</b> - Unless otherwise identified by CDOT or the WQCD as significant sources of pollutants to the waters of the State, the following discharges to stormwater systems are allowed without a Colorado Discharge Permit System permit: landscape irrigation, diverted stream flows, uncontaminated ground water infiltration to separate storm sewers, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, uncontaminated springs, footing drains, water line flushing, flows from riparian habitats and wetlands, and flow from firefighting activities. Allowable non-stormwater discharges can be found under Illicit Discharge PDD at: <a href="https://www.codot.gov/programs/environmental/water-quality/stormwater-programs.html">https://www.codot.gov/programs/environmental/water-quality/stormwater-programs.html</a>. <b>Contact Information:</b> The CDPHE Water Quality Control Division (telephone #'s listed above).</p>
<p><b>Erosion and Sediment Control Practices</b> - For activities requiring a Stormwater Construction Permit, erosion control requirements will be specified in that permit. In situations where a stormwater permit is not required, all reasonable measures should be taken to minimize erosion and sedimentation according to CDOT Standard Specifications 107.25, 208, 213 and 216 (<a href="https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-specs-2011-specs-book">https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-specs-2011-specs-book</a>). All disturbances require a stabilization plan, native seeding or landscape design plan according to applicable CDOT Standard Specifications 212-217 and 623. The CDOT Erosion Control and Stormwater Quality Guide (available from the Bid Plans Office at (303) 757-9313) should be used to design erosion controls and restore disturbed vegetation.</p>

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**Disposal of Drilling Fluids** - Drilling fluids used in operations such as Horizontal Directional Drilling may be classified as “discharges” of Way, and disposed of at permitted facilities that specifically accept such wastes. Disposal of drilling fluids into storm drains, storm sewers, roadside ditches or any other type of man-made or natural waterway is prohibited by Water Quality Control and/or Solid Waste regulations. Small quantities of drilling fluid solids (less than 1 cubic yard of solids) may be left on-site after either being separated from fluids or after infiltration of the water, provided: 1) the drilling fluid consists of only water and bentonite clay, or, if required for proper drilling properties, small quantities of polymer additives that are approved for use in drinking water well drilling; 2) the solids are fully contained in a pit, and are not likely to pose a nuisance to future work in the area, 3) the solids are covered and the area restored as required by CDOT permit requirements (Utility, Special Use, or Access Permits, etc.). **Contact Information:** Contact CDPHE (telephone #'s listed above).

**Noxious Weeds and Invasive Species Management Plan** – Noxious Weeds and Invasive Species guidance can be found by contacting the Colorado Department of Agriculture (<https://www.colorado.gov/pacific/agconservation/noxiousweeds>) and the Colorado Division of Parks and Wildlife (<http://cpw.state.co.us/aboutus/Pages/RS-NoxiousWeeds.aspx>). In either case, management plans involving the control of noxious weeds associated with the permitted activity and cleaning of equipment will be required.

**Concrete Washout** - Waste generated from concrete activities shall NOT be allowed to flow into the drainage ways, inlets, receiving waters, or in the CDOT ROW. Concrete waste shall be placed in a temporary concrete washout facility and must be located a minimum of 50 feet from state waters, drainageways, and inlets. Concrete washout shall only be performed as specified by the CDOT Environmental Program and shall be in accordance to CDOT specifications and guidelines. **Contact Information:** Contact CDPHE or find additional information on the CDOT website: <https://www.codot.gov/business/designsupport/2011-construction-specifications/2011-Specs> and refer to the specifications and their revisions for sections 101, 107 and 208.

**Spill Reporting** - Spills shall be contained and cleaned up as soon as possible. Spills shall NOT be washed down into the storm drain or buried. All spills shall be reported to the CDOT Illicit Discharge Hotline at (303) 512-4446 (4H20), as well as the Regional Permitting Office and Regional Maintenance Supervisor. Spills on highways, into waterways, any spill in the highway right-of-way exceeding 25 gallons, or that may otherwise present an immediate danger to the public shall be reported by calling 911, and shall also be reported to the CDPHE at 1-877-518-5608. More information can be found at <https://www.colorado.gov/pacific/cdphe/emergencyreporting-line>.

**About This Form** - Questions or comments about this Information Summary may be directed to Dan Roussin, Program Administrator, CDOT Access Management Unit, at (303) 757-9841, [daniel.roussin@state.co.us](mailto:daniel.roussin@state.co.us)



### What is stormwater runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like roads and sidewalks prevent stormwater from naturally soaking into the ground

### Why is stormwater runoff a problem?

Stormwater can pick up debris, chemicals, dirt and other pollutants and flow into CDOT's storm drain system or directly into a stream, river, lake, wetland or reservoir. Anything that enters CDOT's storm drain system is discharged untreated into the waterways we use for fishing, swimming, and providing drinking water.



**Dredged spoil, dirt, slurry, solid waste, incinerator residue, sewage, sewage sludge, garbage, trash, chemical waste, biological nutrient, biological material, radioactive material, heat, pH, wrecked or discarded equipment, rock, sand, any industrial, municipal, or agricultural waste.**

### Tips for Reporting an Illicit Discharge

Call the illicit discharge hotline at **(303) 512-4426**. From a safe distance try to estimate the amount of the discharge.

Identify characteristics of the discharge (color, odor, algae, etc.).

Obtain information on the vehicle dumping the waste (if applicable).

Do not approach!

Call \*CSP for illicit dumping.

If possible, take a photo, record a license plate.

**REMEMBER:**

**Never get too close to the illicit discharge, it may be dangerous!!!**

For more information on CDOT Utility Permits:

<https://www.codot.gov/business/permits/utilities/specialuse>

For more information on CDOT Access Permits:

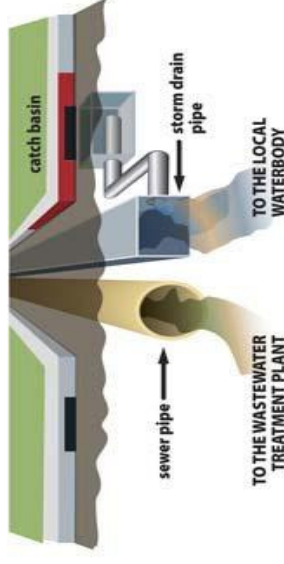
<https://www.codot.gov/business/permits/access/permits>

For more information on CDOT Water Quality Program:

Water Quality Program Manager  
4201 E. Arkansas Ave.  
Shumate Building  
Denver, Colorado 80222  
303-757-9343

## Water Quality Program Industrial Facilities Program

CDOT has a Municipal Separate Storm Sewer System permit, otherwise known as (MS4) from the Colorado Department of Public Health and Environment. The permit states that only stormwater can be discharged from CDOT's storm drain system



*As part of the permit, CDOT has several different programs to prevent pollutants from entering into the storm drain system:*

- Construction Site Program
- New Development Redevelopment Program
- Illicit Discharge Program
- Industrial Facilities Program
- Public Education and Outreach Program
- Pollution Prevention and Good Housekeeping Program
- Wet Weather Monitoring Program



### Industrial Facilities Program Elements:

1. Educate and outreach to owners or operators that have potential to contribute substantial pollutant to water.
2. Report and include information on discharge and water quality concerns. Provide written notification within 15 days of discovery to CDPHE.
3. Submit an annual report to CDPHE containing the number of informational brochures distributed; name and title of each individual trained.

### Education

There are instances when a utility company or other entity doing work in the state highway right-of-way will require some type of environmental permit or clearance for that work. CDOT has put together an Environmental Clearances Information Summary for those applying for a CDOT Utility and Special Use Permit or Access Permit to obtain all required clearances. This fact sheet is given to each permittee and is available at:

<http://www.coloradodot.info/programs/environmental/resources/guidance-standards/Environmental%20Clearances%20Info%20Summary.pdf>

CDOT defines a utility, or utility facility as any privately, publicly, or cooperatively owned line, facility, or system producing, transmitting or distributing the following:

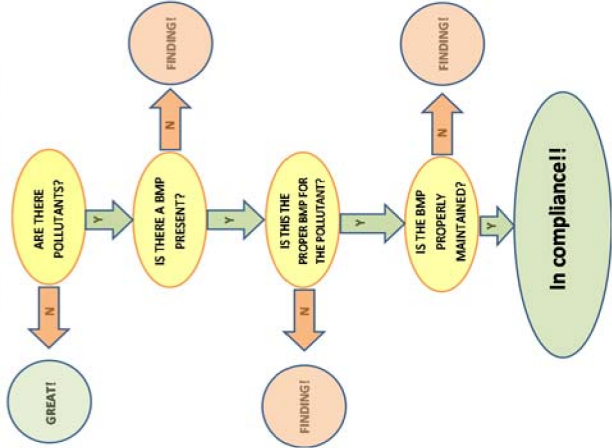
- ✓ Communications
- ✓ Cable television
- ✓ Power
- ✓ Electricity
- ✓ Light
- ✓ Heat Gas
- ✓ Oil
- ✓ Crude Products
- ✓ Water
- ✓ Stream
- ✓ Waste
- ✓ Stormwater not connected with highway drainage
- ✓ Similar Commodity



### Control Measures for Industrial Facilities

Industrial facilities can use control measures (CM) otherwise known as Best Management Practices (BMP) during the construction of a facility and when operating the facility. Control measures are schedules of activities, maintenance procedures, and other management practices to prevent and reduce pollution entering into CDOT's storm drain system. Control Measures also include treatment, operating procedures, and practices to control site run off which can include structural and non-structural controls.

### THE GAUNTLET



# COLORADO DEPARTMENT OF TRANSPORTATION

## STATE HIGHWAY ACCESS PERMIT APPLICATION

Issuing authority application  
acceptance date:

**Instructions:**

**Please print  
or type**

- Contact the Colorado Department of Transportation (CDOT) or your local government to determine your issuing authority.
- Contact the issuing authority to determine what plans and other documents are required to be submitted with your application.
- Complete this form (some questions may not apply to you) and attach all necessary documents and Submit it to the issuing authority.
- Submit an application for each access affected.
- If you have any questions contact the issuing authority.
- For additional information see CDOT's Access Management website at <https://www.codot.gov/business/permits/accesspermits>

1) Property owner (Permittee) <b>FRANK HOLMAN</b>		2) Applicant or Agent for permittee (if different from property owner) <b>ACA PRODUCTS, INC</b>	
Street address <b>14100 COUNTY ROAD 140</b>		Mailing address <b>PO BOX 1887</b>	
City, state & zip <b>SALIDA, CO 81201</b>	Phone # <b>(719) 239-1894</b>	City, state & zip <b>BUENA VISTA, CO 81211</b>	Phone # (required) <b>(719) 395-3790</b>
E-mail address <b>FHOLMAN51@OUTLOOK.COM</b>		E-mail address if available <b>BBENNETTS@ACAPRODUCTS.COM</b>	
3) Address of property to be served by permit (required) <b>N/A</b>			
4) Legal description of property: If within jurisdictional limits of Municipality, city and/or County, which one? county <b>CHAFFEE</b> subdivision _____ block _____ lot _____ section <b>35 &amp; 36</b> township <b>50N</b> range <b>7 E. NEW MEX</b>			
5) What State Highway are you requesting access from? <b>HIGHWAY 50</b>		6) What side of the highway? <input checked="" type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W	
7) How many feet is the proposed access from the nearest mile post? <b>2006</b> feet <input type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input checked="" type="checkbox"/> W from: <b>MMP 213</b>		How many feet is the proposed access from the nearest cross street? <b>2112</b> feet <input type="checkbox"/> N <input type="checkbox"/> S <input checked="" type="checkbox"/> E <input type="checkbox"/> W from: <b>COUNTY ROAD 219</b>	
8) What is the approximate date you intend to begin construction? <b>4/1/2020</b>			
9) Check here if you are requesting a: <input checked="" type="checkbox"/> new access <input type="checkbox"/> temporary access (duration anticipated: _____) <input type="checkbox"/> improvement to existing access <input type="checkbox"/> change in access use <input type="checkbox"/> removal of access <input type="checkbox"/> relocation of an existing access (provide detail)			
10) Provide existing property use <b>AGRICULTURAL</b>			
11) Do you have knowledge of any State Highway access permits serving this property, or adjacent properties in which you have a property interest? <input checked="" type="checkbox"/> no <input type="checkbox"/> yes, if yes - what are the permit number(s) and provide copies: _____ and/or, permit date: _____			
12) Does the property owner own or have any interests in any adjacent property? <input checked="" type="checkbox"/> no <input type="checkbox"/> yes, if yes - please describe: _____			
13) Are there other existing or dedicated public streets, roads, highways or access easements bordering or within the property? <input checked="" type="checkbox"/> no <input type="checkbox"/> yes, if yes - list them on your plans and indicate the proposed and existing access points.			
14) If you are requesting agricultural field access - how many acres will the access serve? <b>NO</b>			
15) If you are requesting commercial or industrial access please indicate the types and number of businesses and provide the floor area square footage of each.			
business/land use	square footage	business	square footage
<b>SAND &amp; GRAVEL PIT</b>			
16) If you are requesting residential development access, what is the type (single family, apartment, townhouse) and number of units?			
type	number of units	type	number of units
<b>N/A</b>			
17) Provide the following vehicle count estimates for vehicles that will use the access. Leaving the property then returning is two counts.			
Indicate if your counts are <input type="checkbox"/> peak hour volumes or <input checked="" type="checkbox"/> average daily volumes.		# of passenger cars and light trucks at peak hour volumes <b>108</b>	# of multi unit trucks at peak hour volumes <b>120</b>
# of single unit vehicles in excess of 30 ft. <b>40</b>	# of farm vehicles (field equipment) <b>0</b>	<b>Total count of all vehicles</b> <b>268</b>	

Previous editions are obsolete and may not be used

18) Check with the issuing authority to determine which of the following documents are required to complete the review of your application.

- |  |   |
|--|---|
| a) Property map indicating other access, bordering roads and streets.                                      | e) Subdivision, zoning, or development plan.      |
| b) Highway and driveway plan profile.  | f) Proposed access design.                        |
| c) Drainage plan showing impact to the highway right-of-way.   | g) Parcel and ownership maps including easements. |
| d) Map and letters detailing utility locations before and after development in and along the right-of-way. | h) Traffic studies.                               |
|  | i) Proof of ownership.                            |

1- It is the applicant's responsibility to contact appropriate agencies and obtain all environmental clearances that apply to their activities. Such clearances may include Corps of Engineers 404 Permits or Colorado Discharge Permit System permits, or ecological, archeological, historical or cultural resource clearances. The CDOT Environmental Clearances Information Summary presents contact information for agencies administering certain clearances, information about prohibited discharges, and may be obtained from Regional CDOT Utility/Special Use Permit offices or accessed via the CDOT Planning/Construction-Environmental-Guidance webpage: <https://www.codot.gov/programs/environmental/resources/guidance-standards/environmental-clearances-info-summary-august-2017/view>

2- All workers within the State Highway right of way shall comply with their employer's safety and health policies/procedures, and all applicable U.S. Occupational Safety and Health Administration (OSHA) regulations - including, but not limited to the applicable sections of 29 CFR Part 1910 - Occupational Safety and Health Standards and 29 CFR Part 1926 - Safety and Health Regulations for Construction.

Personal protective equipment (e.g. head protection, footwear, high visibility apparel, safety glasses, hearing protection, respirators, gloves, etc.) shall be worn as appropriate for the work being performed, and as specified in regulation. At a minimum, all workers in the State Highway right of way, except when in their vehicles, shall wear the following personal protective equipment: High visibility apparel as specified in the Traffic Control provisions of the documentation accompanying the Notice to Proceed related to this permit (at a minimum, ANSI/ISEA 107-1999, class 2); head protection that complies with the ANSI Z89.1-1997 standard; and at all construction sites or whenever there is danger of injury to feet, workers shall comply with OSHA's PPE requirements for foot protection per 29 CFR 1910.136, 1926.95, and 1926.96. If required, such footwear shall meet the requirements of ANSI Z41-1999.



Where any of the above-referenced ANSI standards have been revised, the most recent version of the standard shall apply.

3- The Permittee is responsible for complying with the Revised Guidelines that have been adopted by the Access Board under the American Disabilities Act (ADA). These guidelines define traversable slope requirements and prescribe the use of a defined pattern of truncated domes as detectable warnings at street crossings. The new Standards Plans and can be found on the Design and Construction Project Support web page at: <https://www.codot.gov/business/civilrights/ada/resources-engineers>

If an access permit is issued to you, it will state the terms and conditions for its use. Any changes in the use of the permitted access not consistent with the terms and conditions listed on the permit may be considered a violation of the permit.

**The applicant declares under penalty of perjury in the second degree, and any other applicable state or federal laws, that all information provided on this form and submitted attachments are to the best of their knowledge true and complete.**

**I understand receipt of an access permit does not constitute permission to start access construction work.**

Applicant or Agent for Permittee signature 	Print name BLAKE BENNETTS	Date 2/10/20
If the applicant is not the owner of the property, we require this application also to be signed by the property owner or their legally authorized representative (or other acceptable written evidence). This signature shall constitute agreement with this application by all owners-of-interest unless stated in writing. If a permit is issued, the property owner, in most cases, will be listed as the permittee.		
Property owner signature 	Print name FRANK HOLMAN	Date 2/10/20



"ASPHALT, CONCRETE, & AGGREGATES"

P. O. Box 1887 • 702 Gregg Drive • Buena Vista CO 81211

Phone: (719) 395-3790 Fax: (719) 395-3794

## *Exhibit 2—Highway Access Permit Design Plans*

GENERAL NOTES

- FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:

TACK COAT DILUTED EMULSIFIED ASPHALT

EMULSIFIED ASPHALT (PRIME COAT)

HOT MIX ASPHALT

● 0.1 GALS./SQ. YD.(DILUTED)

● 0.3 GALS./SQ. YD.

● 110 LBS./SQ. YD./INCH
- A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED TO IMPROVE BOND AT THE FOLLOWING LOCATIONS:

– BEFORE PLACING NEW PAVEMENT OVER EXISTING PAVEMENT OR BASE COURSE MATERIAL.

– ALONG THE FACE OF ALL SURFACES AGAINST WHICH ASPHALT WILL BE PLACED, AND

– BETWEEN PAVEMENT COURSES.
- DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER. RATES OF APPLICATION SHALL BE AS DETERMINED BY THE ENGINEER AT THE TIME OF APPLICATION.
- WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
- THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS PAYER:

– A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH.

– SHORT SKI OR SHOE.

– 1500 FEET OF CONTROL LINE AND STAKES.
- ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- PRIOR TO PLACING BITUMINOUS PAVEMENT, THE PAVED SURFACE SHALL BE SWEEPED AND CLEANED.
- THE CONTRACTOR MAY USE AN EXPOSED LONGITUDINAL JOINT FOR A MAXIMUM OF ONE DAY. THE JOINT WILL CONSIST OF A VERTICAL FACE 1 INCH DEEP, AND AT THE BOTTOM OF THE VERTICAL FACE, A 3:1 SLOPE TO THE EXISTING PAVEMENT (OR SUBGRADE). THE MAXIMUM DEPTH OF THE 3:1 SLOPE SHALL BE 2 INCHES. AT THE END OF ONE DAY, PLACEMENT OF HMA ON THE ADJACENT LANE IS REQUIRED.
- ALL CONCRETE SHALL BE MANUFACTURED ACCORDING TO THE REQUIREMENTS OF TABLE 601-2 IN SECTION 601.04 FOR A CLASS 2 SULFATE EXPOSURE LEVEL.
- WHERE NEW PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE CUT TO A NEAT VERTICAL LINE USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER.
- NO EXCAVATION WORK SHALL BEGIN UNTIL THE CONTRACTOR HAS OBTAINED, AT HIS EXPENSE, ANY PERMITS REQUIRED TO PERFORM THE PROPOSED WORK.
- DURING HMA PAVING OPERATIONS, TEMPORARY PAVEMENT MARKINGS SHALL BE PROVIDED AND PLACED/REMOVED BY THE CONTRACTOR AT THE END OF EACH DAY. LOCATING, ALIGNING, AND PLACING SHALL BE DONE UNDER THE SUPERVISION OF THE TRAFFIC CONTROL SUPERVISOR AND IN ACCORDANCE WITH STANDARD PLANS S-627-1.
- DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:

– FULL DEPTH OF ALL EMBANKMENTS:

– BASES OF CUTS AND FILLS 6 INCHES.

– FULL DEPTH OF EMBANKMENT SECTIONS USED FOR DITCHES AND CHANNEL CHANGES.

– FULL DEPTH OF STRUCTURE BACKFILL MATERIAL.
- TYPE OF COMPACTION FOR EMBANKMENT FOR THIS PROJECT WILL BE AASHTO T-99. WATER FOR COMPACTION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN DRAINAGE DURING THE WORK.
- THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPES AS SHOWN ON THE PLANS AND CROSS-SECTIONS. ANY DISTURBANCE BEYOND THOSE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION ACTIVITIES IN ADDITION TO NORMAL CONSTRUCTION PROCEDURE SHALL INCLUDE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION DESIGNATED TO REMAIN FROM DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR THAT ARE NOT DESIGNATED FOR RELOCATION, SHALL BE RESET AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THESE MONUMENTS IN THE FIELD PRIOR TO CONSTRUCTION. SEE TABULATION OF SURVEY.

DRAINAGE GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING AND DIVERSION INCLUDING BUT NOT LIMITED TO LIVE STREAM FLOW AND GROUNDWATER, IF NEEDED, AND OBTAINING THE APPLICABLE DEWATERING PERMIT FOR CONSTRUCTION AT THE SITE. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS THEREIN CONTAINED.
- ALL STRUCTURE INLET AND OUTLET ELEVATIONS HAVE BEEN APPROXIMATED USING DESIGN SURVEY ELEVATIONS. ADJUSTMENTS MAY BE NECESSARY DURING CONSTRUCTION. ALL CHANGES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

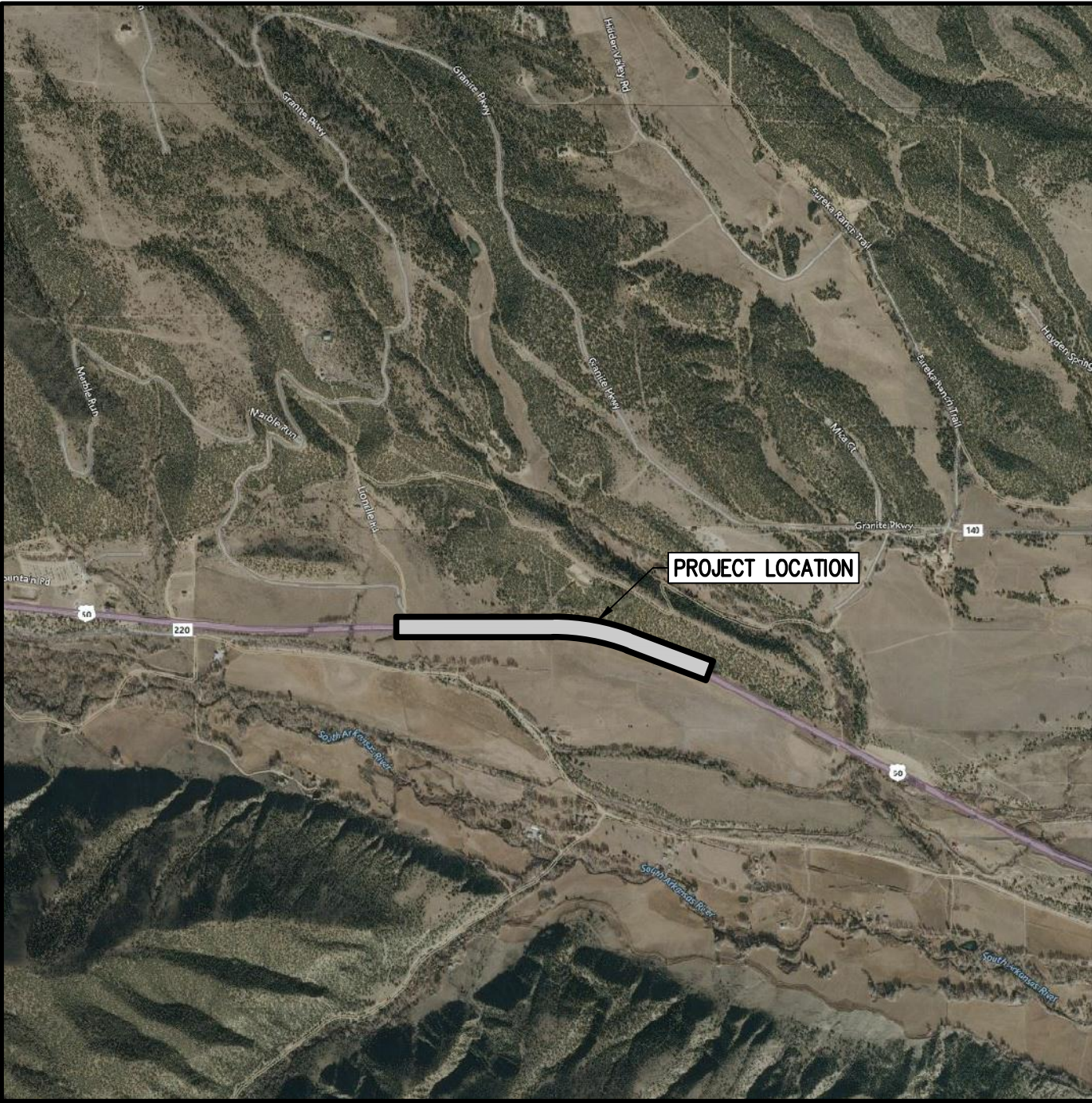
EROSION CONTROL NOTES:

- TO THE EXTENT PRACTICABLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO GRADING ACTIVITIES. AT ALL TIMES DURING PROJECT CONSTRUCTION, ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO PREVENT ACCELERATED EROSION ON THE SITE AND ON ANY ADJACENT PROPERTIES.
- ALL TOPSOIL, WHERE PHYSICALLY PRACTICABLE, SHALL BE SALVAGED AND NO TOPSOIL SHALL BE REMOVED FROM SITE EXCEPT AS SET FORTH IN THE APPROVED PLANS. TOPSOIL AND OVERBURDEN SHALL BE SEGREGATED AND STOCKPILED SEPARATELY. TOPSOIL AND OVERBURDEN SHALL BE REDISTRIBUTED WITHIN THE GRADED AREA AFTER ROUGH GRADING TO PROVIDE A SUITABLE BASE FOR AREAS WHICH WILL BE SEEDD AND PLANTED. RUNOFF FROM STOCKPILED AREA SHALL BE CONTROLLED TO PREVENT EROSION AND RESULTANT SEDIMENTATION OF RECEIVING WATER.
- PERMANENT OR TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MEASURES SHALL BE APPLIED WITHIN 14 DAYS TO DISTURBED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL BE LEFT DORMANT FOR LONGER THAN 30 DAYS. IT IS RECOMMENDED THAT THE PERMANENT SEED MIX BE PLANTED AFTER OCTOBER TO KEEP SEEDLINGS FROM DEVELOPING BEFORE WINTER. TEMPORARY VEGETATIVE COVER CONSISTING OF ANNUAL RYE GRASS SHALL BE HYDRO SEEDD AT 20 POUNDS PURE LIVE SEED PER ACRE.
- FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH AT THE TIME OF GRADING.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING CONSTRUCTION AND SHALL BE INSTALLED WITHIN 24 HOURS IF REQUIRED BY THE STORMWATER COORDINATOR OR THEIR REPRESENTATIVE.
- AREAS WHERE SILT FENCE IS NOT INDICATED, WILL REQUIRE SOME FORM OF SEDIMENT CONTROL. CONTRACTOR TO CRIMP MULCH INTO THE SLOPE.

**BASIS OF ELEVATION:**  
PROJECT ELEVATIONS ARE BASED ON GPS  
OBSERVATION DERIVED FROM AN OPUS SOLUTION  
USING GEOID12B, HELD ON CONTROL POINT CP-1,  
AS MONUMENTED BY A NO. 5 REBAR WITH 2 INCH  
ALUMINUM CAP STAMPED CP-1 WITH AN NAVD88  
ELEVATION OF 8011.90 FEET.

CONSTRUCTION DOCUMENTS  
HIGHWAY 50 TURN LANES  
LOCATED WITHIN SECTIONS 1 AND 2, TOWNSHIP 49 NORTH, RANGE 7 EAST AND SECTIONS  
35 AND 36, TOWNSHIP 50 NORTH, RANGE 7 EAST OF THE NEW MEXICO MERIDIAN.

ACCESS PERMIT # \_\_\_\_\_  
MM 212.7



Index of Sheets

SHEET NO.	SHEET TITLE
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C2	CDOT STANDARD PLANS LIST
C3	HIGHWAY 50 SURVEY TABULATION
C4	OVERALL SITE PLAN
C5	HWY 50 PLAN & PROFILE STA. 10+00 – 15+00
C6	HWY 50 PLAN & PROFILE STA. 15+00 – 20+00
C7	HWY 50 PLAN & PROFILE STA. 20+00 – 25+00
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C12	PROPOSED DRIVEWAY PLAN & PROFILE
C13	STORM PROFILES
C14	HWY 50 SIGN & STRIPING PLAN
C15	HWY 50 SIGN & STRIPING PLAN
C16	CROSS SECTIONS STA. 16+50 – 20+50
C17	CROSS SECTIONS STA. 21+00 – 25+00
C18	CROSS SECTIONS STA. 25+50 – 29+50
C19	CROSS SECTIONS STA. 30+00 – 34+00
C20	CROSS SECTIONS STA. 34+50 – 38+50
C21	CROSS SECTIONS STA. 39+00 – 43+00

PREPARED FOR:  
**ACA PRODUCTS**  
PO BOX 1887  
BUENA VISTA, CO 81211  
(719) 395-3790

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE SITE WORK SPECIFICATIONS TO THE CURRENT EDITIONS OF "CDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AND THE "CDOT STANDARD PLANS, M&S STANDARDS" AND SUPPLEMENTALS, UNLESS OTHERWISE NOTED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ACROSS THE PREMISES, OR WHO MIGHT BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE UTILITY COMPANIES TO ENSURE COMPLIANCE WITH THE PROJECT SCHEDULE ESTABLISHED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING UTILITY LINES, AND SHALL REPAIR ANY DAMAGES AT HIS OWN EXPENSE. CALL THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 DAYS IN ADVANCE BEFORE COMMENCEMENT OF WORK.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSURANCE OF MATERIALS, INSTALLATION AND MAINTENANCE OF THE SILT FENCE AND EROSION CONTROL LOG BARRIER AROUND THE LIMITS OF CONSTRUCTION AND AS SHOWN ON THE APPROVED PLAN, DURING CONSTRUCTION AND UNTIL ALL WORK IS COMPLETE AND VEGETATION IS REESTABLISHED.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES, SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. ALL PAVEMENT STRIPING SHALL BE FOUR (4) INCHES WIDE, UNLESS SHOWN OTHERWISE ON THE PLANS.
- ALL PAVEMENT REMOVAL CONTIGUOUS TO PAVEMENT REMAINING, SHALL BE SAW-CUT IN A STRAIGHT LINE TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS SHALL BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS ON-SITE WILL NOT BE PERMITTED.
- UNLESS OTHERWISE STATED IN THE GENERAL CONDITIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING. ALL SUBGRADE, CONCRETE AND ASPHALTIC PAVEMENT TESTING SHALL CONFORM TO THE CDOT STANDARD SPECIFICATIONS. ALL TEST RESULTS SHALL BE FORWARDED TO THE ENGINEER FOR HIS REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL PROTECT ALL STRUCTURES DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTING AND MAINTAINING BARRICADES AND OTHER TRAFFIC CONTROL DEVICES AS NECESSARY AROUND THE PERIMETER AND ADJACENT PUBLIC STREETS. CONTRACTOR TO PROVIDE A TRAFFIC CONTROL PLAN TO CDOT FOR REVIEW AND APPROVAL.



