



**Town Council  
Monday, April 14, 2025  
4:00 PM**

**130 Kearns Road  
Town Council Chambers  
Snowmass Village, CO 81615**

**You can watch the meeting live online on our website at [tosv.com](http://tosv.com).**

**Agenda**

- 1. Start Time 4:00 P.M.**
- 2. Item for Discussion**
  - 2.1. Workforce Housing Land Use Code Review Process - Code Amendment Discussion**
    - [2.1 1 Agenda Item Summary\\_Workforce Housing Code Amendment.pdf](#)
    - [2.1 2 Attachment A - Table 3-1 Amendment redline.pdf](#)
    - [2.1 3 Attachment B - Housing Director memo 04072025.pdf](#)
- 3. Item for Discussion**
  - 3.1. Brush Creek & Owl Creek Roundabout Review**
    - [3.1 1 Brush Creek Road - Owl Creek Road Roundabout Agenda Item Summary.pdf](#)
    - [3.1 2 Exhibit A Owl-Brush Creek Roundabout\\_Rendered Views.pdf](#)
    - [3.1 3 Exhibit B BrushCreekRB-Status 250401.pdf](#)
    - [3.1 4 Exhibit C Roundabout Memo - SGM Dec 2023.pdf](#)
- 4. Adjournment**

# Town of Snowmass Village

## Agenda Item Summary

### DATE OF MEETING:

April 14, 2025

### AGENDA ITEM:

Workforce Housing Review Process – Code Amendment

### PRESENTED BY:

Brian McNellis, AICP/MLA,  
Planner, Community Development Department

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### BACKGROUND:

The purpose of this discussion is to introduce a proposal to amend the Land Use Code to permit “Workforce Housing” as an allowed use in any residential or mixed-use zone if approved through the Special Review process. A Special Review process, requires one set of Public Hearing in front of the Planning Commission and one set of hearings in front of the Town Council.

By allowing a Special Review Process, workforce housing projects could remain under an “owner’s review for a substantial time period prior to formal submittal, thus allowing the Council ample time to provide critical input upfront of the project. Once the Council finds the project ready and appropriate, the project would then be submitted for a formal land use review before the Planning Commission and Town Council.

A second benefit of changing the Land Use Code to allow workforce housing to occur under a Special Review Process is that the proposed process would help make TOSV eligible to receive State grants to offset the cost. The primary state funding program – called the State Affordable Housing Fund, created a few years ago by the voter approved Proposition 123 requires that, to be eligible for Prop 123 funds, local governments must demonstrate they have implemented an “expedited review process.” With the rising cost of construction and the increasing demand for workforce housing, it is critical that Snowmass Village and our partners remain eligible for state and federal grants and loans. Allowing workforce housing to be approved under a Special Use review process would go a long way toward meeting that criterion.

The proposed Land Use Code change would consolidate the application process into a one-step review as opposed to the current three-step review required by the Planned Unit Development (PUD) application process. This proposal would also standardize the term “Workforce Housing” as it pertains to Affordable, Employee, or Restricted Housing terms found throughout the Land Use Code per the draft definition below.



*Workforce Housing means any dwelling unit that is restricted to use for the sale or rent to qualified employees pursuant to the Permanent Moderate Housing Regulations, a restricted housing agreement approved by the Town, or other restrictions approved by the Town for such uses.*

The proposed amendment would most specifically pertain modifications to Table 3-1 in Sectio16A-3-50 of the Land Use Code as attached hereto.

Workforce housing is essential to meet the housing needs for employees in Snowmass Village. The PUD process is lengthy and requires the submission and approval of a Sketch Plan, A Preliminary Plan and a Final Plan. The PUD process can often take up to two years or more to complete. The Special Review Process would require the application to go before the Planning Commission for review and a recommendation and then to the Town Council for review and approval. Each review would take place in several meetings and allow for review by the public. Further, because the process could be completed within 3 months state criteria for Prop 123 could be met.

#### FINANCIAL IMPACT:

The savings incurred by the Town and private developers wishing to pursue Workforce Housing projects (amounting in significantly less time going through the application and review process) may incentivize these type of community benefiting projects in the community while making the Town more eligible for State funding.

#### APPLICABILITY TO COUNCIL GOALS & OBJECTIVES:

Staff finds the amendment of the Code would contribute to the following goals and objectives identified in the 2018 Comprehensive Land Use Plan to “Provide More Employee Housing.”

This project is also intended to meet the 2023 Town Council Goal to: “Identify and Provide More Affordable, Community, Workforce Housing.”

#### COUNCIL OPTIONS:

- 1) Move forward with the proposed Land Use Code change
- 2) Modify the proposed change, then move forward.
- 3) Choose not to move forward with the proposed change

#### STAFF RECOMMENDATION:

Staff recommends the Council direct staff to bring the suggested code amendment to the Planning Commission for a review and recommendation. Following Planning Commission review, (then) prepare an Ordinance for consideration by the Town Council.

## ATTACHMENTS:

- A. Housing Department memo
- B. Proposed Table 3-1 amendments

**TABLE 3-1**  
**SCHEDULE OF USES**

| Uses: A = Allowed;<br>S = Special Review;<br>P = Prohibited                              | SF<br>4  | SF<br>6  | SF<br>15 | SF<br>30 | SF<br>150 | EST      | DU       | MF       | MF<br>PUD | MU       | MU<br>PUD | MU<br>1  | MU<br>2  | CC       | CC<br>PUD | PUB      | CON      | OS       | REC      |
|------------------------------------------------------------------------------------------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------|----------|-----------|----------|----------|----------|-----------|----------|----------|----------|----------|
| <b>Residential and Accommodation Uses</b>                                                |          |          |          |          |           |          |          |          |           |          |           |          |          |          |           |          |          |          |          |
| Single-Family Detached Dwelling <sup>1</sup>                                             | A        | A        | A        | A        | A         | A        | A        | A        | A         | P        | A         | P        | P        | P        | P         | P        | P        | P        | P        |
| Two-Family Dwelling <sup>2</sup>                                                         | P        | P        | P        | P        | P         | P        | A        | A        | A         | P        | A         | P        | P        | P        | P         | P        | P        | P        | P        |
| Single-Family Attached Dwelling                                                          | P        | P        | P        | P        | P         | P        | P        |          | A         | A        | A         |          |          | P        | A         | P        | P        | P        | P        |
| Multi-Family Dwelling                                                                    | P        | P        | P        | P        | P         | P        | P        | A        | A         | A        | A         | A        | A        | P        | A         | P        | P        | P        | P        |
| <b>Workforce Housing</b>                                                                 | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b>  | <b>S</b> | <b>S</b> | <b>S</b> | <b>S</b>  | <b>S</b> | <b>S</b>  | <b>S</b> | <b>S</b> | <b>P</b> | <b>P</b>  | <b>S</b> | <b>P</b> | <b>P</b> | <b>S</b> |
| Hotel/Lodge Room or Suite                                                                | P        | P        | P        | P        | P         | P        | P        | P        | P         | A        | A         | P        | A        | S        | A         | P        | P        | P        | S        |
| Lock-Off Room                                                                            | P        | P        | P        | P        | P         | P        | P        | P        | P         | A        | A         | A        | A        | S        | A         | P        | P        | P        | S        |
| Time Share Unit <sup>3</sup>                                                             | P        | P        | P        | P        | P         | P        | P        | S        | S         | S        | S         | P        | A        | S        | S         | P        | P        | P        | S        |
| Dormitory                                                                                | P        | P        | P        | P        | P         | P        | P        | A        | A         | S        | A         | P        | A        | S        | A         | P        | P        | P        | S        |
| Manager's Unit/<br>Restricted Employee Housing                                           | P        | P        | P        | P        | P         | P        | P        | A        | A         | A        | A         | A        | A        | A        | A         | S        | P        | P        | S        |
| Conference Facilities <sup>4</sup>                                                       | P        | P        | P        | P        | P         | P        | P        | P        | A         | A        | A         | S        | A        | A        | A         | P        | P        | P        | S        |
| Accessory Building and Use <sup>15</sup>                                                 | A        | A        | A        | A        | A         | A        | A        | A        | A         | A        | A         | A        | A        | A        | A         | S        | S        | P        | A        |
| Home Occupation <sup>5</sup>                                                             | A        | A        | A        | A        | A         | A        | A        | A        | A         | P        | A         | S        | P        | P        | P         | P        | P        | P        | P        |
| Day Care Home                                                                            | S        | S        | S        | S        | S         | P        | S        | S        | S         | S        | S         | A        | A        | S        | S         | P        | P        | P        | P        |
| Wireless Communication Facilities <sup>6</sup>                                           | S        | S        | S        | S        | S         | S        | S        | S        | S         | S        | S         | S        | S        | S        | S         | S        | P        | P        | S        |
| <b>Group Uses and Community Facilities</b>                                               |          |          |          |          |           |          |          |          |           |          |           |          |          |          |           |          |          |          |          |
| Group Care Facilities                                                                    | P        | P        | P        | P        | P         | P        | P        | S        | S         | S        | S         | S        | S        | S        | S         | S        | P        | P        | P        |
| Group Homes <sup>7</sup>                                                                 | A        | A        | A        | A        | A         | P        | A        | A        | A         | A        | A         | A        | A        | P        | A         | P        | P        | P        | P        |
| Educational Facilities <sup>8</sup>                                                      | P        | P        | P        | P        | P         | P        | P        | P        | P         | S        | A         | S        | S        | S        | A         | S        | P        | P        | A        |
| Public Utility Uses,<br>Services and Facilities <sup>15</sup>                            | S        | S        | S        | S        | S         | S        | S        | S        | S         | S        | S         | S        | S        | S        | S         | S        | S        | S        | S        |
| Cemetery                                                                                 | P        | P        | P        | P        | P         | P        | P        | P        | P         | P        | A         | P        | P        | P        | A         | S        | S        | P        | P        |
| Major Community Facilities <sup>15</sup>                                                 | P        | P        | P        | P        | P         | P        | P        | S        | P         | S        | A         | S        | S        | S        | A         | S        | P        | P        | A        |
| Minor or Accessory Community Facilities <sup>9, 15</sup>                                 | A        | S        | S        | S        | S         | S        | S        | S        | S         | S        | S         | S        | S        | S        | S         | S        | S        | P        | A        |
| Commonly owned, above grade, detached garage for three or more automobiles <sup>10</sup> | S        | S        | S        | S        | S         | P        | S        | A        | A         | S        | A         | S        | S        | A        | A         | P        | P        | P        | P        |
| <b>Commercial Uses and Services</b>                                                      |          |          |          |          |           |          |          |          |           |          |           |          |          |          |           |          |          |          |          |
| Retail Sales Establishments;<br>Business/Professional Office <sup>15</sup>               | P        | P        | P        | P        | P         | P        | P        | P        | P         | A        | A         | P        | A        | A        | A         | P        | P        | P        | A        |

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(Supp. No. 22)

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## INTEROFFICE MEMORANDUM

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**TO:** BRIAN MCNELLIS, SENIOR PLANNER  
**FROM:** BETSY CRUM, HOUSING DIRECTOR  
**SUBJECT:** PROPOSED AFFORDABLE HOUSING PROCESS AMENDMENTS  
**DATE:** APRIL 7, 2025

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I am writing to express my support for the proposal to amend the Snowmass Village Code to have Workforce Housing qualify for review as a Special Use. As you know, workforce housing is not considered as a specific residential use outside of the Multi-Family Dwelling use and so can only be approved under an existing Multi-family or Mixed-Use zone, or as a Planned Unit Development.

As you know, we currently face an unprecedented need for workforce housing in Snowmass Village. Rising housing costs have pushed prices beyond the reach of our local employees. Commutes continue to expand in volume and length as many workers seek down-valley costs of living and need up-valley wages to make ends meet. As a result, the formerly attainable mid-valley housing markets are now also experiencing significant increases in housing costs, pushing regional labor markets even beyond Glenwood Springs toward Western Slope communities. There is functionally no local free-market attainable housing available to our workforce, and the waitlist for TOSV's rental housing results in a 10+ year wait for an affordable apartment.

New workforce housing development is one of the essential tools to meet the housing needs of our local workforce. In fact, we currently require that businesses mitigate the housing needs for at least 60% of the employees generated by them when they build in town. However, the PUD process we currently use is lengthy and requires multiple submissions, public hearings, meetings and back-and-forth throughout the approval process. This can, and often does, add many months to the process. This is not just costly; it delays the provision of the very housing needed for the new employees.

In addition, the primary state funding program – called the State Affordable Housing Fund and created a few years ago by Proposition 123 – requires that, to remain eligible for Prop 123 funds, local governments must demonstrate they have implemented an “expedited review process.” With the rising cost of construction and the increasing demand for workforce housing, it is critical that Snowmass Village and our partners remain eligible for state and federal grants and loans. Allowing workforce housing to be approved under a Special Use process would go a long way toward meeting that criterion.

In short, workforce housing is a critical community need that benefits our entire Village and, like public utilities, day care and trails, adds an essential service to our community. I believe that this change would reflect the importance of getting housing built when it is most needed.

Please let me know if you have any questions.

# Town of Snowmass Village

## Agenda Item Summary

### DATE OF MEETING:

April 14, 2025

### AGENDA ITEM:

Owl Creek Road / Brush Creek Road Roundabout

### PRESENTED BY:

Anne Martens, Director of Public Works

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### BACKGROUND:

This memorandum provides an update on the planned improvements at the intersection of Brush Creek Road and Owl Creek Road. The preferred design alternative—a roundabout—has been under consideration for over 15 years and remains the recommended solution based on safety, mobility, operational, and infrastructure objectives.

The intersection experiences high traffic volumes during peak travel periods and seasons and presents challenges for both vehicular and pedestrian movement. The intersection has long been identified for improvement due to existing safety concerns, operational inefficiencies, and inadequate infrastructure. The proposed roundabout aims to address these issues comprehensively. Key drivers for the improvement include:

#### 1. Safety Enhancements

- Enhanced pedestrian access and connectivity
- Installation of pedestrian medians within crosswalks to shorten crossing distances, provide mid-crossing refuge, and reduce vehicle-pedestrian conflicts
- Additional marked crosswalks to improve accessibility
- Improved lighting that meets safety standards, lighting standards and aesthetics

#### 2. Streetscape and Traffic Calming Measures

- Landscape improvements designed to enhance visual appeal and promote traffic calming
- Incorporation of design elements to reduce vehicular speeds and improve driver behavior

### 3. Intersection Performance

- Reconfiguration of the intersection to improve Level of Service (LOS)
- Enhanced access for emergency services through more efficient intersection design
- Pavement rehabilitation to address existing asphalt degradation and roadway rutting, With pavement improvements use appropriate asphalt design to enhance rutting resistance. Most importantly the roundabout itself will be contracted in concrete. This gives a much longer life cycle to the pavement surface and less disruptions to the community in the long run.

### 4. Transit and Multimodal Connectivity

- Integration of improved transit elements, including enhanced connections between regional and local bus stops

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#### Design and Construction Status

- Civil design for the roundabout is currently at approximately 80% completion.
- A proposal is being developed for a CGMC contractor to finalize project phasing, construction logistics, and cost estimates.

#### Utility Coordination

Coordination is ongoing with all relevant utility providers, including:

- Snowmass Water and Sanitation District (SWSD)
- Holy Cross Energy
- Black Hills Energy
- Telecommunications providers

SWSD is planning to replace the final segment of aging waterline located beneath the intersection during the roundabout's construction, optimizing schedule and cost efficiency. Other utility companies have confirmed the presence of aged or undersized infrastructure in this location and are prepared to participate in concurrent upgrades during the project.

#### FINANCIAL IMPACT:

The 2025 revised budget is \$295,550 to keep the project progressing.

#### APPLICABILITY TO COUNCIL GOALS & OBJECTIVES:

These projects meet several of the Council's goals and objectives including but not limited to:

Focus on improved access and safety

Continue to improve multi-modal connections

**COUNCIL OPTIONS:**

This is an update item only.

**STAFF RECOMMENDATION:**

Update only, no action recommended.

**ATTACHMENTS:**

- A. Exhibit A: Redenderings with preferred trail access elements
- B. Exhibit B: Civil Plans – 80% Design
- C. Exhibit C: SGM Memo for December 2023







































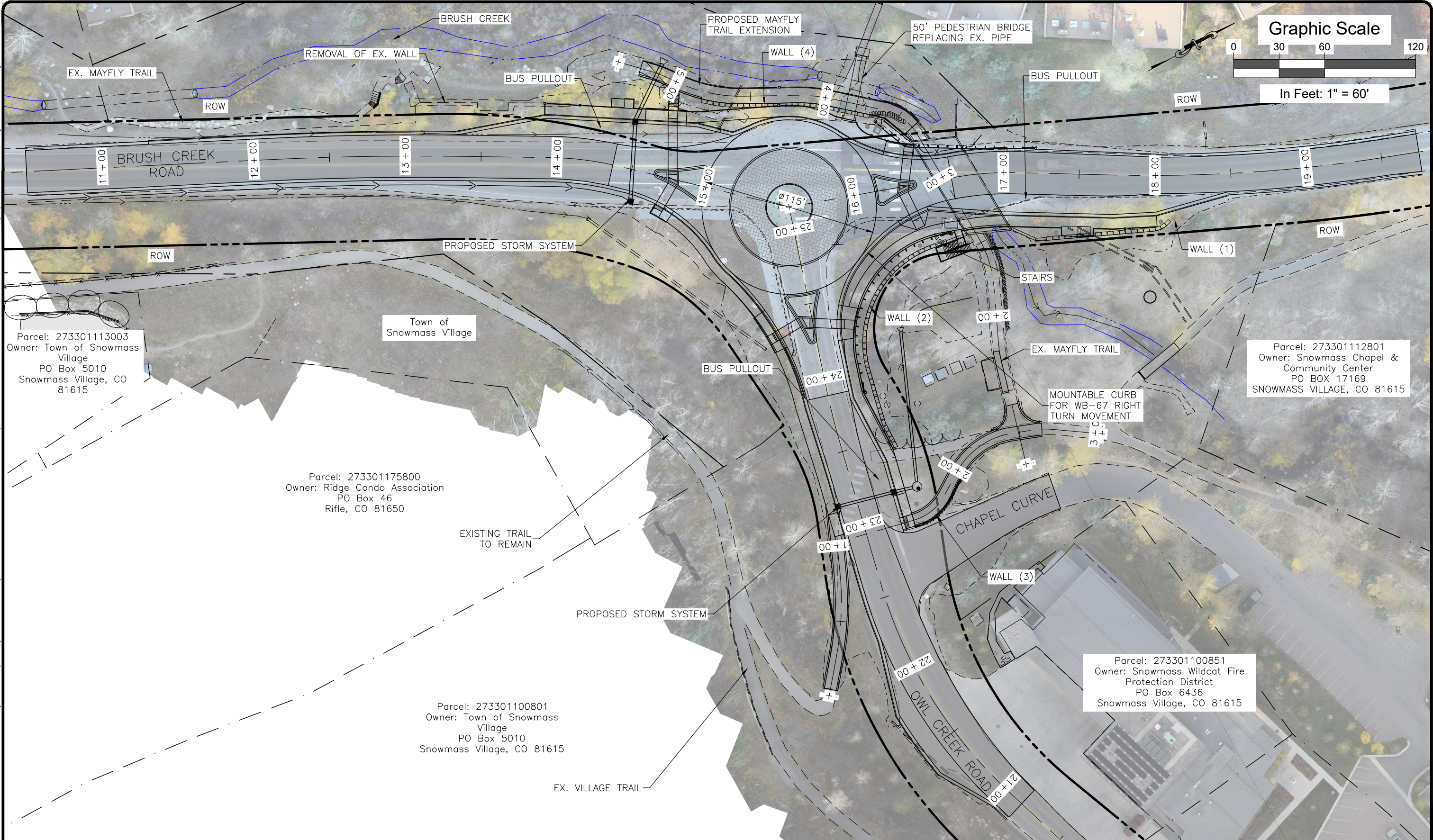








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| Computer File Information                       |                                   | Sheet Revisions |      |          |       | As Constructed | BRUSH CREEK ROUNDABOUT<br>OVERALL SITE PLAN |      |                | Project No./Code |                 |
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| Print Date: 4/1/25                              | Last Modification Date: 7/10/24   | Rev.            | Date | Comments | Init. |                | Engineer:                                   | AMC  | Structure      | --               |                 |
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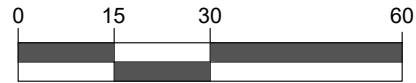


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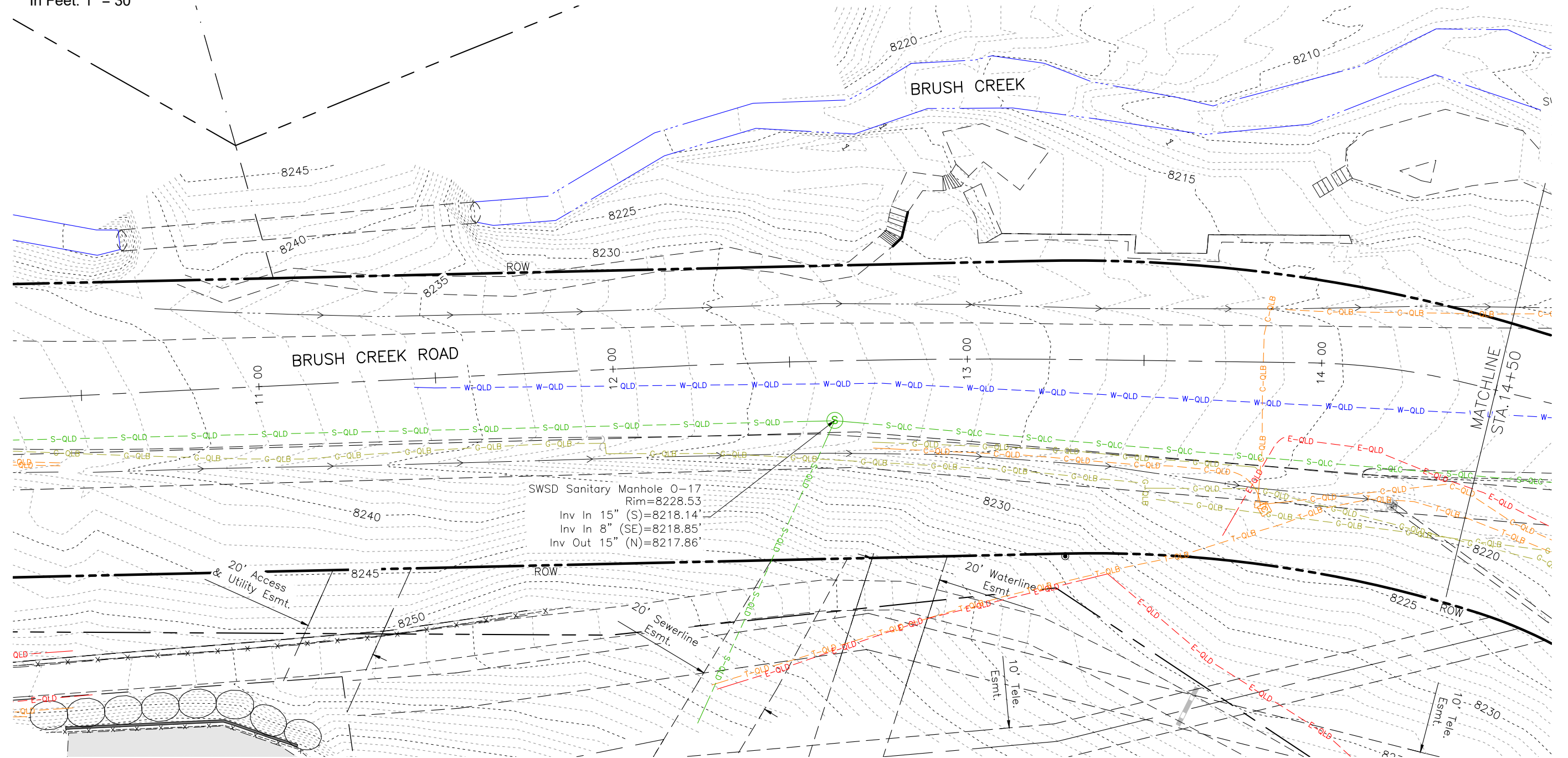


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Graphic Scale



In Feet: 1" = 30'



SWSD Sanitary Manhole 0-17  
Rim=8228.53  
Inv In 15" (S)=8218.14'  
Inv In 8" (SE)=8218.85'  
Inv Out 15" (N)=8217.86'

20' Access  
& Utility Esmt.