AGENCY LIST:

CIVIL ENGINEER

BASILENE ENGINEERING  
1950 FORD STREET  
GOLDEN, CO 80401  
CONTACT: NOAH NEIMMERS, P.E.  
303.940.9966

OWNER/CONTRACTOR

ACA PRODUCTS  
PO BOX 1887  
BUENA VISTA, CO 81211  
CONTACT: SHEILA MOORE  
719.395.3790

REVIEWING AGENCY

CDOT REGION 5  
3803 NORTH MAIN AVE.  
SUIT 100  
DURANGO, CO 81301  
970.385.3626

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
---	---	MINOR CONTOUR (1' INTERVAL)
---	---	MAJOR CONTOUR (5' INTERVAL)
---	---	RIGHT-OF-WAY
---	---	SECTION LINE
---	---	EDGE OF ASPHALT
---	---	EDGE OF GRAVEL
---	---	DITCH FLOWLINE
---	---	LOT LINE
---	---	WIRE FENCE
---	---	OVERHEAD UTILITY
---	---	UNDERGROUND TELEPHONE
---	---	WATER SURFACE

EXISTING SYMBOLS

PROPOSED SYMBOLS

△	CONTROL POINT
●	FOUND PROPRTY PIN AS DESCRIBED
⊕	WATER WELL
⊗	POWER POLE
+	GUY WIRE
⊙	COMMUNICATION PEDISTAL
+	SIGN
+	DOUBLE POST SIGN
+	T-POST
⊙	CONIFEROUS TREE
⊙	SILT FENCE
⊙	CHECK DAMS
⊙	INLET PROTECTION
⊙	OUTLET PROTECTION
⊙	PERMANENT SEEDING
⊙	CONCRETE WASHOUT AREA
⊙	ASPHALT PAVING



112 N RUBY DRIVE SUITE 210 • GOLDEN, COLORADO 80403  
P: 303.940.9966 • F: 303.940.9969 • www.baselinecorp.com

DESIGNED BY	NUN
DRAWN BY	WAC
CHECKED BY	NUN

REVISION	DESCRIPTION	DATE

ACA PRODUCTS, INC.	CHAFFEE COUNTY
HIGHWAY 50 TURN LANES	
HIGHWAY 50 & COUNTY ROAD 219	
COVER SHEET	

FOR AND ON BEHALF OF BASELINE CORPORATION	
PROFESSIONAL ENGINEER	
39820	
INITIAL SUBMITTAL	01/27/2020
DRAWING SIZE	22" X 34"
SURVEY FIRM	SURVEY DATE
BASILENE	05/23/19
JOB NO.	C03383
DRAWING NAME	
3383PR_Cover & Details.dwg	
SHEET	1 OF 21
C1	

N:\c03383 - ACA Hwy 50 Turn Lanes\Drawings\Construction Documents\3383PR\_Cover & Details.dwg, 2/6/2020 2:56:38 PM, Wade Coto

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COLORADO  
DEPARTMENT OF TRANSPORTATION  
M&S STANDARDS PLANS LIST  
July 04, 2012

Revised on May 03, 2019

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NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX , WILL BE ATTACHED TO THE PLANS.

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STANDARDS PLANS  
LIST

Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.

STANDARDS PLANS LIST

Sheet No. 1 of 1



DESIGNED BY NUN  
DRAWN BY WAC  
CHECKED BY NUN

REVISION	DESCRIPTION	DATE	PREPARED BY

ACA PRODUCTS, INC.	CHAFFEE COUNTY
HIGHWAY 50 TURN LANES	
HIGHWAY 50 & COUNTY ROAD 219	
CDOT STANDARD PLANS LIST	

FOR AND ON BEHALF OF  
BASELINE CORPORATION

UNINCORPORATED

COLORADO LICENSED  
PROFESSIONAL ENGINEER  
39820

INITIAL SUBMITTAL 01/27/2020

DRAWING SIZE 22" X 34"

SURVEY FIRM SURVEY DATE  
BASELINE 05/23/19

JOB NO. C03383

DRAWING NAME  
3383PR\_Cover & Details.dwg

SHEET 2 OF 21

C2

Format \* \_\_\_\_\_

☐ 3D Design Modeling Electronic Files \_\_\_\_\_

☐ Horizontal Control \_\_\_\_\_

☒ Vertical Control \_\_\_\_\_

☒ Roadway Alignment \_\_\_\_\_

☐ Original Terrain Data \_\_\_\_\_

☐ Other: \_\_\_\_\_

TYPE OF PROJECT

- SURVEY WORK TO BE PERFORMED BY OTHERS: \_\_\_\_\_

<input type="checkbox"/>	A complete passing Base Line report (completed within 6 months prior to the start of the project)				
<input type="checkbox"/>	An instrument calibration Certification (completed within 6 months prior to the start of the project)				
<input type="checkbox"/>	Establish and Maintain Project Centerline or Engineer Approved Offset Line(s)				
<input type="checkbox"/>	Verification and Maintenance of Horizontal and Vertical Control				
<input type="checkbox"/>	Verify or Determine existing grades and alignments				
<input type="checkbox"/>	Verify or Determine existing topography				
<input type="checkbox"/>	Clearing and Grubbing Limits (Section 201)				
<input type="checkbox"/>	Removal Limits (Section 202)				
<input type="checkbox"/>	Reset Items (Section 210)				
<input type="checkbox"/>	Excavation and Embankment (Section 203)	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval

Excavation	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

Embankment	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>•</li> <li>•</li> <li>•</li> <li>•</li> </ul>
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- ☐ Unclassified  
☐ Stripping  
☐ Muck  
☐ Rock  
☐ Borrow  
☐ Other: \_\_\_\_\_  
☐ Potholing

- ☐ Embankment  
☐ Site Grading  
☐ Erosion Control (Perm)  
☐ Other: \_\_\_\_\_

- ☐ As Staked Earthwork Quantities  
(See General Notes)

- ☐ Landscaping
- ☐ Top Soil (Section 207)
- ☐ Seeding (Section 212)
- ☐ Mulching (Section 213)
- ☐ Planting (Section 214)
- ☐ Herbicide (Section 217)
- ☐ Other: \_\_\_\_\_

- ☐ Erosion Control (Section 208)  
☐ Seeding (Temp)  
☐ Silt Fence  
☐ Erosion Bales  
☐ Erosion Logs  
☐ Riprap (Temp)  
☐ Other:

- ☐ Roadway Bases  
☐ Untreated Subgrade  
☐ Treated Subgrade  
☐ Aggregate Base Course (Section 304)  
☐ Reconditioning  
☐ PMBB - Plant Mix Bituminous Base  
☐ Other:

Roadway Bases	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

- ☐ Pavements  
☐ HMA - Hot Mix Asphalt (Section 403)  
☐ Concrete (Section 412)  
☐ Heating & Scarifying Treatment  
☐ Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)  
☐ Seal Coat or Chip Seal (Section 409)  
☐ Other: \_\_\_\_\_

[illegible]

- ☐ Roadway Elements  
     — ☐ Curb and Gutter (Section 609)  
     — ☐ Drop inlets -  
                 alignment and grades (Section 604)

Curb & Gutter	Tangent Interval	Curve Interval	Special Offset
	-	-	-

- ☐ Retaining Walls  
☐ Guard Rail (Section 606)  
☐ Sidewalk (Section 608)  
☐ Overlay Stationing  
☐ Other: \_\_\_\_\_

Stationing	Left Interval	Center Interval	Right Interval
	-	-	-

- \_\_\_\_ ☐ Riprap (Perm) (Section 506)

- \_\_\_\_  Slope and Ditch Paving (Section 507)

- ☐ Minor Structures
  - ☐ Structure Excavation limits (Section 206)
  - ☐ Culverts (Section 603)
  - ☐ Culverts w/ Headwalls and Wingwalls (Section 601)
  - ☐ Concrete Box Culverts w/ Headwalls and Wingwalls
  - ☐ Pipes (Section 603)
    - ☐ Sanitary Sewer
    - ☐ Storm Sewer
    - ☐ Water
    - ☐ Irrigation
    - ☐ Miscellaneous
  - ☐ Manholes (Section 604)
  - ☐ Inlets (Section 604)
  - ☐ Permanent Water Quality BMP (Section 208)
  - ☐ Other: \_\_\_\_\_

- ☐ Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges -  
 and all other structures assigned a structure number  
 \_\_\_\_\_ ☐ Structure Excavation limits (Section 206)  
 \_\_\_\_\_ ☐ Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)  
 \_\_\_\_\_ ☐ Piling locations and cut off elevations (Section 502)  
 \_\_\_\_\_ ☐ Caisson locations and elevations (Section 503)  
 \_\_\_\_\_ ☐ Footing locations, alignment, and elevations  
 \_\_\_\_\_ ☐ Abutment/Pier locations, alignment, and elevations  
 \_\_\_\_\_ ☐ Wingwall skew angles/offsets  
 \_\_\_\_\_ ☐ Structural concrete form locations  
 \_\_\_\_\_ ☐ Substructure As-constructed survey  
 required for Bridges (Subsection 601.12) and Overhead signs (S-614-50)  
 \_\_\_\_\_ ☐ Bridge expansion joint(s) alignment and grade (longitudinal and transverse)  
 \_\_\_\_\_ ☐ Deck grades at Girder 10th or "n" th point locations and elevations  
 \_\_\_\_\_ ☐ Slope and Ditch Paving (Section 507)  
 \_\_\_\_\_ ☐ Other: \_\_\_\_\_

- \_\_\_ ☐ Fencing (Section 607)  
     \_\_\_ ☐ Temporary  
     \_\_\_ ☐ Permanent  
     \_\_\_ ☐ Sound Barrier  
     \_\_\_ ☐ Other: \_\_\_\_\_

- ☐ Delineators (Section 612)  
☐ Temporary  
☐ Permanent

- ☐ Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)  
☐ Signal pole locations and elevations  
☐ Light pole locations and elevations  
☐ Sign locations  
☐ Field verify sign post locations, elevations, and lengths before fabrication.  
☐ Other:

- ☐ Pavement Marking (Section 627)  
     ☐ Striping (Temp)  
     ☐ Striping (Perm)  
     ☐ Symbols  
     ☐ Other: \_\_\_\_\_
- ☐ Temporary Lighting and Construction Traffic Control Devices (Section 630)  
     ☐ Signal pole locations and elevations (Temp)  
     ☐ Light pole locations and elevations (Temp)  
     ☐ Sign Locations (Temp)  
     ☐ Other: \_\_\_\_\_
- ☐ All Easements (Temp Staking by P.L.S. Only)
- ☐ Right of Way (Temp Staking by P.L.S. Only)

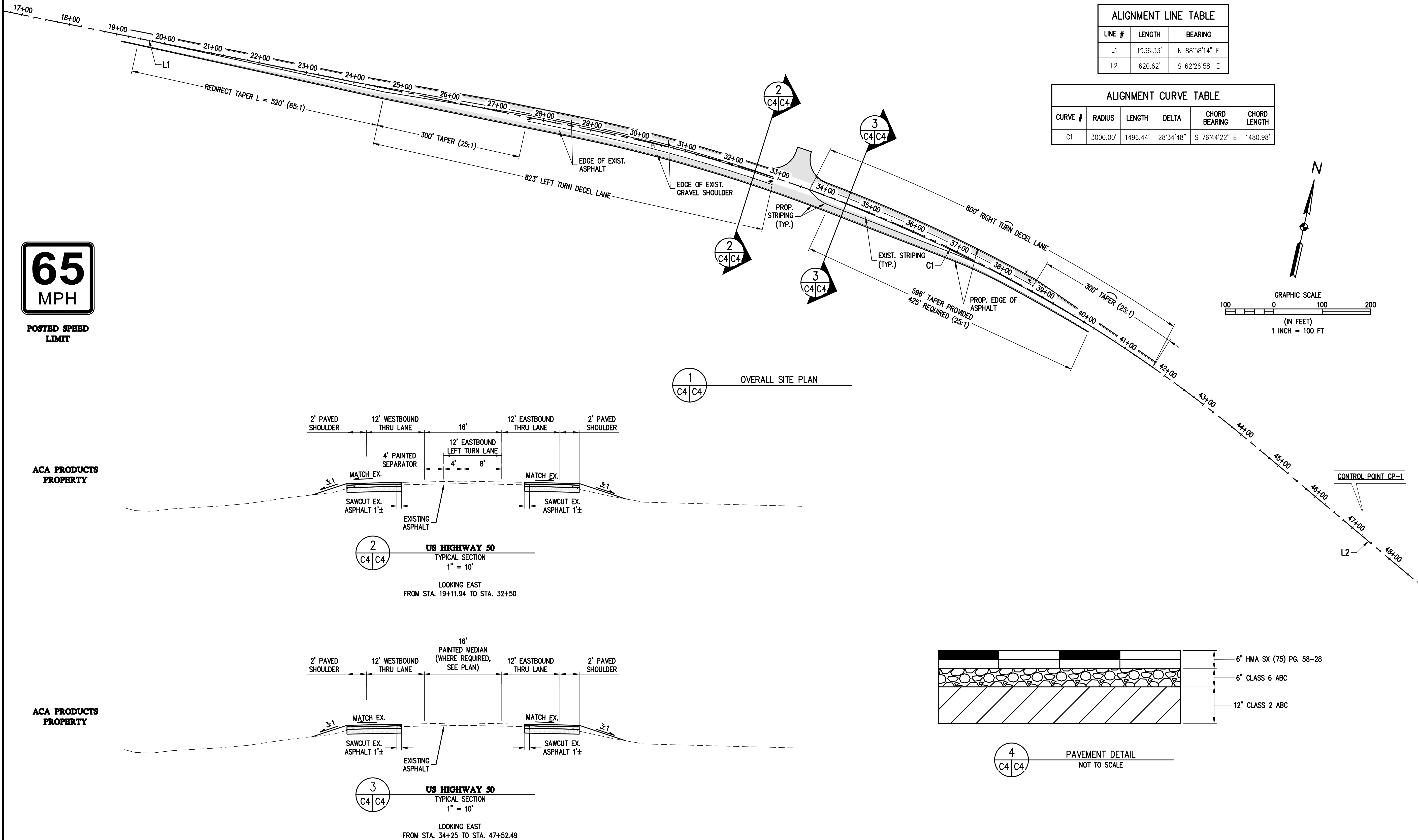
\_\_\_\_\_ ☐ Monumentation (Section 629)  
       \_\_\_\_\_ ☐ Control  
       \_\_\_\_\_ ☐ Right of Way  
       \_\_\_\_\_ ☐ Land corners, Aliquot corners  
       \_\_\_\_\_ ☐ Easements  
       \_\_\_\_\_ ☐ Reference the specified existing monuments: \*\* \_\_\_\_\_  
       \_\_\_\_\_ ☐ Replace the specified existing monuments: \*\* \_\_\_\_\_  
       \_\_\_\_\_ ☐ Locate monuments. It is estimated \_\_\_\_\_ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

\*\* A Tabulation of Survey Monuments may be provided on the plans.

1. Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
2. Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
3. The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer \_\_\_\_\_ days prior to the Presurvey Conference - Construction Survey.
4. Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
5. The Contractor shall furnish an As Staked (or 3D Design Modeling Electronic Files) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or 3D Design Modeling Electronic Files) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
6. Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
7. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
8. The Contractor shall coordinate construction staking on the project with any utility work.
9. Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
10. The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
  - ☐ Horizontal Control (Primary & Secondary)
  - ☐ Vertical Control (i.e. Benchmarks)
  - ☐ Property Pin Ties
  - ☐ Horizontal Alignment
  - ☐ Grading
  - ☐ Slope Staking
  - ☐ Minor Structures
  - ☐ Major Structures
  - ☐ One fieldbook for each work category shown on this sheet
  - ☐ Other Fieldbook(s): \_\_\_\_\_
11. The Contractor's surveyor shall submit the following (prior to surveying on the project) to the Engineer:
  - ☐ All required Instrument Calibrations

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DRAWN BY	WAC		
CHECKED BY	NJN		
REVISION	DESCRIPTION	PREPARED BY	DATE

**ACA PRODUCTS, INC.**  
UNINCORPORATED  
CHAFFEE COUNTY  
HIGHWAY 50 TURN LANES  
HIGHWAY 50 & COUNTY ROAD 219  
OVERALL SITE PLAN

FOR AND ON BEHALF OF  
BASELINE CORPORATION

PREPARED UNDER THE DIRECT  
SUPERVISION OF

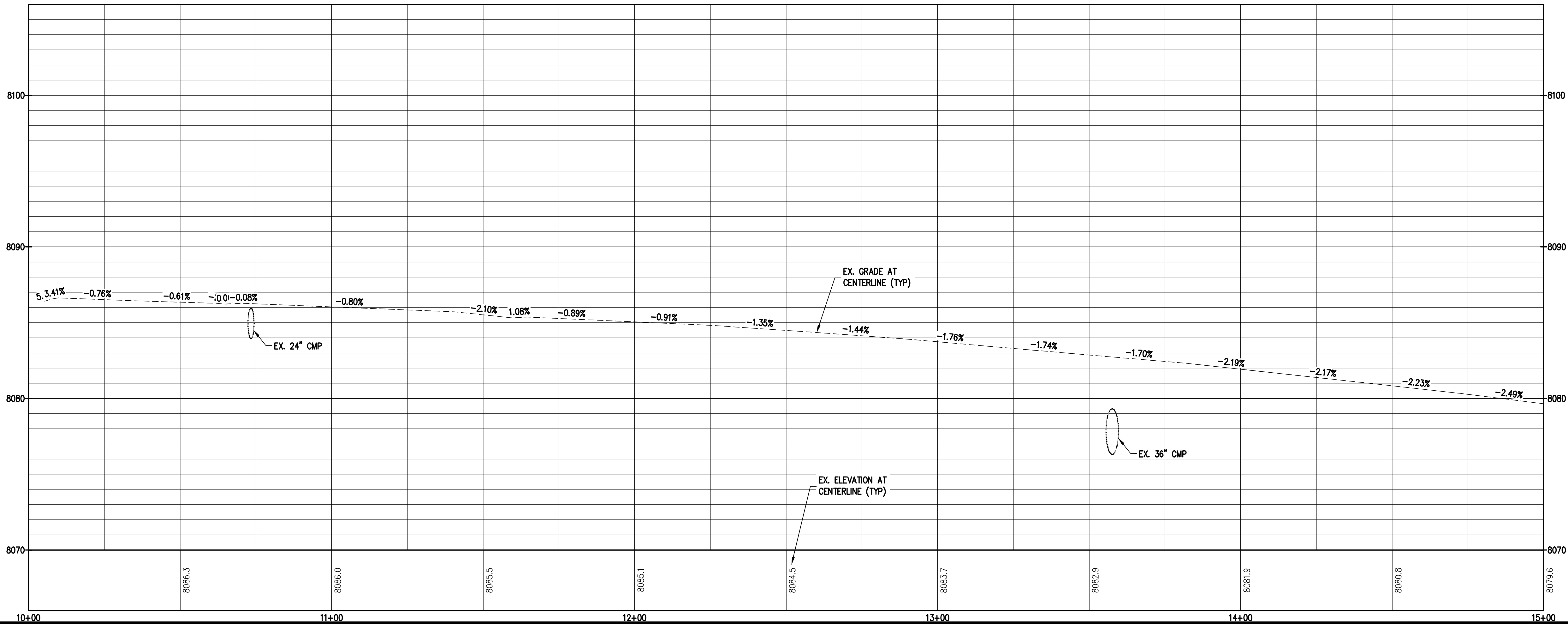
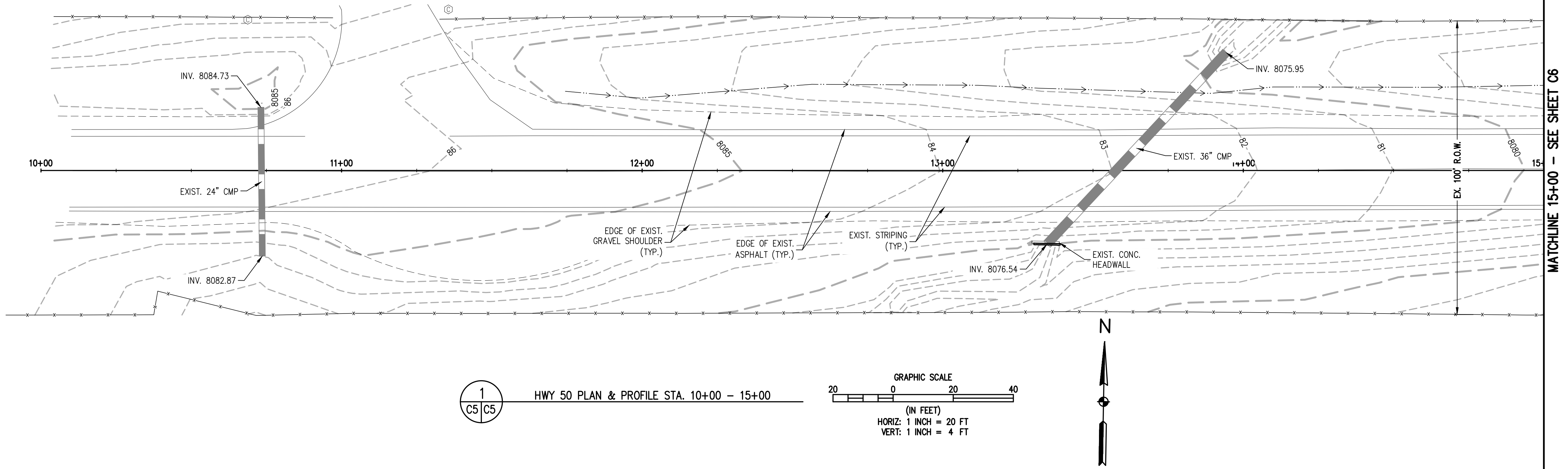
**COLORADO LICENSED  
NO. H.L. NEIMMEYER  
39820  
PROFESSIONAL ENGINEER**

FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL	01/27/2020
DRAWING SIZE	22" X 34"
SURVEY FIRM	BASELINE
SURVEY DATE	05/23/19
JOB NO.	C03383
DRAWING NAME	3383PR_OVERALL SITE PLAN.dwg
SHEET	4 OF 21

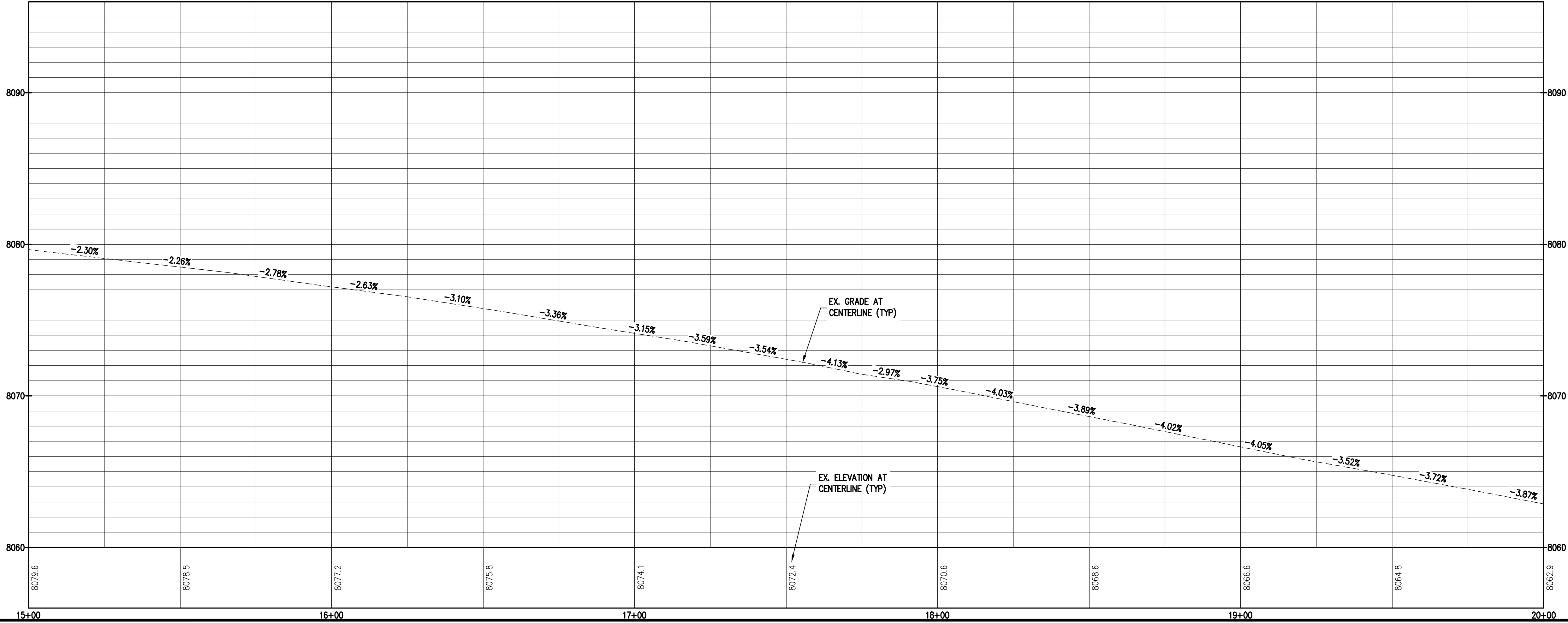
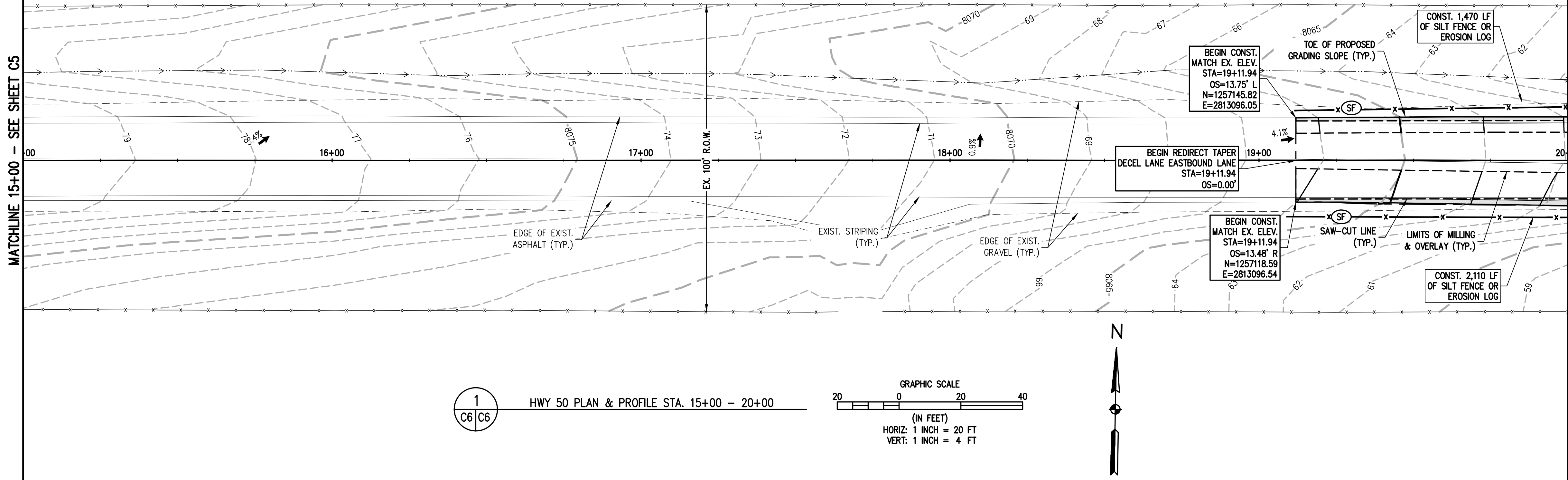
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<b>BASELINE</b> Engineering · Planning · Surveying 112 W RUBEY DRIVE SUITE 210 • GOLDEN, COLORADO 80403 P: 303.940.9866 • F: 303.940.9869 • www.baselinecorp.com		
DESIGNED BY NUN	DRAWN BY WAC	CHECKED BY NUN
REVISION DESCRIPTION	PREPARED BY	DATE
ACA PRODUCTS, INC. UNINCORPORATED CHAFFEE COUNTY HIGHWAY 50 TURN LANES HIGHWAY 50 & COUNTY ROAD 219 HWY 50 PLAN & PROFILE STA. 10+00 - 15+00		
FOR AND ON BEHALF OF BASELINE CORPORATION COLORADO LICENSED NO. HJ-NEIMMER 39820 PROFESSIONAL ENGINEER		
INITIAL SUBMITTAL 01/27/2020		
DRAWING SIZE 22" X 34"		
SURVEY FIRM SURVEY DATE BASELINE 05/23/19		
JOB NO. C03383		
DRAWING NAME 3383PR_Hwy 50 P&P.dwg		
SHEET 5 OF 21		
C5		

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ACA PRODUCTS, INC.

UNINCORPORATED CHAFFEE COUNTY

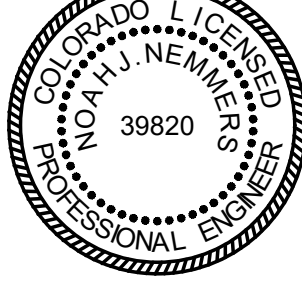
HIGHWAY 50 TURN LANES

HIGHWAY 50 & COUNTY ROAD 219

HWY 50 PLAN & PROFILE STA. 15+00 - 20+00

FOR AND ON BEHALF OF

SUPERVISION OF



INITIAL SUBMITTAL

01/27/2020

DRAWING SIZE

22" X 34"

SURVEY FIRM

3383PR\_Hwy 50 P&P.dwg

SHEET

6 OF 21

C6

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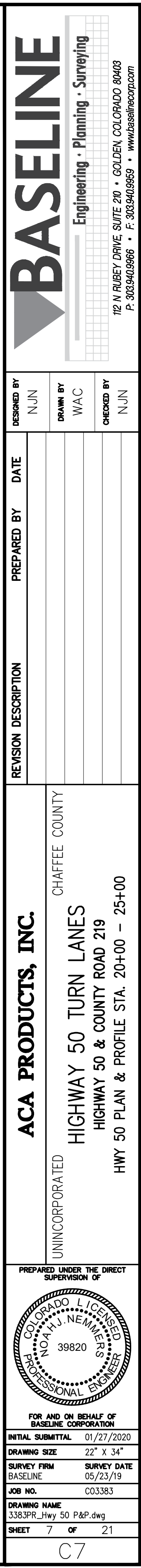
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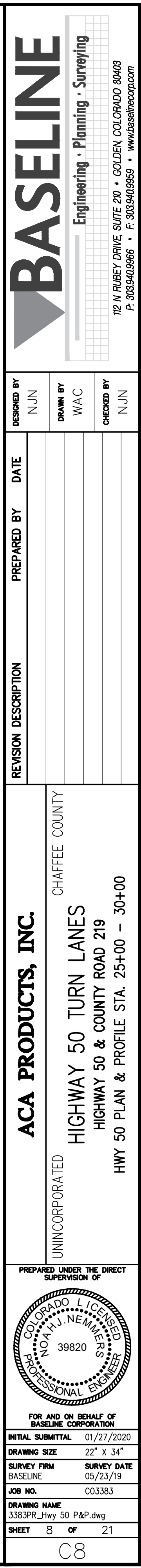
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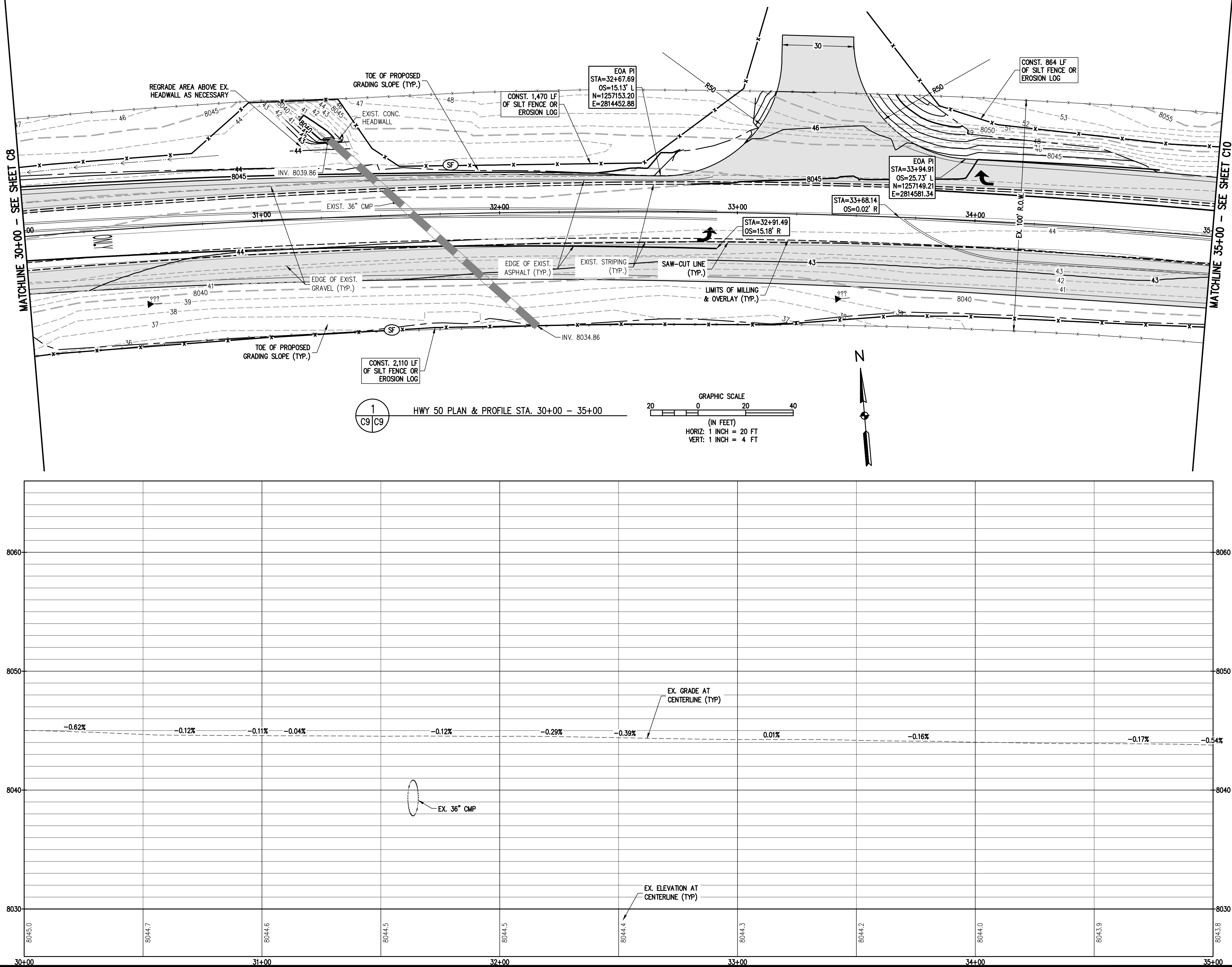
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DATE



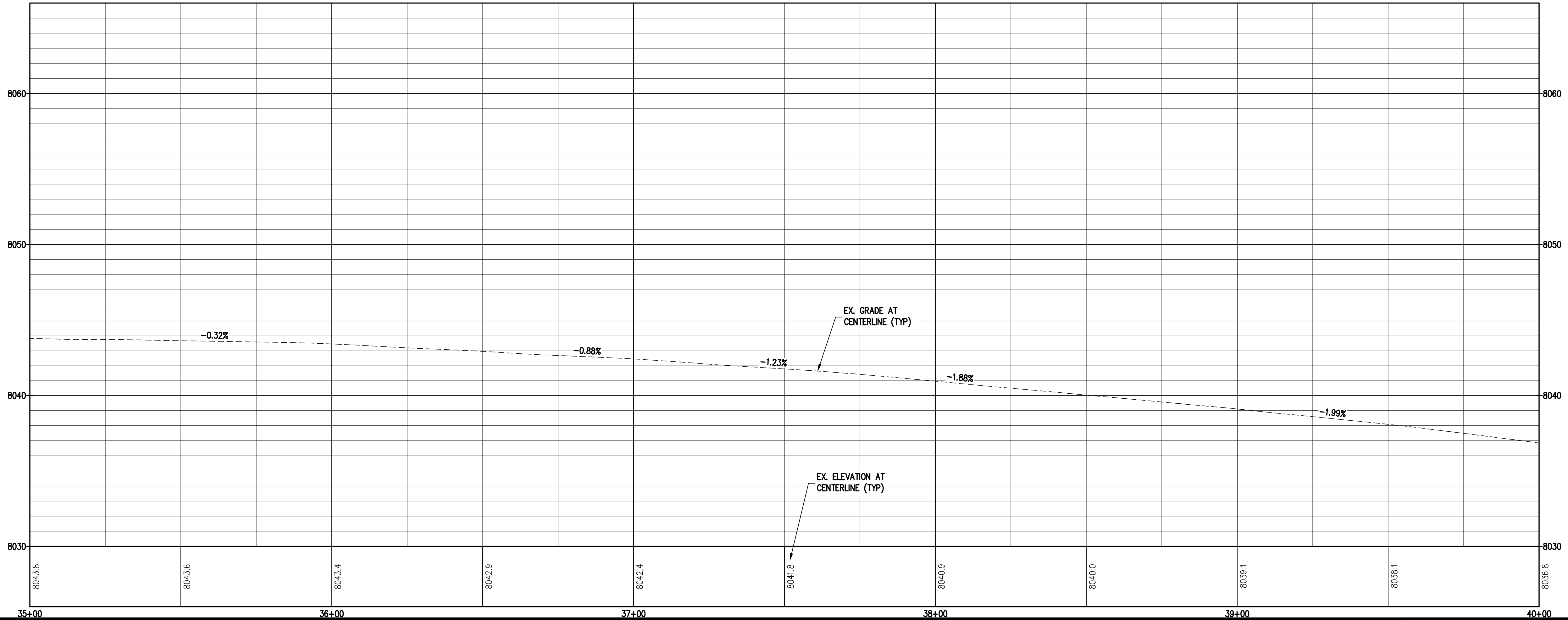
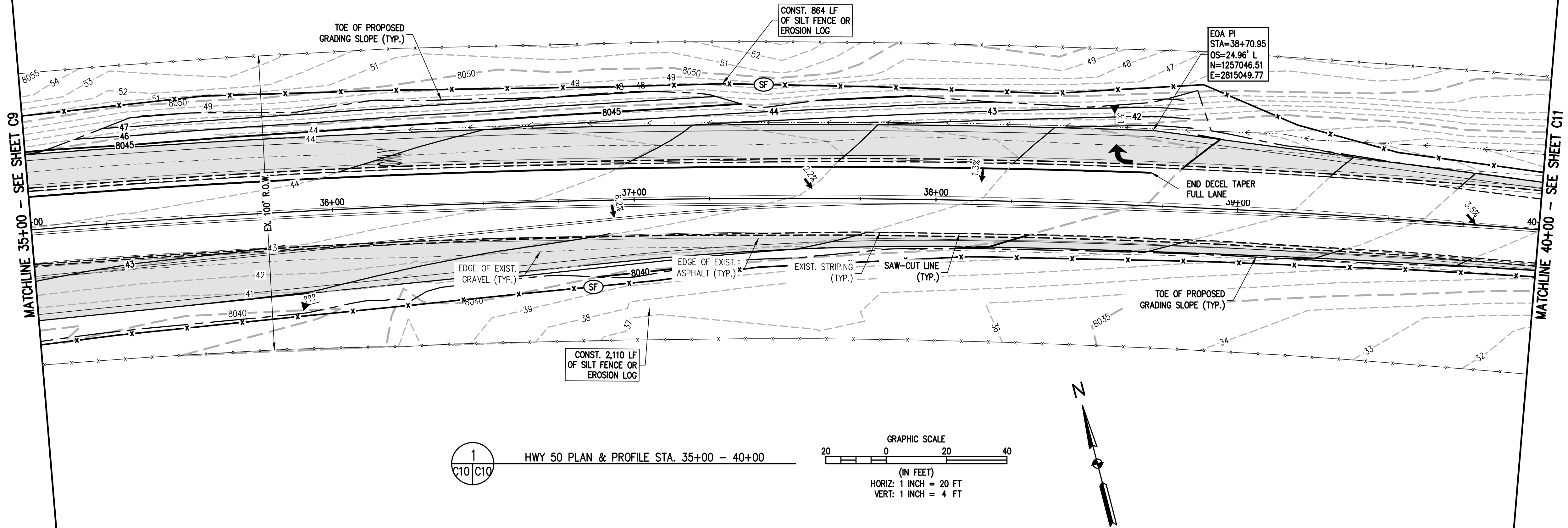


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<b>BASELINE</b> Engineering • Planning • Surveying 112 W RUBEY DRIVE SUITE 210 • GOLDEN, COLORADO 80403 P: 303.940.9866 • F: 303.940.9869 • www.baselinecorp.com		
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REVISION DESCRIPTION	PREPARED BY	DATE
<b>ACA PRODUCTS, INC.</b> UNINCORPORATED CHAFFEE COUNTY HIGHWAY 50 TURN LANES HIGHWAY 50 & COUNTY ROAD 219 HWY 50 PLAN & PROFILE STA. 30+00 - 35+00		
FOR AND ON BEHALF OF BASELINE CORPORATION COLORADO LICENSED NO. H.L. NEIMMEYER 39820 PROFESSIONAL ENGINEER		
INITIAL SUBMITTAL 01/27/2020		
DRAWING SIZE 22" X 34"		
SURVEY FIRM SURVEY DATE BASELINE 05/23/19		
JOB NO. C03383		
DRAWING NAME 3383PR_Hwy 50 P&P.dwg		
SHEET 9 OF 21		
C9		

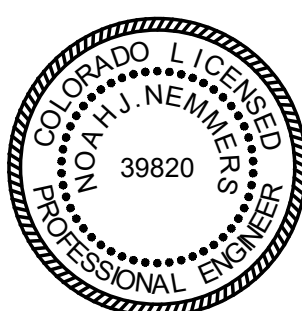
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CHAFFEE COUNTY  
HIGHWAY 50 TURN LANES  
HIGHWAY 50 & COUNTY ROAD 219  
HWY 50 PLAN & PROFILE STA. 35+00 - 40+00

PREPARED UNDER THE DIRECT SUPERVISION OF



FOR AND ON BEHALF OF  
BASELINE CORPORATION  
INITIAL SUBMITTAL 01/27/2020  
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SURVEY FIRM BASELINE  
SURVEY DATE 05/23/19  
JOB NO. C03383  
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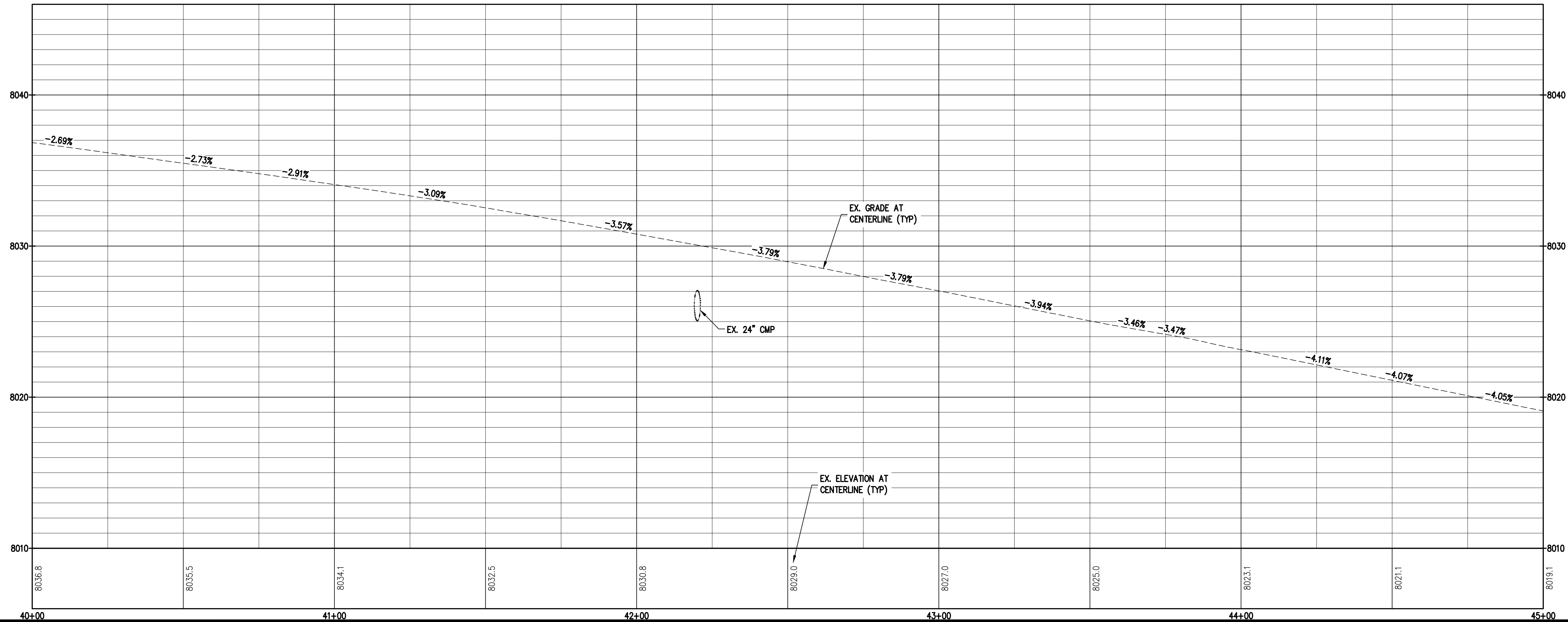
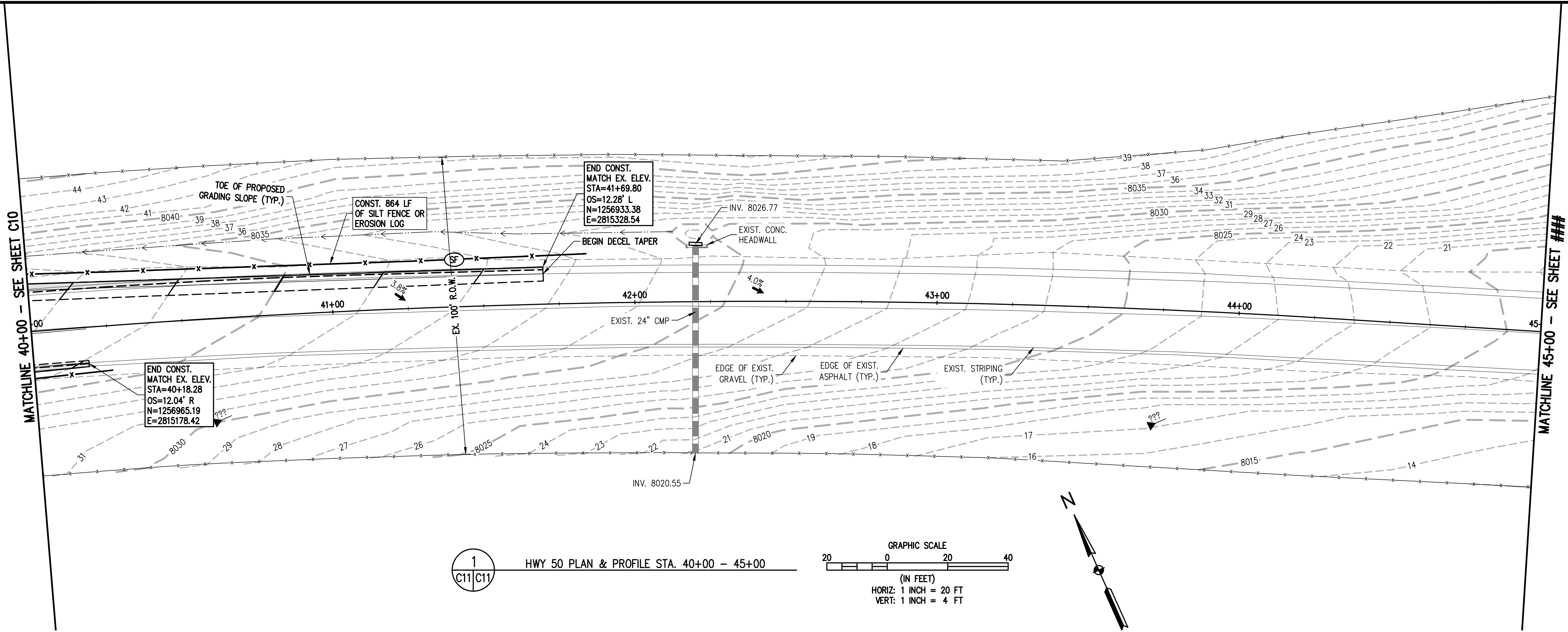
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CHAFFEE COUNTY

HIGHWAY 50 TURN LANES

HIGHWAY 50 & COUNTY ROAD 219

HWY 50 PLAN & PROFILE STA. 40+00 - 45+00

FOR AND ON BEHALF OF  
BASELINE CORPORATION

COLORADO LICENSED  
NO. H.L. NEIMEN  
39820  
PROFESSIONAL ENGINEER

INITIAL SUBMITTAL 01/27/2020

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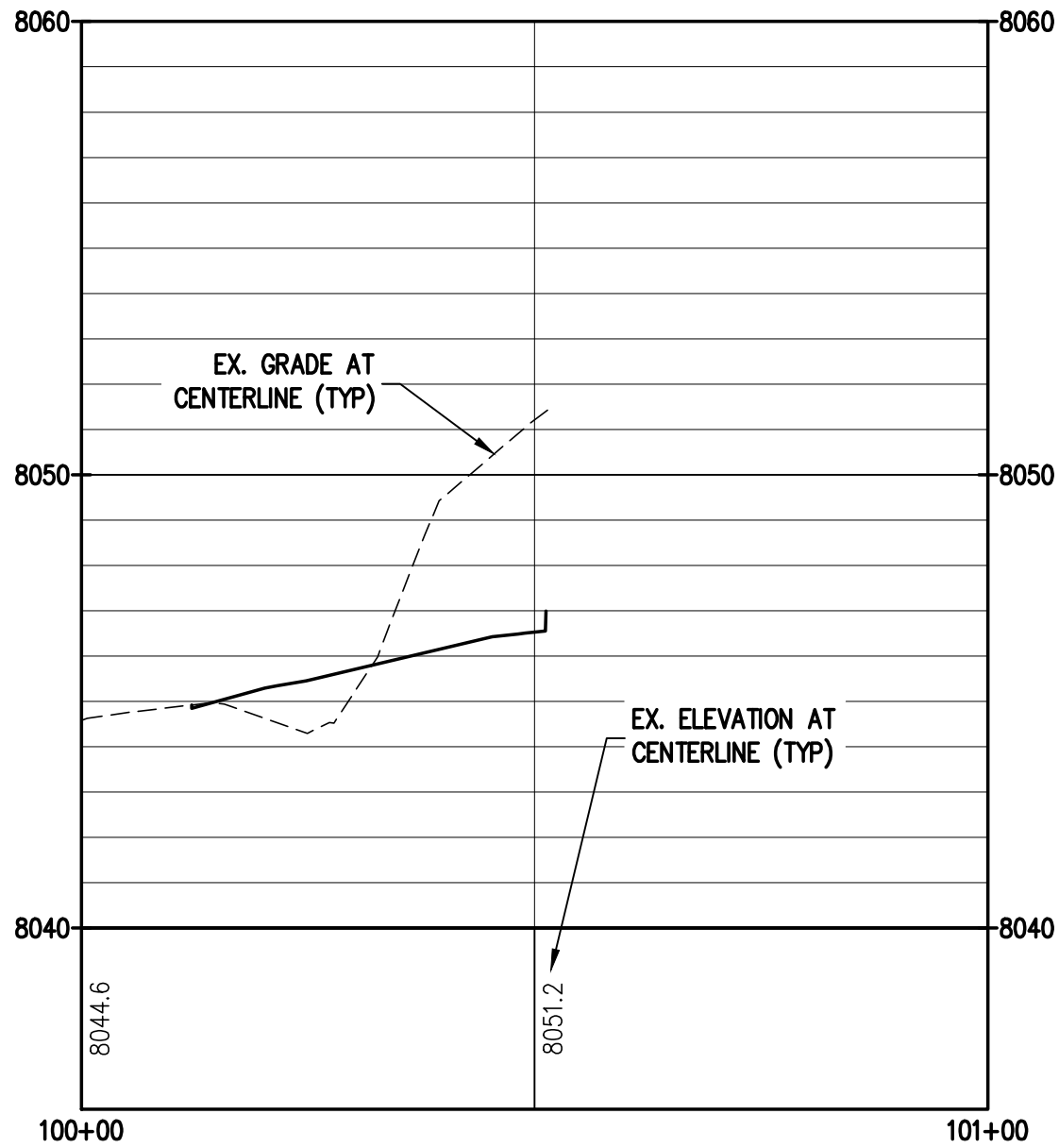
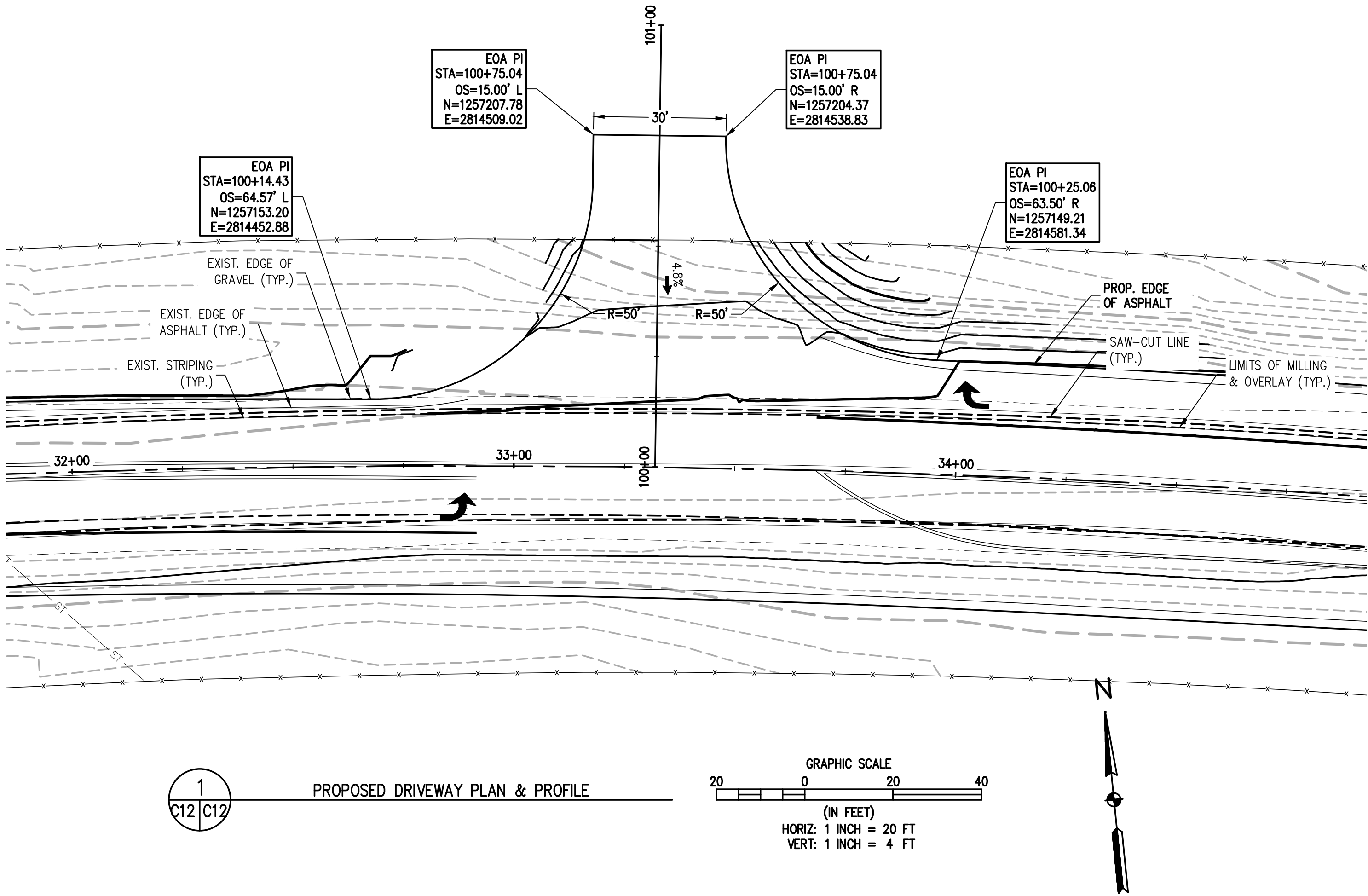
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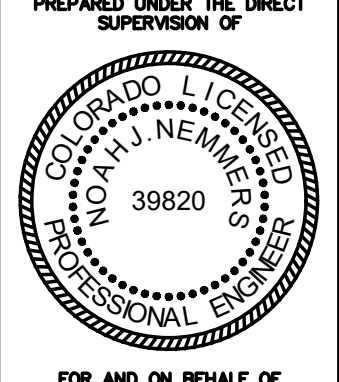
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REVISION	DESCRIPTION	PREPARED BY	DATE

**ACA PRODUCTS, INC.**  
UNINCORPORATED  
CHAFFEE COUNTY  
HIGHWAY 50 TURN LANES  
HIGHWAY 50 & COUNTY ROAD 219  
PROPOSED DRIVEWAY PLAN & PROFILE

PREPARED UNDER THE DIRECT  
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FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL 01/27/2020

DRAWING SIZE 22" X 34"