20' Sewerline  
Esmt.

20' Waterline  
Esmt.

10' Tele.  
Esmt.

10' Tele.  
Esmt.

Computer File Information

Print Date: 4/1/25  
Last Modification Date: 4/1/25  
Drawing File Name: BrushCreekRB\_ExistingUtility  
Autocad Ver. 2022 Scale: As Shown  
SGM Project No.: 91004D-83 Quality Control: XX

Sheet Revisions

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As Constructed

No Revisions:  
Revised:  
Void:

BRUSH CREEK ROUNDABOUT  
EXISTING UTILITY PLAN (1)

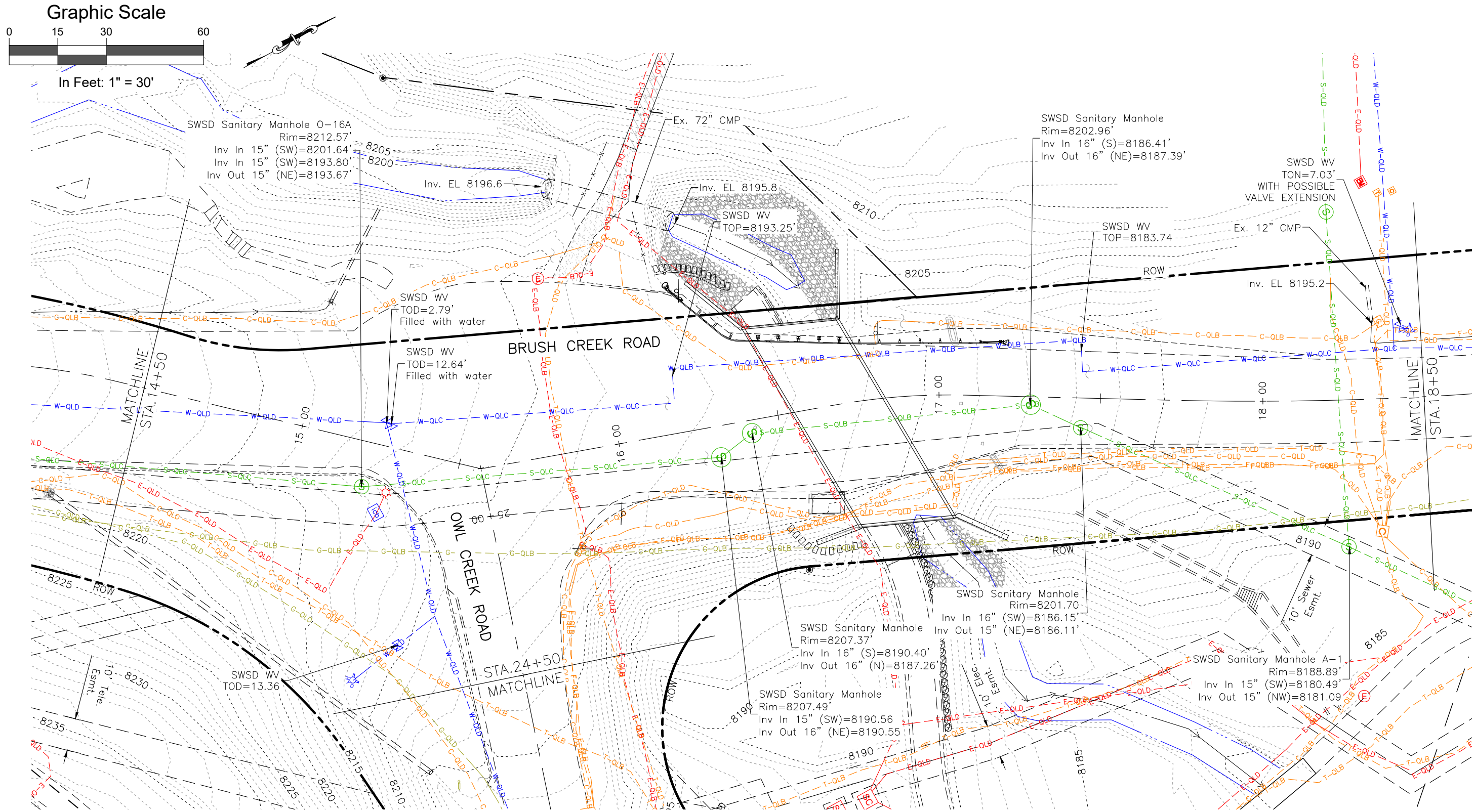
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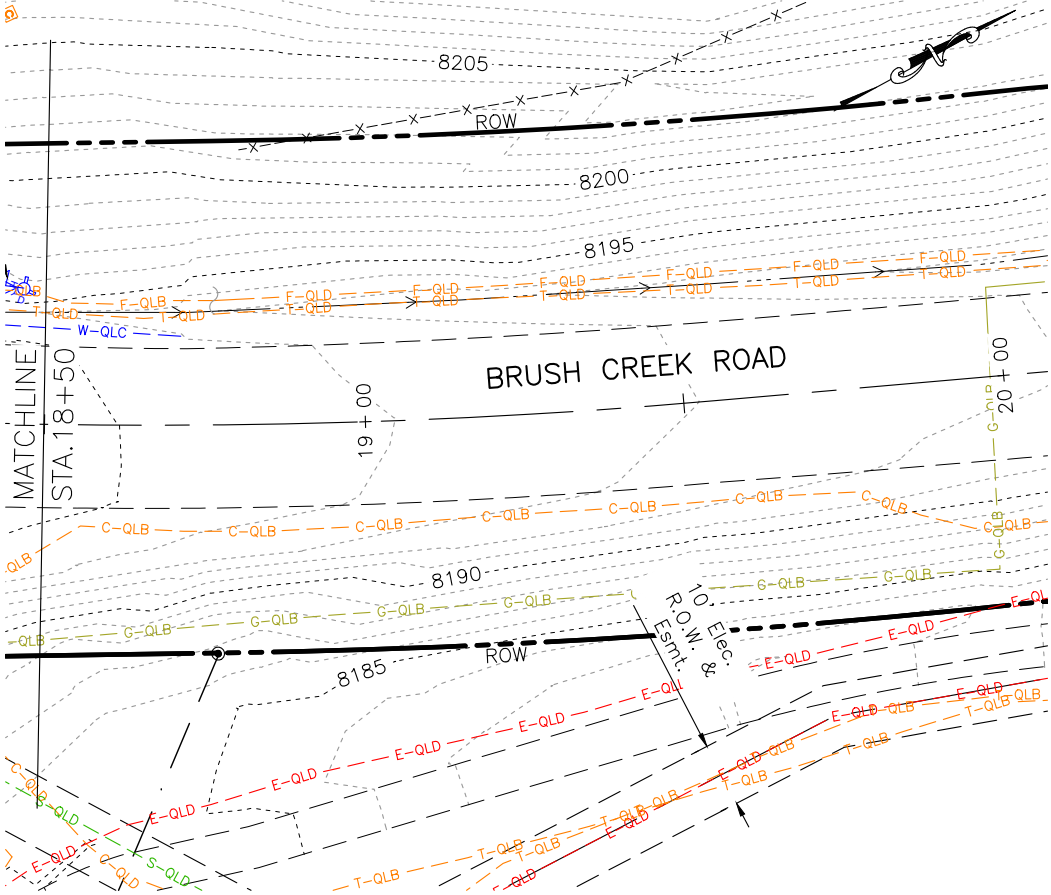
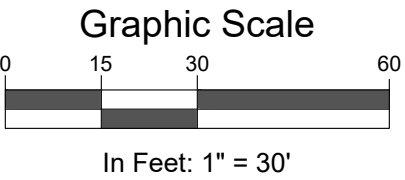
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| Computer File Information                       |                     | Sheet Revisions                |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004    www.sgm-inc.com | As Constructed |    | BRUSH CREEK ROUNDABOUT<br>EXISTING UTILITY PLAN (2) |    |              | Project No./Code |  |
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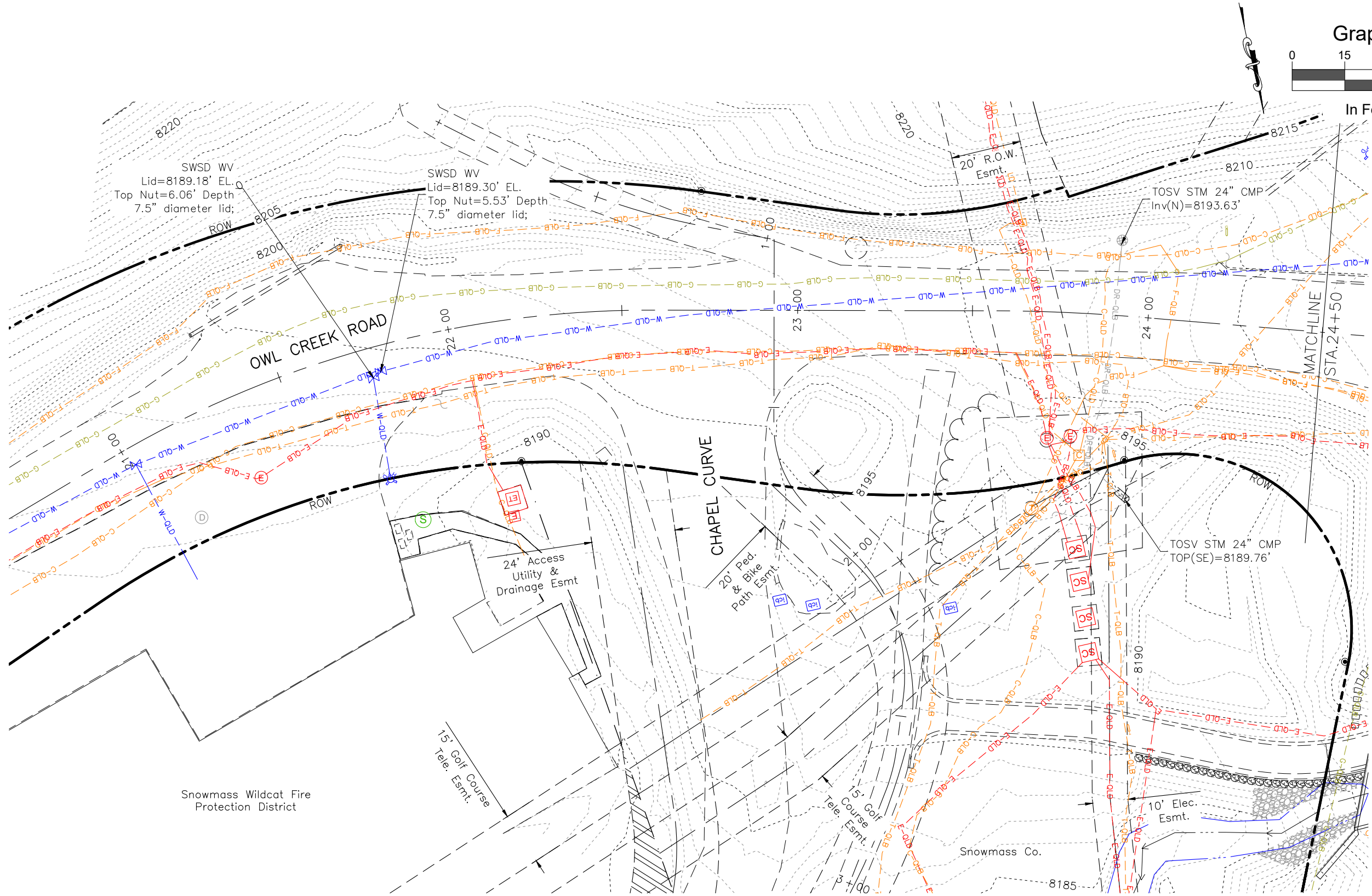


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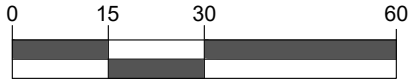
  
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Graphic Scale



In Feet: 1" = 30'

| Computer File Information                       |                                   | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>EXISTING UTILITY PLAN (4) |                         |    | Project No./Code |    |
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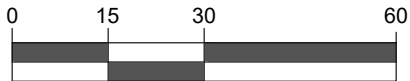


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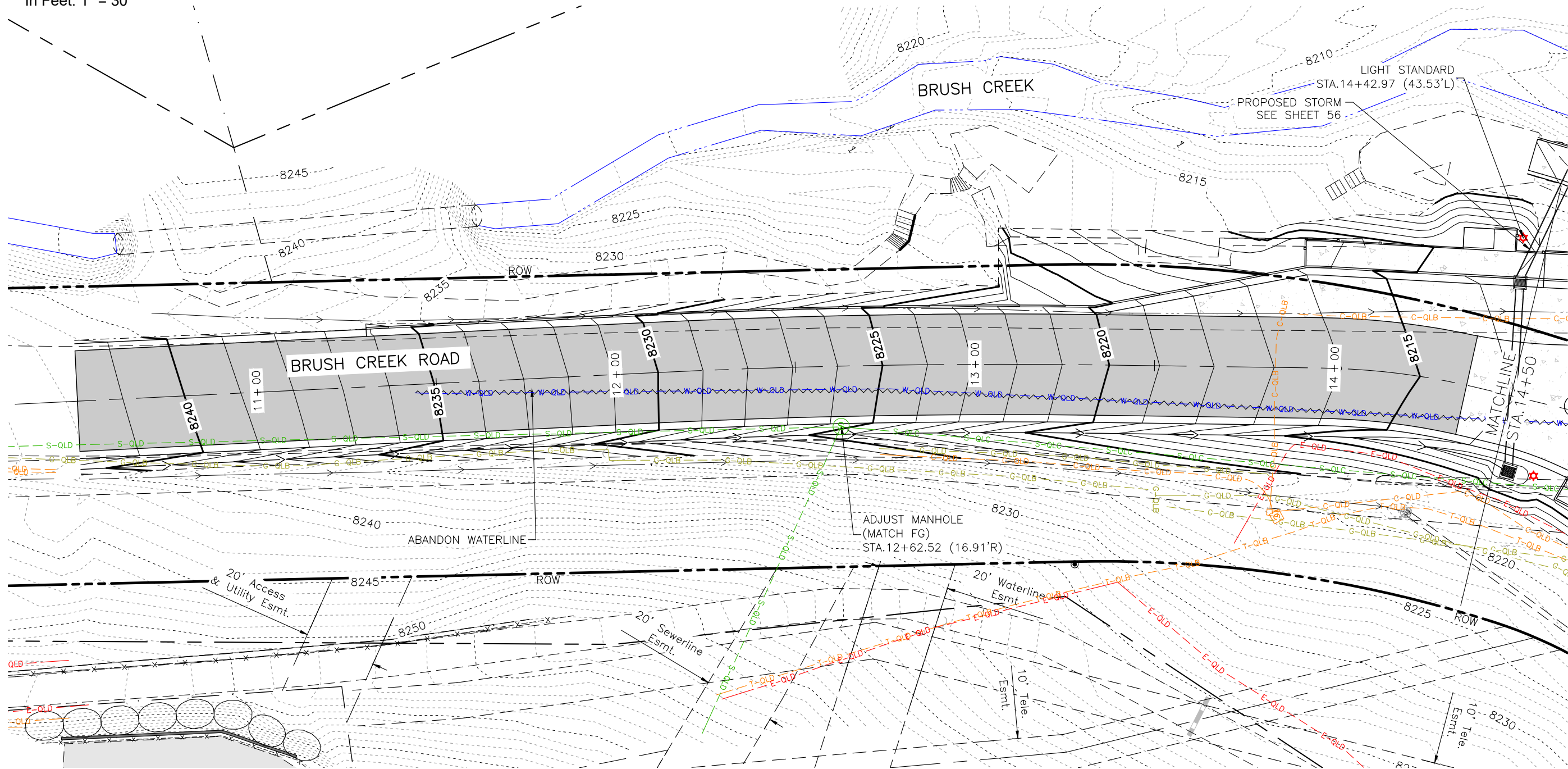


I:\1991\91004\DWG\H-DWG\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_UTILITY.DWG Plotted: 4/1/2025 9:36 AM By: Eric Mahoney

Graphic Scale



In Feet: 1" = 30'



Computer File Information

Print Date: 4/1/25  
Last Modification Date: 4/1/25  
Drawing File Name: BrushCreekRB\_Utility  
Autocad Ver. 2022 Scale: As Shown  
SGM Project No.: 91004D-83 Quality Control: SAK

Sheet Revisions

| Rev. | Date | Comments | Init. |
|------|------|----------|-------|
| 1    |      |          |       |
|      |      |          |       |
|      |      |          |       |
|      |      |          |       |



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As Constructed

No Revisions:

Revised:

Void:

BRUSH CREEK ROUNDABOUT  
UTILITY PLAN (1)

|               |         |                   |        |
|---------------|---------|-------------------|--------|
| Engineer:     | SAK     | Structure Numbers | --     |
| Drawn By:     | MWM     |                   | --     |
| Sheet Subset: | UTILITY | Subset Sheets:    | 4 of 7 |

Project No./Code

--

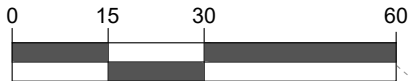
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Sheet Number 25