SURVEY FIRM SURVEY DATE  
BASELINE 05/23/19

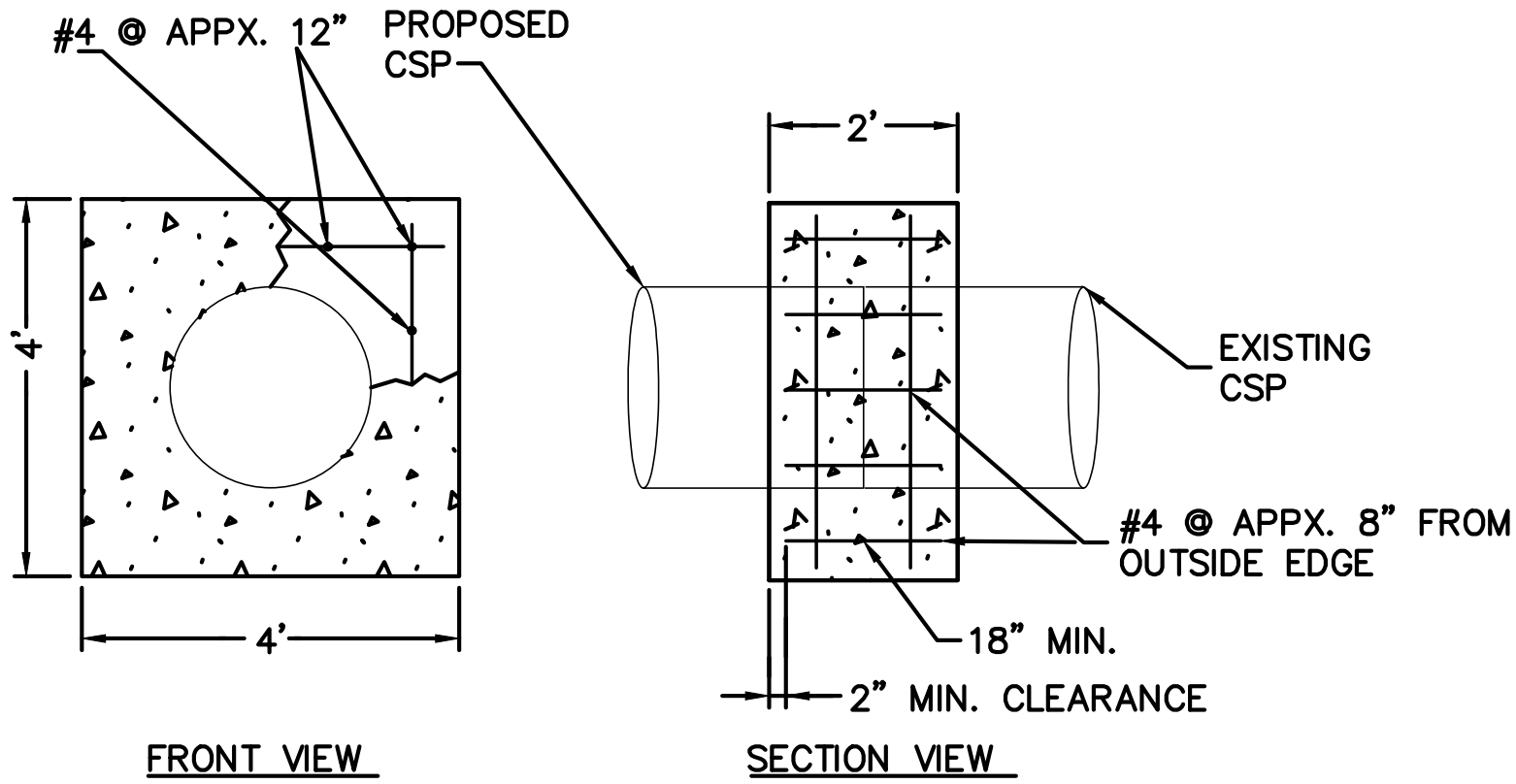
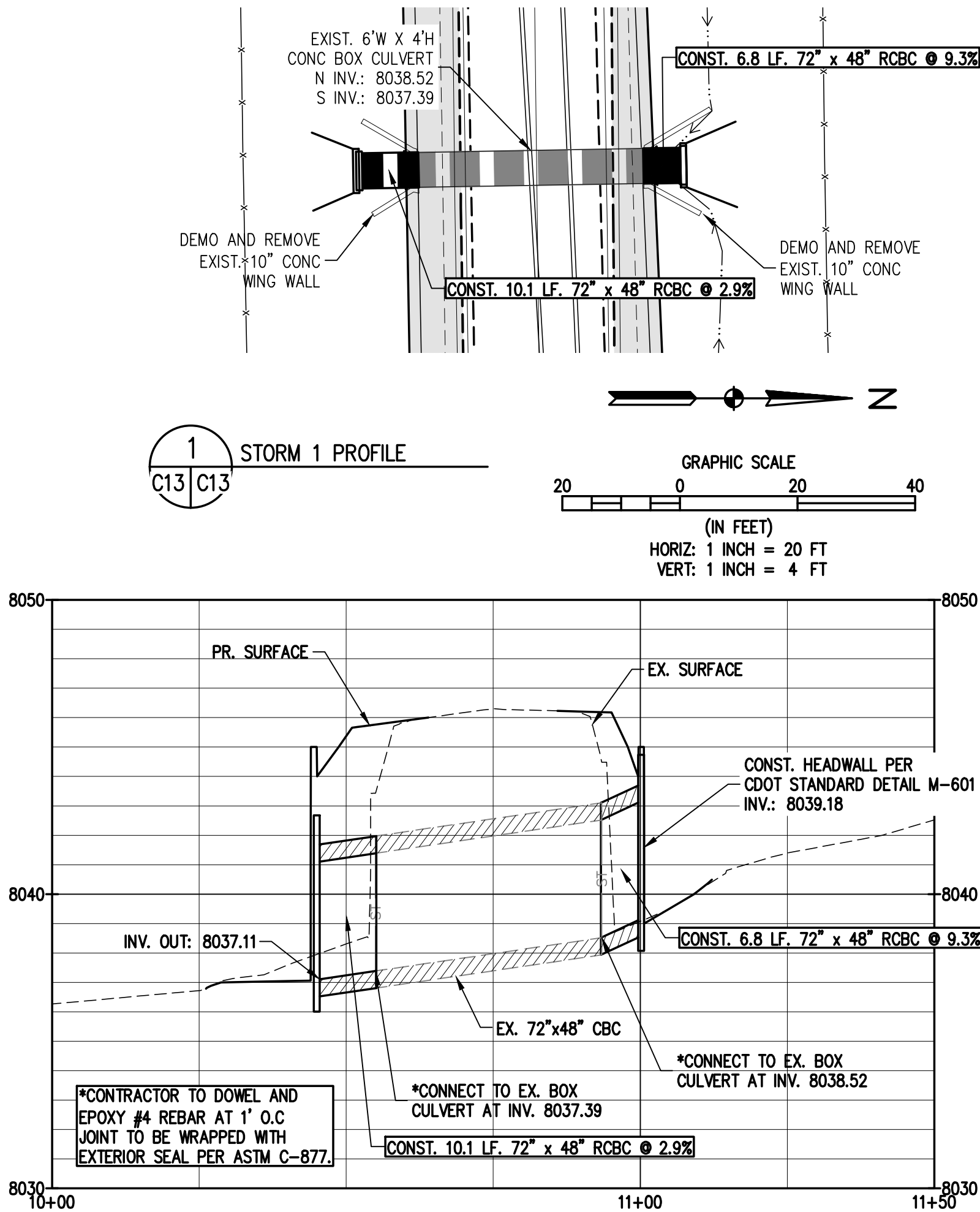
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SHEET 12 OF 21

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SINGLE OPENING BOX CULVERT STRUCTURE DIMENSIONS					GRADE 60 REINFORCING BAR SCHEDULE (BAR SIZE, SPACING AND LENGTH DIMENSIONS)																	
DIM		0 – 10 FT BURIAL DESIGN FILL "A"			"bb"		"cc"		"dd"		"bb", "cc" & "dd"	"ff"			"hh"				"jj"		"kk"	
SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "TT"	BOTTOM SLAB "TB"	WALLS OUTER "WO"	SIZE	SPACING	SIZE	SPACING	SIZE	SPACING	LENGTH	SIZE	SPACING	LENGTH	SIZE	SPACING	"CH" LENGTH	"CV" LENGTH	SIZE	STAGGERED SPACING	SIZE	STAGGERED SPACING
4'–0"	2'–6"	7.5"	8.5"	7.5"	#4	12"	#4	6"	#4	6"	4'–11"	#4	12"	3'–5"	#4	6"	25"	28"	#4	6"	#4	6"



CONCRETE COLLAR DETAIL

- NOTES:
1. CONTRACTOR SHALL PROVIDE A WATER TIGHT SEAL WITH RAMNECK OR APPROVED EQUAL BETWEEN EXISTING CULVERT AND PIPE EXTENSION.
  2. CONCRETE COLLARS, CONNECTING BANDS AND OTHER CONNECTION DEVICES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
  3. CONCRETE SHALL BE CLASS D.

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UNINCORPORATED

CHAFFEE COUNTY

HIGHWAY 50 TURN LANES

HIGHWAY 50 & COUNTY ROAD 219

STORM PROFILES

FOR AND ON BEHALF OF  
BASELINE CORPORATION

PROFESSIONAL ENGINEER  
39820  
NO. H. NEIMANN  
COLORADO LICENSED  
01/27/2020

INITIAL SUBMITTAL  
01/27/2020

DRAWING SIZE  
22" X 34"

SURVEY FIRM  
BASELINE

SURVEY DATE  
05/23/19

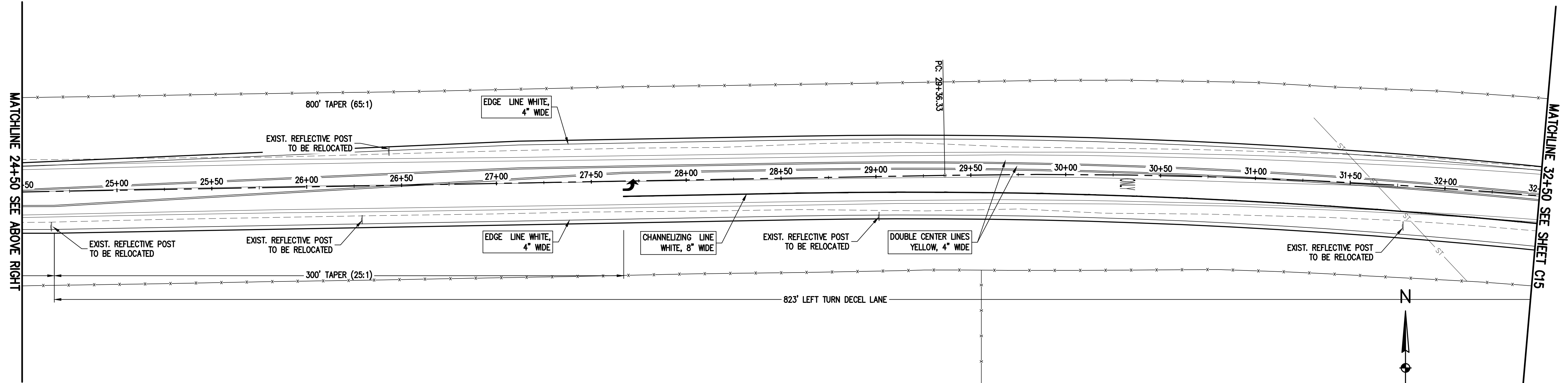
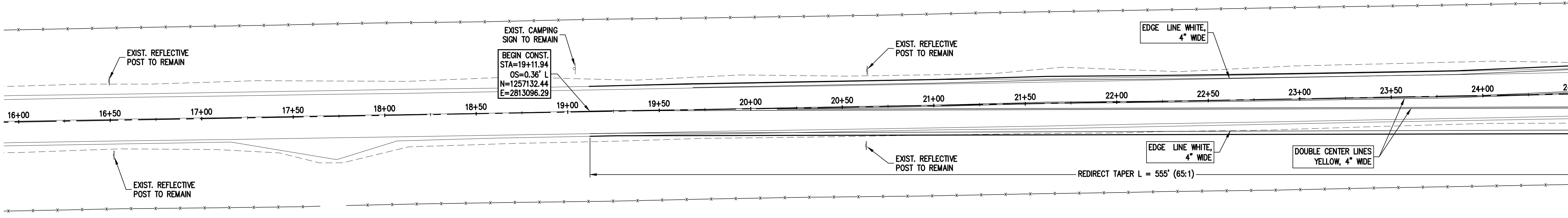
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13 OF 21

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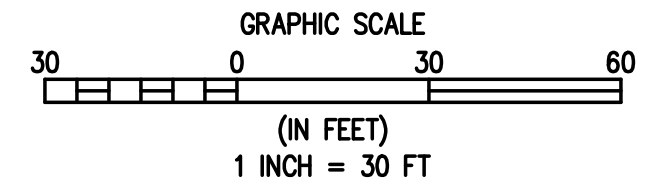


NOTES:

1. PROPOSED STRIPING SHALL ADHERE TO CDOT STANDARD SPECIFICATION 627 EPOXY PAVEMENT MARKING MATERIAL.
2. PAVEMENT MARKING SYMBOLS AND WORDS SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKING AND INLAID PER CDOT STANDARD SPECIFICATIONS.
3. DELINEATOR INSTALLATION SHALL BE PER CDOT M&S STANDARD S-612-1.

DELINEATOR SYMBOLS:

- TYPE I (CRYSTAL)
- TYPE II (2 CRYSTAL)
- TYPE III (3 YELLOW)



1

C14

C14

HWY 50 SIGN & STRIPING PLAN

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UNINCORPORATED

CHAFFEE COUNTY

HIGHWAY 50 TURN LANES

HIGHWAY 50 & COUNTY ROAD 219

HWY 50 SIGN & STRIPING PLAN

FOR AND ON BEHALF OF  
BASELINE CORPORATION

COLORADO LICENSED  
NO. H.V. NEIMEN  
39820  
PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL

01/27/2020

DRAWING SIZE

22" X 34"

SURVEY FIRM

BASELINE

SURVEY DATE

05/23/19

JOB NO.

C03383

DRAWING NAME

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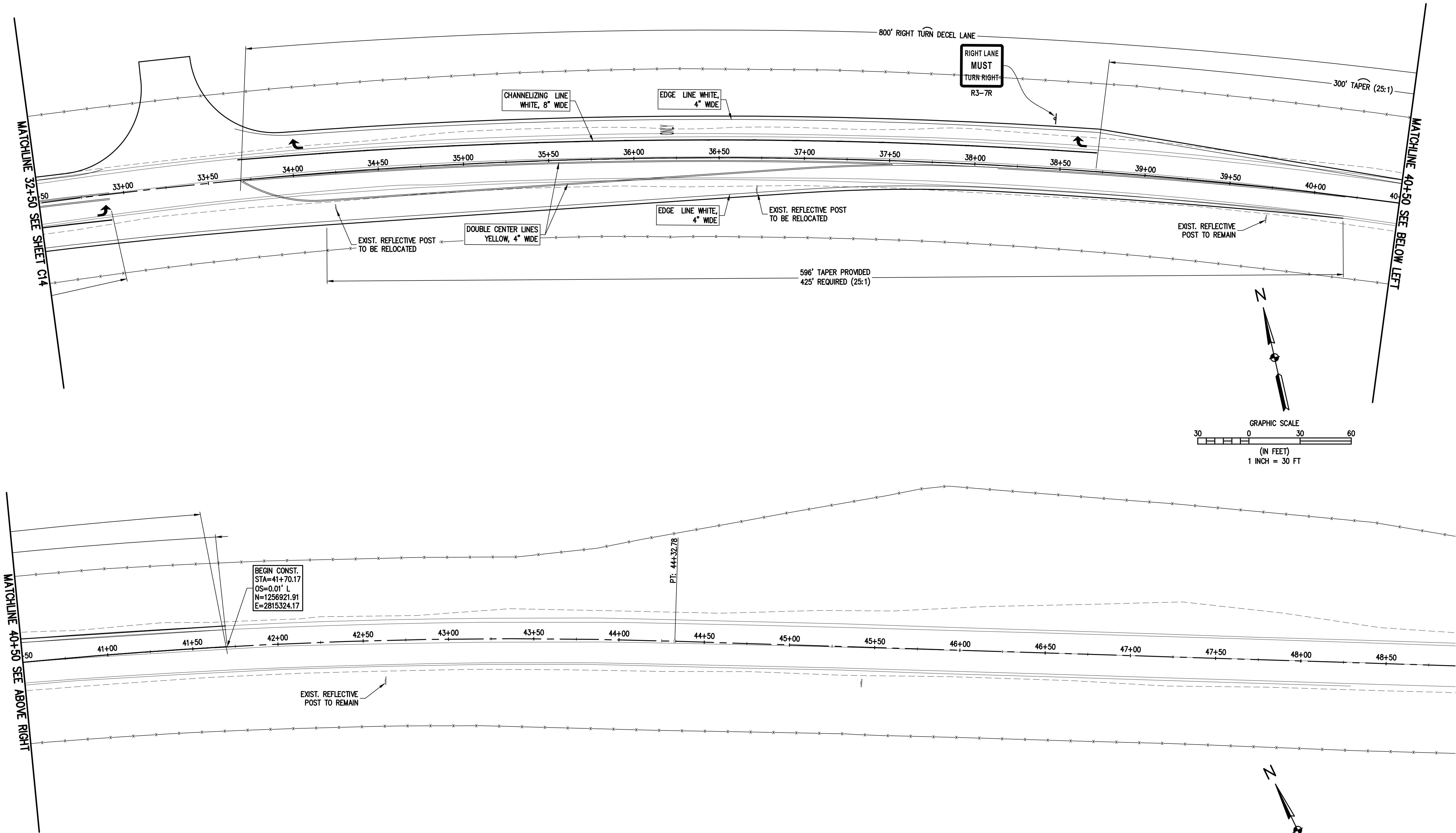
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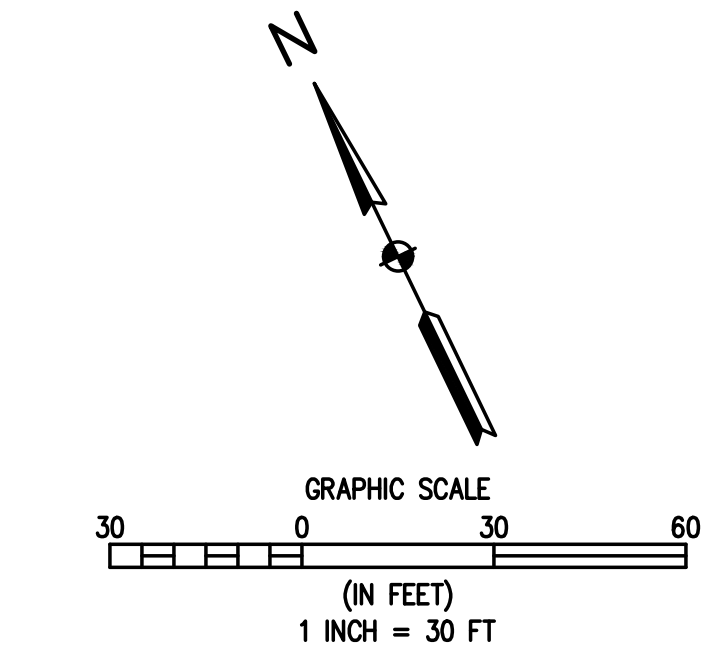


**NOTES:**

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2. PAVEMENT MARKING SYMBOLS AND WORDS SHALL BE PREFORMED THERMOPLASTIC PAVEMENT MARKING AND INLAID PER CDOT STANDARD SPECIFICATIONS.
3. DELINEATOR INSTALLATION SHALL BE PER CDOT M&S STANDARD S-612-1.

**DELINEATOR SYMBOLS:**

- |  |                     |
|--|---------------------|
|  | TYPE I (CRYSTAL)    |
|  | TYPE II (2 CRYSTAL) |
|  | TYPE III (3 YELLOW) |



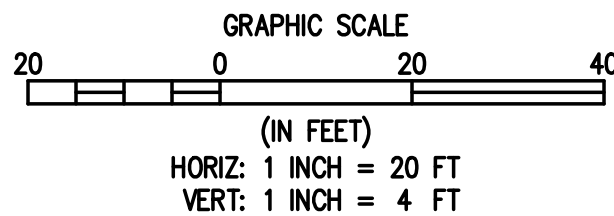
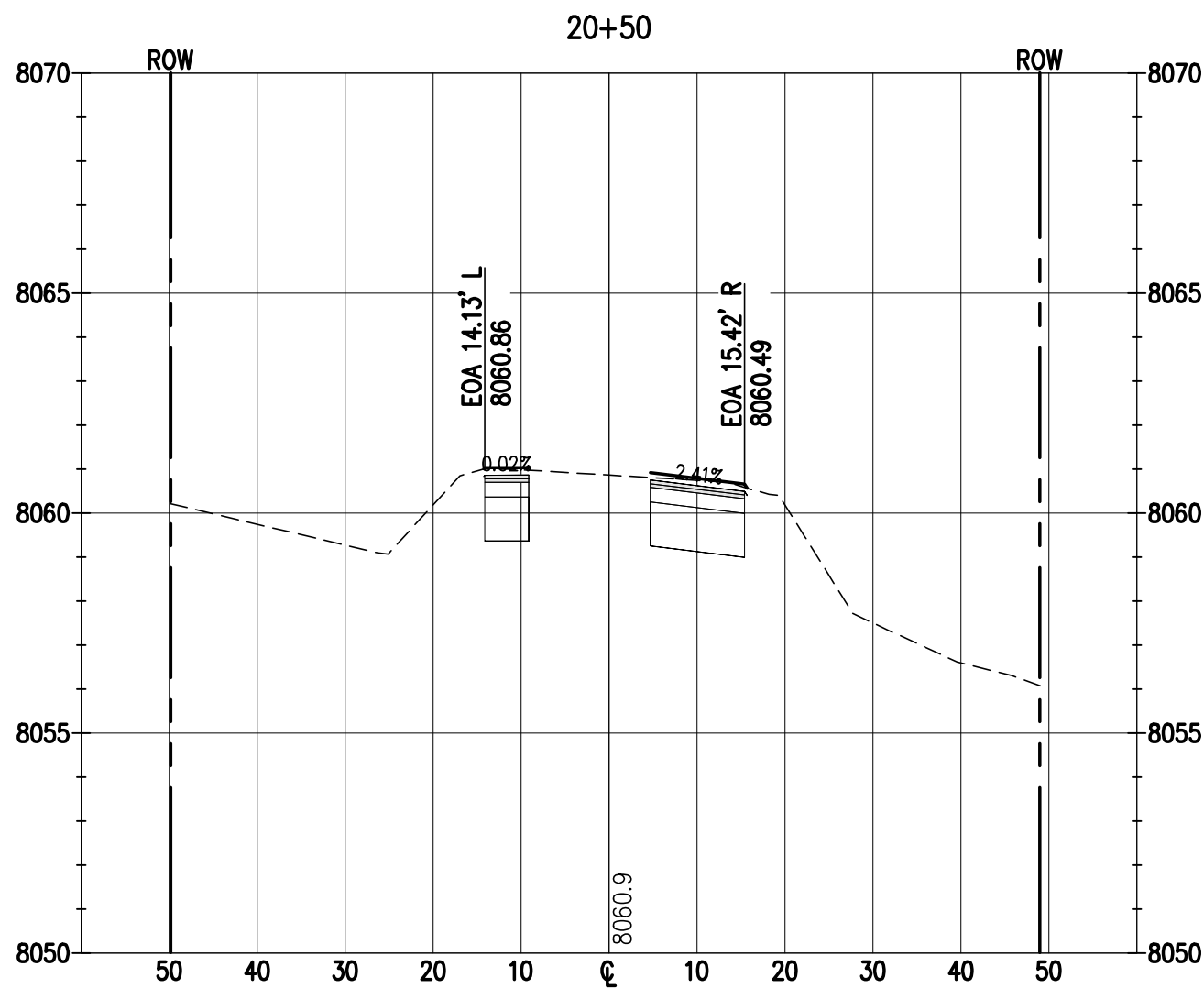
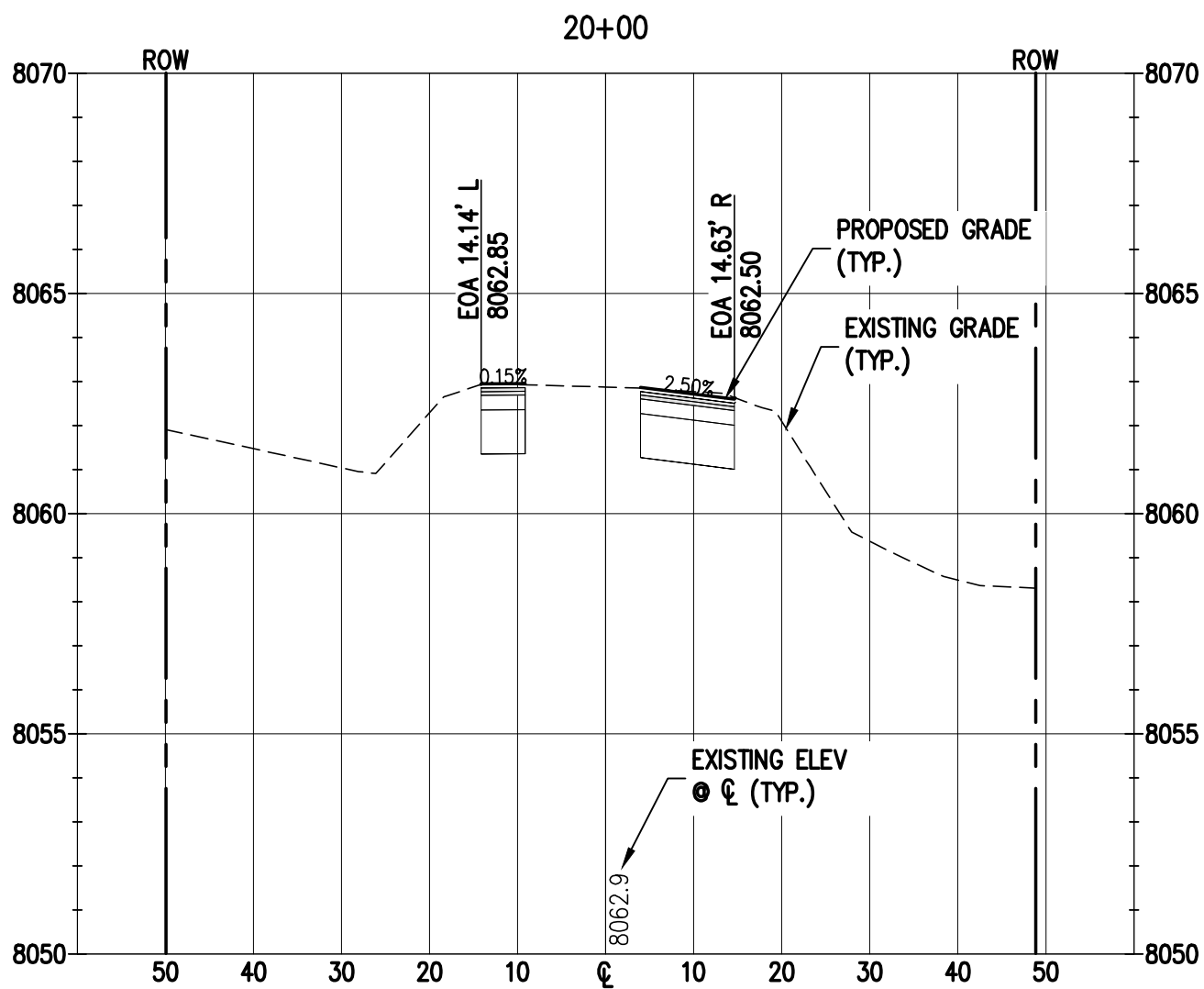
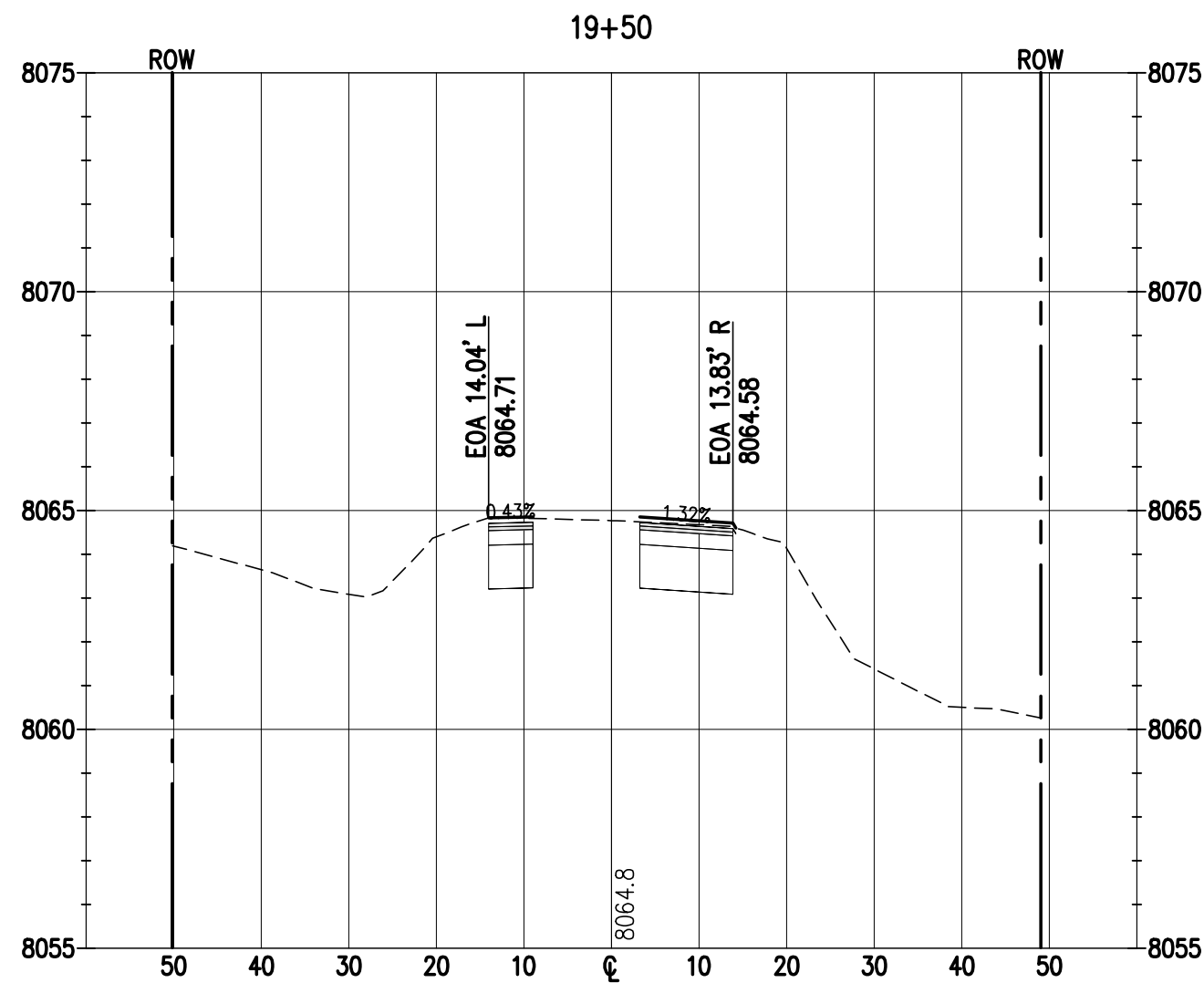
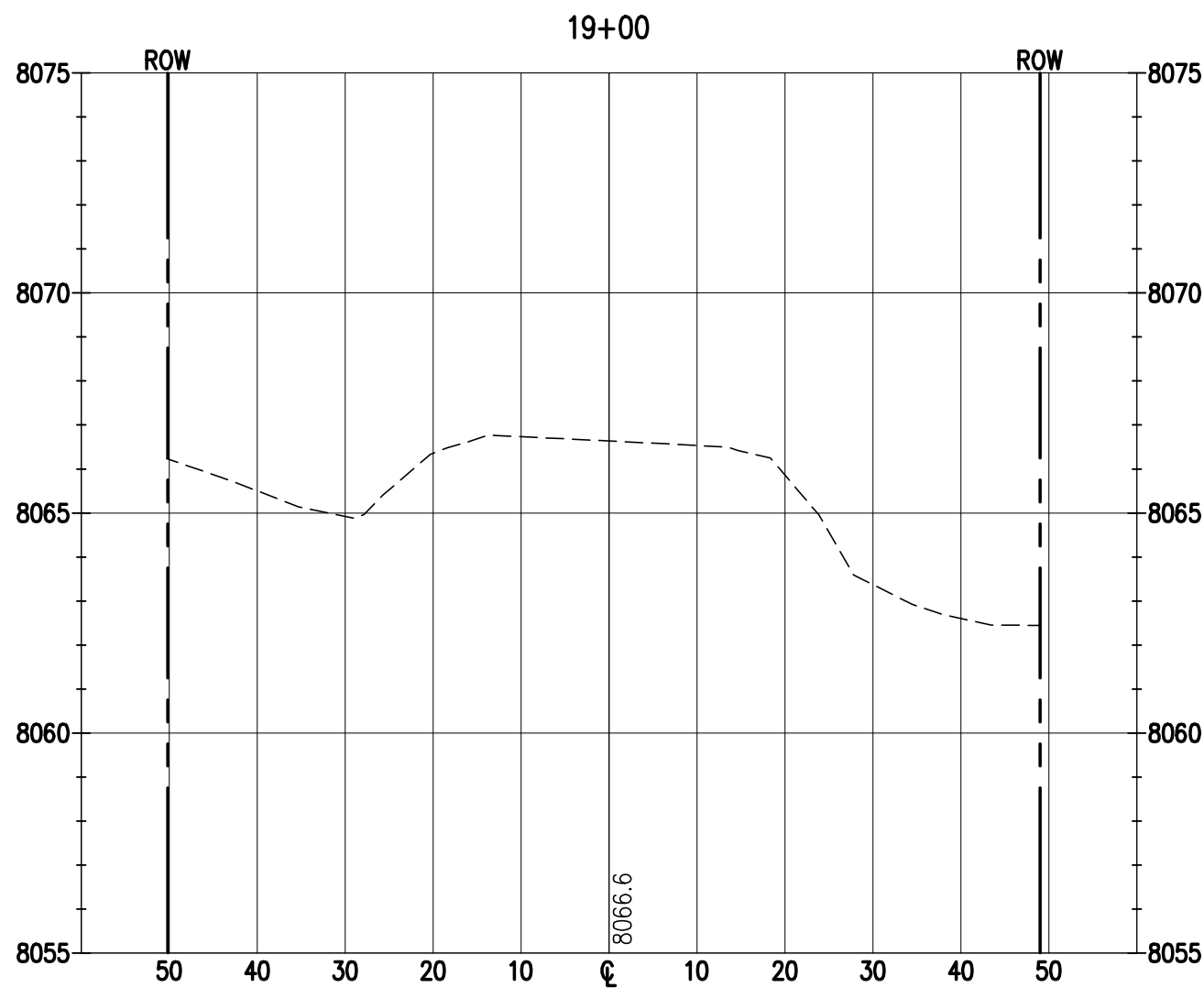
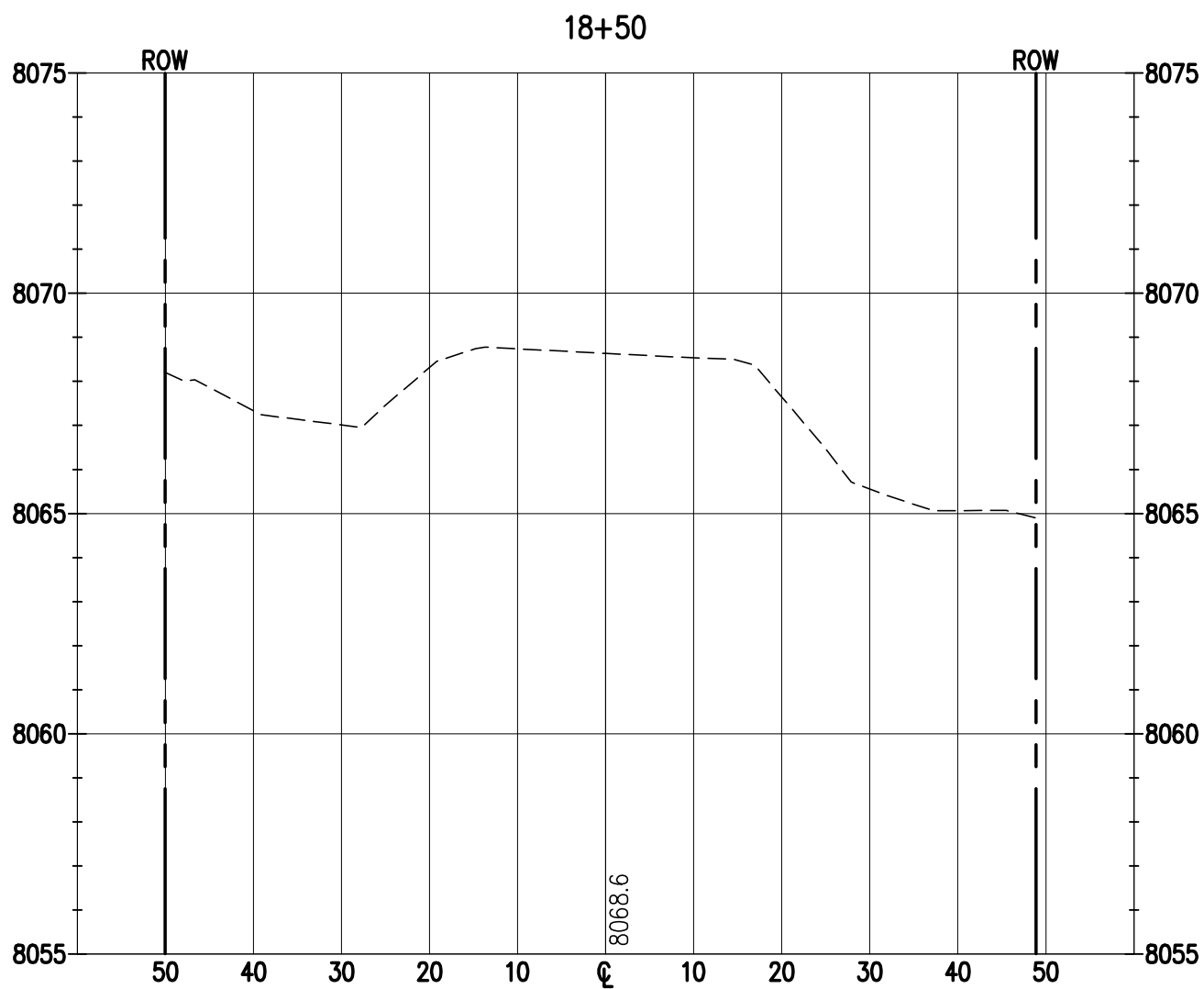
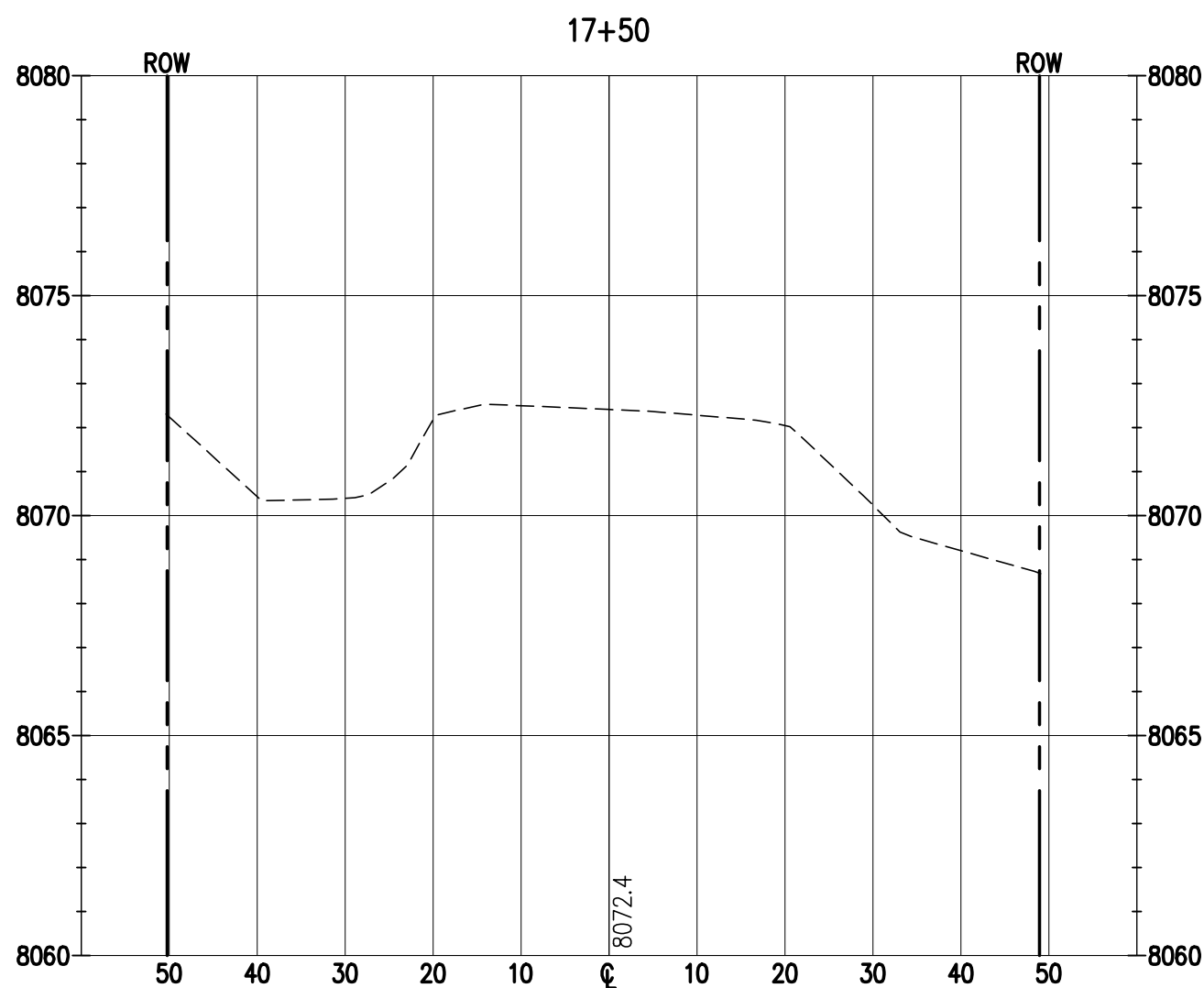
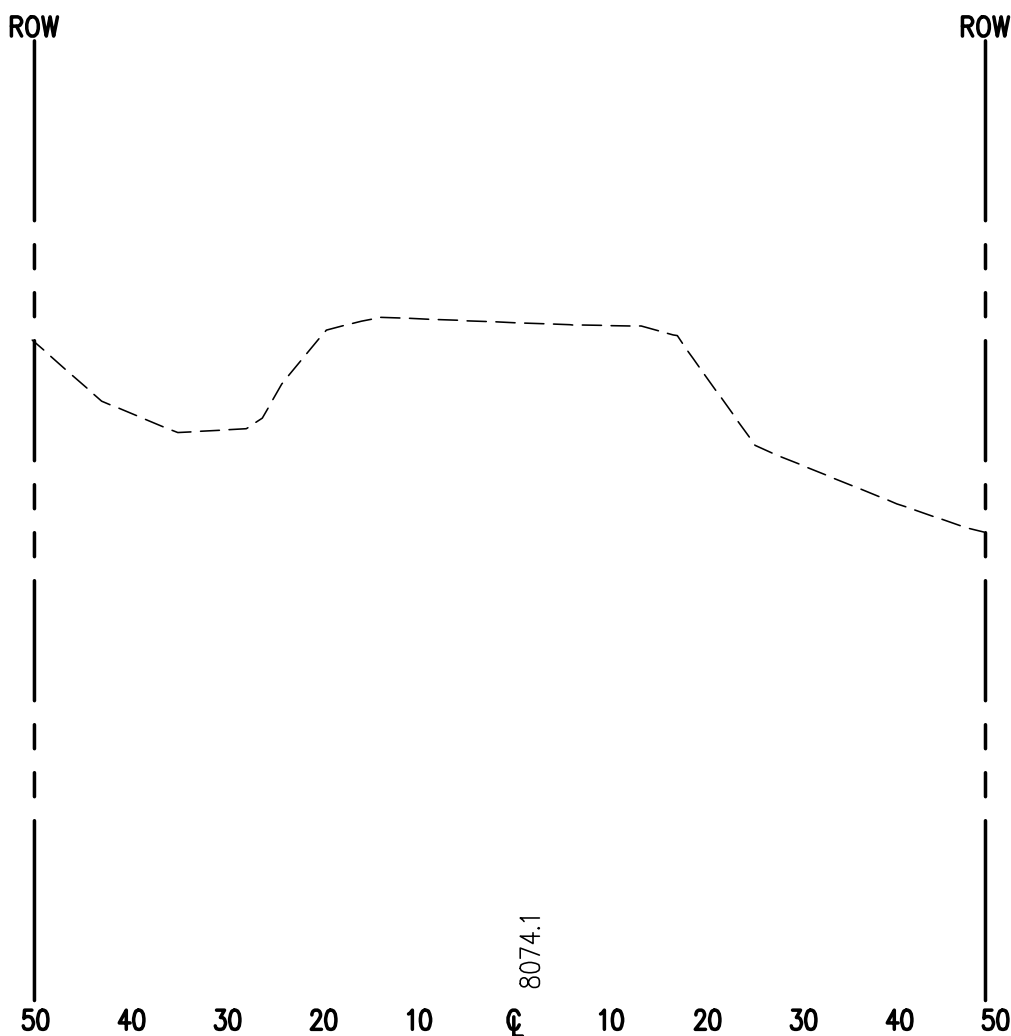
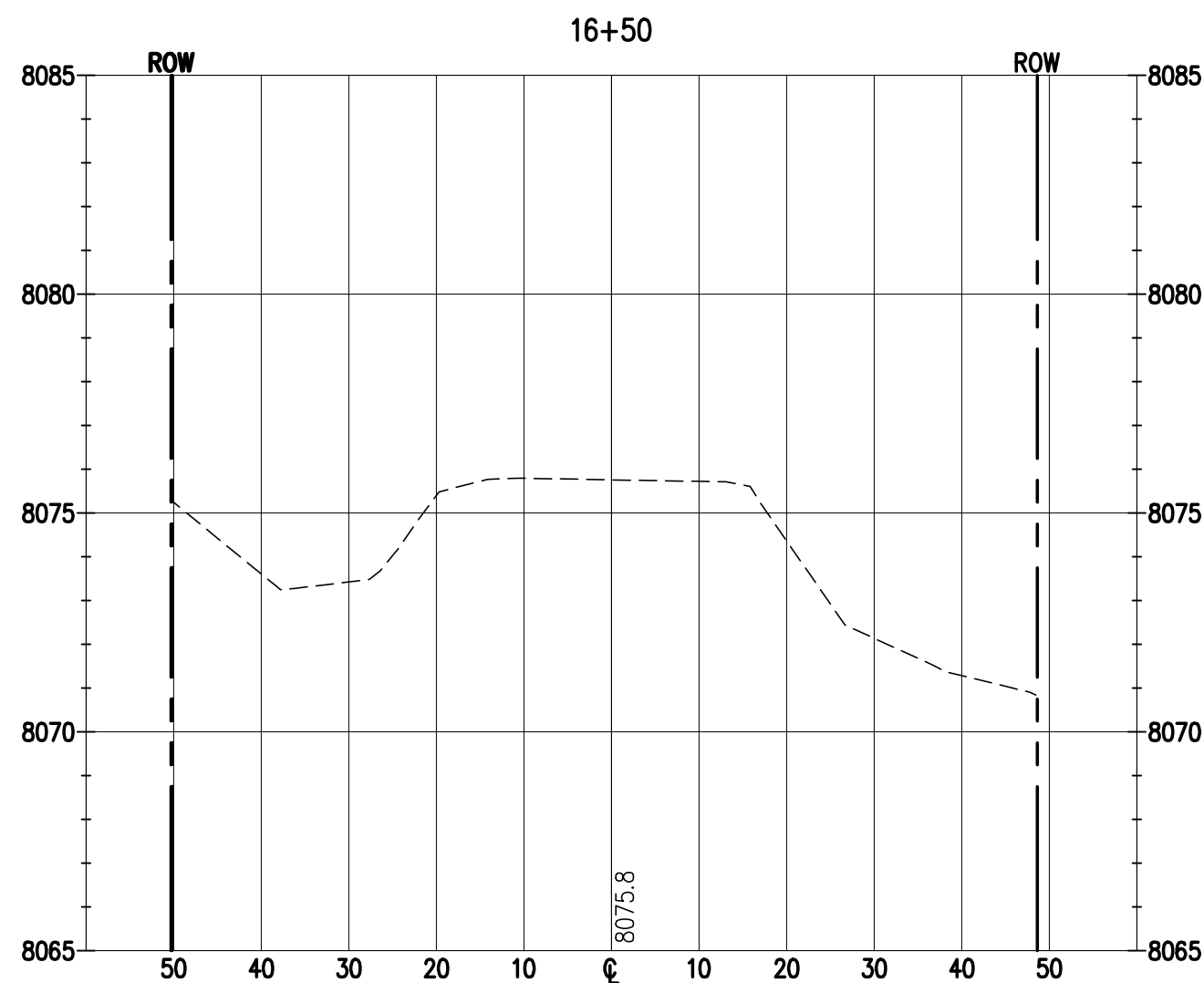
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HWY 50 SIGN & STRIPING PLAN

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**ACA PRODUCTS, INC.**  
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CHAFFEE COUNTY  
HIGHWAY 50 TURN LANES  
HIGHWAY 50 & COUNTY ROAD 219  
HWY 50 SIGN & STRIPING PLAN

FOR AND ON BEHALF OF BASELINE CORPORATION	
39820	
PROFESSIONAL ENGINEER	
COLORED LICENSED	
NO. H. NEIMMEYER	
01/27/2020	
INITIAL SUBMITTAL	01/27/2020
DRAWING SIZE	22" X 34"
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SURVEY DATE	05/23/19
JOB NO.	C03383
DRAWING NAME	3383PR_Sign&Stripe.dwg
SHEET	15 OF 21