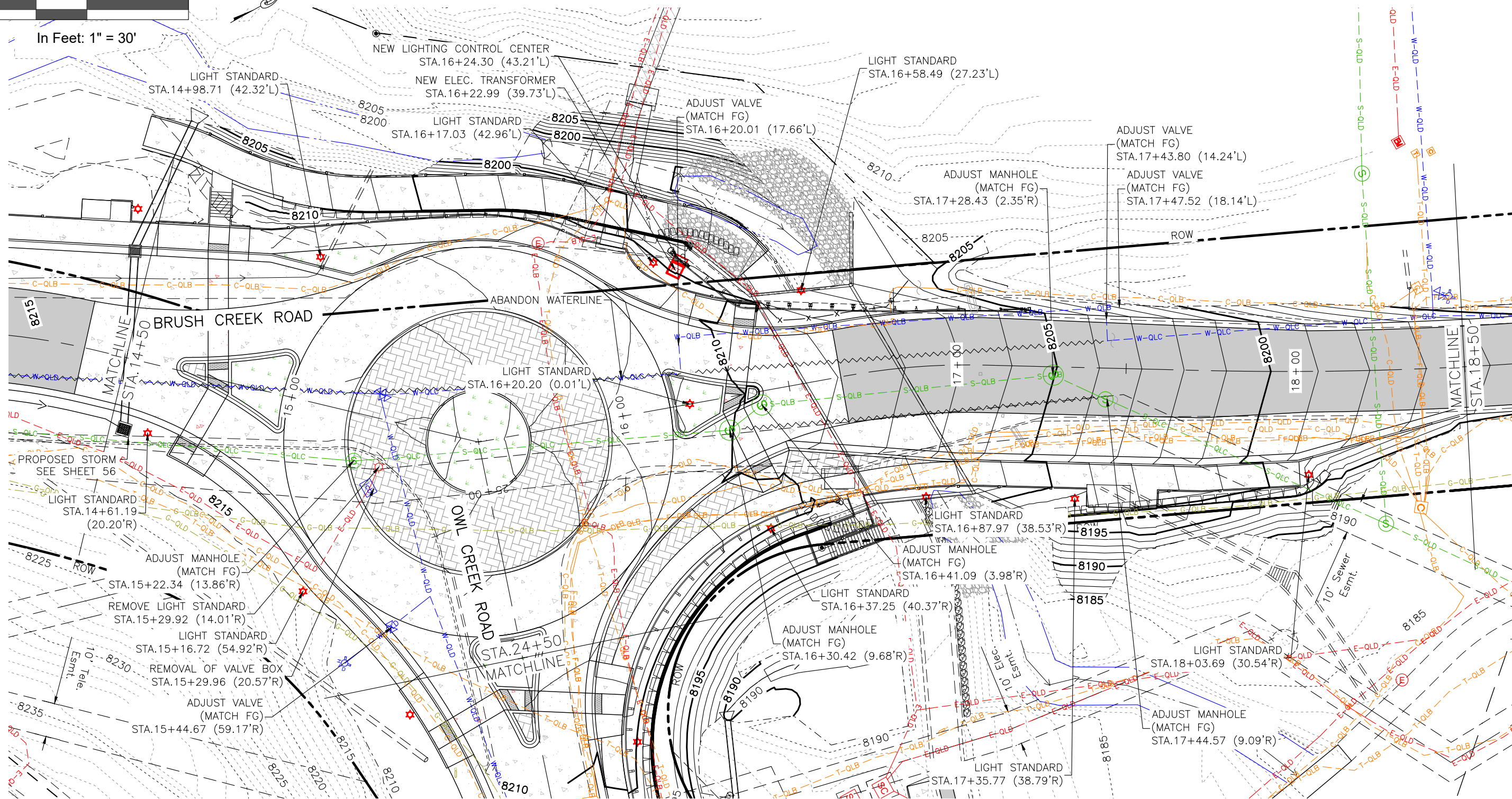


I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_UTILITY.DWG Plotted: 4/1/2025 9:37 AM By: Eric Mahoney

Graphic Scale

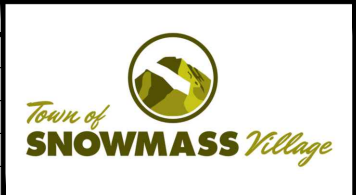


In Feet: 1" = 30'



| Computer File Information |                      |
|---------------------------|----------------------|
| Print Date:               | 4/1/25               |
| Last Modification Date:   | 4/1/25               |
| Drawing File Name:        | BrushCreekRB_UTILITY |
| Autocad Ver.              | 2022                 |
| Scale:                    | As Shown             |
| SGM Project No.:          | 91004D-83            |
| Quality Control:          | SAK                  |

| Sheet Revisions |      |          |       |
|-----------------|------|----------|-------|
| Rev.            | Date | Comments | Init. |
| 1               |      |          |       |
|                 |      |          |       |
|                 |      |          |       |
|                 |      |          |       |





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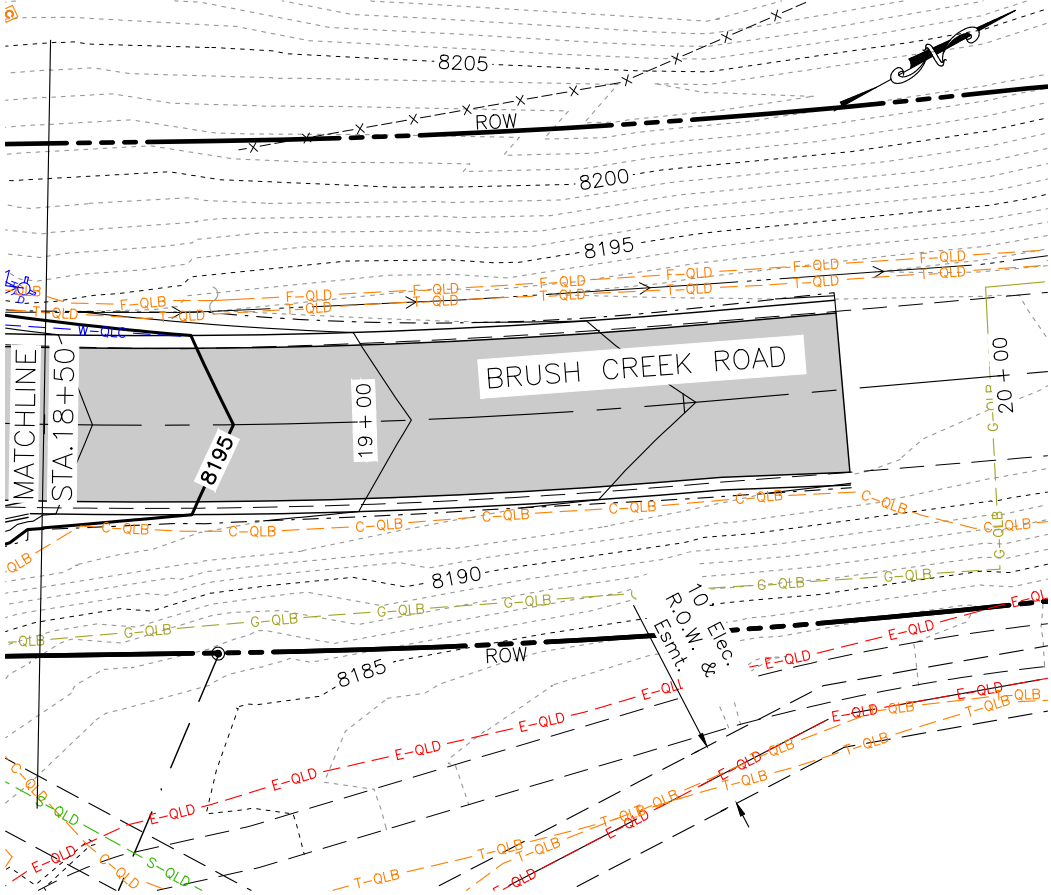
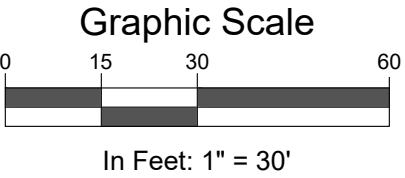
| As Constructed |
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| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT<br>UTILITY PLAN (2) |         |                |        |
|--------------------------------------------|---------|----------------|--------|
| Engineer:                                  | SAK     | Structure      | --     |
| Drawn By:                                  | MWM     | Numbers        | --     |
| Sheet Subset:                              | UTILITY | Subset Sheets: | 5 of 7 |

| Project No./Code |
|------------------|
| --               |
| --               |
| Sheet Number 26  |



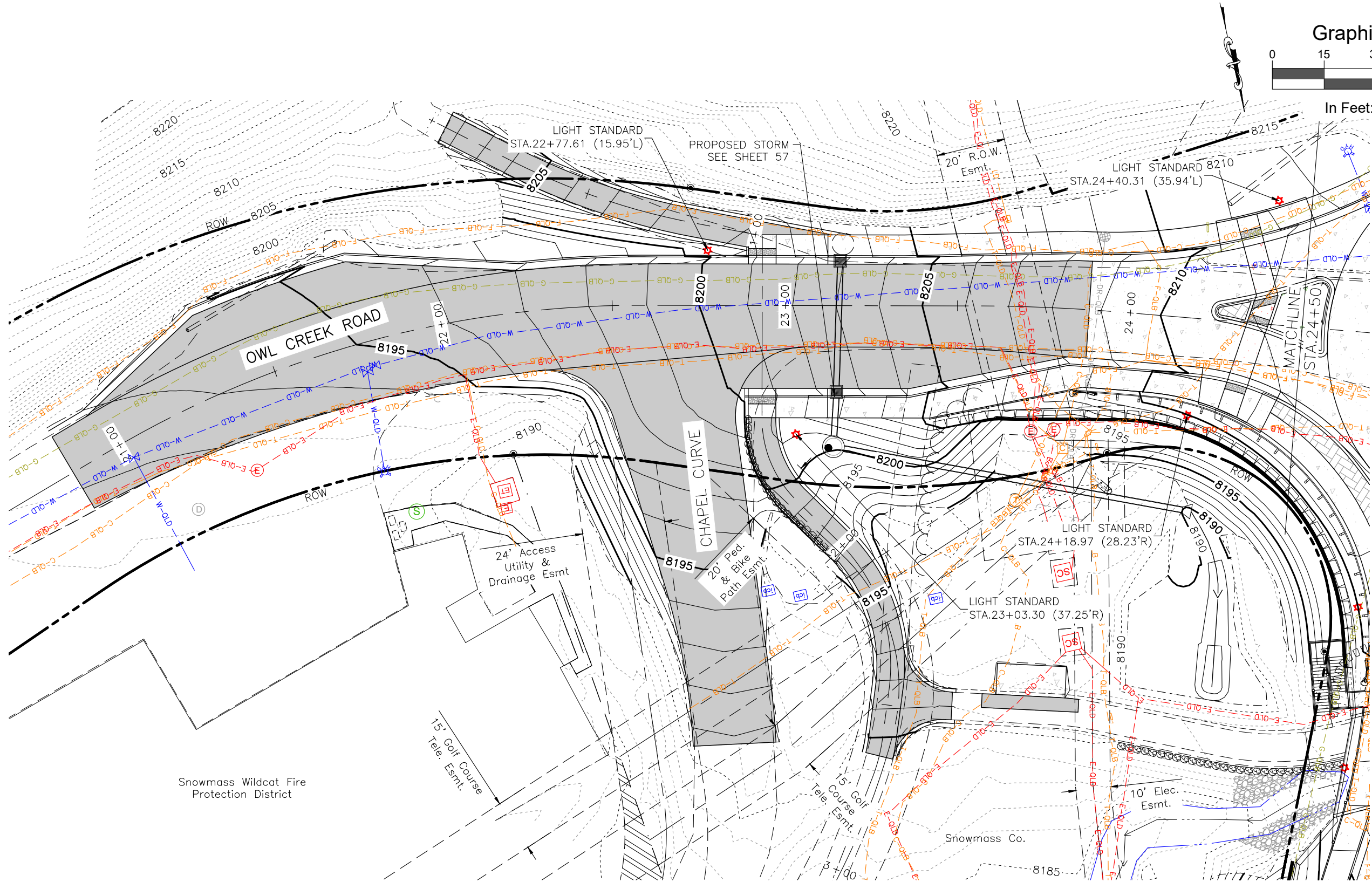
I:\1991\91004\D\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_UTILITY.DWG Plotted: 4/1/2025 9:37 AM By: Eric Mahoney



| Computer File Information               |                                   | Sheet Revisions       |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>UTILITY PLAN (3) |                   |        | Project No./Code |    |
|-----------------------------------------|-----------------------------------|-----------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|--------------------------------------------|-------------------|--------|------------------|----|
| Print Date: 4/1/25                      | Last Modification Date: 4/1/25    | Rev.                  | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  | Engineer: SAK                              | Structure Numbers | --     | --               |    |
| Drawing File Name: BrushCreekRB_Utility | Autocad Ver. 2022 Scale: As Shown | <input type="radio"/> |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Drawn By: MWM                              |                   | --     | --               |    |
| SGM Project No.: 91004D-83              | Quality Control: SAK              | <input type="radio"/> |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Sheet Subset: UTILITY                      | Subset Sheets:    | 6 of 7 | Sheet Number     | 27 |

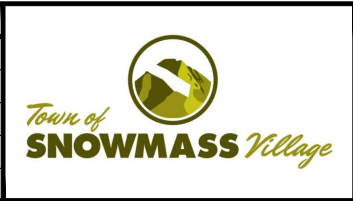


I:\1991\91004\1\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_UTILITY.DWG Plotted: 4/1/2025 9:37 AM By: Eric Mahoney



| Computer File Information |                      |
|---------------------------|----------------------|
| Print Date:               | 4/1/25               |
| Last Modification Date:   | 4/1/25               |
| Drawing File Name:        | BrushCreekRB_Utility |
| Autocad Ver.              | 2022                 |
| Scale:                    | As Shown             |
| SGM Project No.:          | 91004D-83            |
| Quality Control:          | SAK                  |

| Sheet Revisions |      |          |       |  |
|-----------------|------|----------|-------|--|
| Rev.            | Date | Comments | Init. |  |
| 1               |      |          |       |  |
|                 |      |          |       |  |
|                 |      |          |       |  |
|                 |      |          |       |  |





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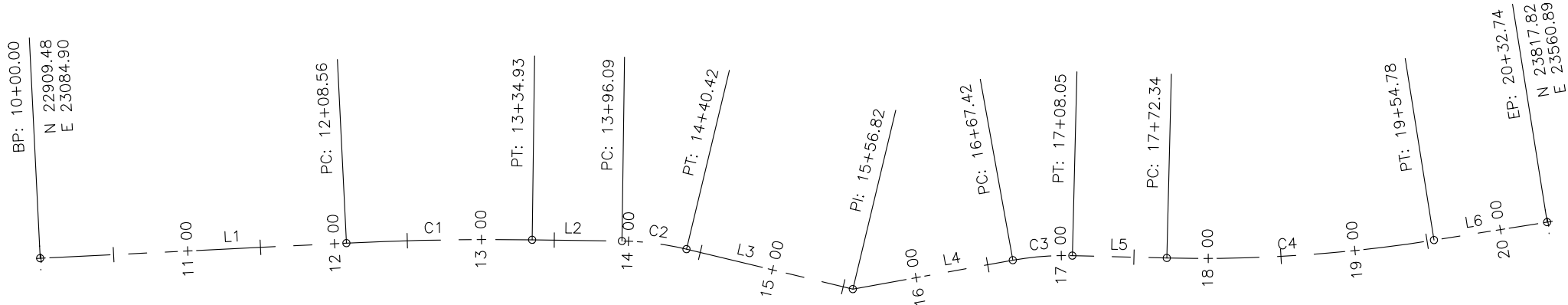
| As Constructed |  |
|----------------|--|
| No Revisions:  |  |
| Revised:       |  |
| Void:          |  |

| BRUSH CREEK ROUNDABOUT<br>UTILITY PLAN (4) |         |                |        |
|--------------------------------------------|---------|----------------|--------|
| Engineer:                                  | SAK     | Structure      | --     |
| Drawn By:                                  | MWM     | Numbers        | --     |
| Sheet Subset:                              | UTILITY | Subset Sheets: | 7 of 7 |

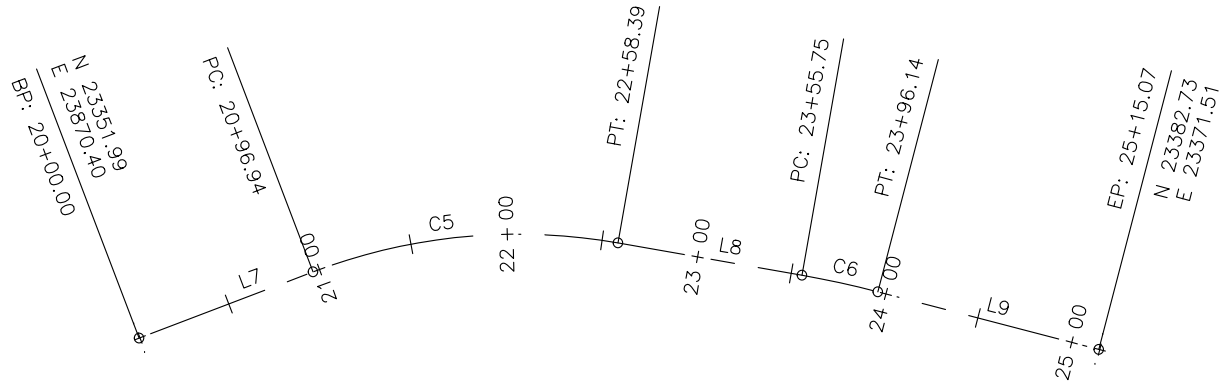
| Project No./Code |    |
|------------------|----|
| --               |    |
| --               |    |
| Sheet Number     | 28 |



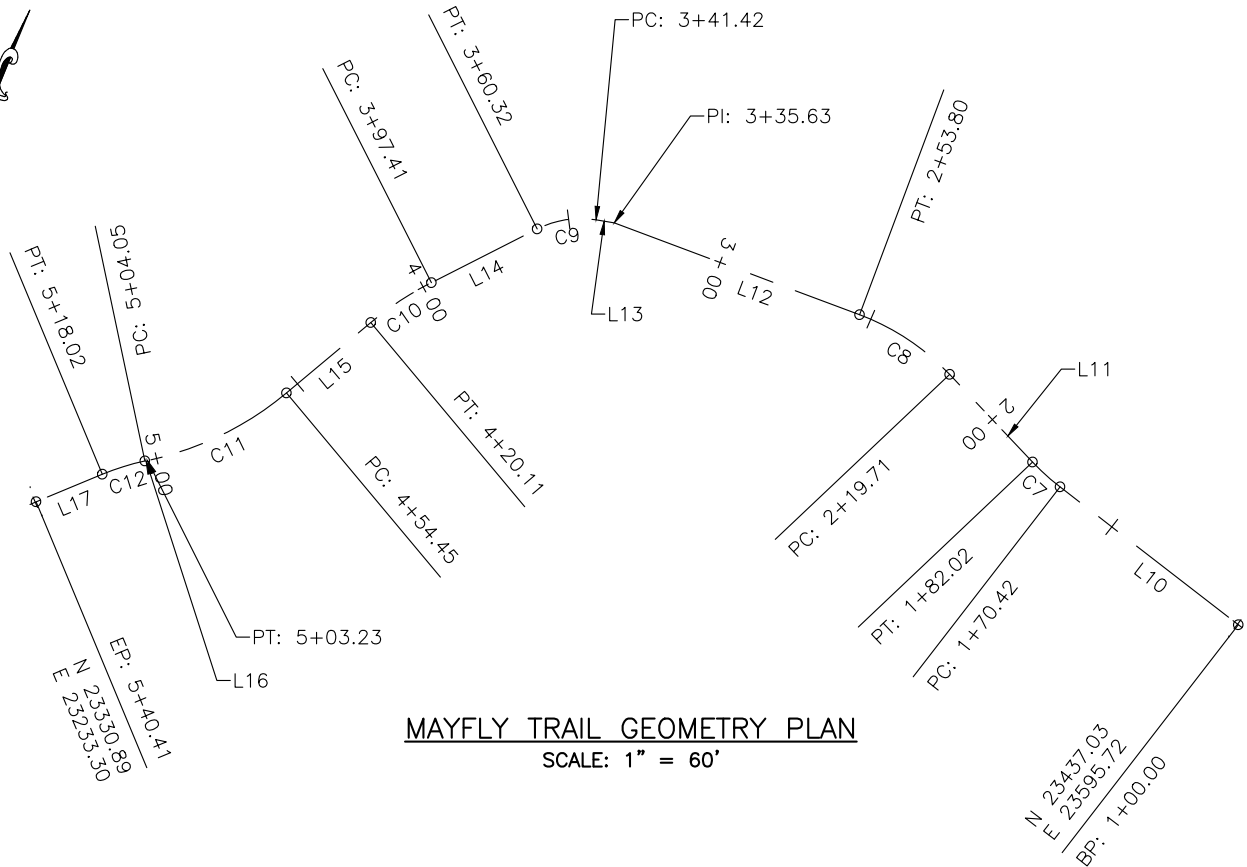
I:\1991\91004\1\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_GEOMETRY.DWG Plotted: 4/1/2025 9:37 AM By: Eric Mahoney



BRUSH CREEK ROAD GEOMETRY PLAN  
SCALE: 1" = 100'



OWL CREEK ROAD GEOMETRY PLAN  
SCALE: 1" = 100'



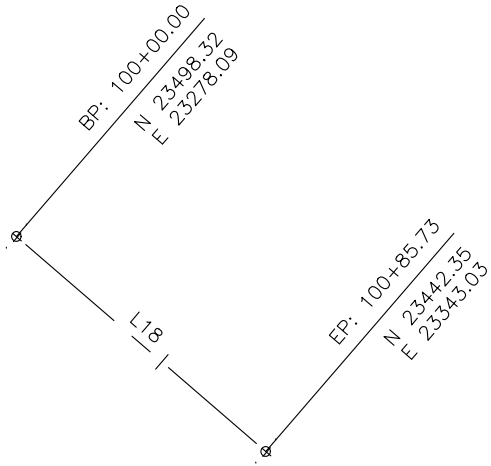
MAYFLY TRAIL GEOMETRY PLAN  
SCALE: 1" = 60'

| Computer File Information                |                                   | Sheet Revisions |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed | BRUSH CREEK ROUNDABOUT<br>GEOMETRY PLAN (1) |                   |        | Project No./Code |    |
|------------------------------------------|-----------------------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------|-------------------|--------|------------------|----|
| Print Date: 4/1/25                       | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  | Engineer: AMC                               | Structure Numbers | --     | --               |    |
| Drawing File Name: BrushCreekRB_Geometry | Autocad Ver. 2022 Scale: As Shown |                 |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       | Drawn By: EJM                               |                   | --     | --               |    |
| SGM Project No.: 91004D-83               | Quality Control: MDF              |                 |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          | Sheet Subset: GEOM                          | Subset Sheets:    | 1 of 3 | Sheet Number     | 33 |

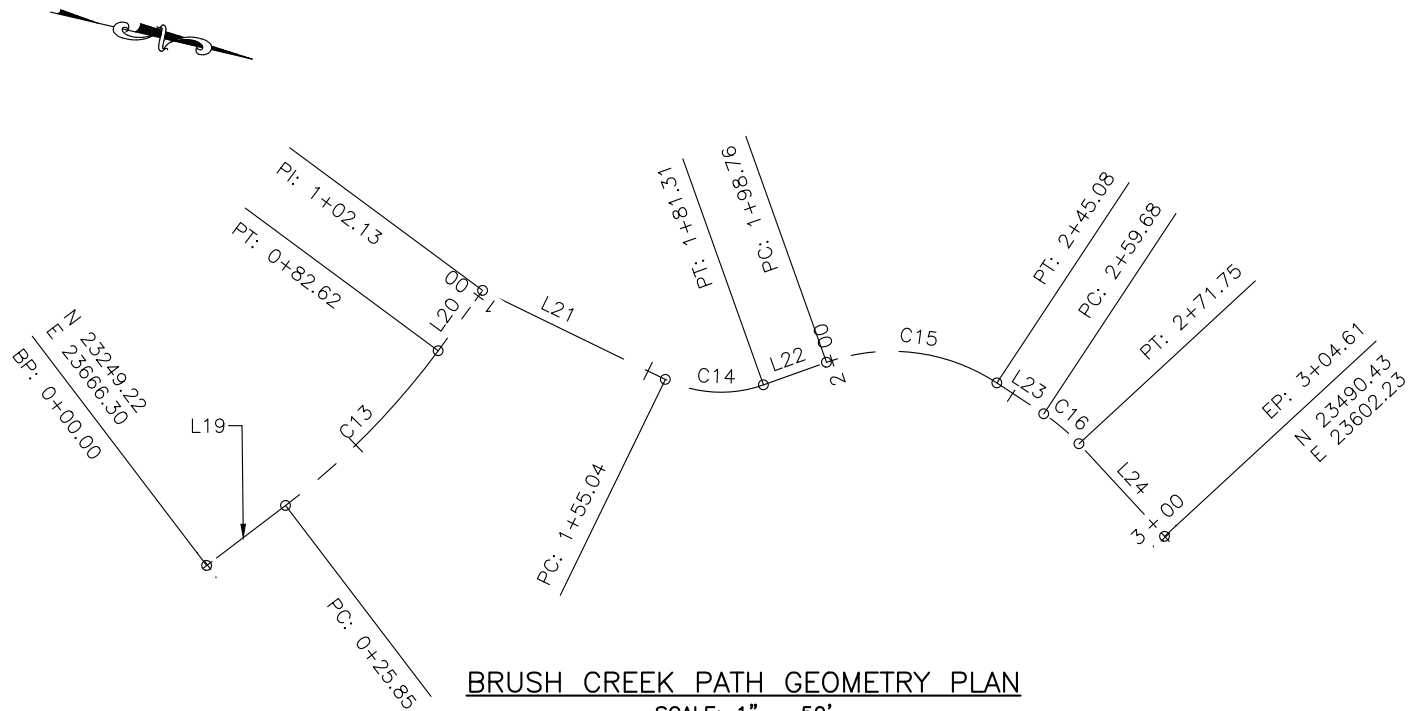


I:\1991\91004\191004D-83 - OWL CREEK ROUNDABOUT\H-DWG\civil\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_GEOMETRY.DWG Plotted: 4/1/2025 9:37 AM By: Eric Mahoney

PEDESTRIAN BRIDGE GEOMETRY PLAN  
SCALE: 1" = 50'

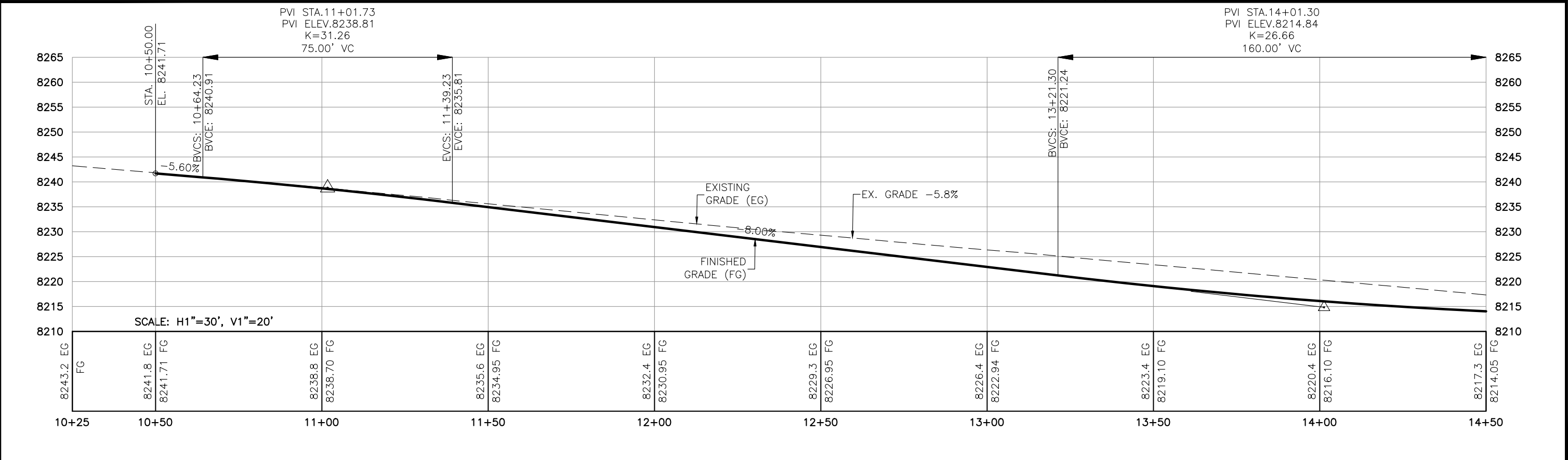
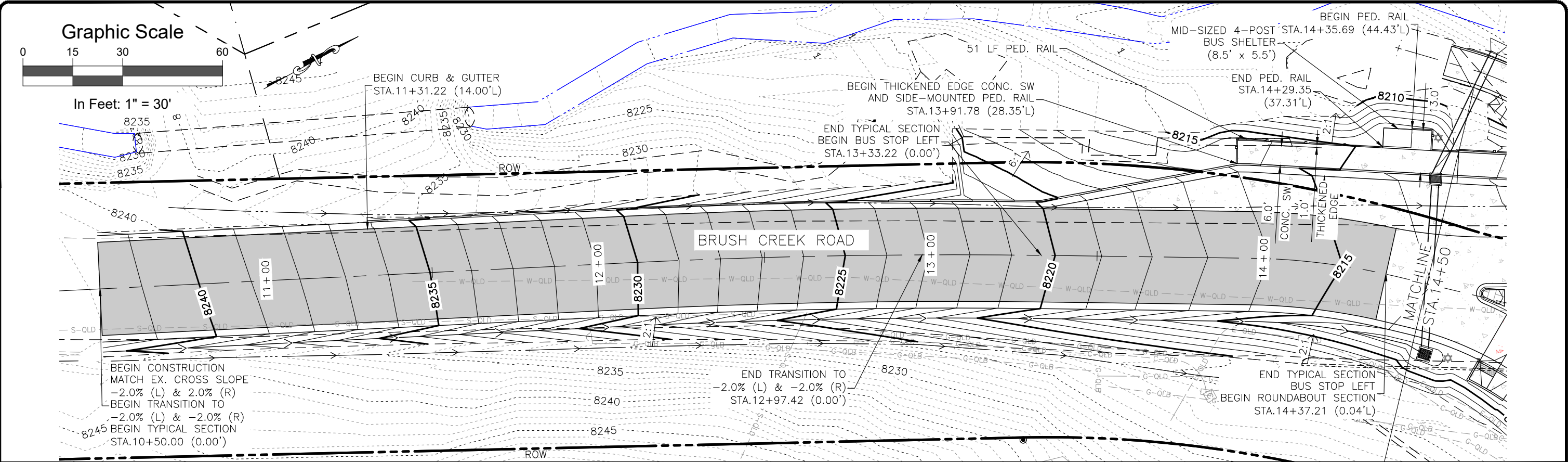


BRUSH CREEK PATH GEOMETRY PLAN  
SCALE: 1" = 50'





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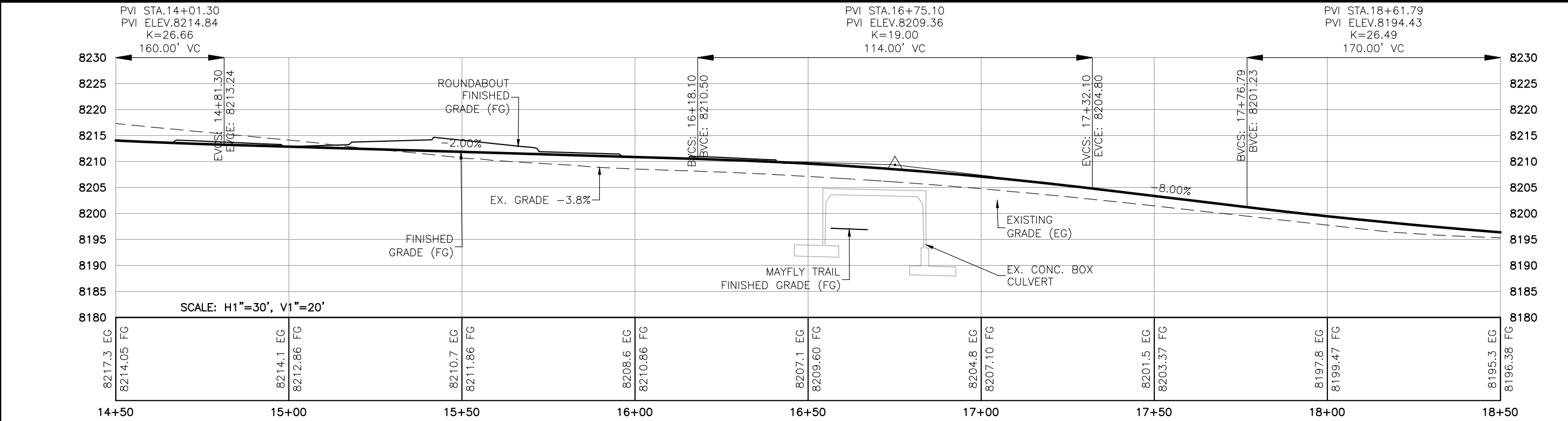
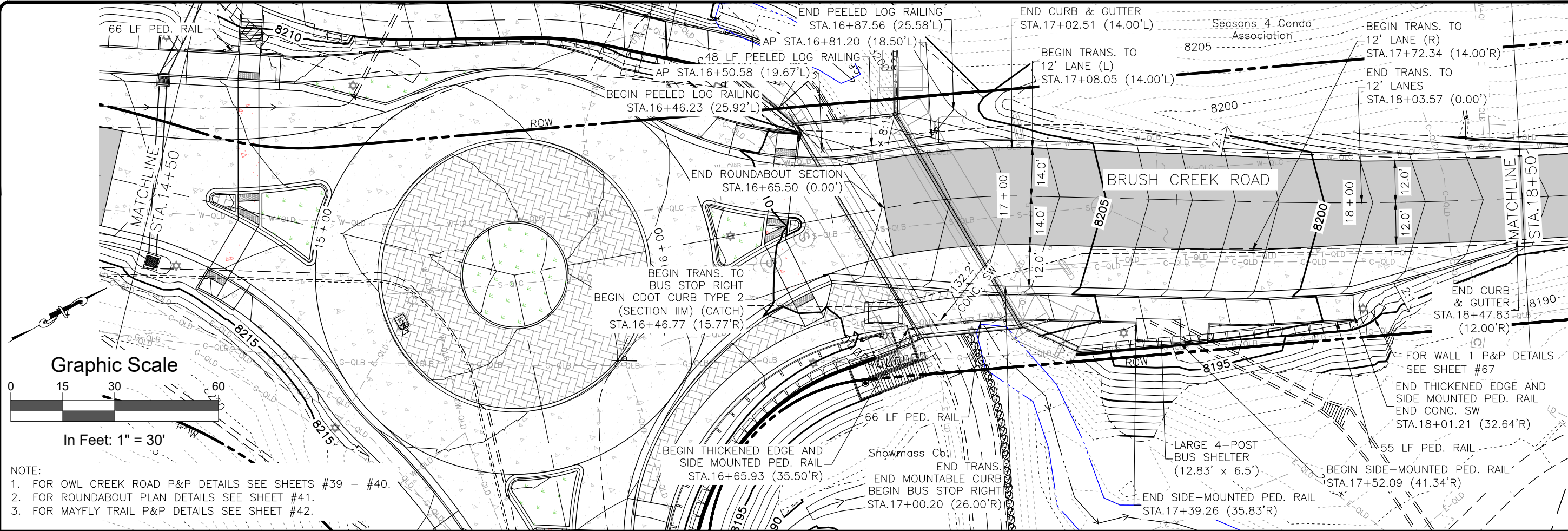
| Computer File Information                            |  | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK ROAD PLAN AND PROFILE (1) |         |                |         | Project No./Code     |  |
|------------------------------------------------------|--|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-----------------------------------------------------------------|---------|----------------|---------|----------------------|--|
| Print Date: 4/1/25                                   |  | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                         | No Revisions:  |  | BRUSH CREEK ROAD PLAN AND PROFILE (1)                           |         |                |         | --                   |  |
| Last Modification Date: 4/1/25                       |  | <div>1</div>    |      |          |       |                                                                                                                                           |                                                                                                                                                                                         | Revised:       |  | Engineer:                                                       | AMC     | Structure      | --      | --                   |  |
| Drawing File Name: BrushCreekRB_P&P                  |  | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                         | Void:          |  | Drawn By:                                                       | EJM     | Numbers        | --      | --                   |  |
| Autocad Ver. 2022      Scale: As Shown               |  | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                         |                |  | Sheet Subset:                                                   | ROADWAY | Subset Sheets: | 1 of 18 | Sheet Number      36 |  |
| SGM Project No.: 91004D-83      Quality Control: MDF |  | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                         |                |  |                                                                 |         |                |         |                      |  |



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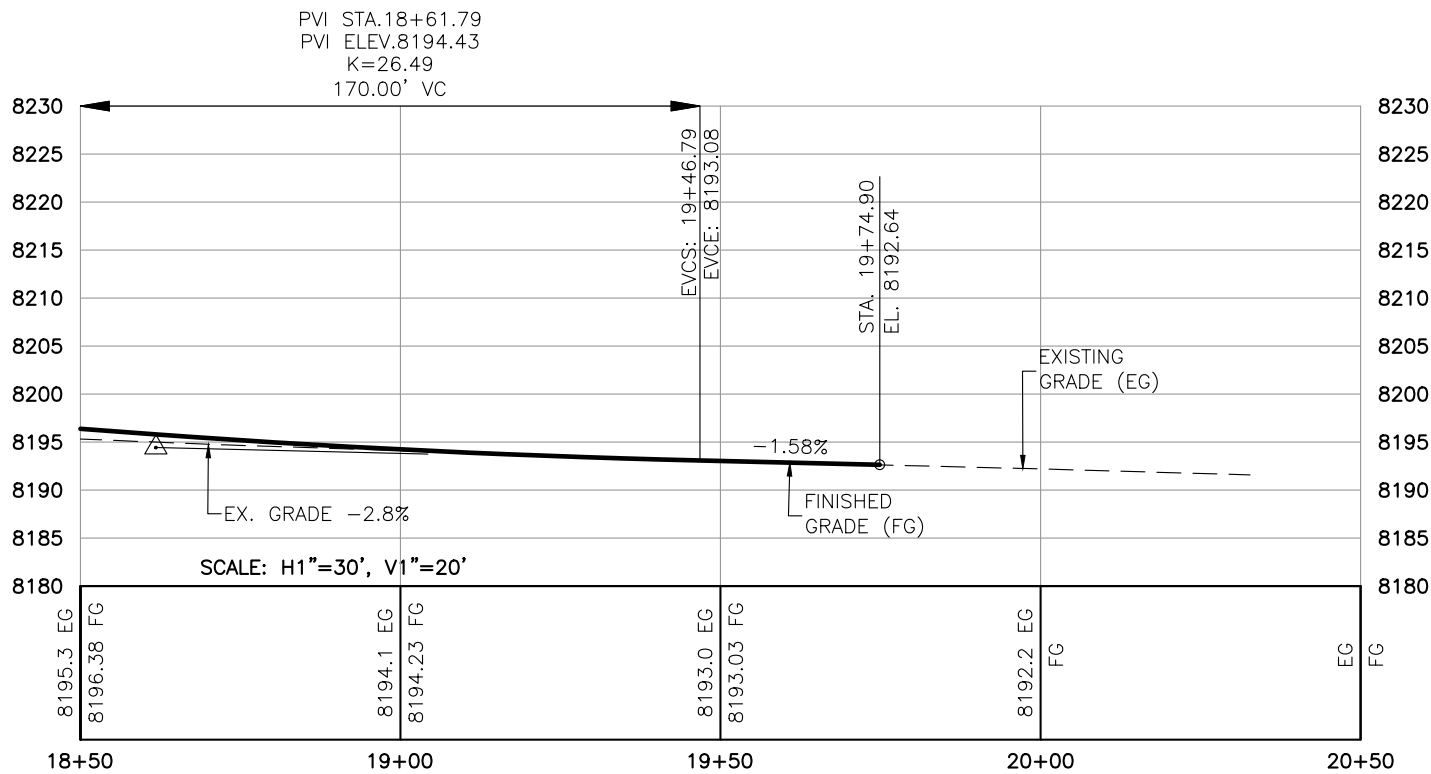
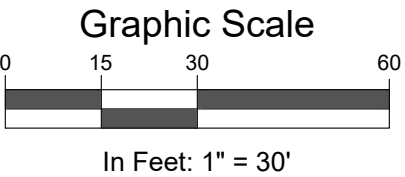
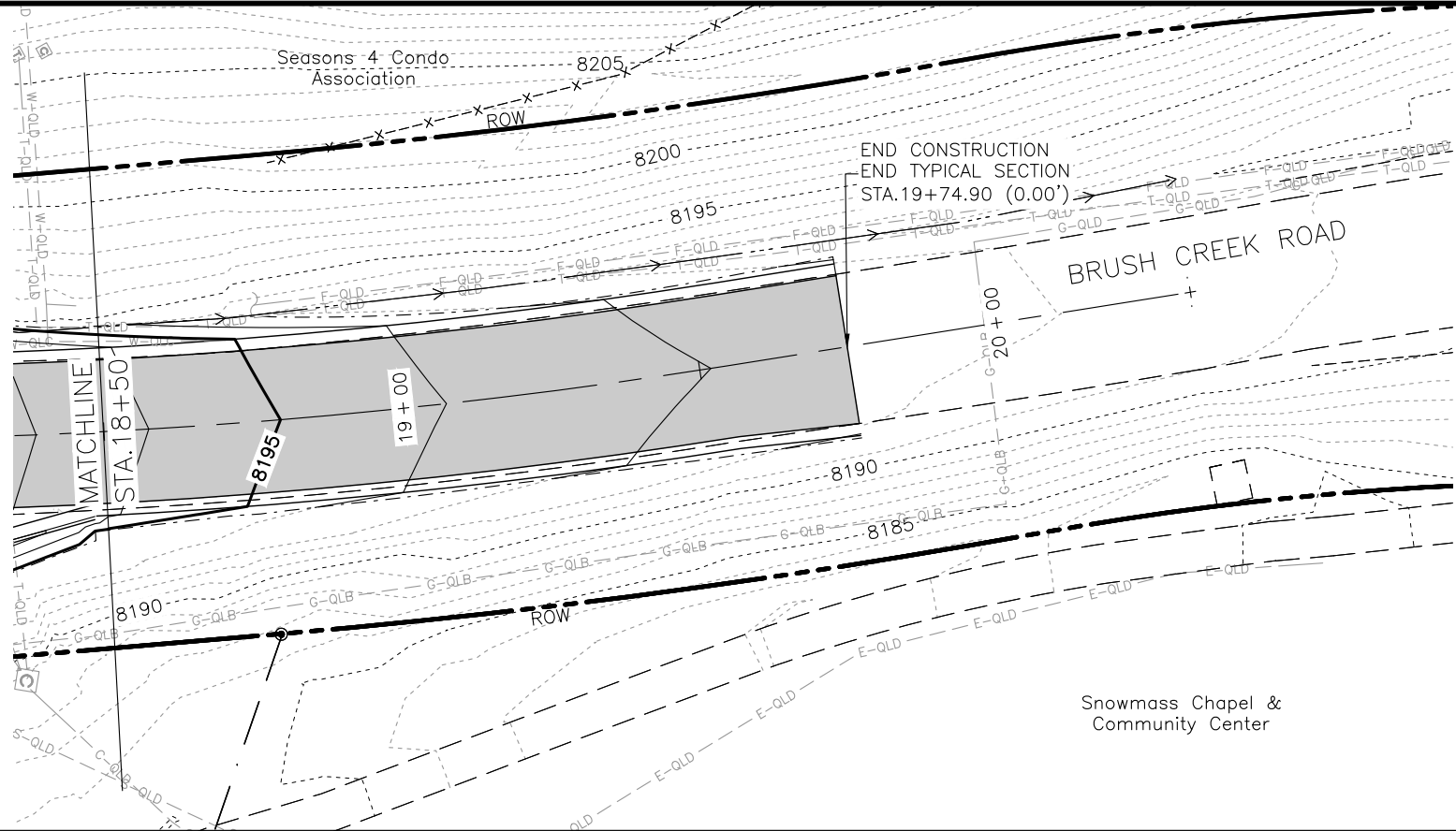
I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_P&P.DWG Plotted: 4/1/2025 9:38 AM By: Eric Mahoney



| Computer File Information              |                      | Sheet Revisions                |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |               | BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK ROAD PLAN AND PROFILE (2) |                |           | Project No.  |    |
|----------------------------------------|----------------------|--------------------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|-----------------------------------------------------------------|----------------|-----------|--------------|----|
| Print Date: 4/1/25                     |                      | Rev.                           | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |               |                                                                 |                |           | --           |    |
| Last Modification Date: 4/1/25         |                      | <input type="text" value="1"/> |      |          |       |                                                                                       |                                                                                                                                                                                         |                |               |                                                                 |                |           |              |    |
| Drawing File Name: BrushCreekRB_P&P    |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                |               | Engineer:                                                       | AMC            | Structure | --           | -- |
| Autocad Ver. 2022      Scale: As Shown |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                |               | Drawn By:                                                       | EJM            | Numbers   | --           |    |
| SGM Project No.: 91004D-83             | Quality Control: MDF | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          | Sheet Subset: | ROADWAY                                                         | Subset Sheets: | 2 of 18   | Sheet Number |    |