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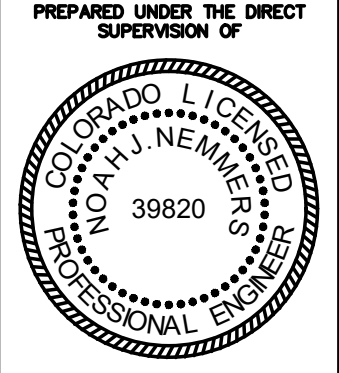
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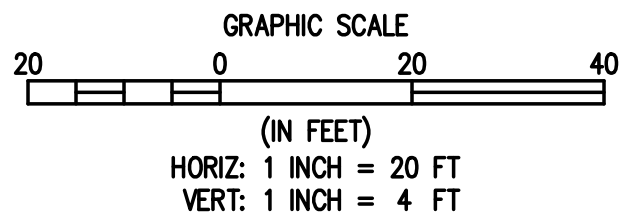
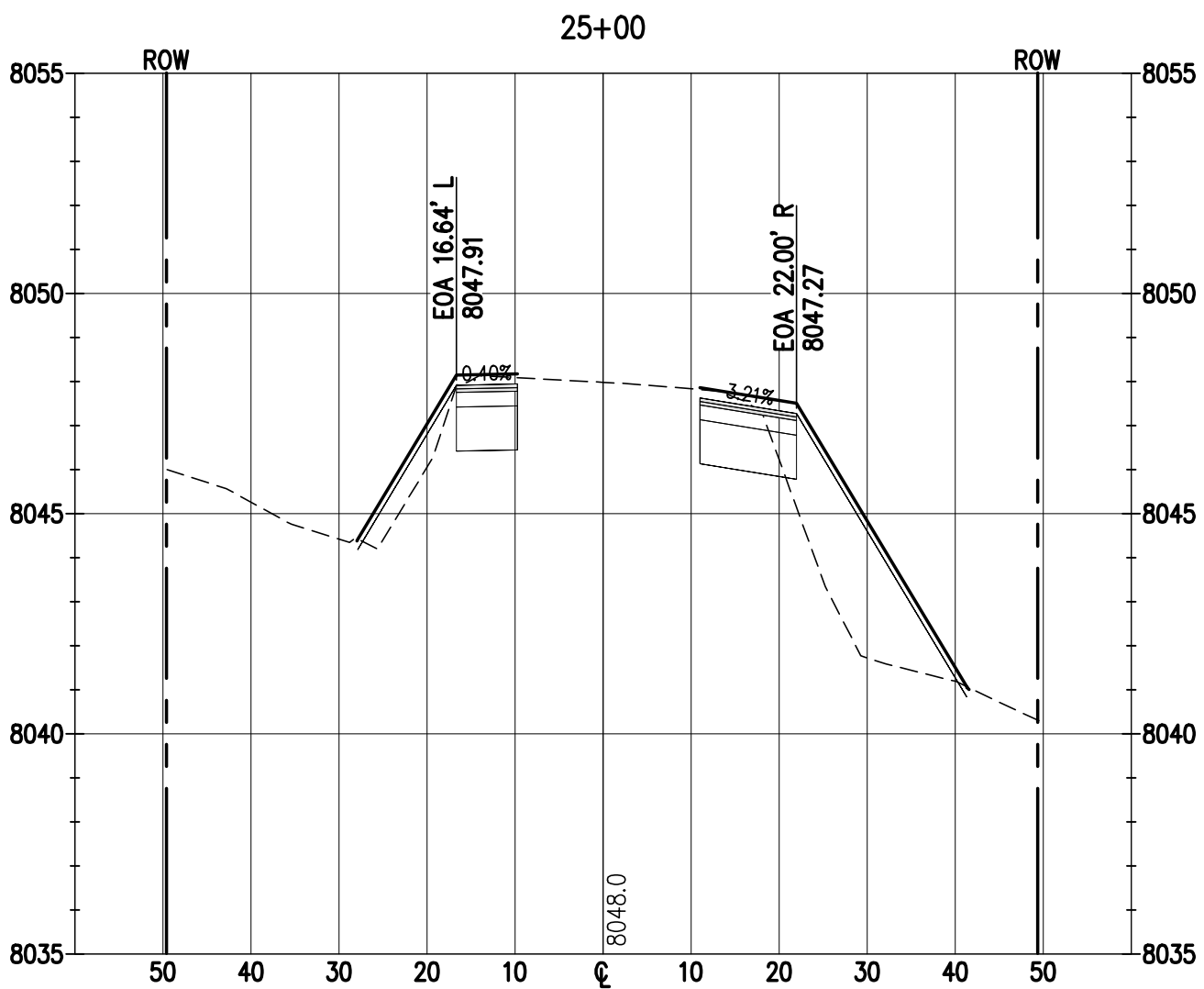
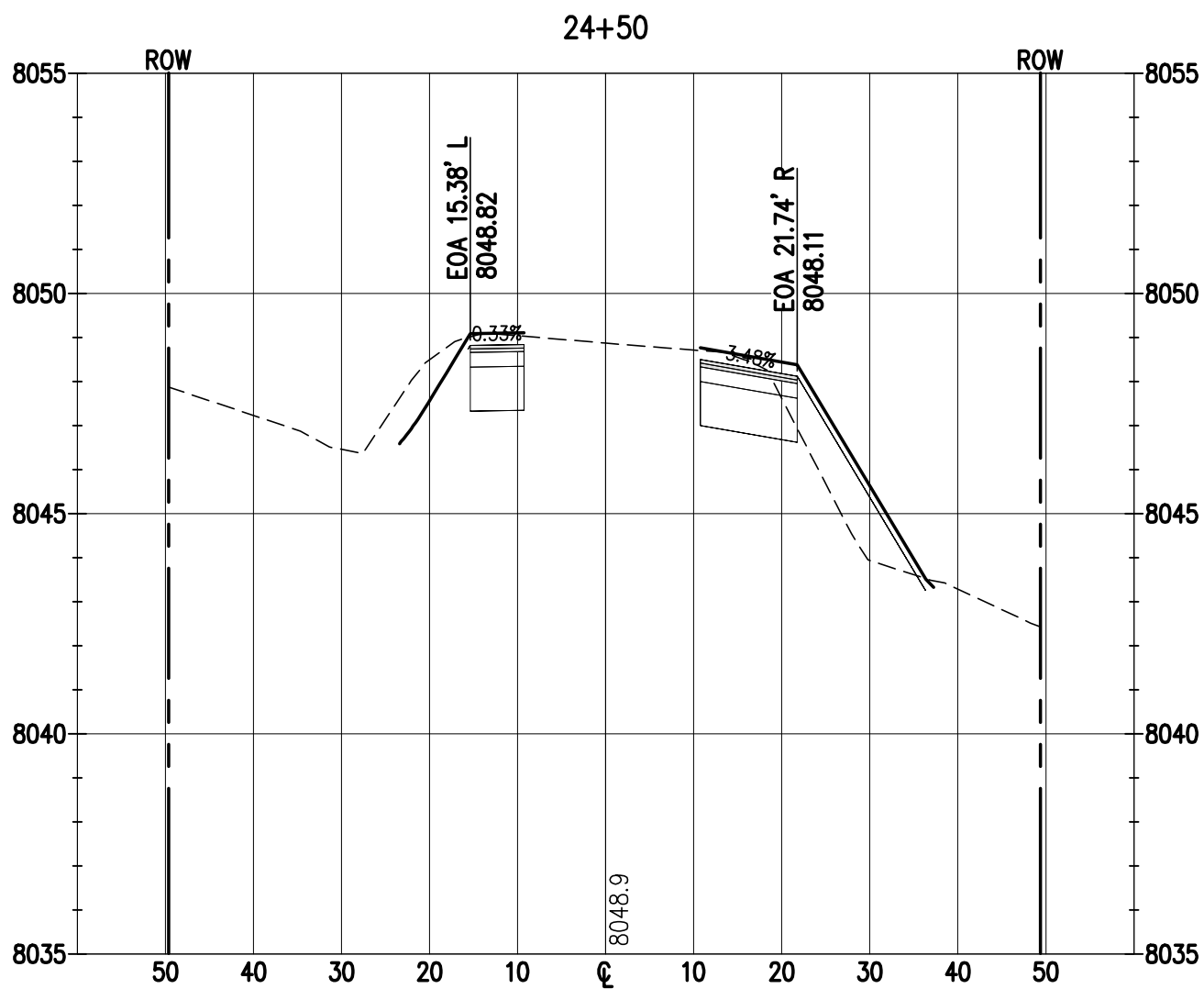
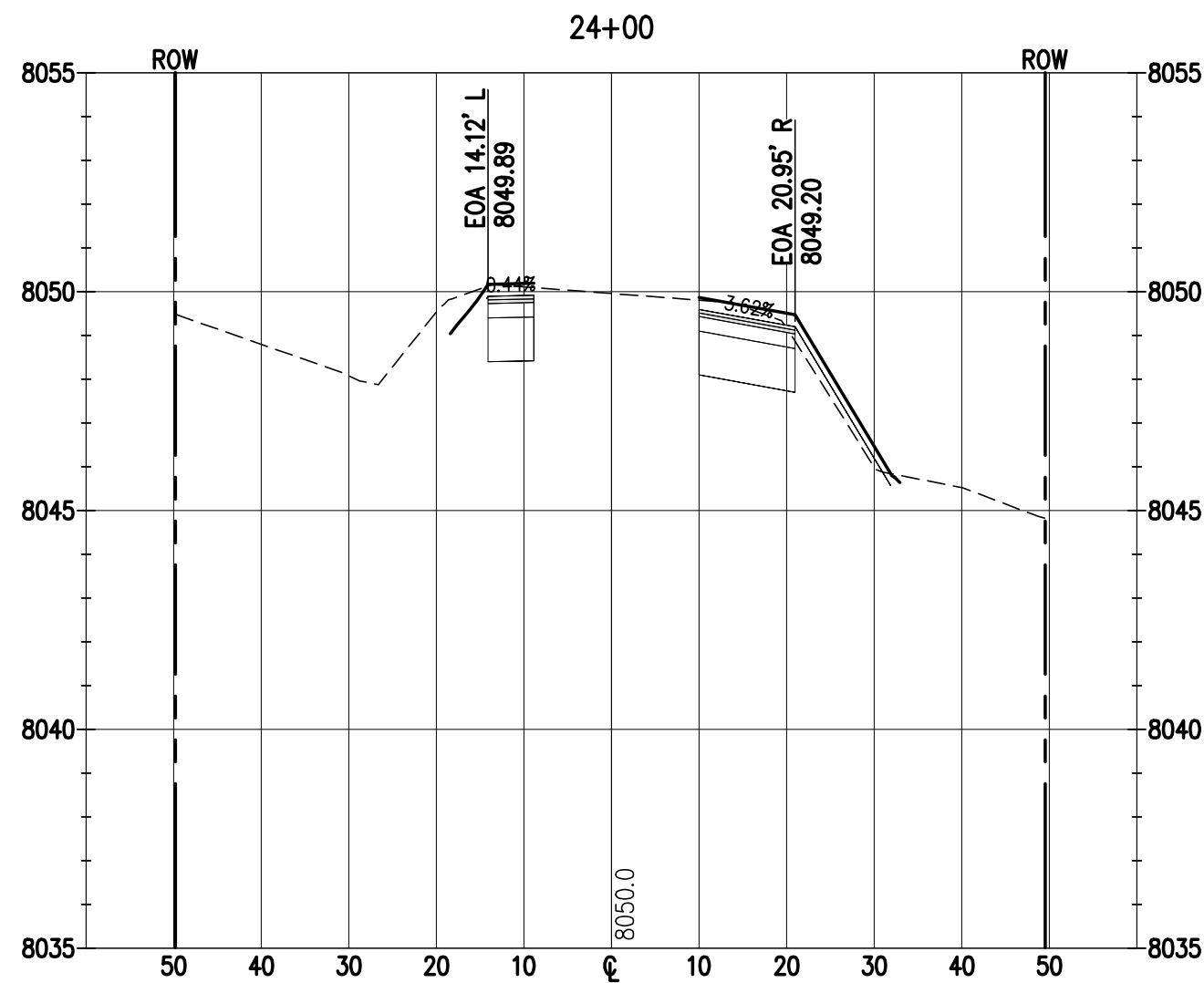
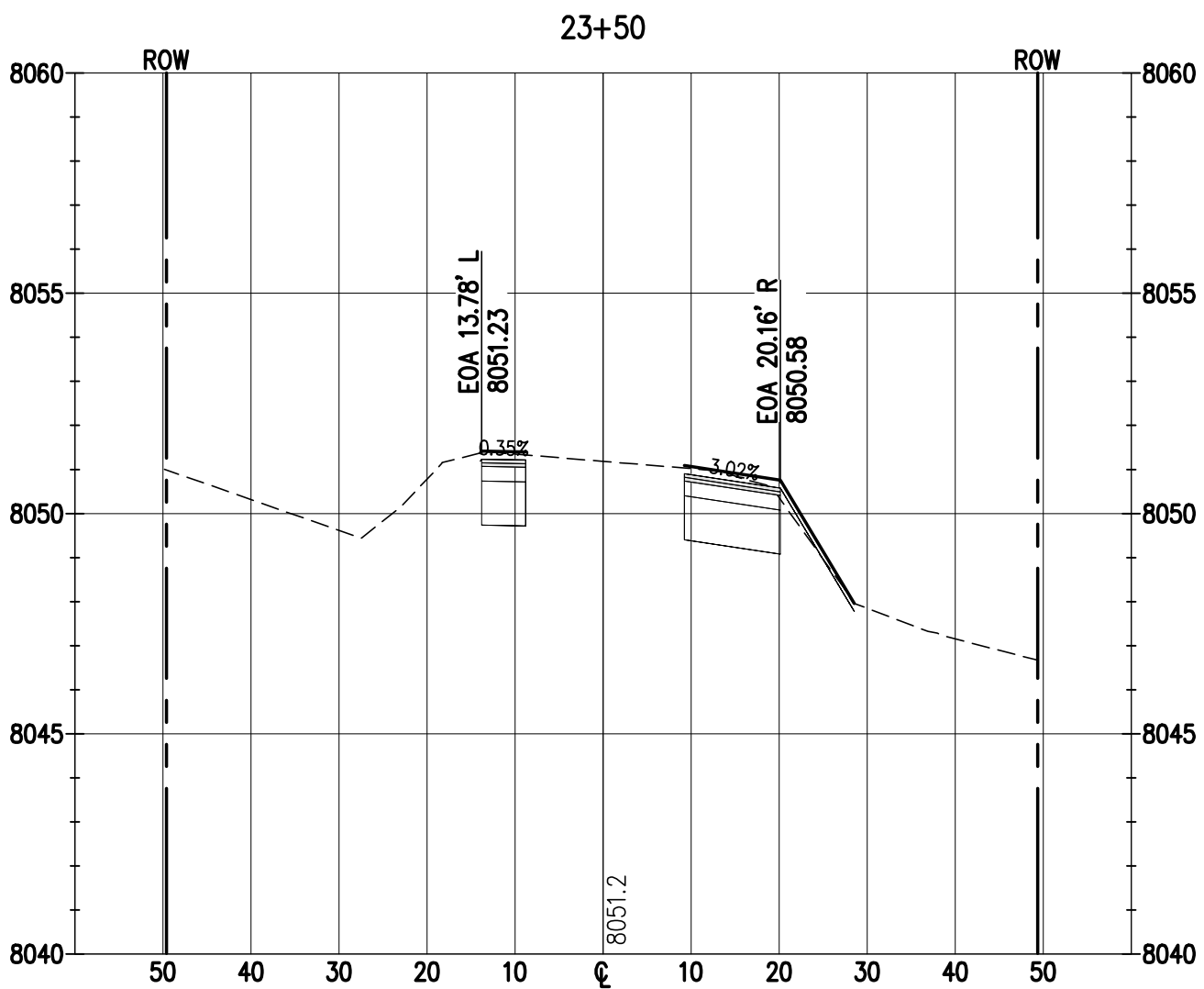
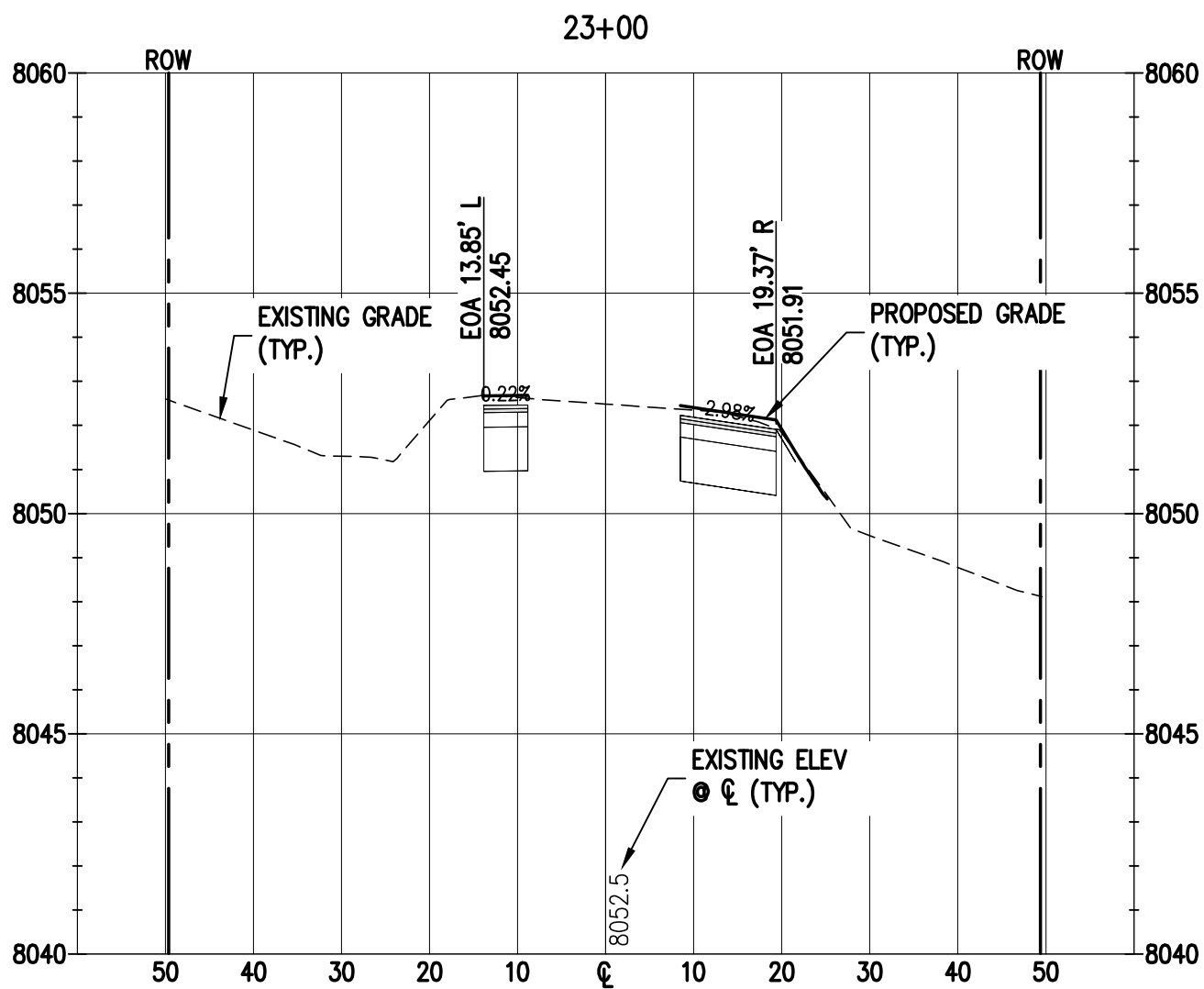
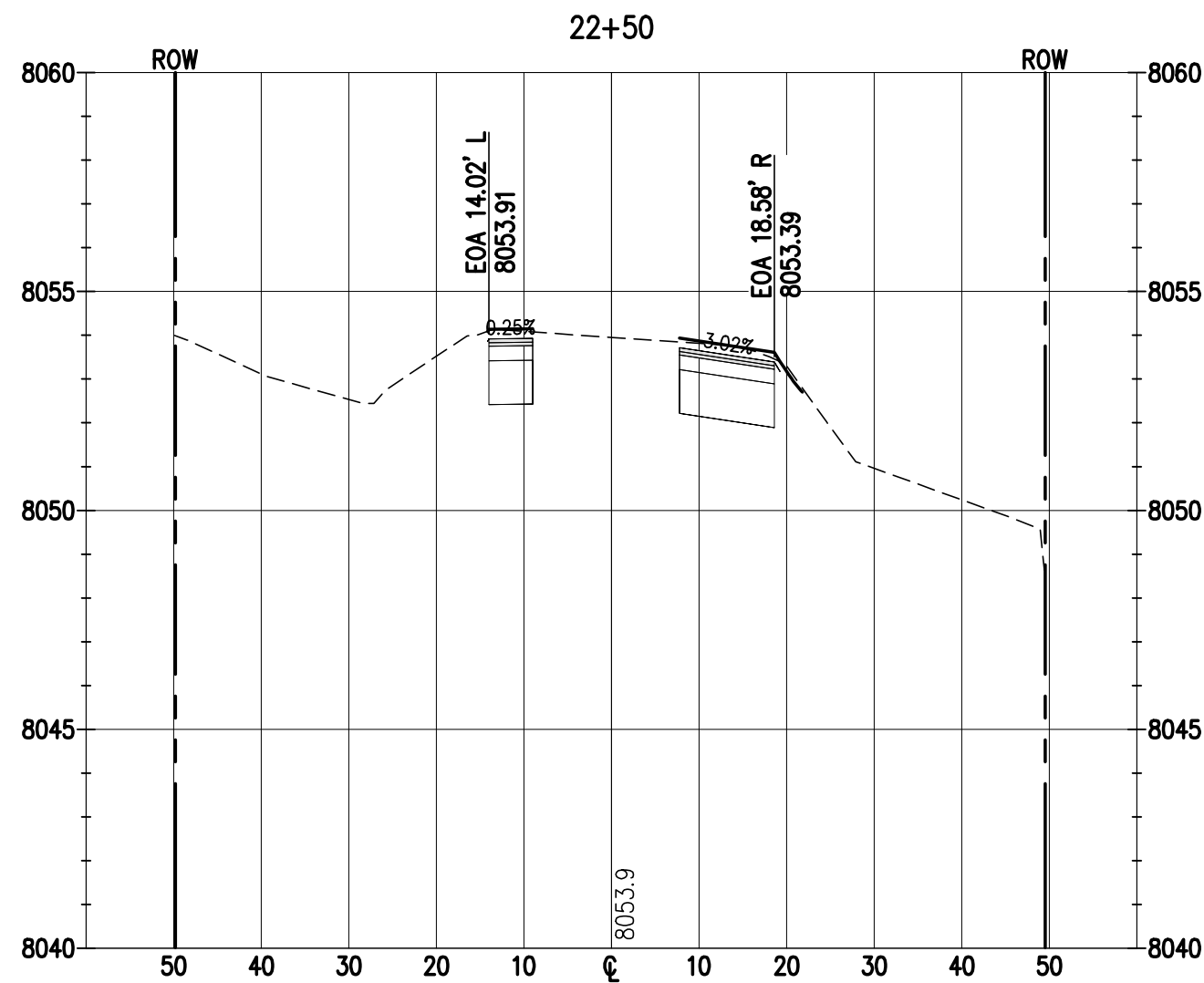
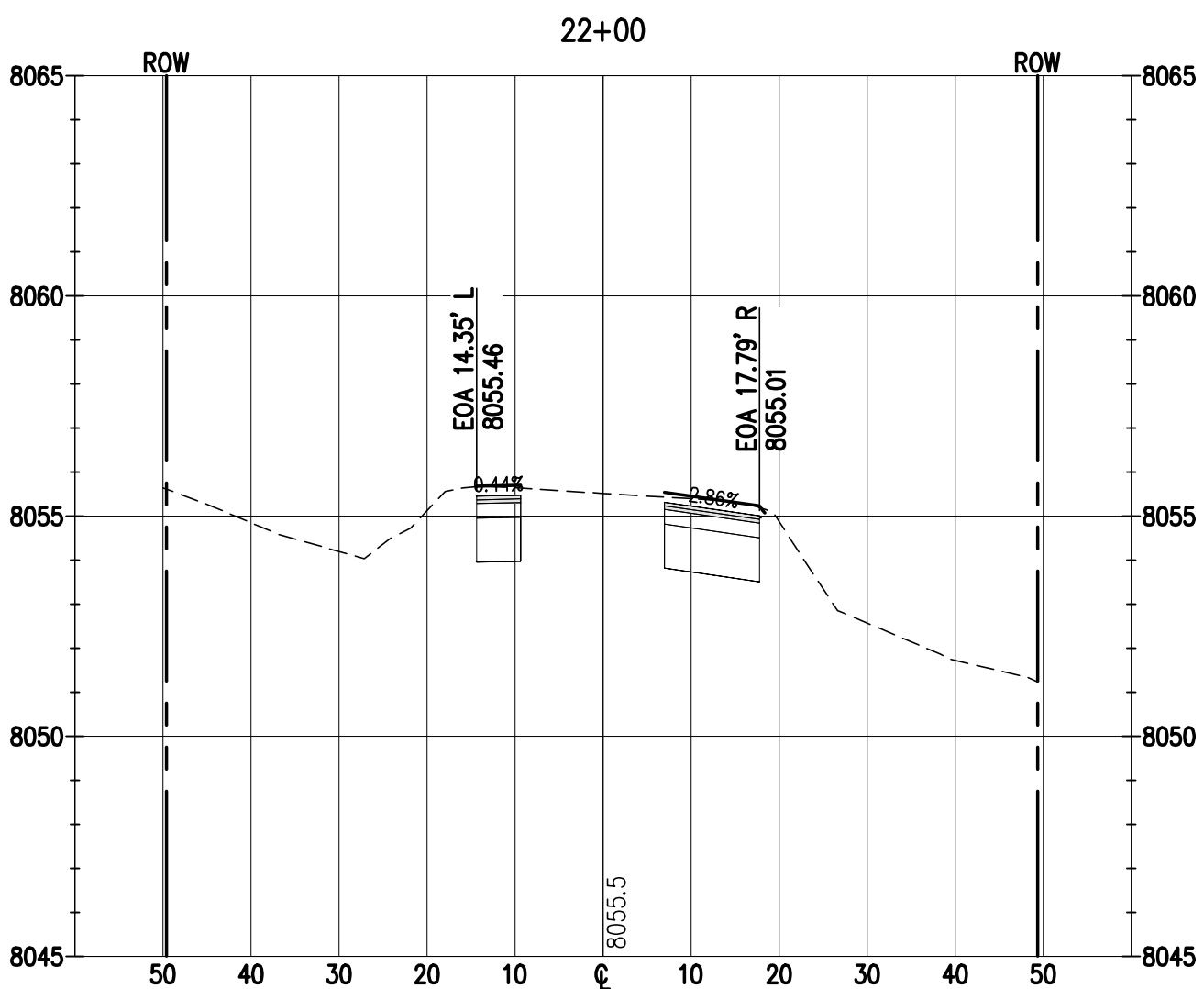
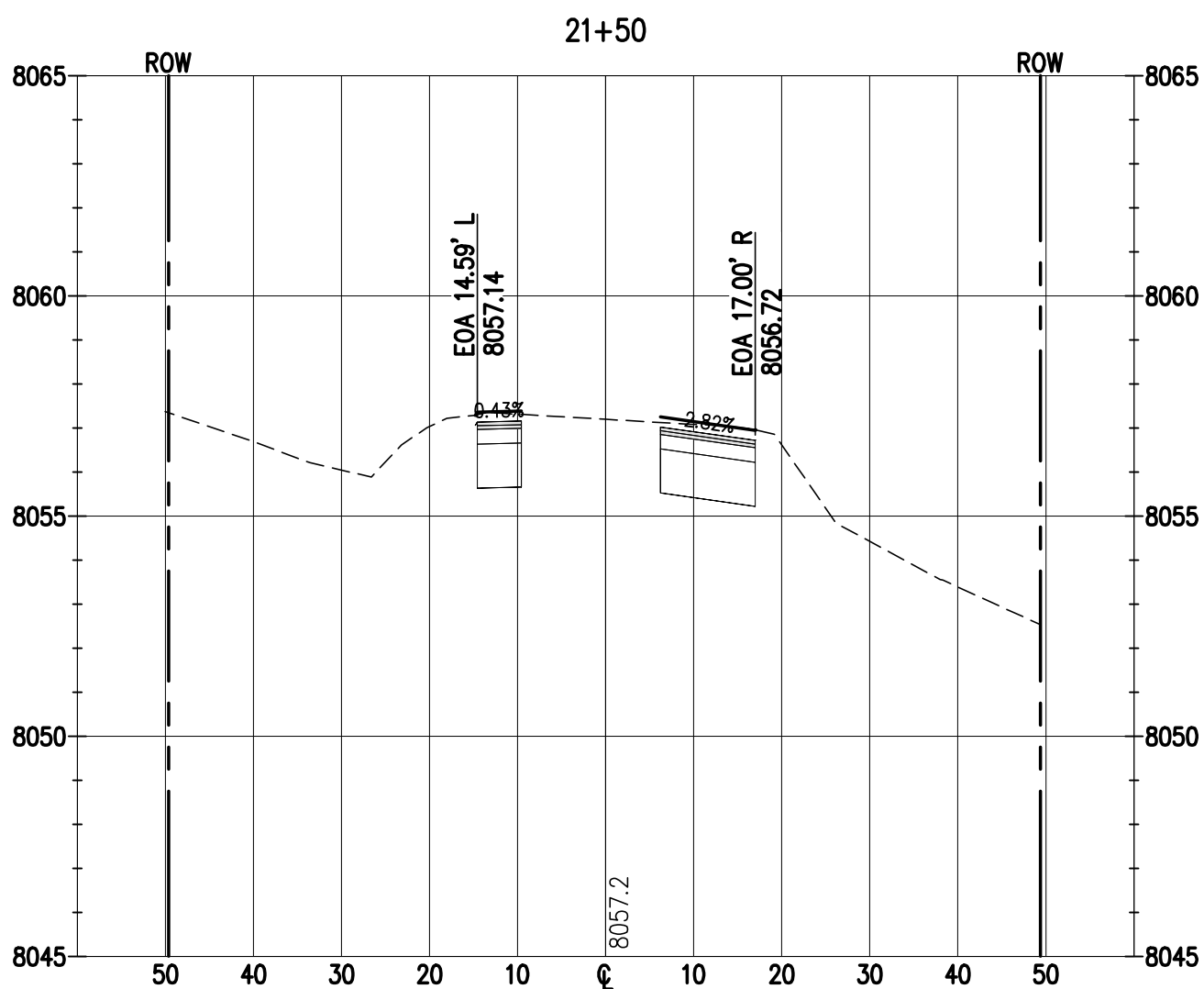
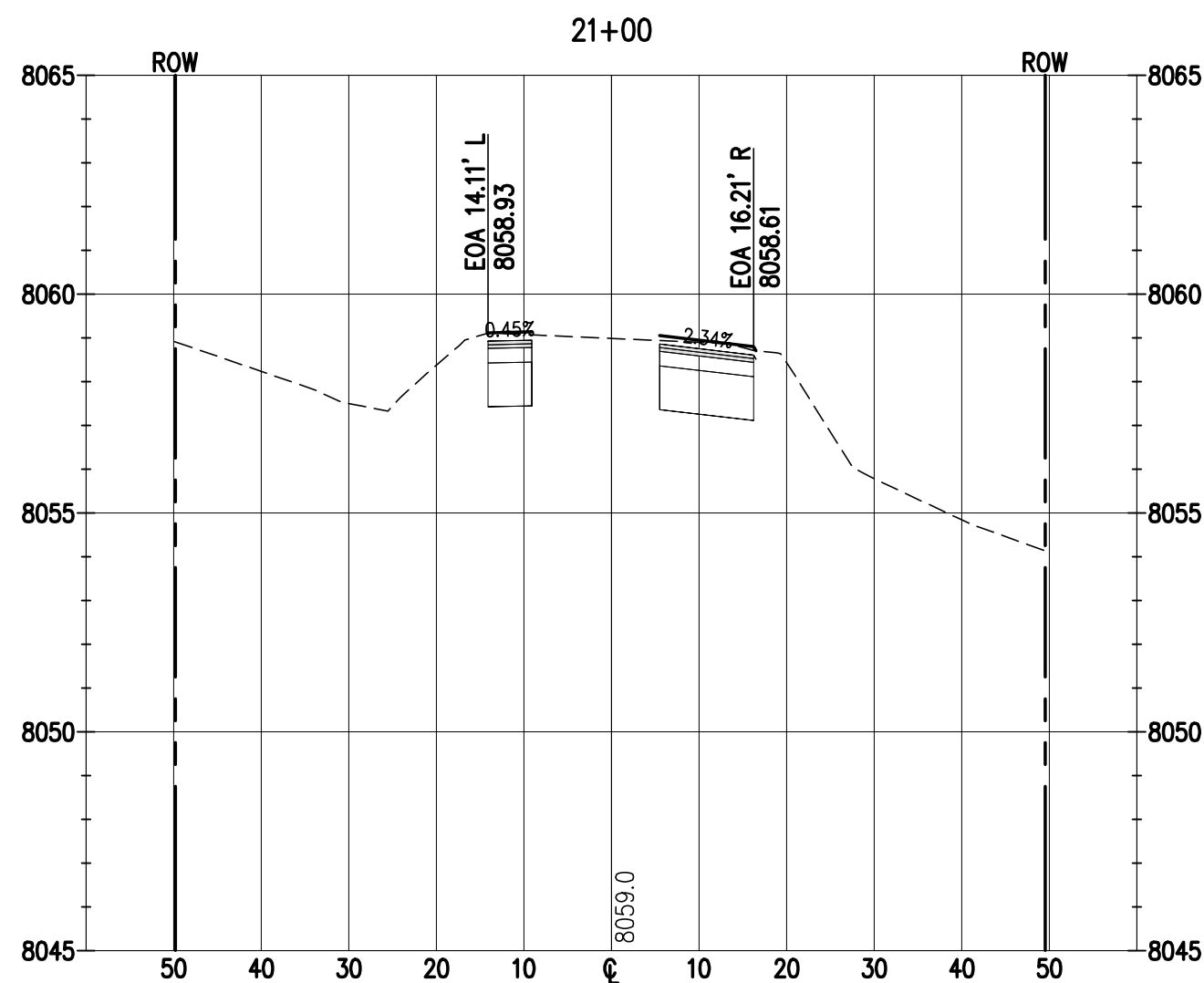