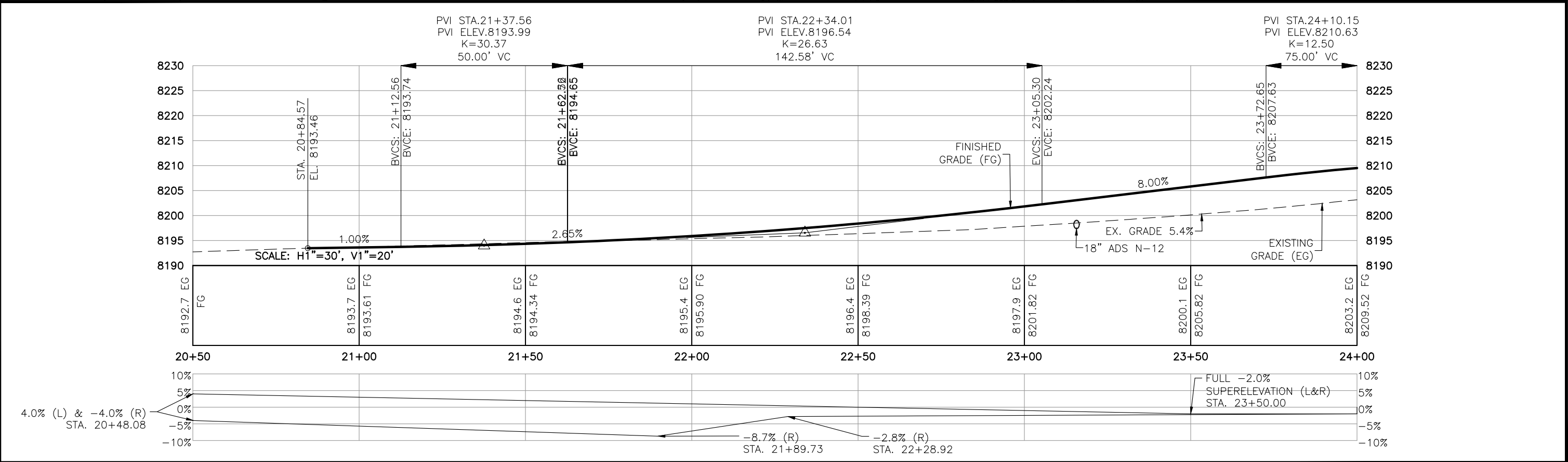
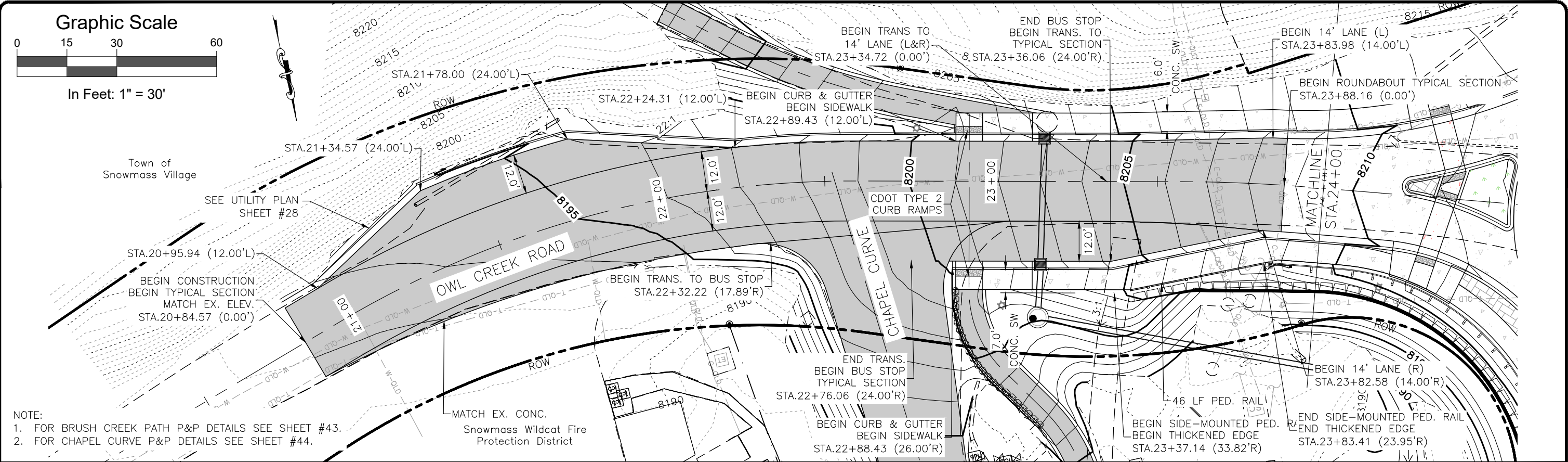
I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWG\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_P&P.DWG Plotted: 4/1/2025 9:38 AM By: Eric Mahoney



| Computer File Information              |                      | Sheet Revisions                |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK ROAD PLAN AND PROFILE (3) |                        |                 | Project No./Code |  |
|----------------------------------------|----------------------|--------------------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-----------------------------------------------------------------|------------------------|-----------------|------------------|--|
| Print Date: 4/1/25                     |                      | Rev.                           | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  |                                                                 |                        |                 | --               |  |
| Last Modification Date: 4/1/25         |                      | <input type="text" value="1"/> |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                                 |                        |                 |                  |  |
| Drawing File Name: BrushCreekRB_P&P    |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                                 |                        |                 |                  |  |
| Autocad Ver. 2022      Scale: As Shown |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                                 |                        |                 |                  |  |
| SGM Project No.: 91004D-83             | Quality Control: MDF | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Sheet Subset: ROADWAY                                           | Subset Sheets: 3 of 18 | Sheet Number 38 |                  |  |
|                                        |                      |                                |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  | Engineer: AMC                                                   | Structure Numbers      | --              | --               |  |
|                                        |                      |                                |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  | Drawn By: EJM                                                   |                        | --              |                  |  |



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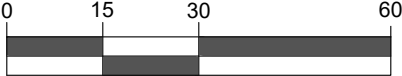
| Computer File Information           |  |  |  | Sheet Revisions      |      |          |       | As Constructed |  |  |  | BRUSH CREEK ROUNDABOUT<br>OWL CREEK ROAD PLAN AND PROFILE (1) |  |  |  | Project No./Code |  |
|-------------------------------------|--|--|--|----------------------|------|----------|-------|----------------|--|--|--|---------------------------------------------------------------|--|--|--|------------------|--|
| Print Date: 4/1/25                  |  |  |  | Rev.                 | Date | Comments | Init. | No Revisions:  |  |  |  | Engineer: AMC                                                 |  |  |  | --               |  |
| Last Modification Date: 4/1/25      |  |  |  | 1                    |      |          |       | Revised:       |  |  |  | Structure Numbers                                             |  |  |  | --               |  |
| Drawing File Name: BrushCreekRB_P&P |  |  |  |                      |      |          |       | Void:          |  |  |  | Drawn By: EJM                                                 |  |  |  | --               |  |
| Autocad Ver. 2022 Scale: As Shown   |  |  |  |                      |      |          |       |                |  |  |  | Sheet Subset: ROADWAY                                         |  |  |  | 4 of 18          |  |
| SGM Project No.: 91004D-83          |  |  |  | Quality Control: MDF |      |          |       |                |  |  |  | Subset Sheets:                                                |  |  |  | Sheet Number     |  |
|                                     |  |  |  |                      |      |          |       |                |  |  |  |                                                               |  |  |  | 39               |  |





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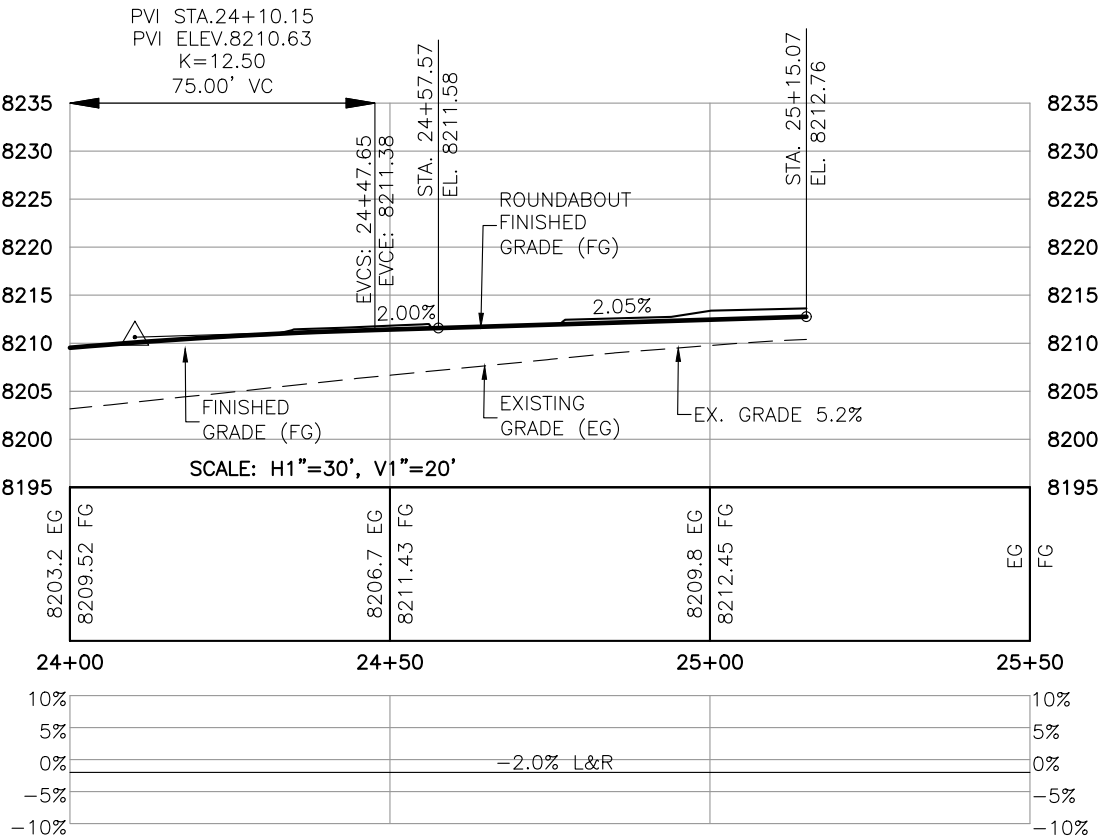
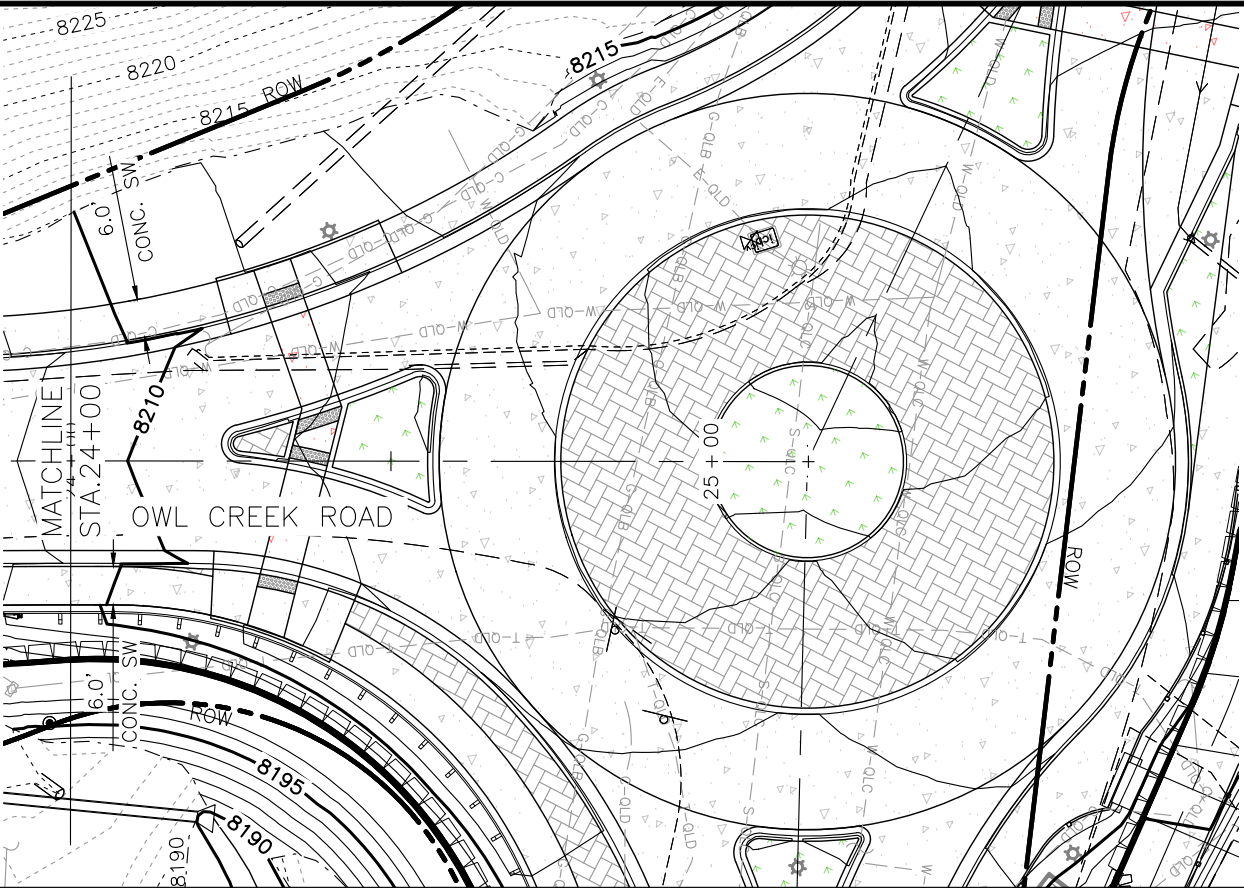
Graphic Scale



In Feet: 1" = 30'



- NOTE:
- 1. FOR BRUSH CREEK ROAD P&P DETAILS SEE SHEETS #36 - #38
  - 2. FOR ROUNDABOUT PLAN DETAILS SEE SHEET #41



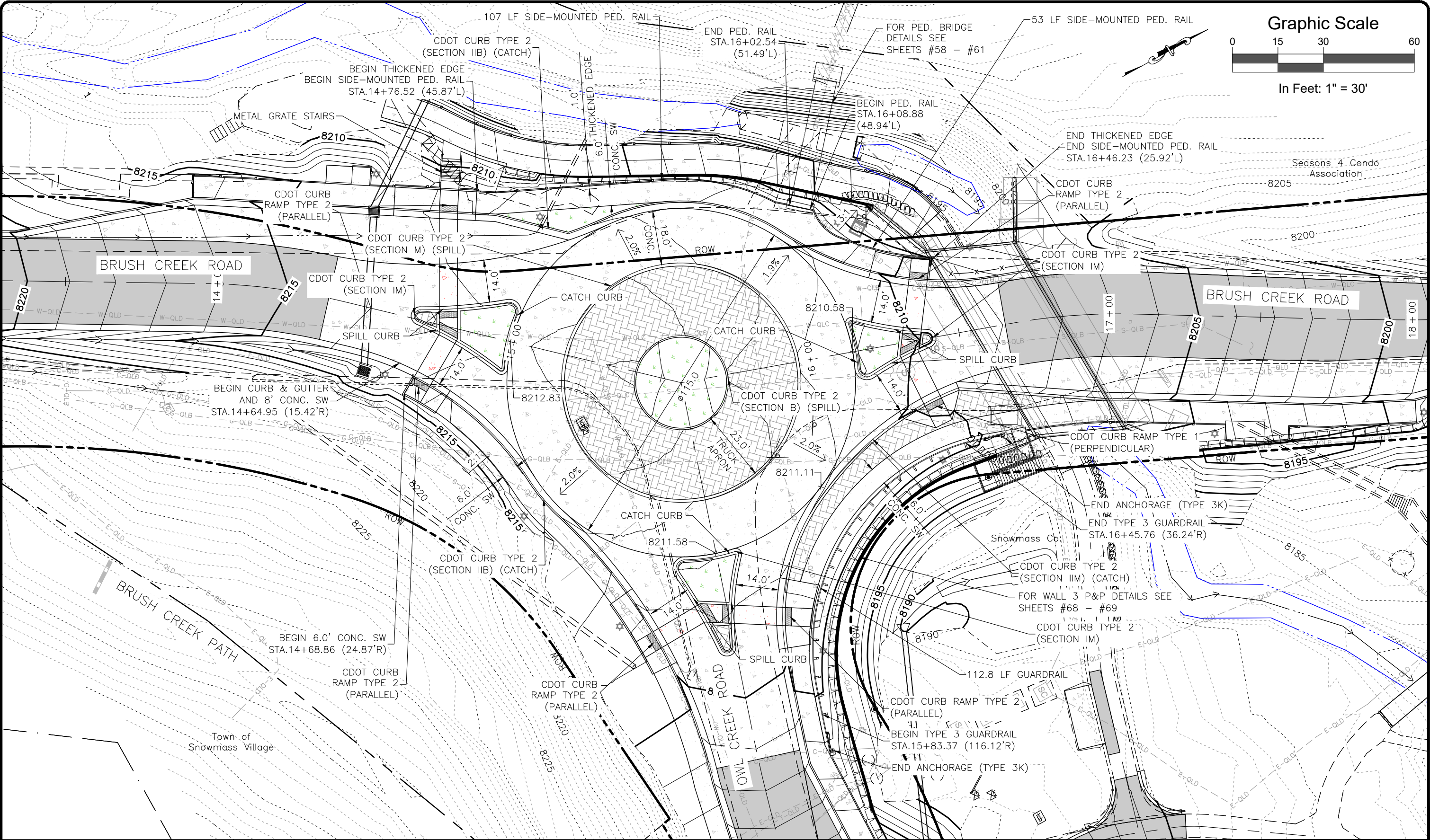
| Computer File Information           |  | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>OWL CREEK ROAD PLAN AND PROFILE (2) |  |  | Project No./Code       |  |
|-------------------------------------|--|----------------------|------|----------|-------|----------------|--|---------------------------------------------------------------|--|--|------------------------|--|
| Print Date: 4/1/25                  |  | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer: AMC                                                 |  |  | --                     |  |
| Last Modification Date: 4/1/25      |  | 1                    |      |          |       | Revised:       |  | Structure Numbers                                             |  |  | --                     |  |
| Drawing File Name: BrushCreekRB_P&P |  |                      |      |          |       | Void:          |  | Drawn By: EJM                                                 |  |  | --                     |  |
| Autocad Ver. 2022 Scale: As Shown   |  |                      |      |          |       |                |  | Sheet Subset: ROADWAY                                         |  |  | Subset Sheets: 5 of 18 |  |
| SGM Project No.: 91004D-83          |  | Quality Control: MDF |      |          |       |                |  |                                                               |  |  | Sheet Number 40        |  |



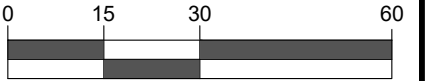
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Graphic Scale



In Feet: 1" = 30'

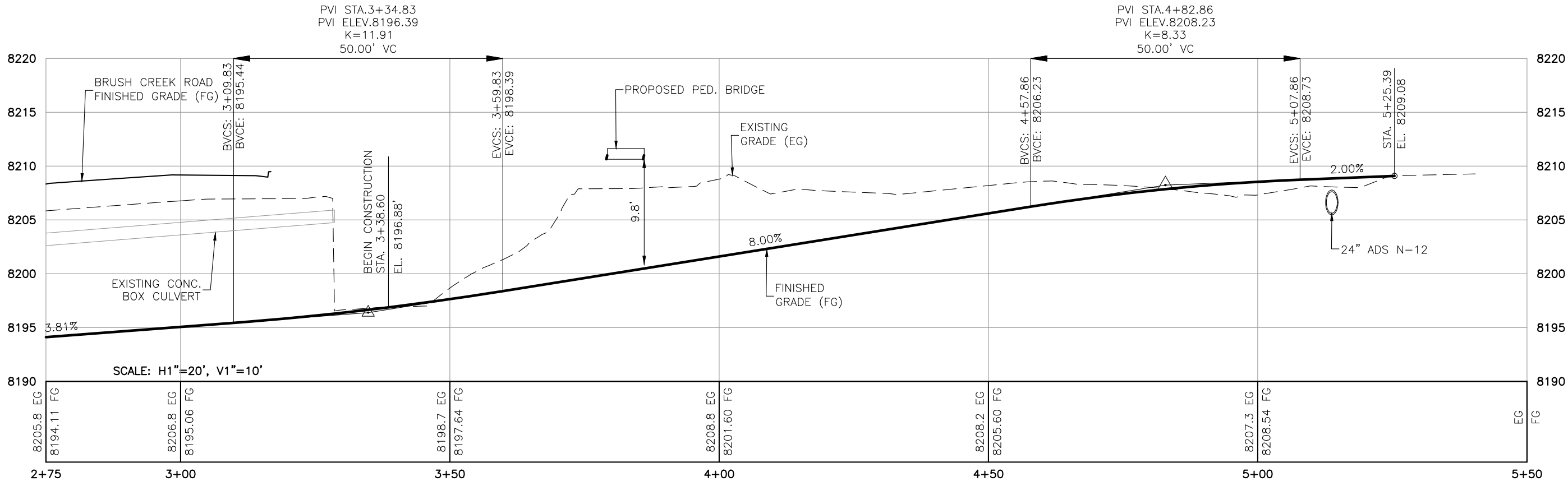
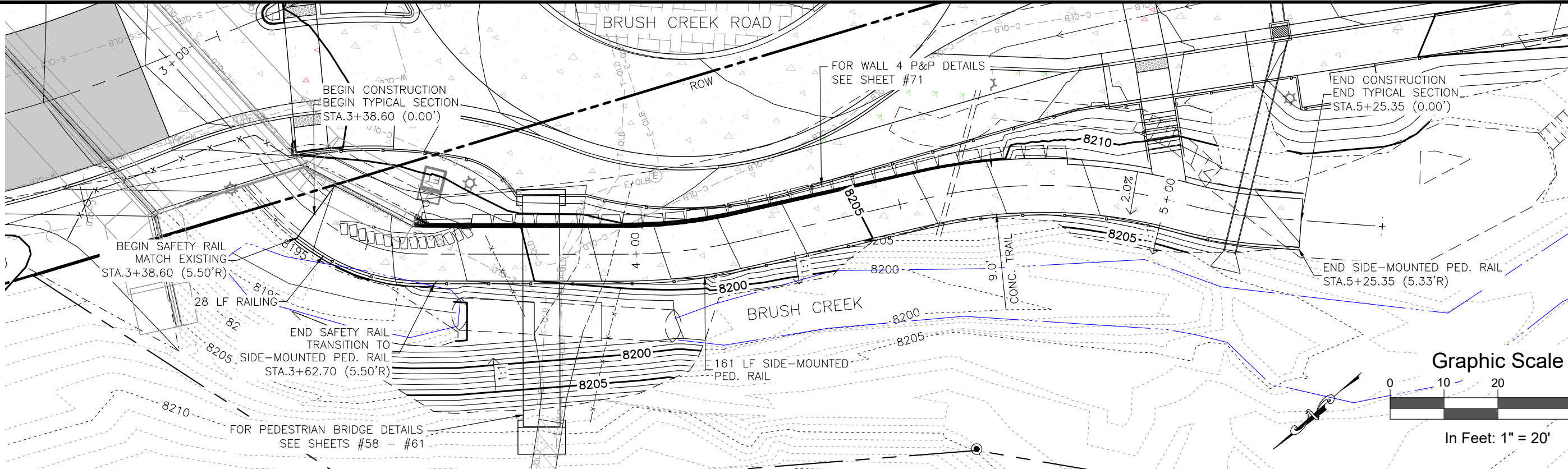
| Computer File Information           |                                   | Sheet Revisions       |      |          |       | As Constructed | BRUSH CREEK ROUNDABOUT<br>ROUNDAABOUT PLAN |         |                | Project No./Code |                 |
|-------------------------------------|-----------------------------------|-----------------------|------|----------|-------|----------------|--------------------------------------------|---------|----------------|------------------|-----------------|
| Print Date: 4/1/25                  | Last Modification Date: 4/1/25    | Rev.                  | Date | Comments | Init. |                | Engineer:                                  | AMC     | Structure      | --               | --              |
| Drawing File Name: BrushCreekRB_P&P | Autocad Ver. 2022 Scale: As Shown | <input type="radio"/> |      |          |       | Revised:       | Drawn By:                                  | EJM     | Numbers        | --               | --              |
| SGM Project No.: 91004D-83          | Quality Control: MDF              | <input type="radio"/> |      |          |       | Void:          | Sheet Subset:                              | ROADWAY | Subset Sheets: | 6 of 18          | Sheet Number 41 |



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I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWGS\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_P&P1.DWG Plotted: 4/1/2025 9:40 AM By: Eric Mahoney

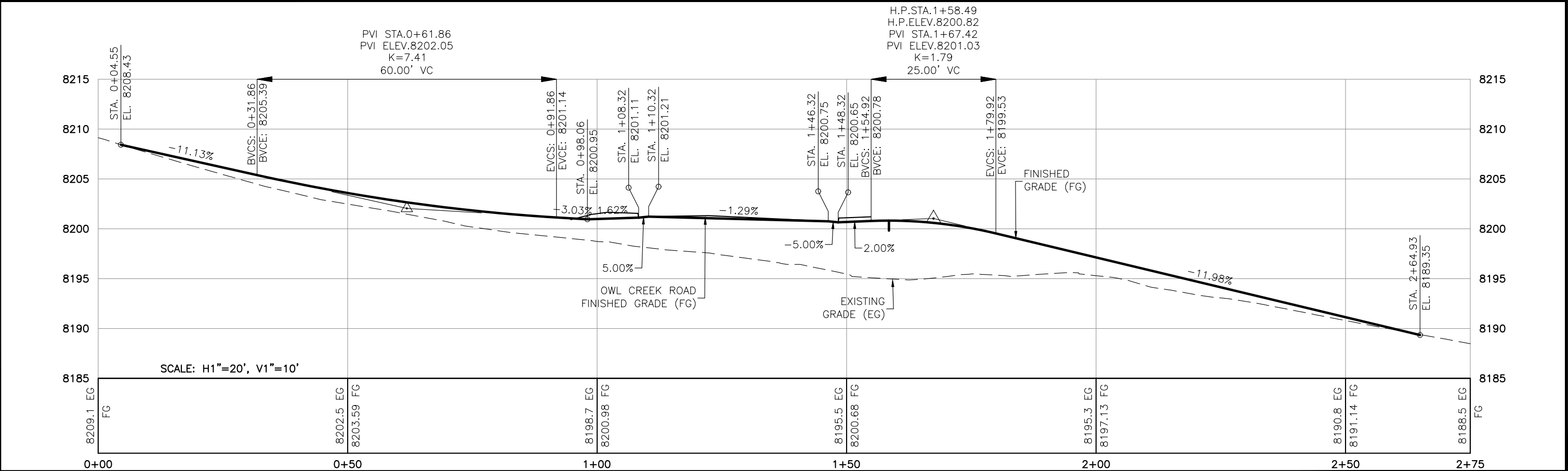
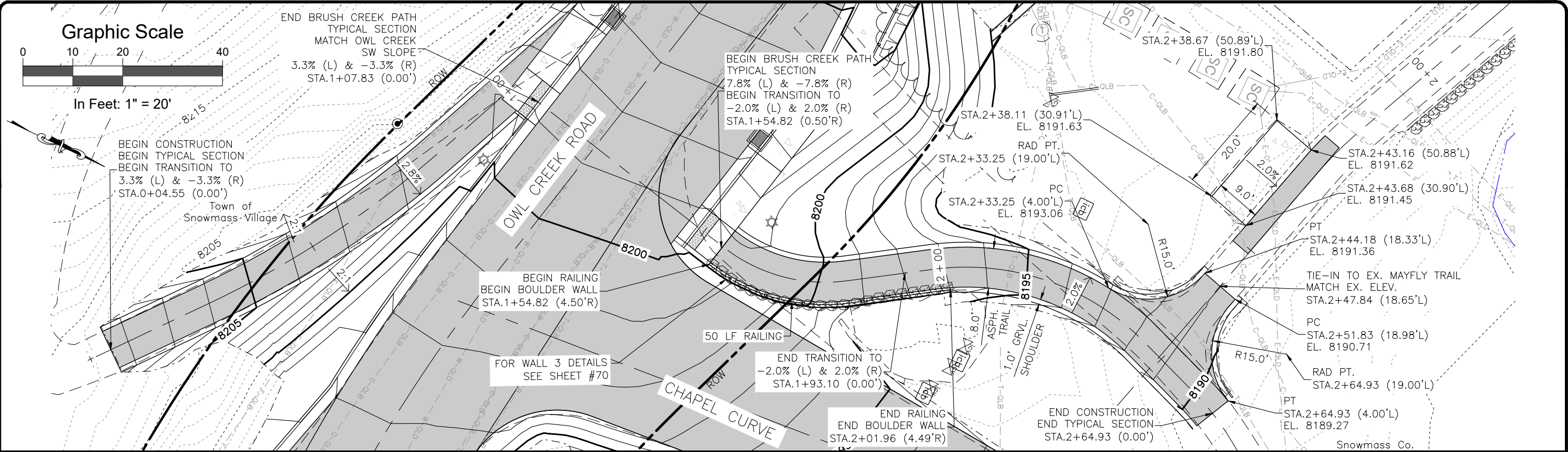


| Computer File Information            |                                   | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>MAYFLY TRAIL PLAN AND PROFILE |                        | Project No./Code |    |
|--------------------------------------|-----------------------------------|-----------------|------|----------|-------|----------------|--|---------------------------------------------------------|------------------------|------------------|----|
| Print Date: 4/1/25                   | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                |  |                                                         |                        | --               |    |
| Drawing File Name: BrushCreekRB_P&P1 | Autocad Ver. 2022 Scale: As Shown | 1               |      |          |       | No Revisions:  |  | Engineer: AMC                                           | Structure Numbers      | --               | -- |
| SGM Project No.: 91004D-83           | Quality Control: MDF              |                 |      |          |       | Revised:       |  | Drawn By: EJM                                           |                        | --               |    |
|                                      |                                   |                 |      |          |       | Void:          |  | Sheet Subset: ROADWAY                                   | Subset Sheets: 7 of 18 | Sheet Number     | 42 |



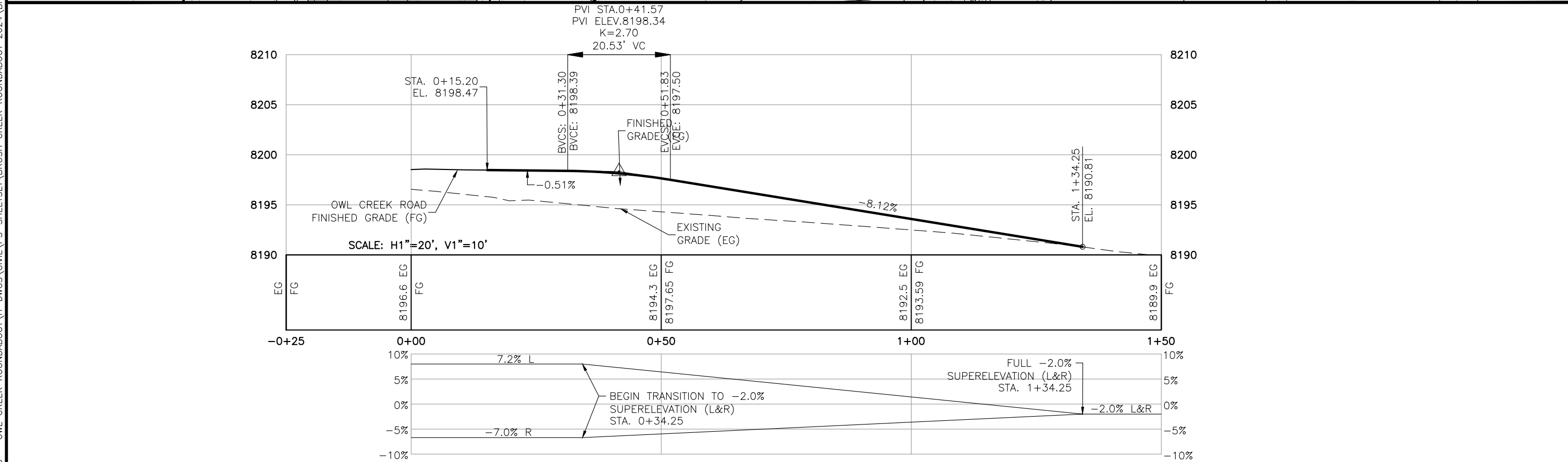


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| Computer File Information                                            |  | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004   www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK PATH PLAN AND PROFILE |  |                        | Project No./Code |                 |  |
|----------------------------------------------------------------------|--|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-------------------------------------------------------------|--|------------------------|------------------|-----------------|--|
| Print Date: 4/1/25                                                   |  | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                           | No Revisions:  |  |                                                             |  |                        | --               |                 |  |
| Last Modification Date: 4/1/25                                       |  | <div>1</div>    |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  | Engineer: AMC                                               |  | Structure              | --               | --              |  |
| Drawing File Name: BrushCreekRB_P&P1                                 |  | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Revised:       |  | Drawn By: EJM                                               |  | Numbers                | --               |                 |  |
| Autocad Ver. 2022    Scale: As Shown                                 |  | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Void:          |  | Sheet Subset: ROADWAY                                       |  | Subset Sheets: 8 of 18 |                  | Sheet Number 43 |  |
| SGM Project No.: 91004D-83                      Quality Control: MDF |  | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  |                                                             |  |                        |                  |                 |  |

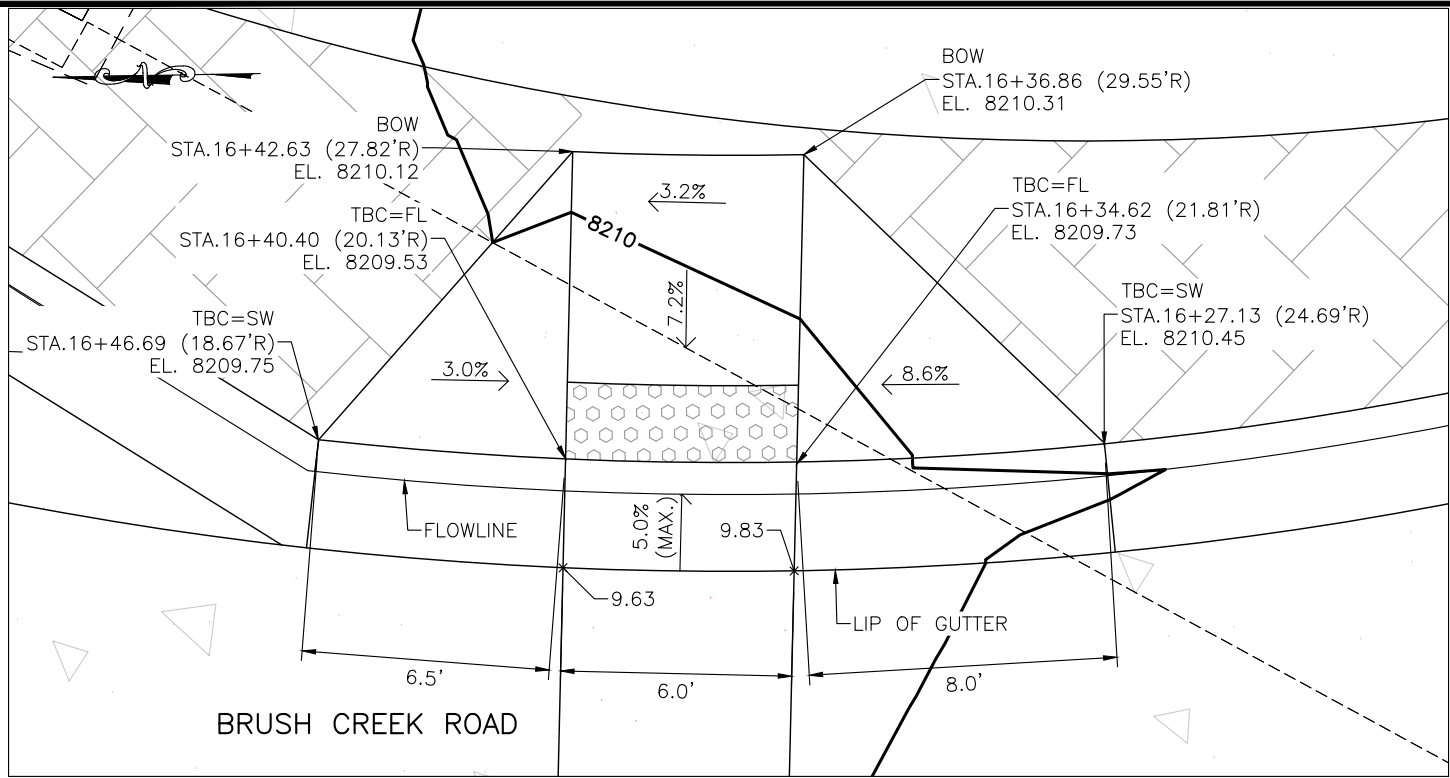




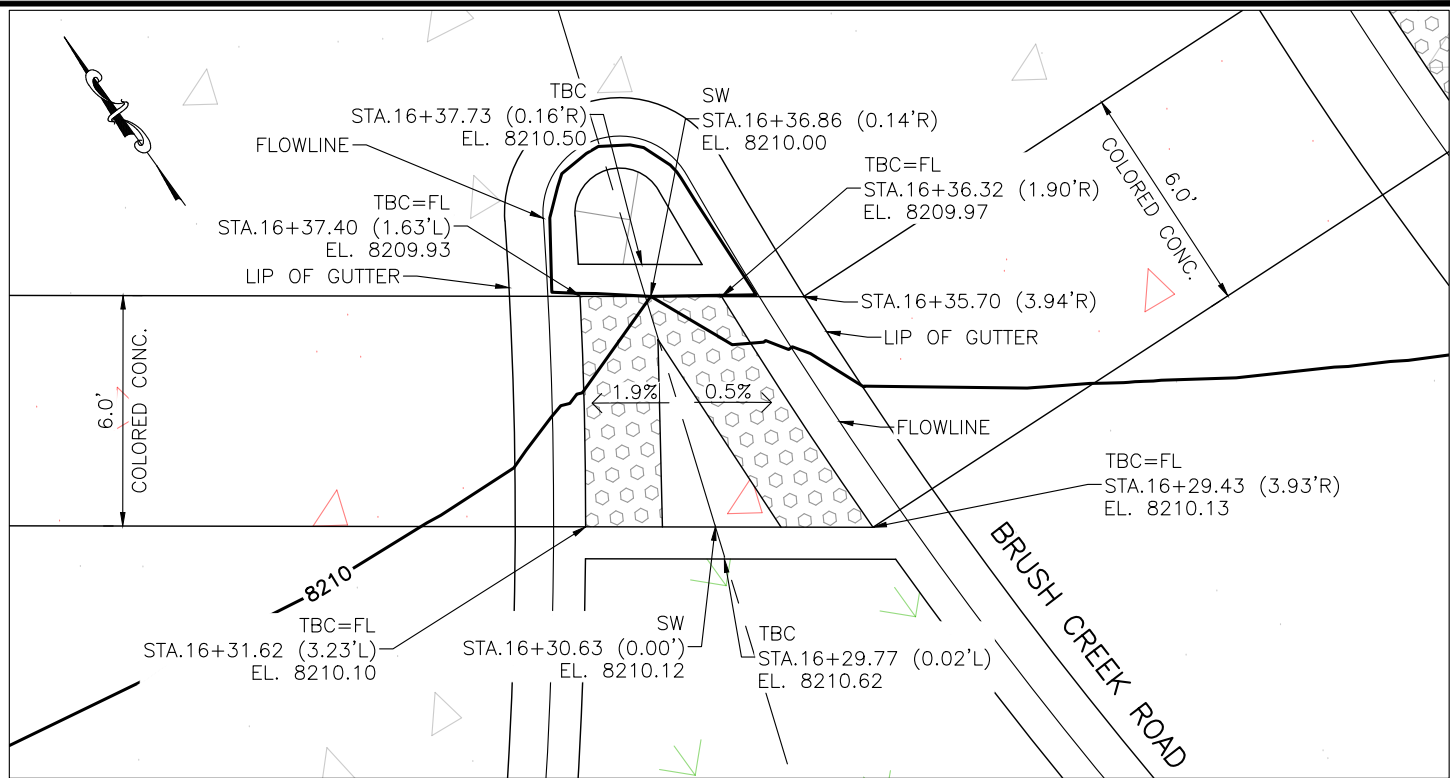
| Computer File Information                                            |                                | Sheet Revisions |          |       |               | <br><i>Town of SNOWMASS Village</i> | <br><b>SGM</b><br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004   www.sgm-inc.com | As Constructed |         | BRUSH CREEK ROUNDABOUT<br>CHAPEL CURVE PLAN AND PROFILE |    |                 | Project No./Code |  |
|----------------------------------------------------------------------|--------------------------------|-----------------|----------|-------|---------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|---------------------------------------------------------|----|-----------------|------------------|--|
| Print Date: 4/1/25                                                   | Rev.                           | Date            | Comments | Init. | No Revisions: |                                                                                                                          |                                                                                                                                                                                                         |                |         |                                                         |    |                 | --               |  |
| Last Modification Date: 4/1/25                                       | <input type="text" value="1"/> |                 |          |       | Revised:      |                                                                                                                          |                                                                                                                                                                                                         | Engineer:      | AMC     | Structure                                               | -- | --              |                  |  |
| Drawing File Name: BrushCreekRB_P&P1                                 | <input type="text"/>           |                 |          |       | Void:         |                                                                                                                          |                                                                                                                                                                                                         | Drawn By:      | EJM     | Numbers                                                 | -- |                 |                  |  |
| Autocad Ver. 2022    Scale: As Shown                                 | <input type="text"/>           |                 |          |       |               |                                                                                                                          |                                                                                                                                                                                                         | Sheet Subset:  | ROADWAY | Subset Sheets: 9 of 18                                  |    | Sheet Number 44 |                  |  |
| SGM Project No.: 91004D-83                      Quality Control: MDF | <input type="text"/>           |                 |          |       |               |                                                                                                                          |                                                                                                                                                                                                         |                |         |                                                         |    |                 |                  |  |