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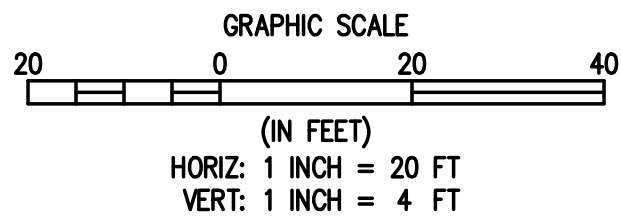
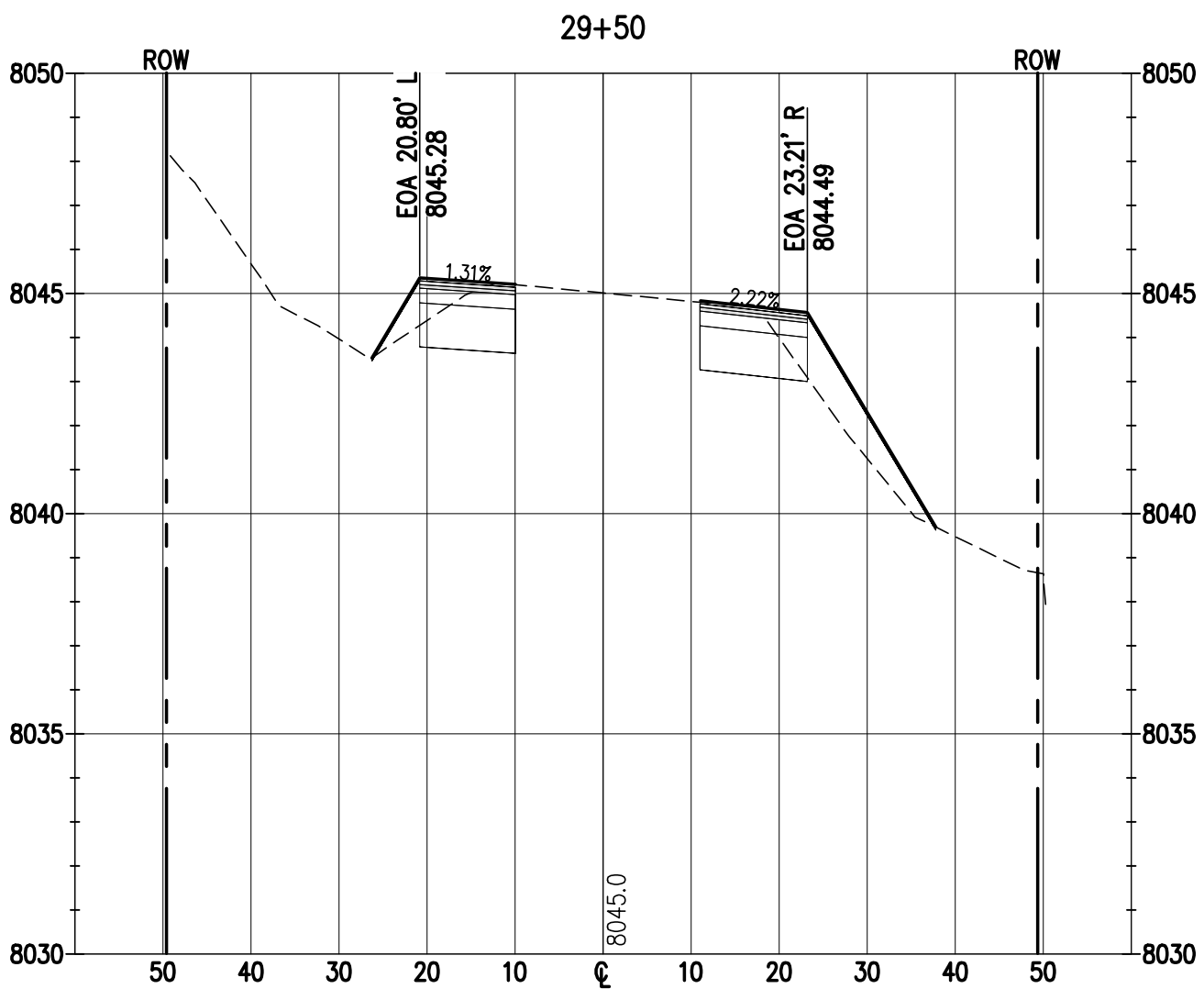
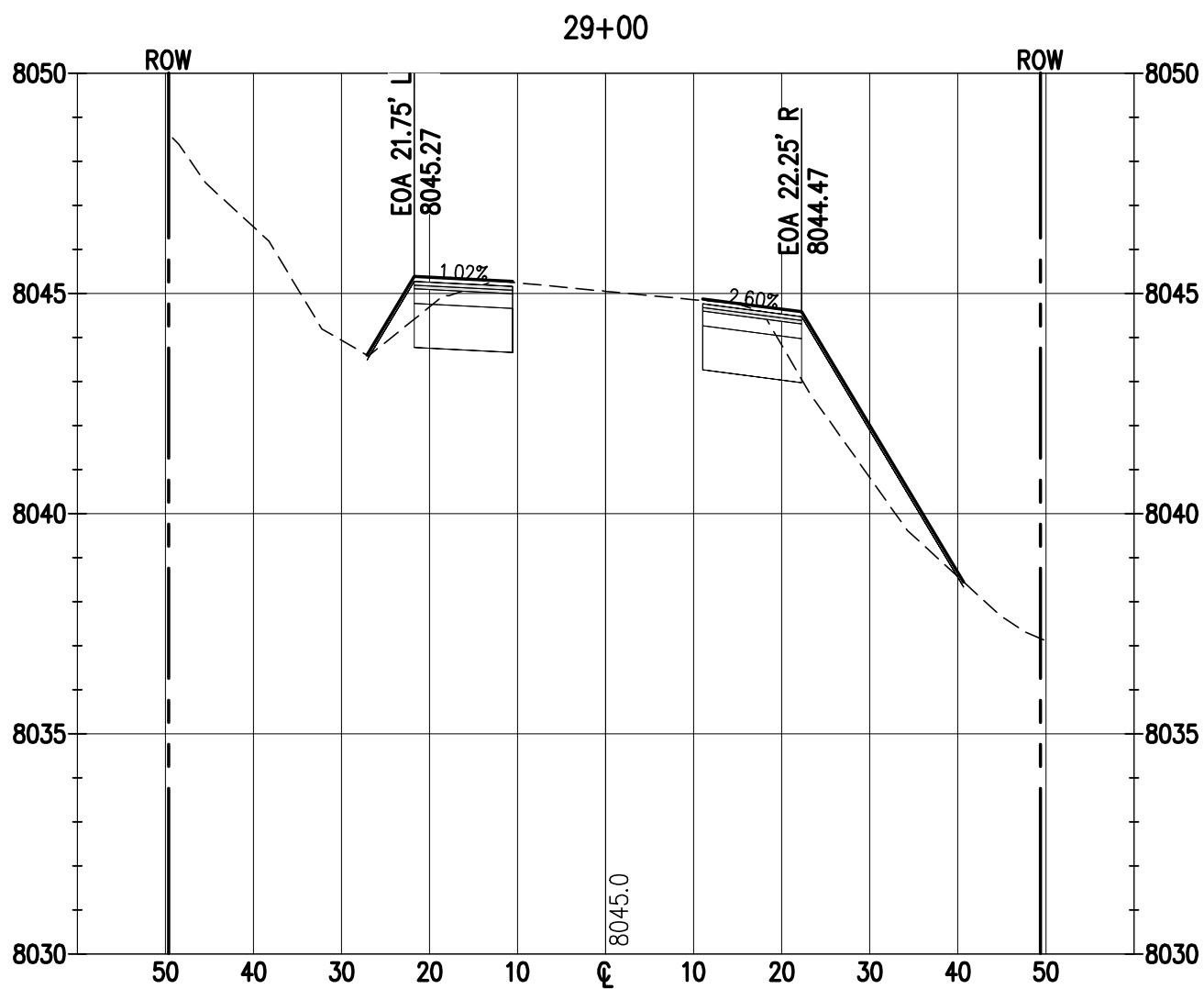
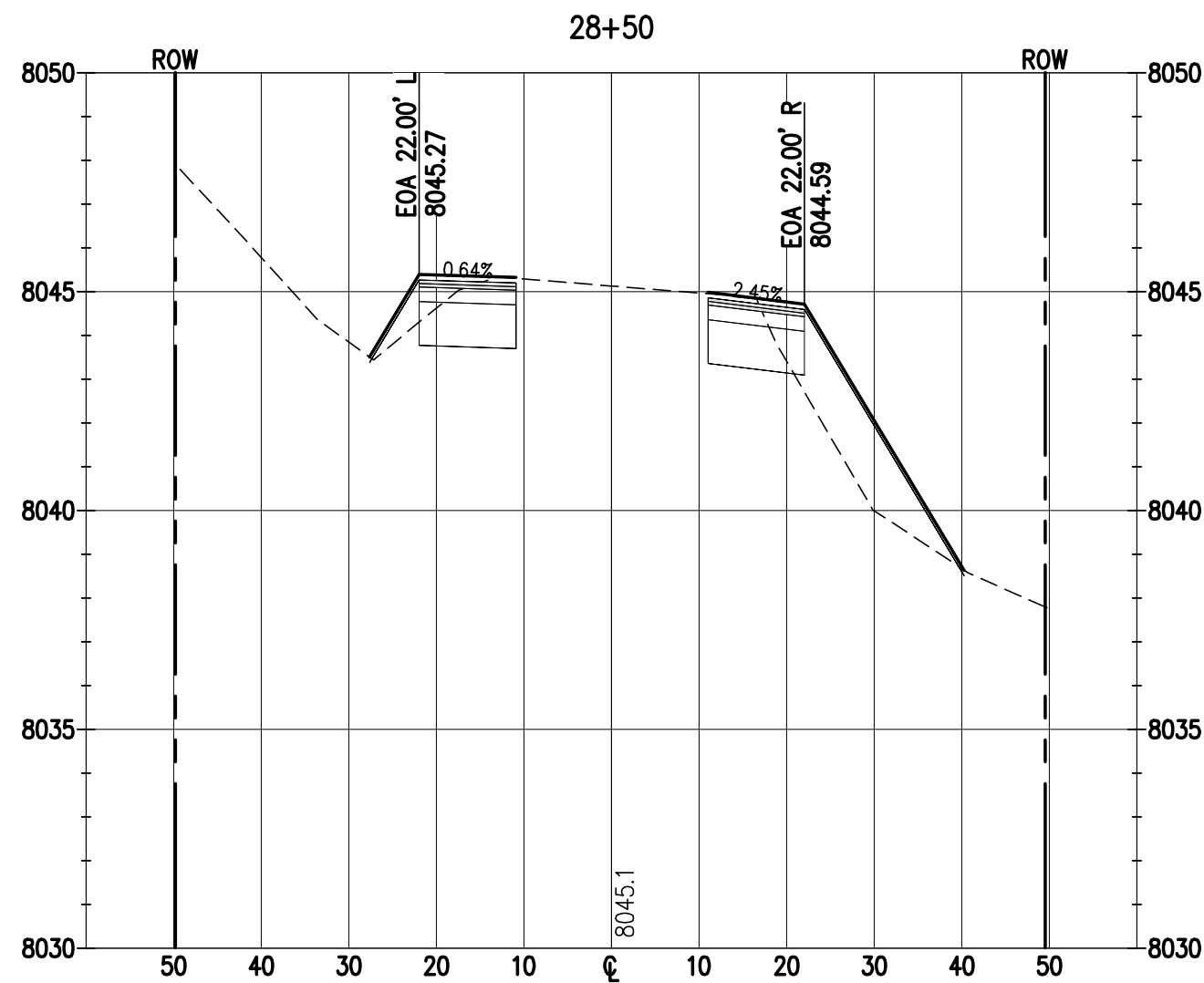
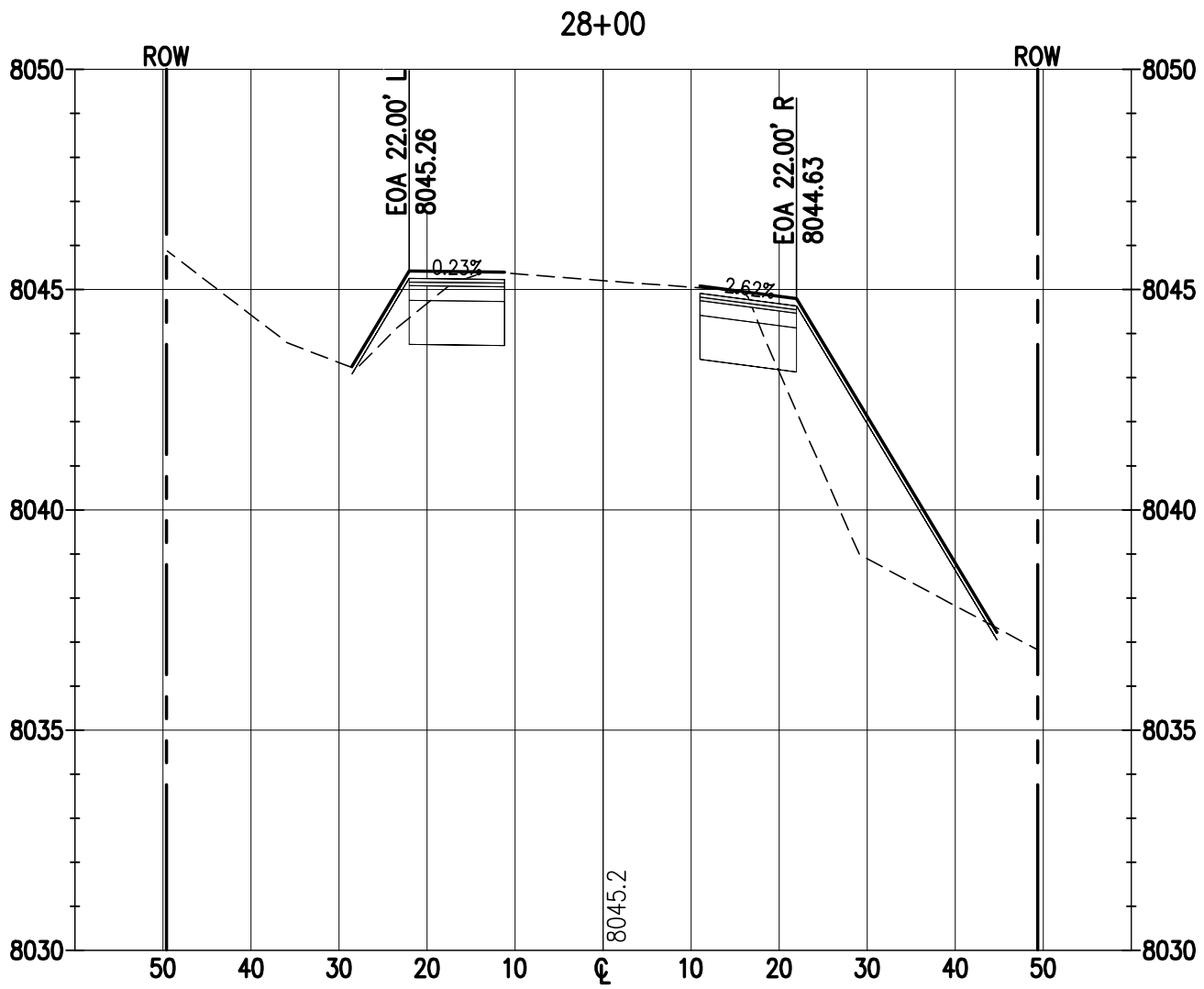
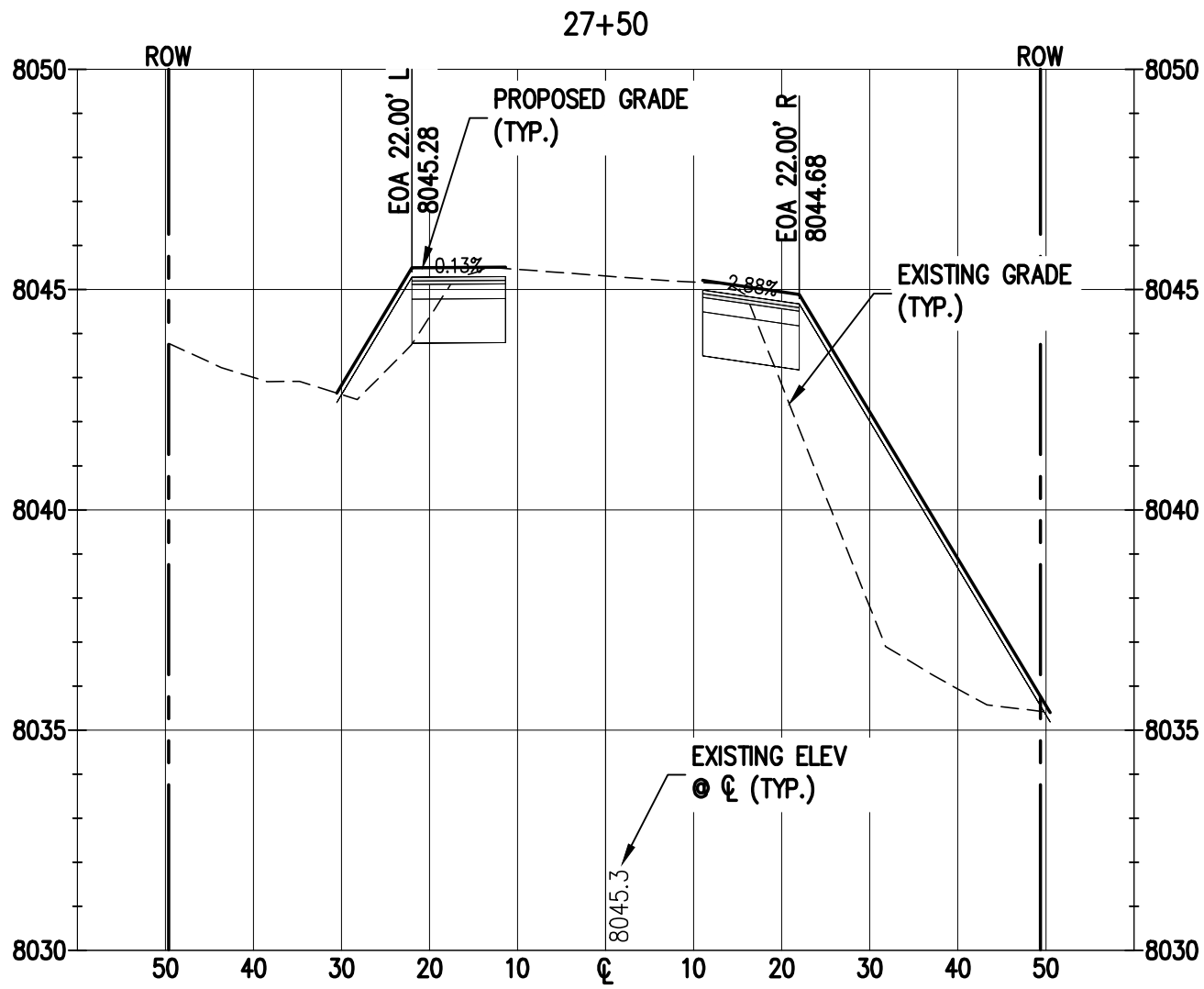
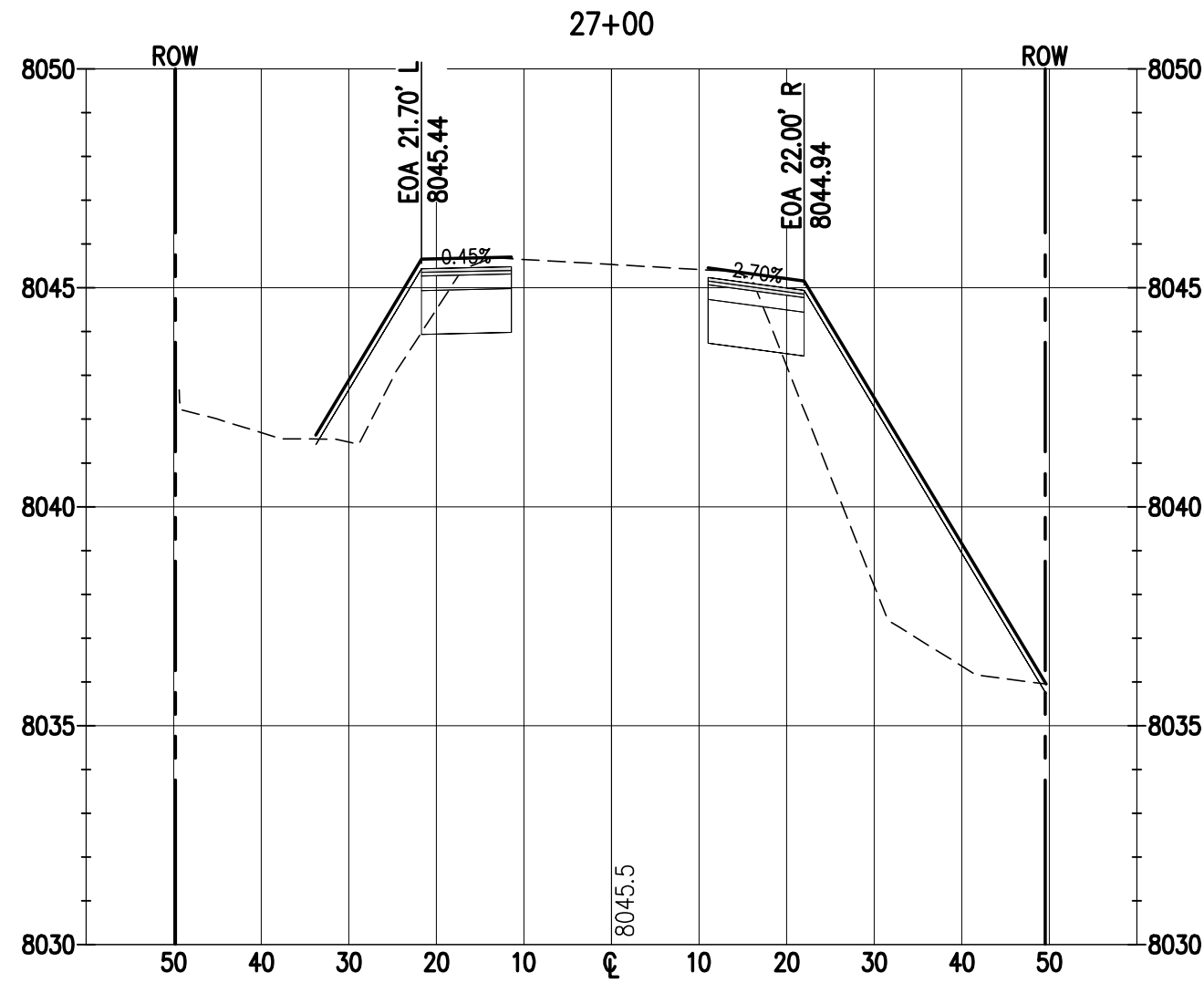
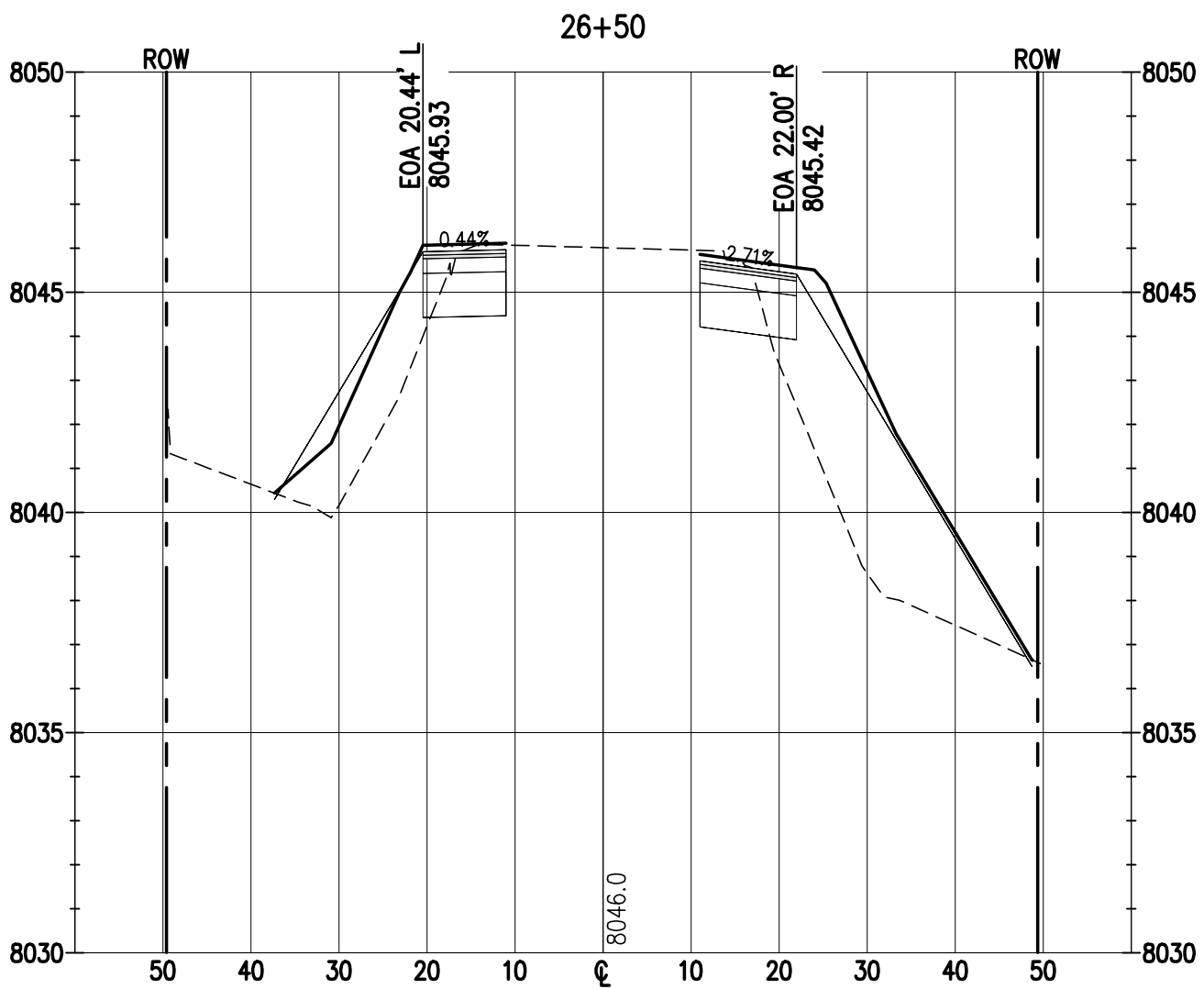
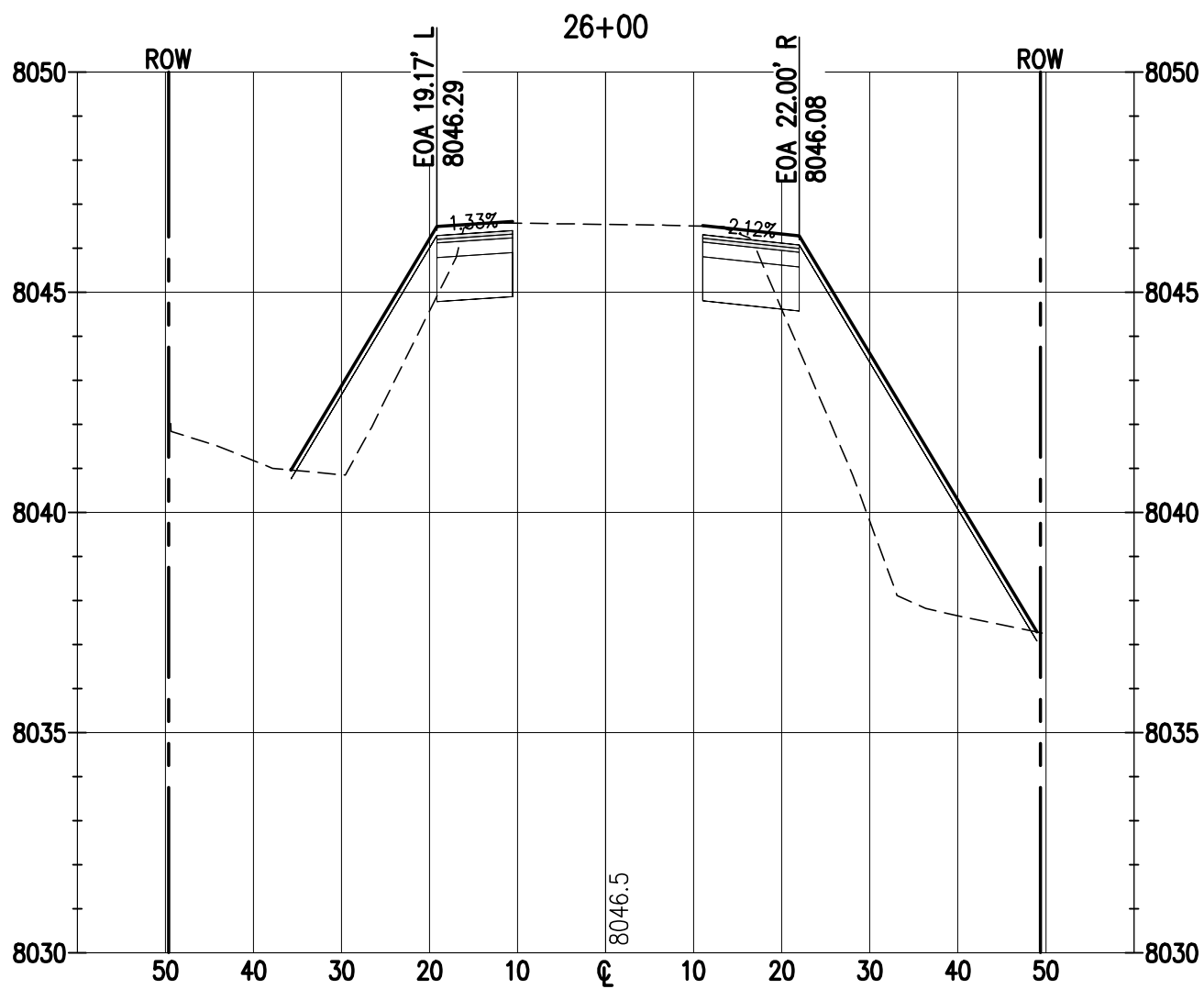
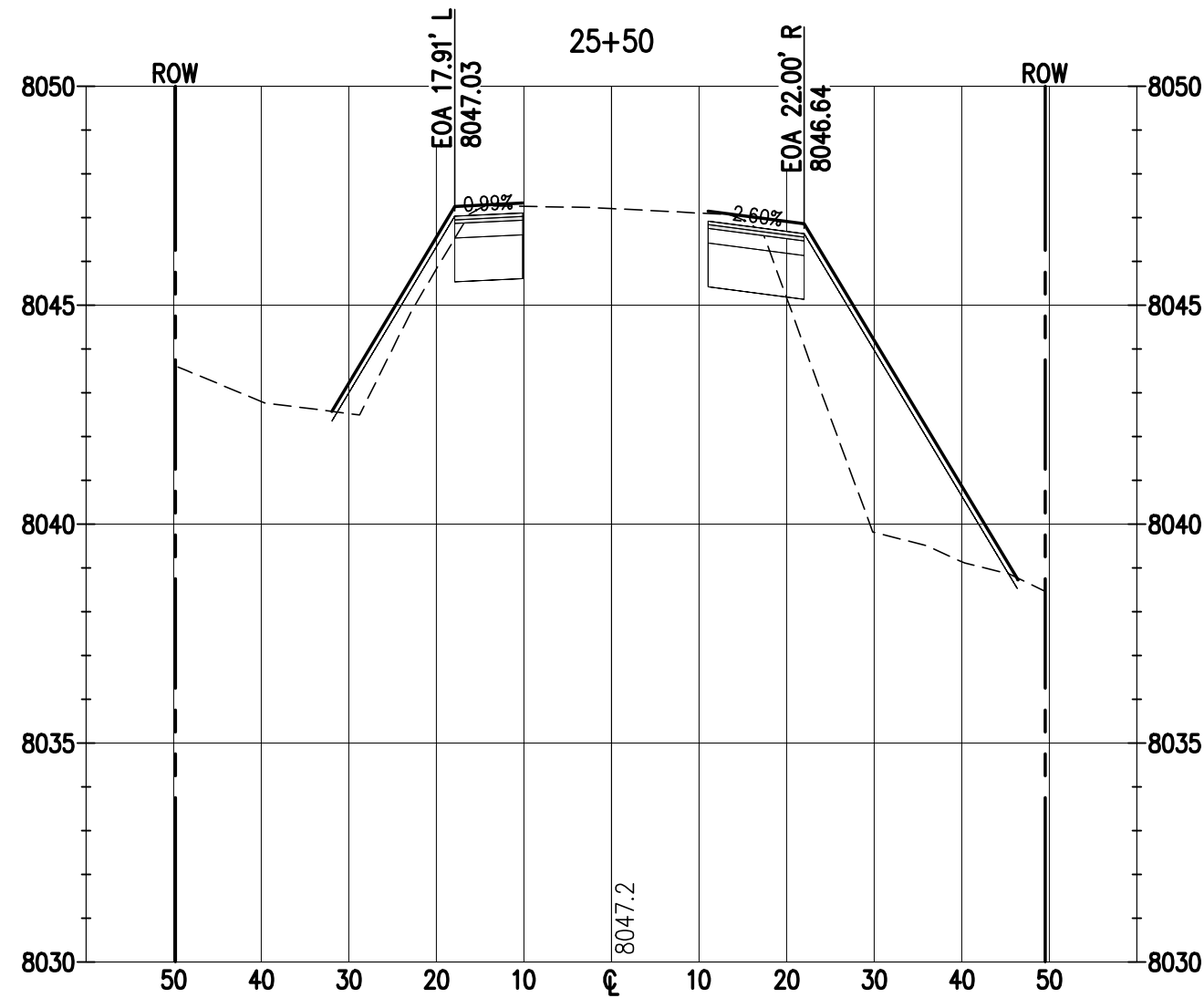
ACA PRODUCTS, INC.  
UNINCORPORATED  
CHAFFEE COUNTY  
HIGHWAY 50 TURN LANES  
HIGHWAY 50 & COUNTY ROAD 219  
CROSS SECTIONS STA. 16+50 - 20+50