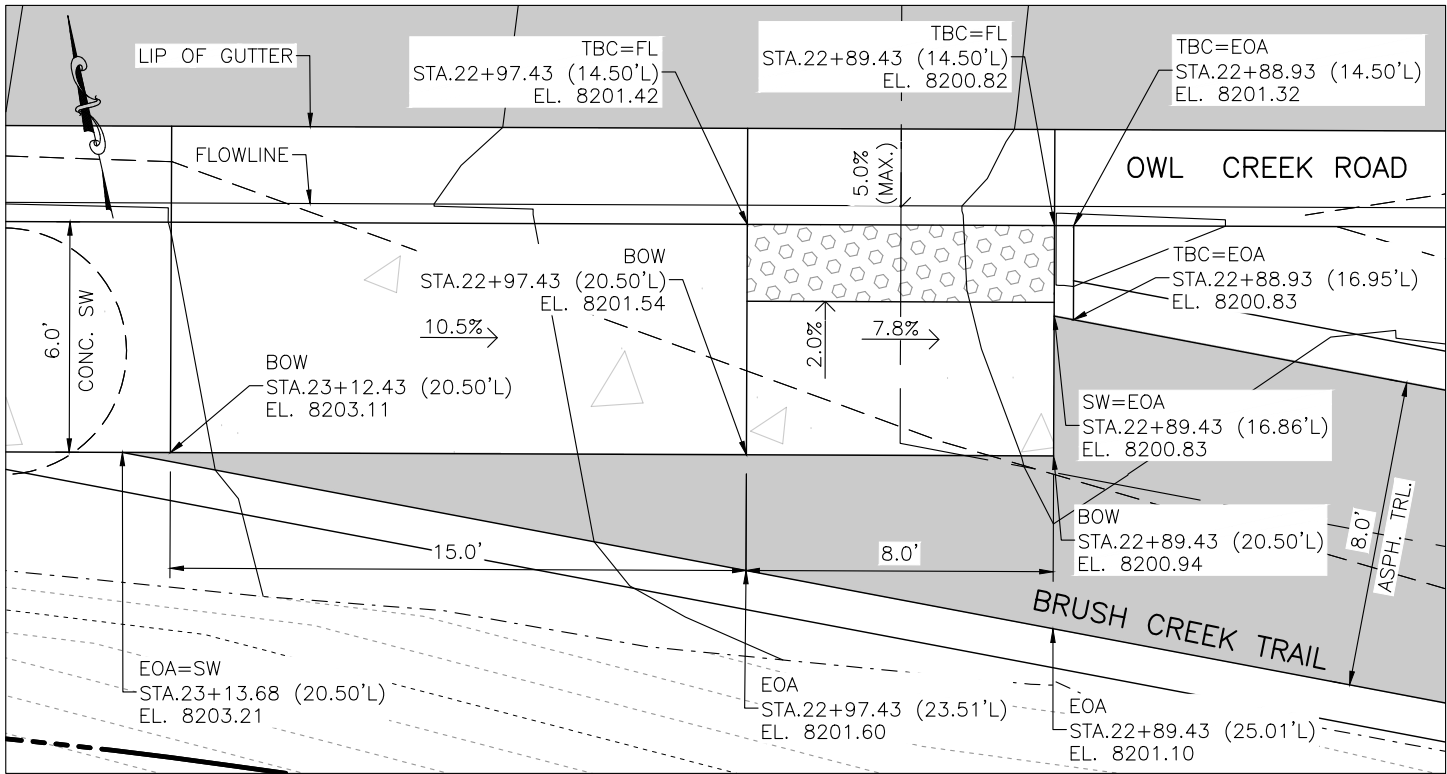
I:\1991\91004\DWG\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_CURBRAMPDETAILS.DWG Plotted: 4/1/2025 9:41 AM By: Eric Mahoney



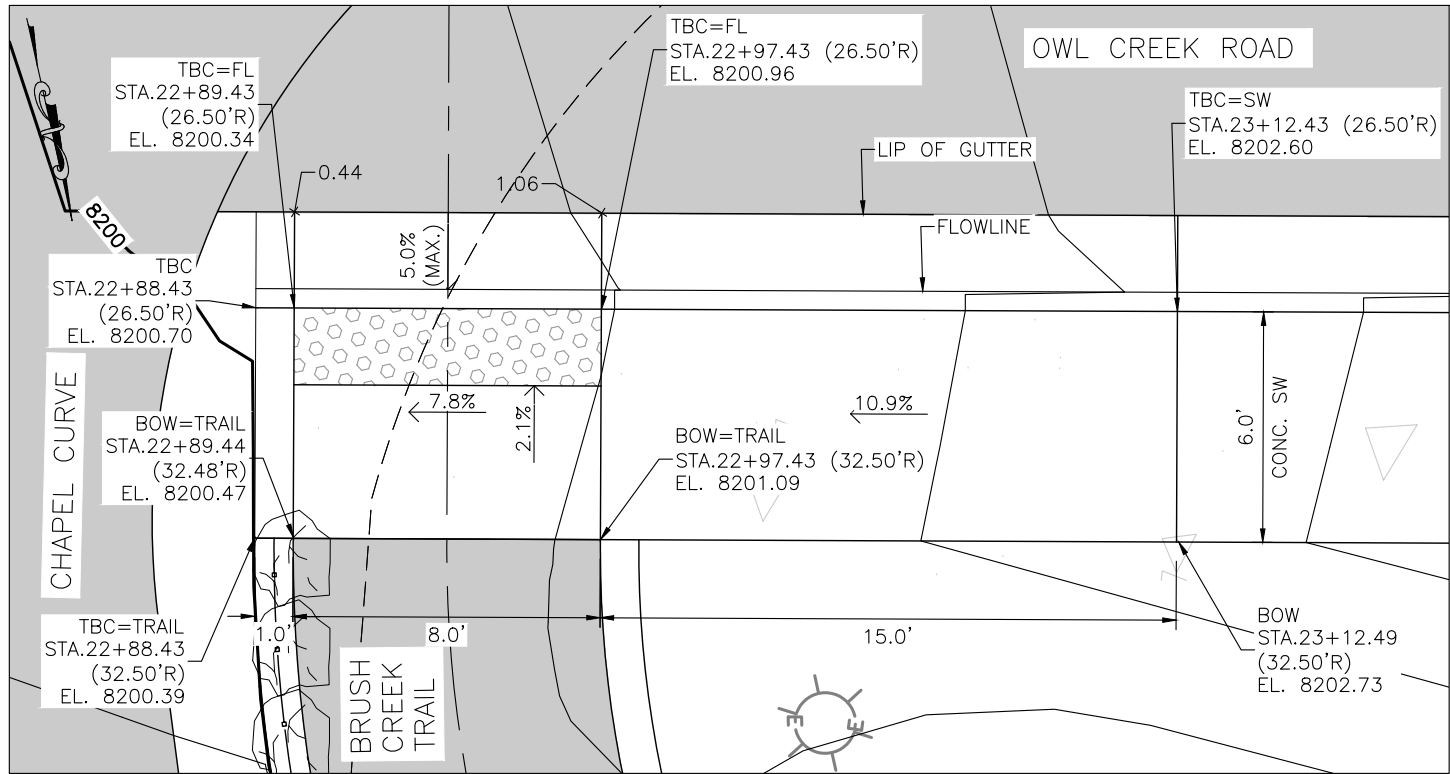
BRUSH CREEK ROAD NORTH CURB RAMP (R)  
SCALE: 1" = 5'



NORTH SPLITTER ISLAND CURB RAMP  
SCALE: 1" = 5'



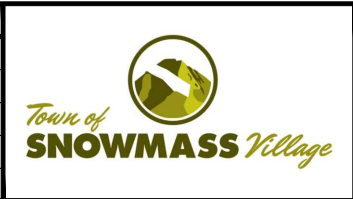
BRUSH CREEK TRAIL CURB RAMP (1)  
SCALE: 1" = 5'



BRUSH CREEK TRAIL CURB RAMP (2)  
SCALE: 1" = 5'

| Computer File Information |                              |
|---------------------------|------------------------------|
| Print Date:               | 4/1/25                       |
| Last Modification Date:   | 4/1/25                       |
| Drawing File Name:        | BrushCreekRB_CurbRampDetails |
| Autocad Ver.              | 2022                         |
| Scale:                    | As Shown                     |
| SGM Project No.:          | 91004D-83                    |
| Quality Control:          | MDF                          |

| Sheet Revisions |      |          |       |
|-----------------|------|----------|-------|
| Rev.            | Date | Comments | Init. |
| 1               |      |          |       |
|                 |      |          |       |
|                 |      |          |       |
|                 |      |          |       |



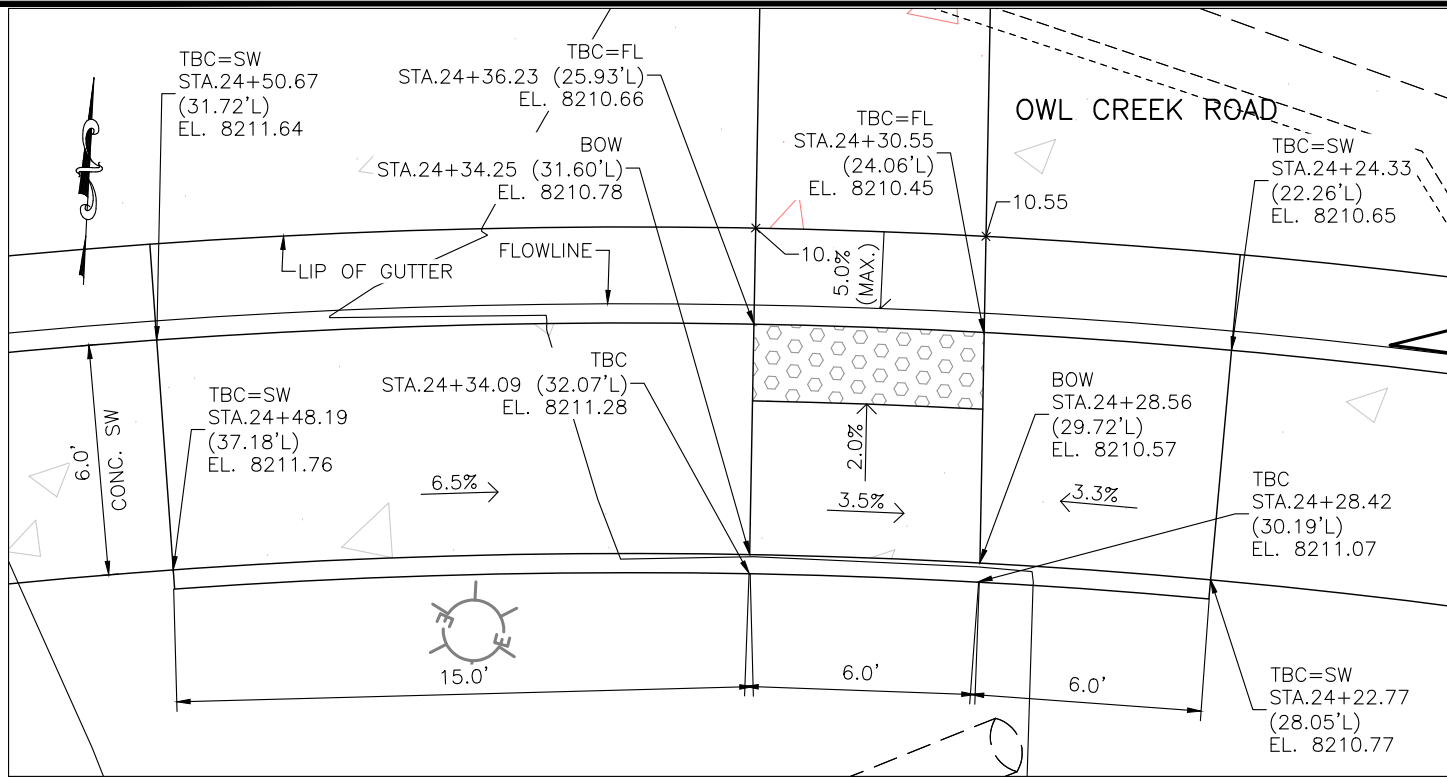
| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT CURB RAMP DETAILS (2) |         |                |          |
|----------------------------------------------|---------|----------------|----------|
| Engineer:                                    | AMC     | Structure      | --       |
| Drawn By:                                    | EJM     | Numbers        | --       |
| Sheet Subset:                                | ROADWAY | Subset Sheets: | 11 of 18 |

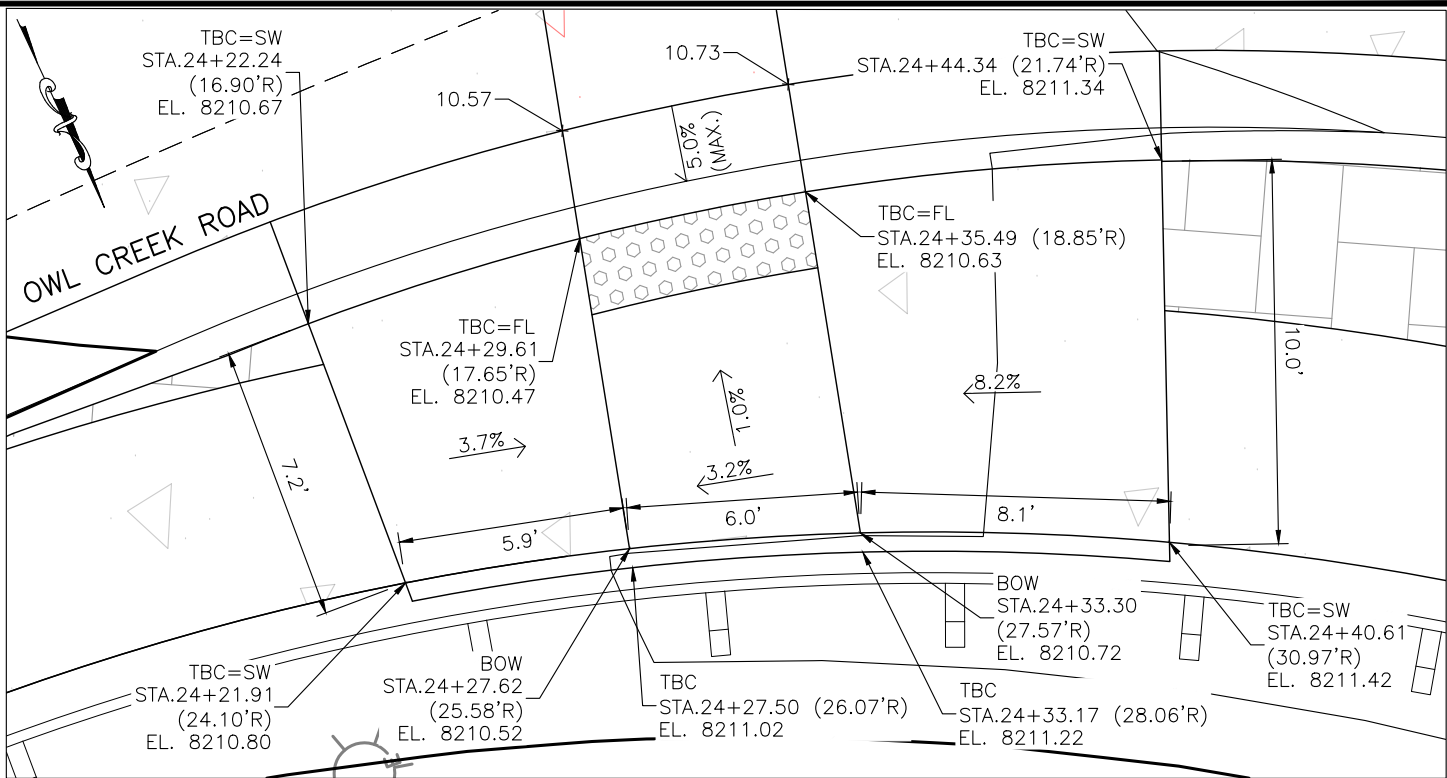
| Project No./Code |
|------------------|
| --               |
| --               |
| Sheet Number     |
| 46               |



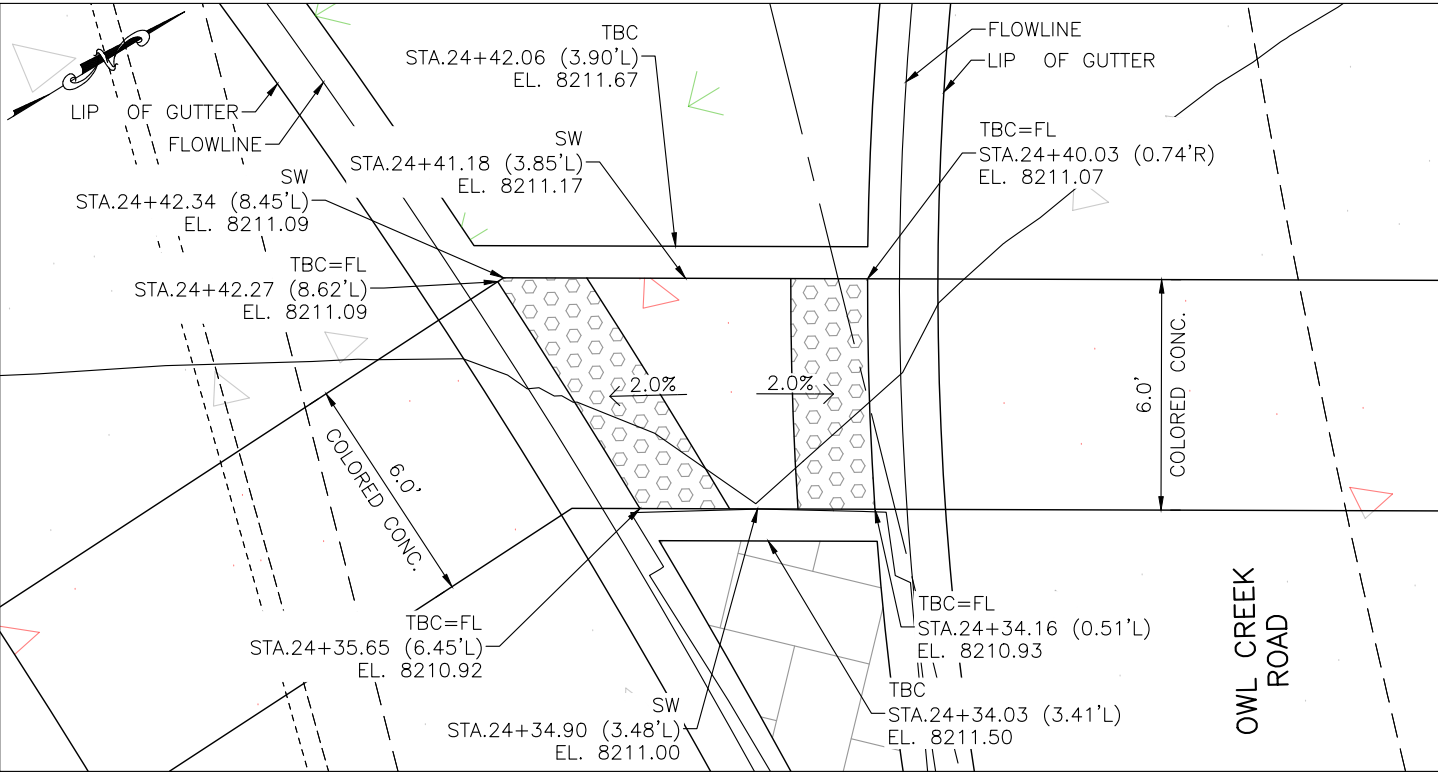
I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_CURBRAMPDETAILS.DWG Plotted: 4/1/2025 9:41 AM By: Eric Mahoney



OWL CREEK ROAD CURB RAMP (L)  
SCALE: 1" = 5'



OWL CREEK ROAD CURB RAMP (R)  
SCALE: 1" = 5'



EAST SPLITTER ISLAND CURB RAMP  
SCALE: 1" = 5'

| Computer File Information |                              |
|---------------------------|------------------------------|
| Print Date:               | 4/1/25                       |
| Last Modification Date:   | 4/1/25                       |
| Drawing File Name:        | BrushCreekRB_CurbRampDetails |
| Autocad Ver.              | 2022                         |
| Scale:                    | As Shown                     |
| SGM Project No.:          | 91004D-83                    |
| Quality Control:          | MDF                          |

| Sheet Revisions |      |          |       |
|-----------------|------|----------|-------|
| Rev.            | Date | Comments | Init. |
| 1               |      |          |       |
|                 |      |          |       |
|                 |      |          |       |
|                 |      |          |       |