FOR AND ON BEHALF OF  
BASELINE CORPORATION  
SUPERVISION OF

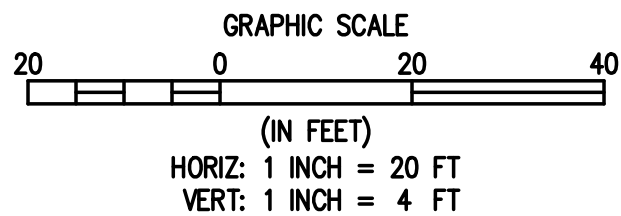
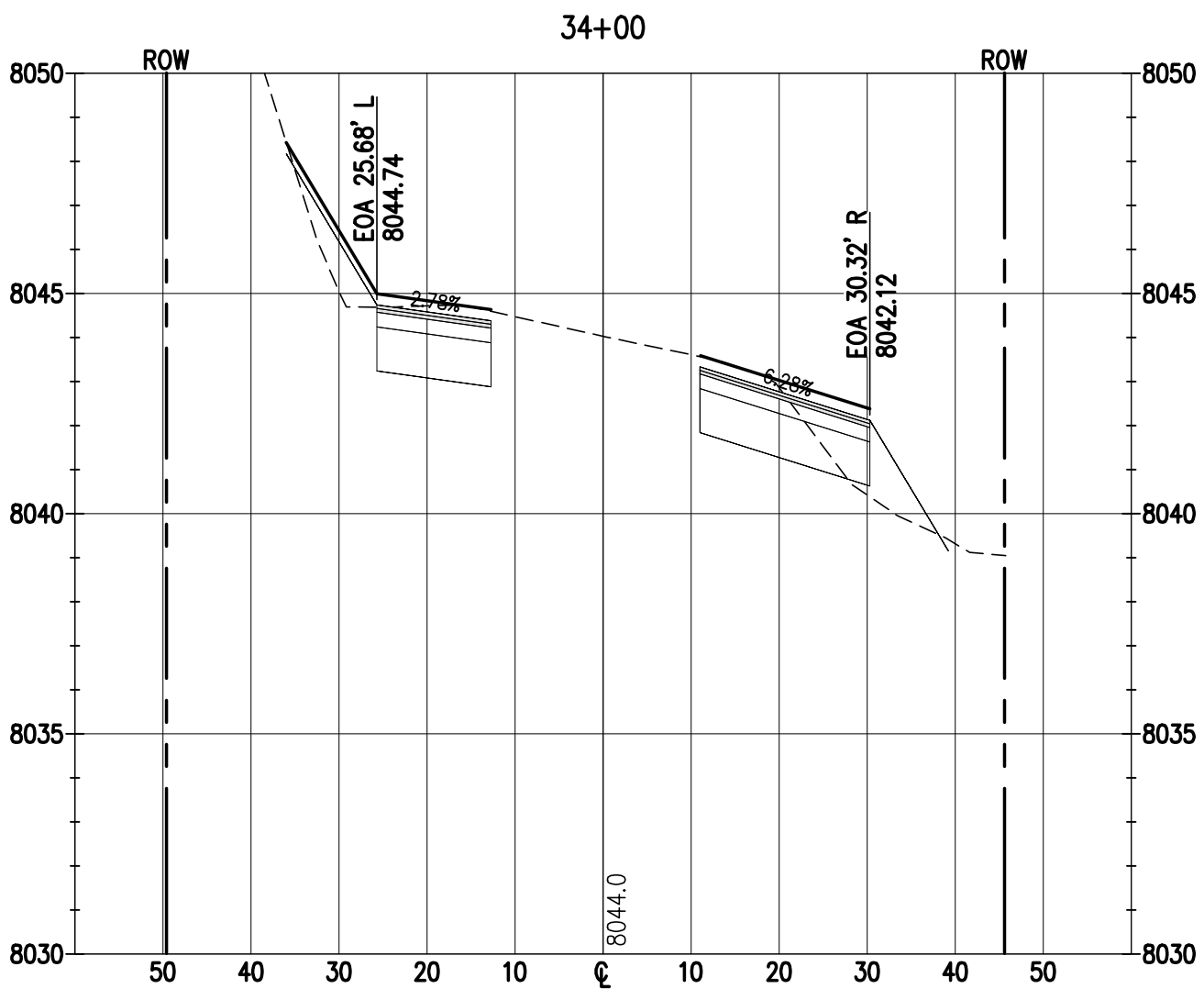
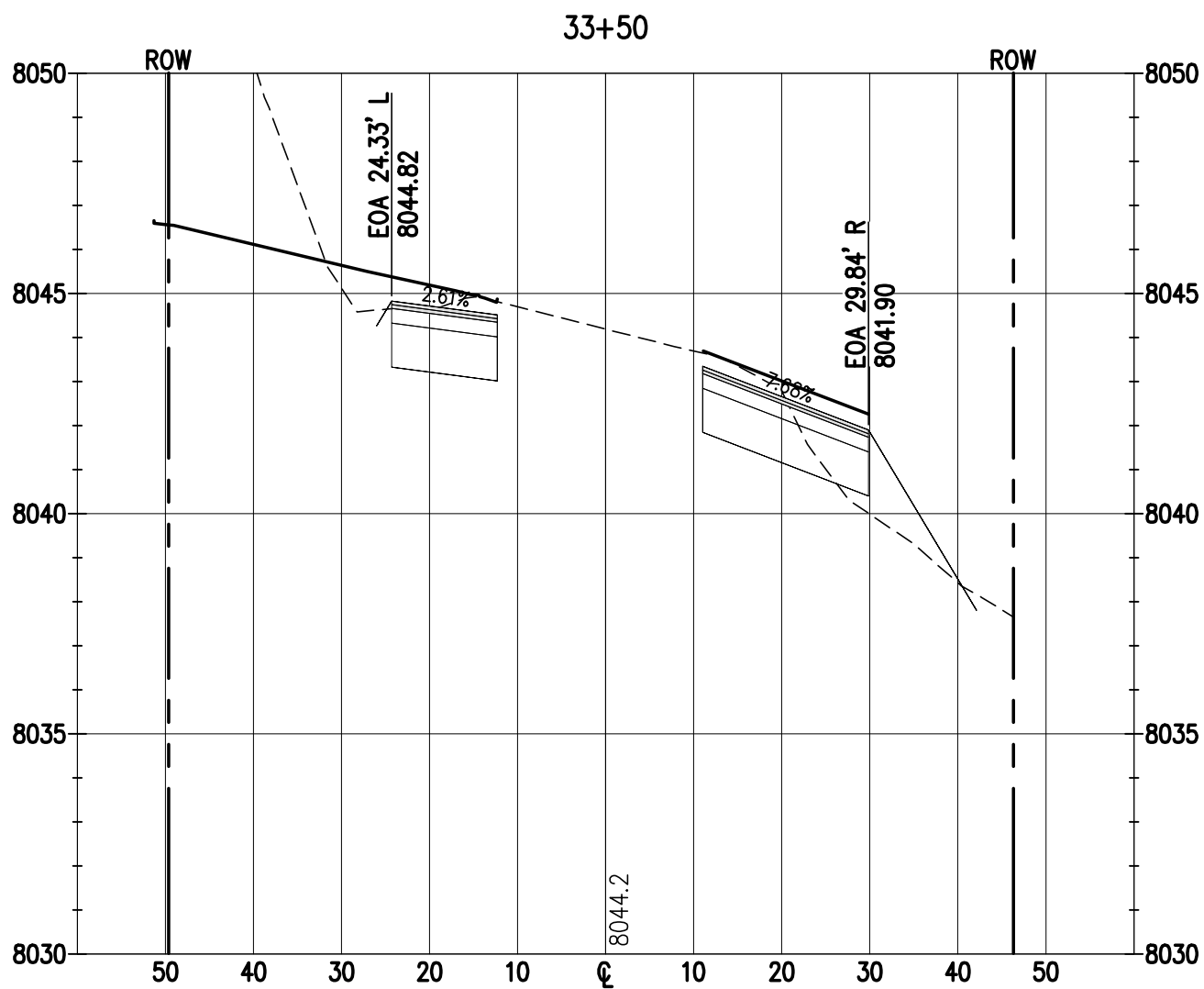
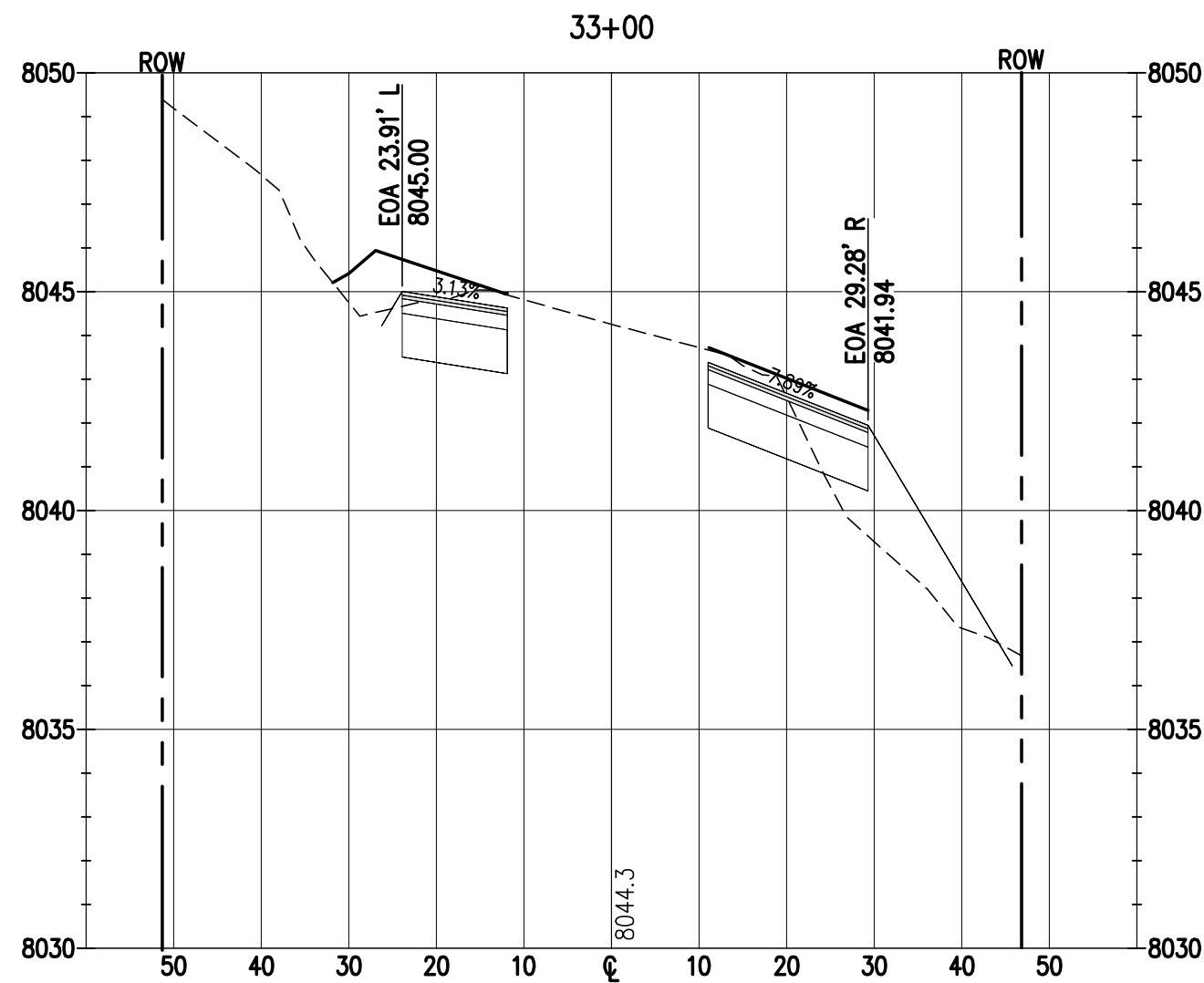
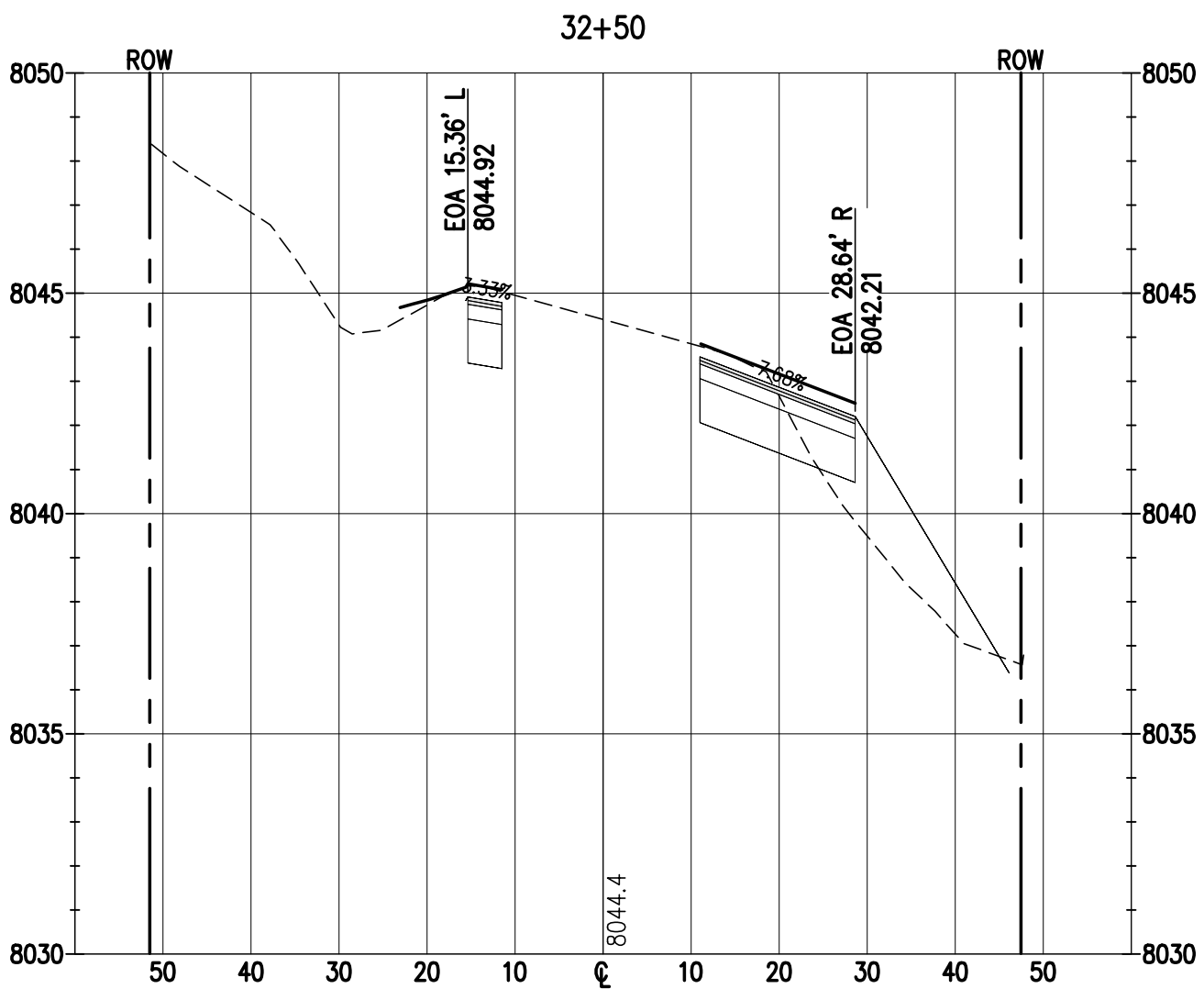
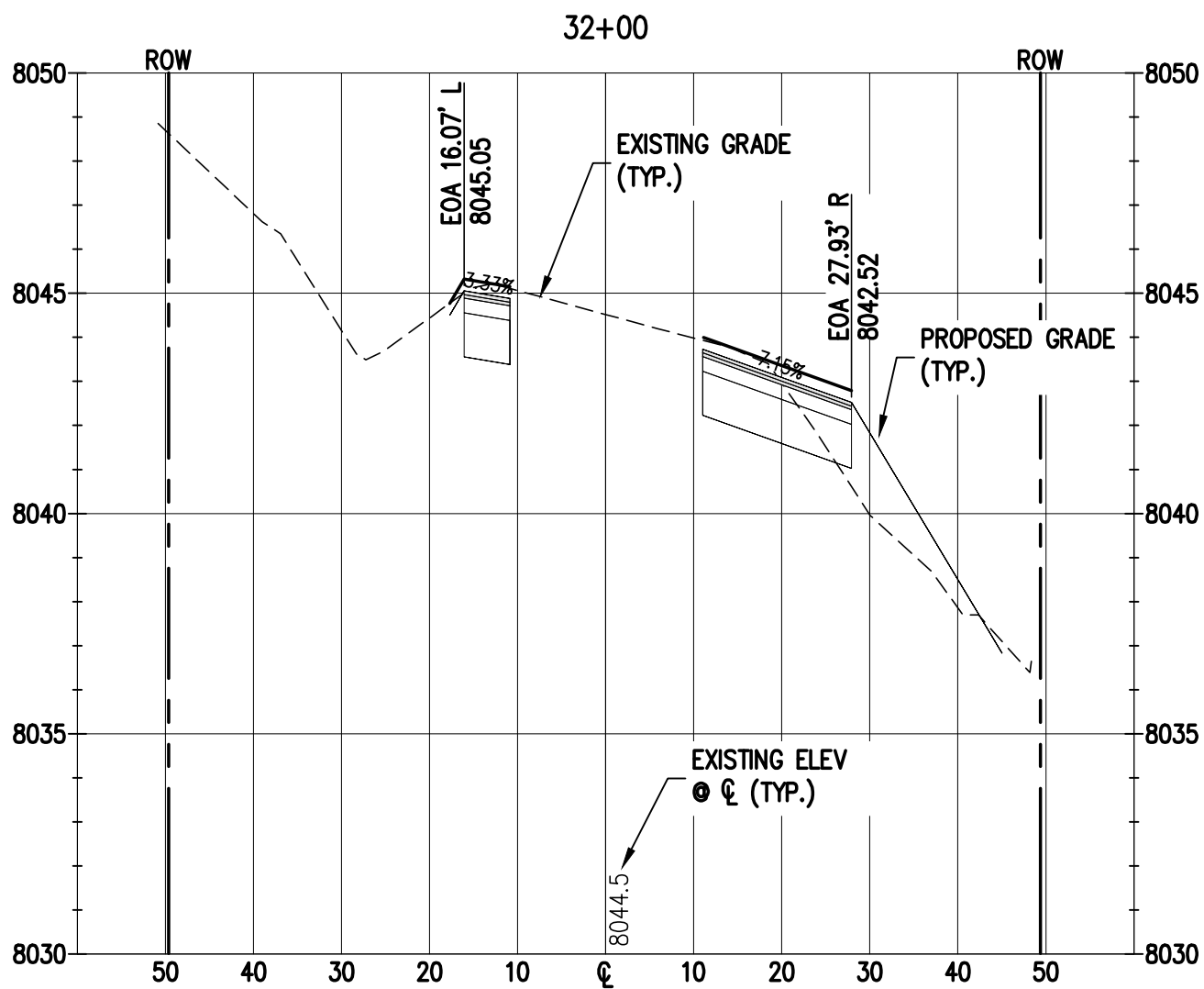
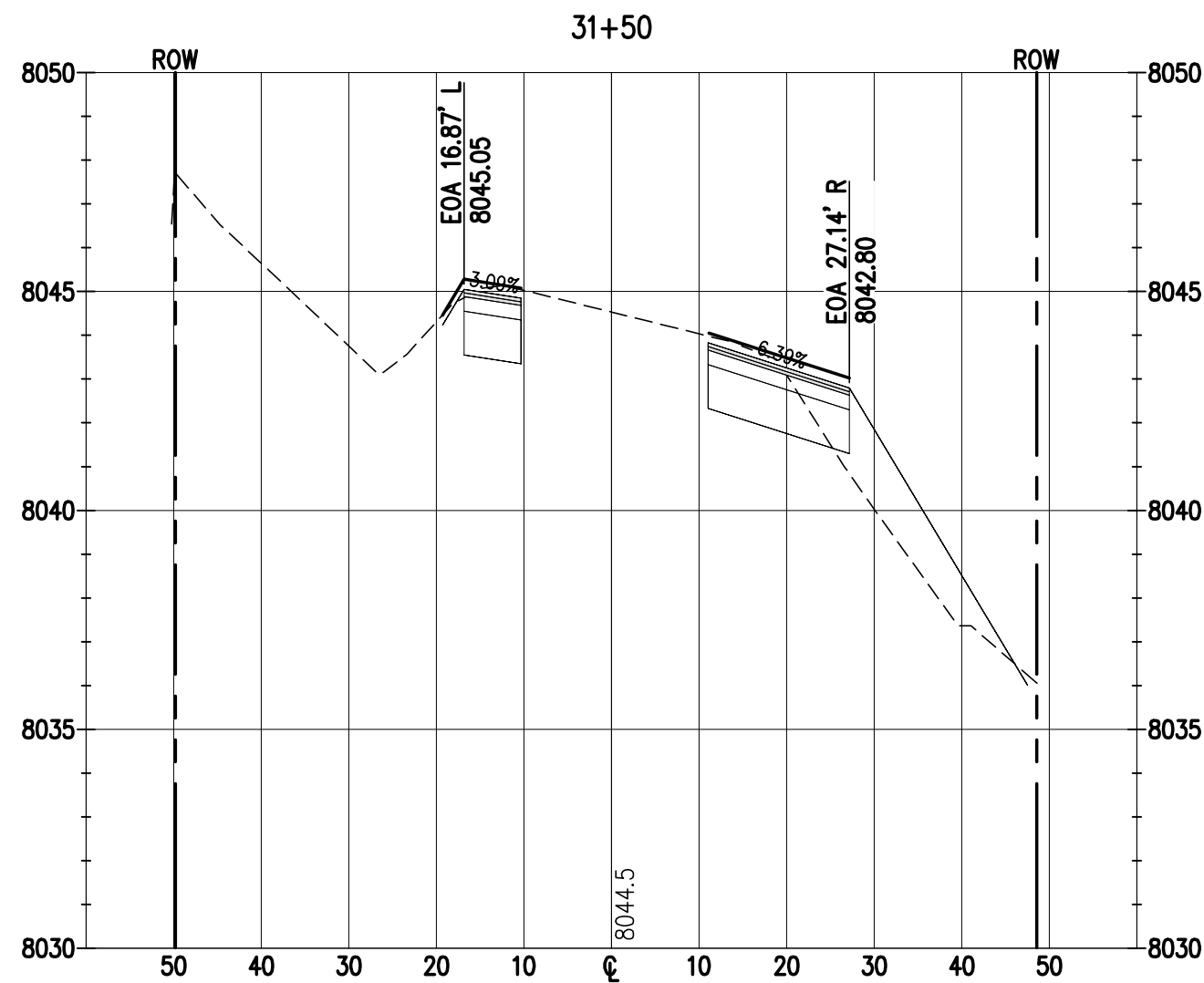
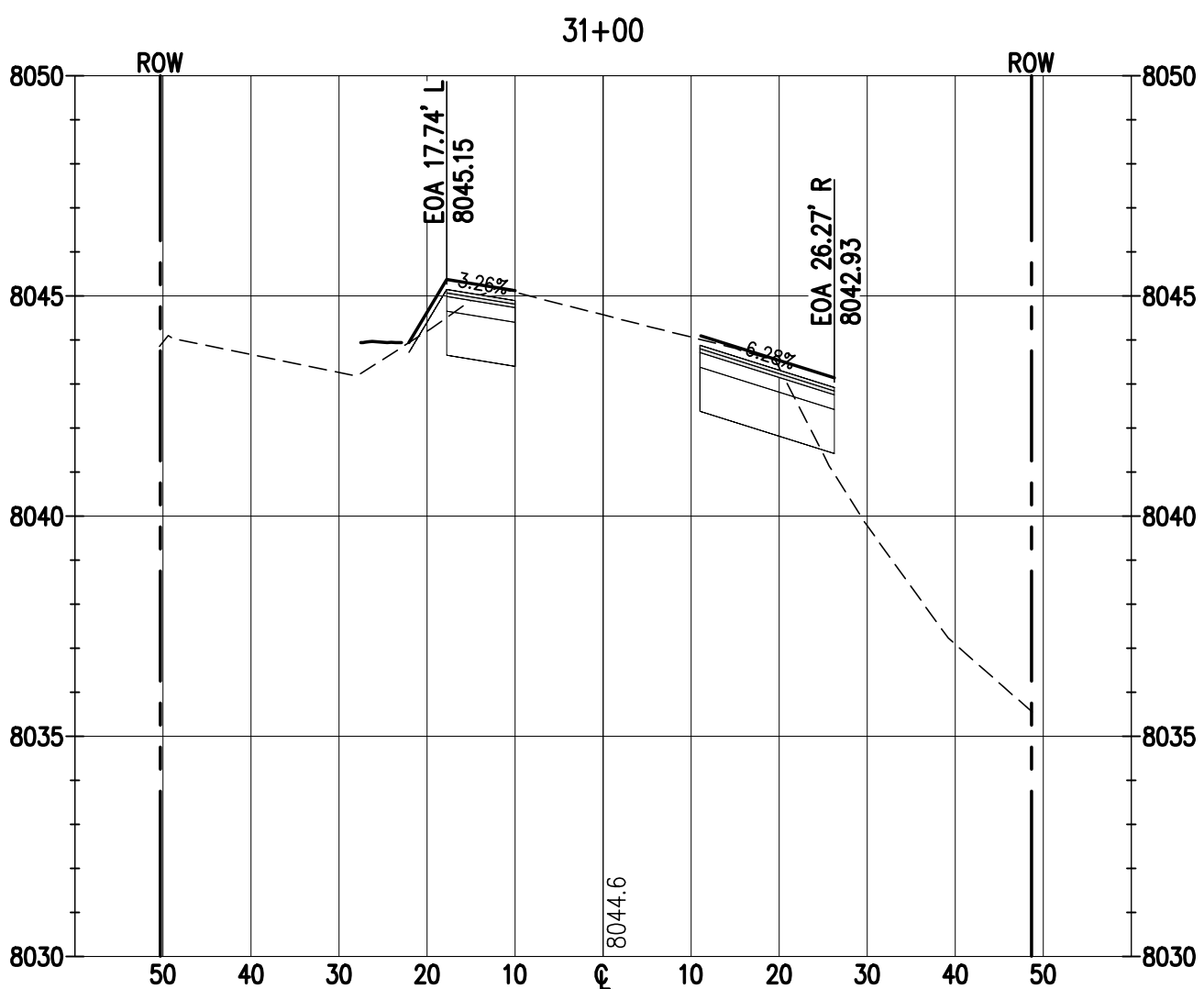
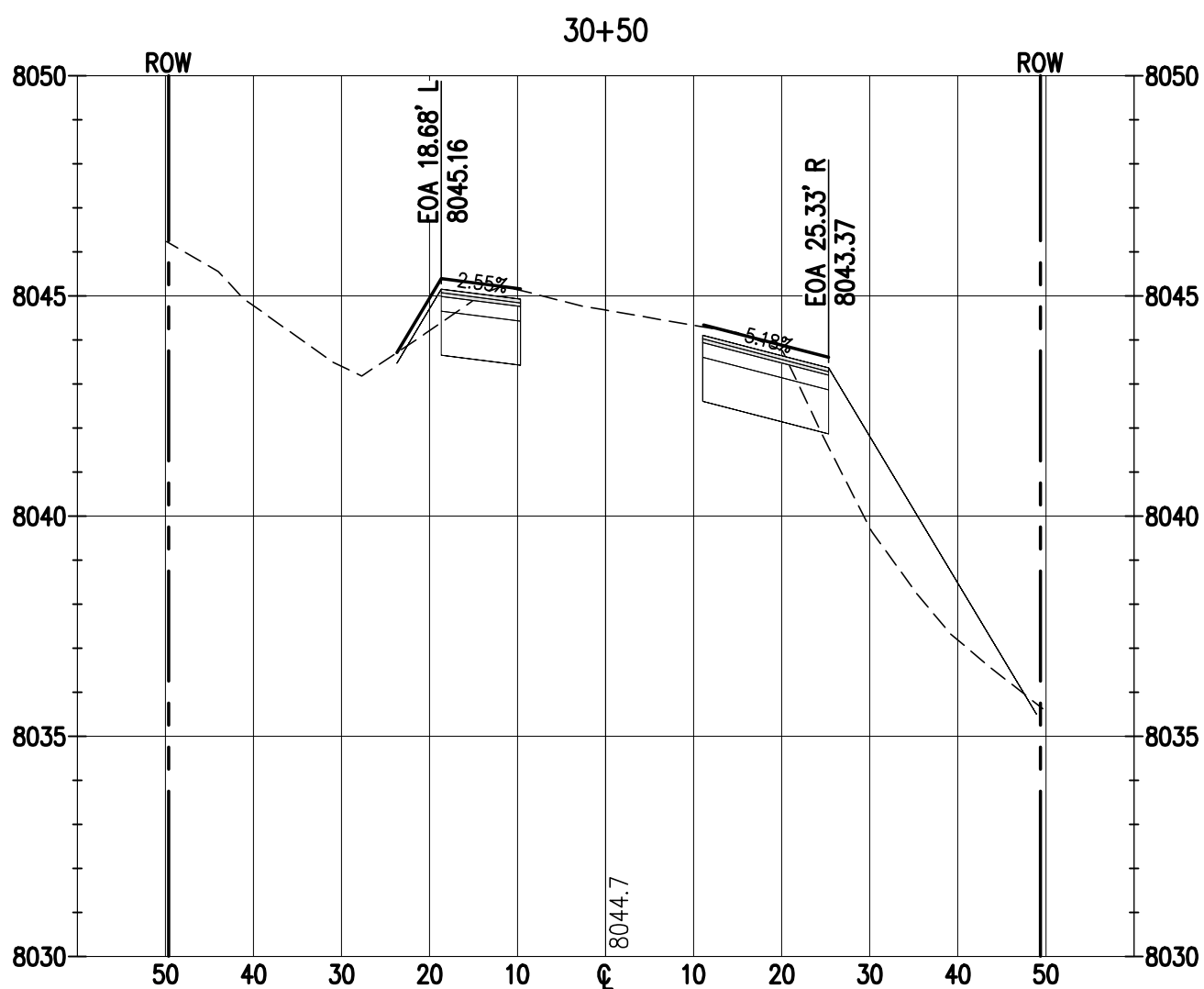
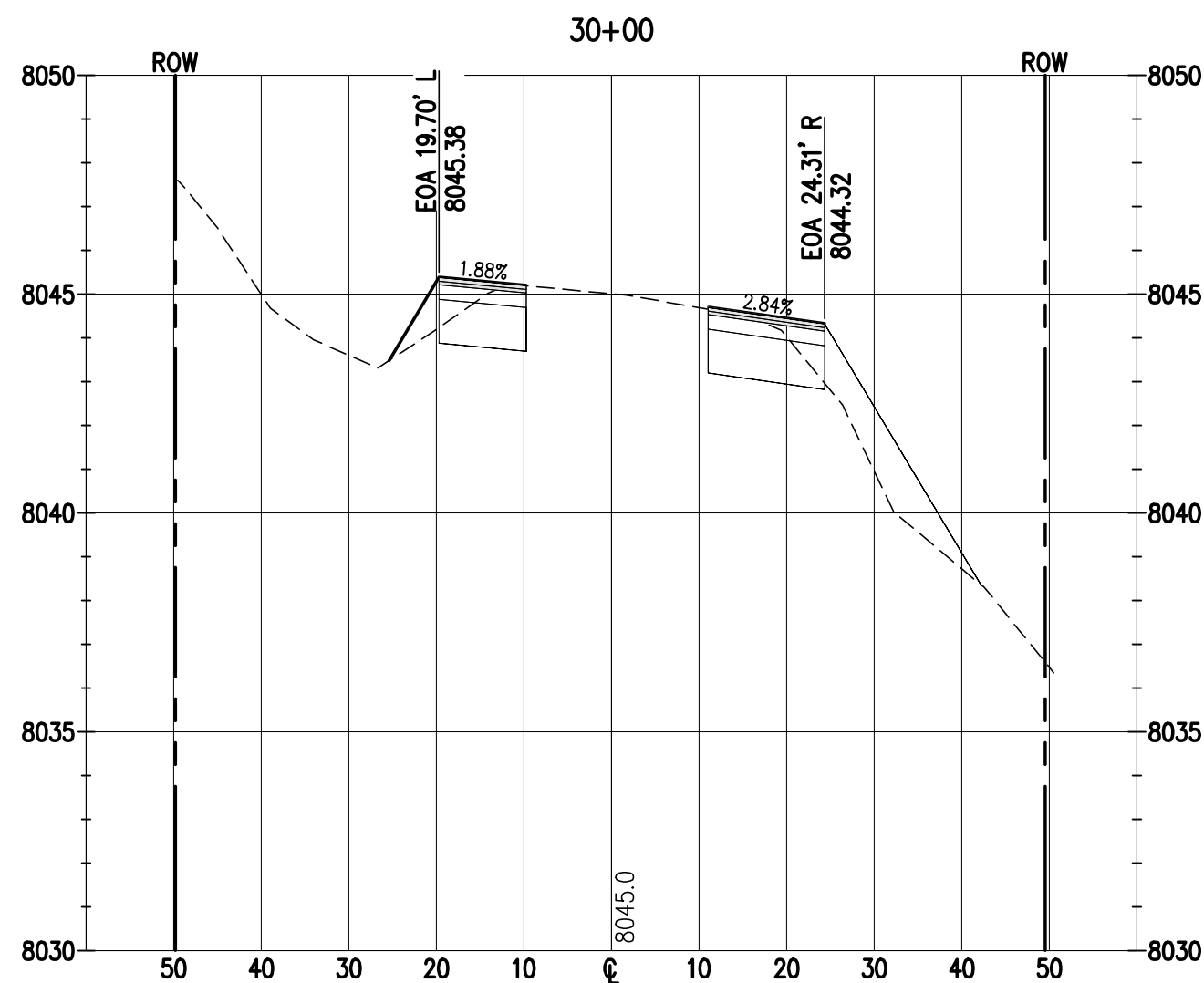


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SHEET 16 OF 21





N:\co3383 - ACA Hwy 50 Turn Lanes\Drawings\Construction Documents\3383PR\_Hwy 50 X-Sects.dwg, 2/6/2020 2:57:56 PM, Wade Coto



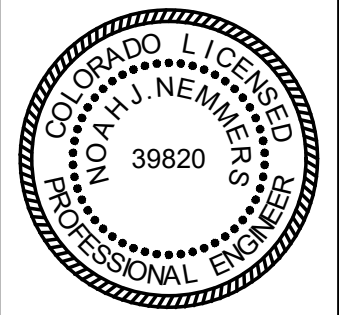
DESIGNED BY  
NUN  
DRAWN BY  
WAC  
CHECKED BY  
NUN

PREPARED BY  
DATE

REVISION DESCRIPTION

ACA PRODUCTS, INC.  
UNINCORPORATED  
CHAFFEE COUNTY  
HIGHWAY 50 TURN LANES  
HIGHWAY 50 & COUNTY ROAD 219  
CROSS SECTIONS STA. 30+00 - 34+00

PREPARED UNDER THE DIRECT SUPERVISION OF



FOR AND ON BEHALF OF  
BASELINE CORPORATION  
INITIAL SUBMITTAL 01/27/2020  
DRAWING SIZE 22" X 34"  
SURVEY FIRM BASELINE SURVEY DATE 05/23/19  
JOB NO. C03383  
DRAWING NAME 3383PR\_Hwy 50 X-Sects.dwg  
SHEET 19 OF 21