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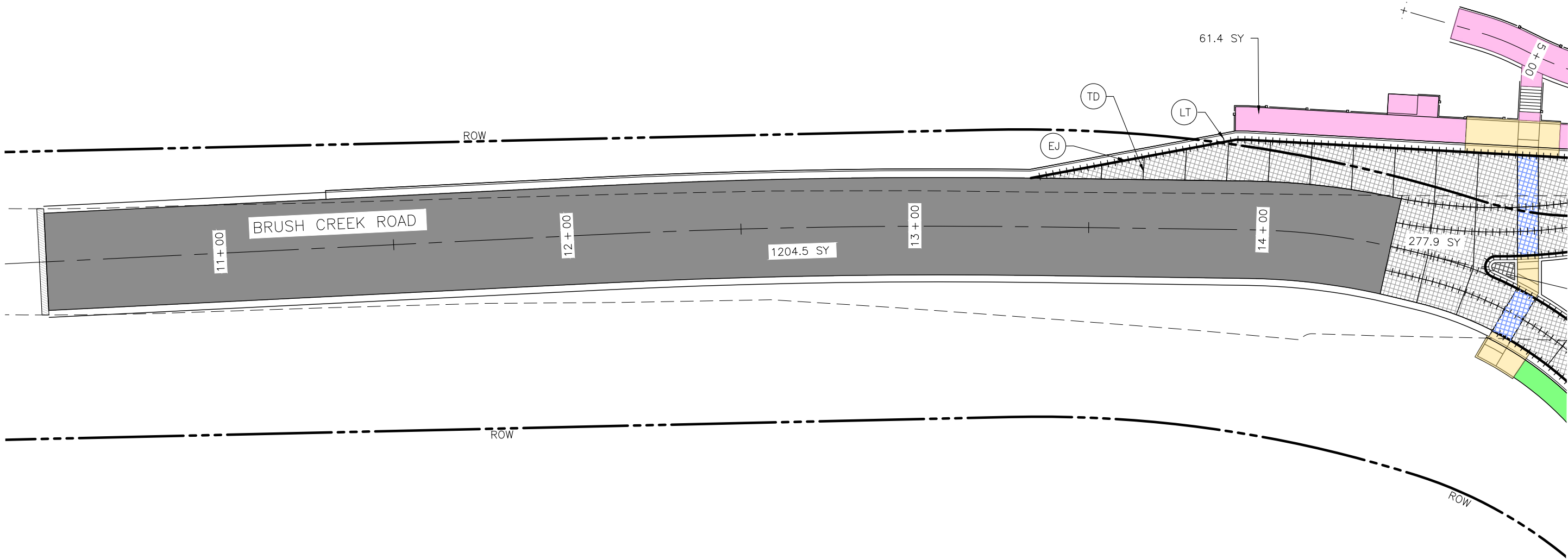
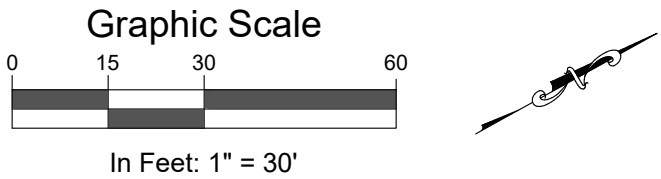
| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT<br>CURB RAMP DETAILS (3) |         |                |          |
|-------------------------------------------------|---------|----------------|----------|
| Engineer:                                       | AMC     | Structure      | --       |
| Drawn By:                                       | EJM     | Numbers        | --       |
| Sheet Subset:                                   | ROADWAY | Subset Sheets: | 12 of 18 |

| Project No./Code |
|------------------|
| --               |
| --               |
| Sheet Number     |
| 47               |



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LEGEND:

|  |                                                |                                                                                                   |                             |
|--|------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------|
|  | HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 8"   |                                                                                                   | CONCRETE SIDEWALK           |
|  | HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 4"   |                                                                                                   | CONCRETE SIDEWALK (SPECIAL) |
|  | 2" HMA MILL AND OVERLAY                        |                                                                                                   | CONCRETE CURB RAMP          |
|  | CONCRETE PAVEMENT (9 INCH)                     | NOTE: HMA TO BE MEASURED AND PAID FOR BY THE TON. AREA QUANTITIES SHOWN ARE FOR INFORMATION ONLY. |                             |
|  | CONCRETE PAVEMENT (9 INCH) (COLORED)           |                                                                                                   |                             |
|  | CONCRETE PAVEMENT (9 INCH) (COLORED & PATTERN) |                                                                                                   |                             |

JOINT LEGEND

|  |                    |
|--|--------------------|
|  | EXPANSION JOINT    |
|  | LONGITUDINAL TIED  |
|  | TRANSVERSE DOWELED |

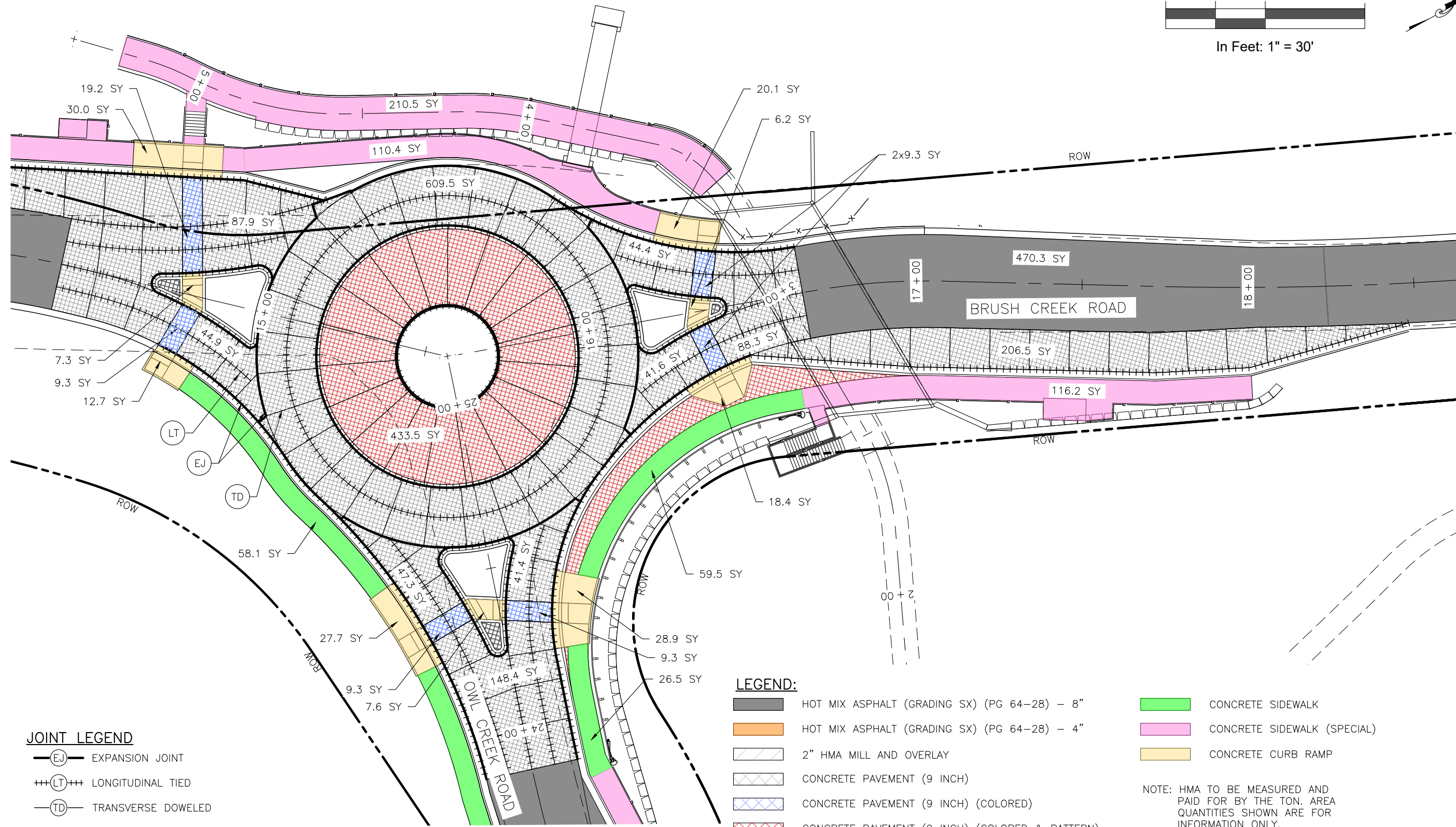
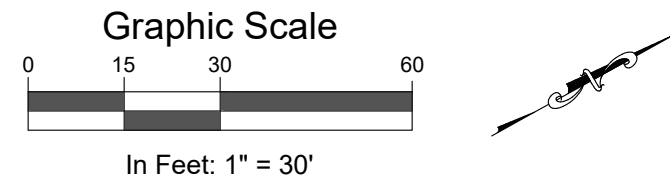
| Computer File Information              |                 | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT PAVING PLAN (1) |  |                         | Project No./Code |    |
|----------------------------------------|-----------------|----------------------|------|----------|-------|----------------|--|----------------------------------------|--|-------------------------|------------------|----|
| Print Date: 4/1/25                     |                 | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer: AMC                          |  | Structure Numbers       | --               |    |
| Last Modification Date: 4/1/25         |                 | 1                    |      |          |       | Revised:       |  | Drawn By: EJM                          |  | --                      | --               |    |
| Drawing File Name: BrushCreekRB_Paving |                 |                      |      |          |       | Void:          |  | Sheet Subset: ROADWAY                  |  | Subset Sheets: 13 of 18 | Sheet Number     | 48 |
| Autocad Ver. 2022                      | Scale: As Shown |                      |      |          |       |                |  |                                        |  |                         |                  |    |
| SGM Project No.: 91004D-83             |                 | Quality Control: MDF |      |          |       |                |  |                                        |  |                         |                  |    |



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**JOINT LEGEND**

—(EJ)— EXPANSION JOINT

+++ (LT) +++ LONGITUDINAL TIED

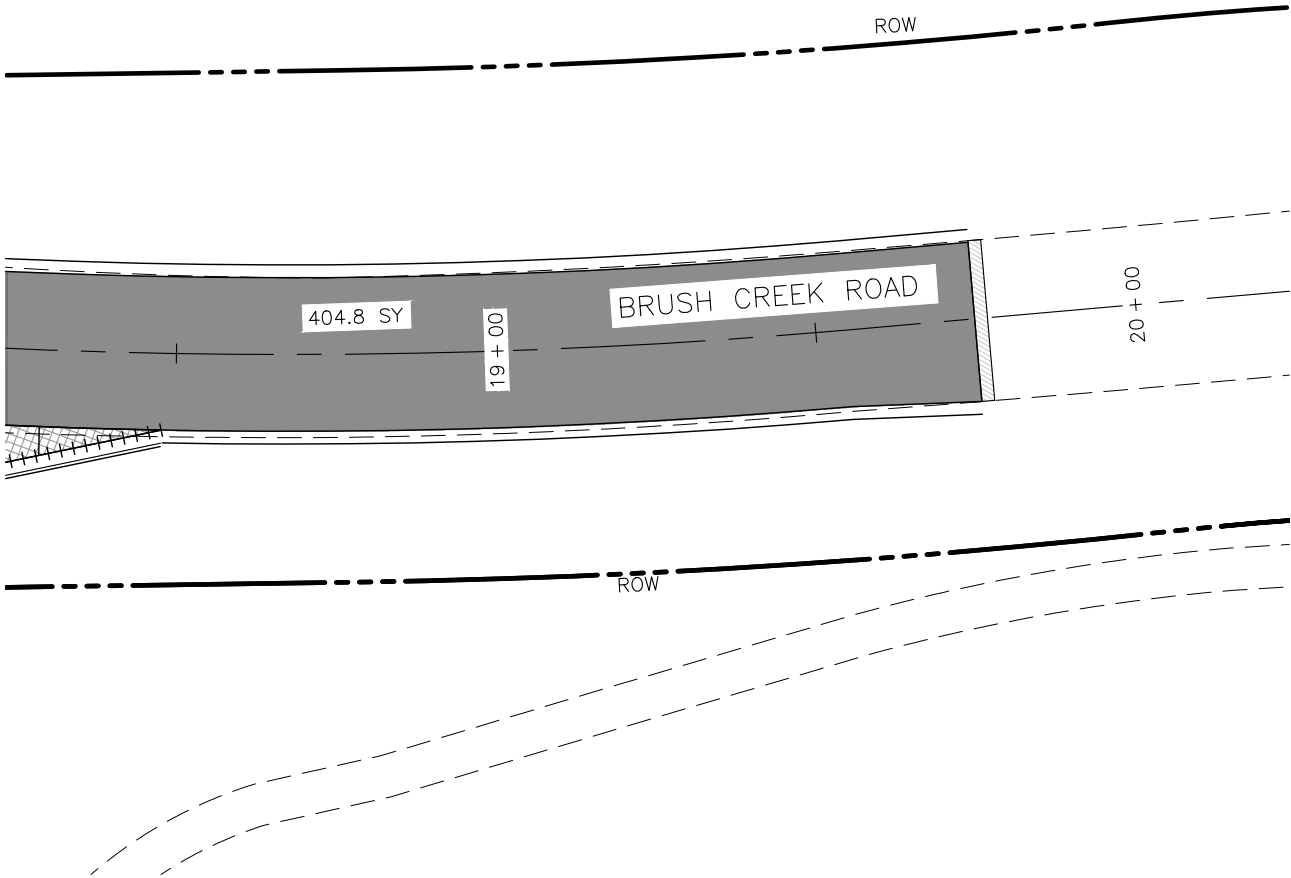
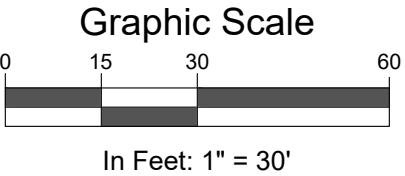
—(TD)— TRANSVERSE DOWELED

- LEGEND:**
- HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 8"
  - HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 4"
  - 2" HMA MILL AND OVERLAY
  - CONCRETE PAVEMENT (9 INCH)
  - CONCRETE PAVEMENT (9 INCH) (COLORED)
  - CONCRETE PAVEMENT (9 INCH) (COLORED & PATTERN)
  - CONCRETE SIDEWALK
  - CONCRETE SIDEWALK (SPECIAL)
  - CONCRETE CURB RAMP
- NOTE: HMA TO BE MEASURED AND PAID FOR BY THE TON. AREA QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

| Computer File Information |                                |                                        | Sheet Revisions |      |          |       |  |  <div>118 West Sixth Street, Suite 200<br/>Glenwood Springs, CO 81601<br/>970.945.1004 www.sgm-inc.com</div> | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>PAVING PLAN (2) |                   |          | Project No./Code |    |
|---------------------------|--------------------------------|----------------------------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-------------------------------------------|-------------------|----------|------------------|----|
| Print Date: 4/1/25        | Last Modification Date: 4/1/25 | Drawing File Name: BrushCreekRB_Paving | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                                   | No Revisions:  |  | Engineer: AMC                             | Structure Numbers | --       | --               |    |
| Autocad Ver. 2022         | Scale: As Shown                | SGM Project No.: 91004D-83             |                 |      |          |       |                                                                                       |                                                                                                                                                                                                   | Revised:       |  | Drawn By: EJM                             |                   | --       | --               |    |
|                           | Quality Control: MDF           |                                        |                 |      |          |       |                                                                                       |                                                                                                                                                                                                   | Void:          |  | Sheet Subset: ROADWAY                     | Subset Sheets:    | 14 of 18 | Sheet Number     | 49 |



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JOINT LEGEND

- EXPANSION JOINT
- LONGITUDINAL TIED
- TRANSVERSE DOWELED

LEGEND:

- |  |                                                |  |                             |
|--|------------------------------------------------|--|-----------------------------|
|  | HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 8"   |  | CONCRETE SIDEWALK           |
|  | HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 4"   |  | CONCRETE SIDEWALK (SPECIAL) |
|  | 2" HMA MILL AND OVERLAY                        |  | CONCRETE CURB RAMP          |
|  | CONCRETE PAVEMENT (9 INCH)                     |  |                             |
|  | CONCRETE PAVEMENT (9 INCH) (COLORED)           |  |                             |
|  | CONCRETE PAVEMENT (9 INCH) (COLORED & PATTERN) |  |                             |

NOTE: HMA TO BE MEASURED AND PAID FOR BY THE TON. AREA QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

| Computer File Information                          |  | Sheet Revisions |      |          |       | As Constructed | BRUSH CREEK ROUNDABOUT<br>PAVING PLAN (3) |                   |          | Project No./Code |    |
|----------------------------------------------------|--|-----------------|------|----------|-------|----------------|-------------------------------------------|-------------------|----------|------------------|----|
| Print Date: 4/1/25                                 |  | Rev.            | Date | Comments | Init. |                |                                           |                   |          |                  | -- |
| Last Modification Date: 4/1/25                     |  | <div>1</div>    |      |          |       | No Revisions:  |                                           |                   |          |                  | -- |
| Drawing File Name: BrushCreekRB_Paving             |  | <div></div>     |      |          |       | Revised:       | Engineer: AMC                             | Structure Numbers | --       |                  | -- |
| Autocad Ver. 2022    Scale: As Shown               |  | <div></div>     |      |          |       |                | Drawn By: EJM                             |                   | --       |                  |    |
| SGM Project No.: 91004D-83    Quality Control: MDF |  | <div></div>     |      |          |       | Void:          | Sheet Subset: ROADWAY                     | Subset Sheets:    | 15 of 18 | Sheet Number     | 50 |

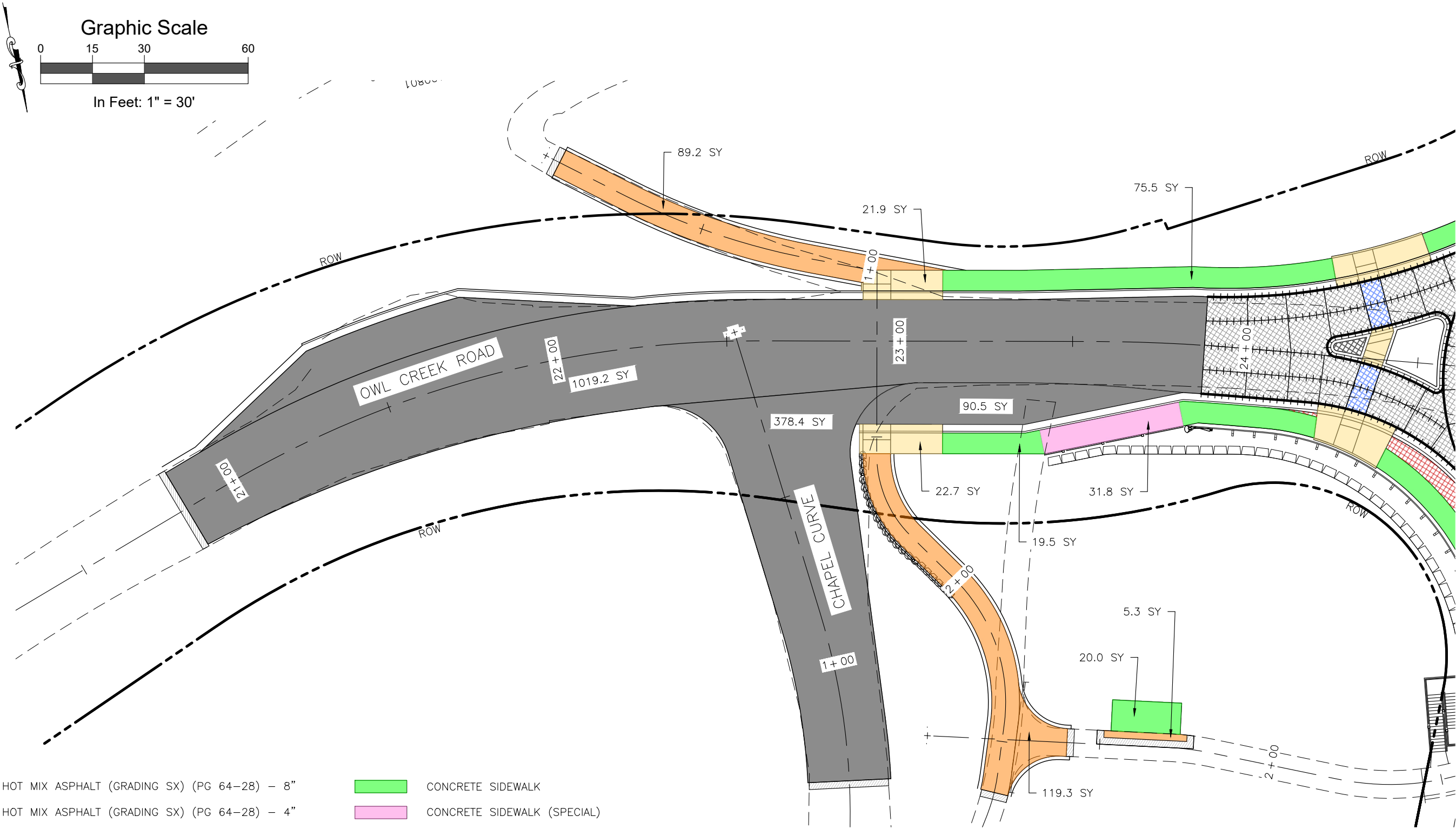


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LEGEND:

- |                                                                                                                                    |                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|  HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 8"   |  CONCRETE SIDEWALK           |
|  HOT MIX ASPHALT (GRADING SX) (PG 64-28) - 4"   |  CONCRETE SIDEWALK (SPECIAL) |
|  2" HMA MILL AND OVERLAY                        |  CONCRETE CURB RAMP          |
|  CONCRETE PAVEMENT (9 INCH)                     |                                                                                                                  |
|  CONCRETE PAVEMENT (9 INCH) (COLORED)           |                                                                                                                  |
|  CONCRETE PAVEMENT (9 INCH) (COLORED & PATTERN) |                                                                                                                  |

NOTE: HMA TO BE MEASURED AND PAID FOR BY THE TON. AREA QUANTITIES SHOWN ARE FOR INFORMATION ONLY.

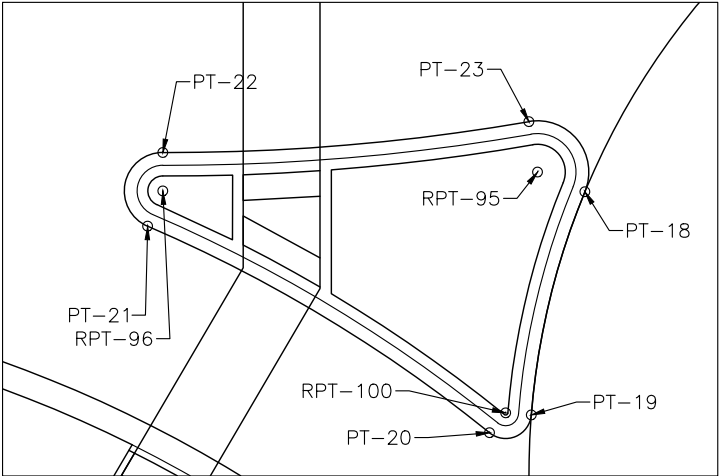
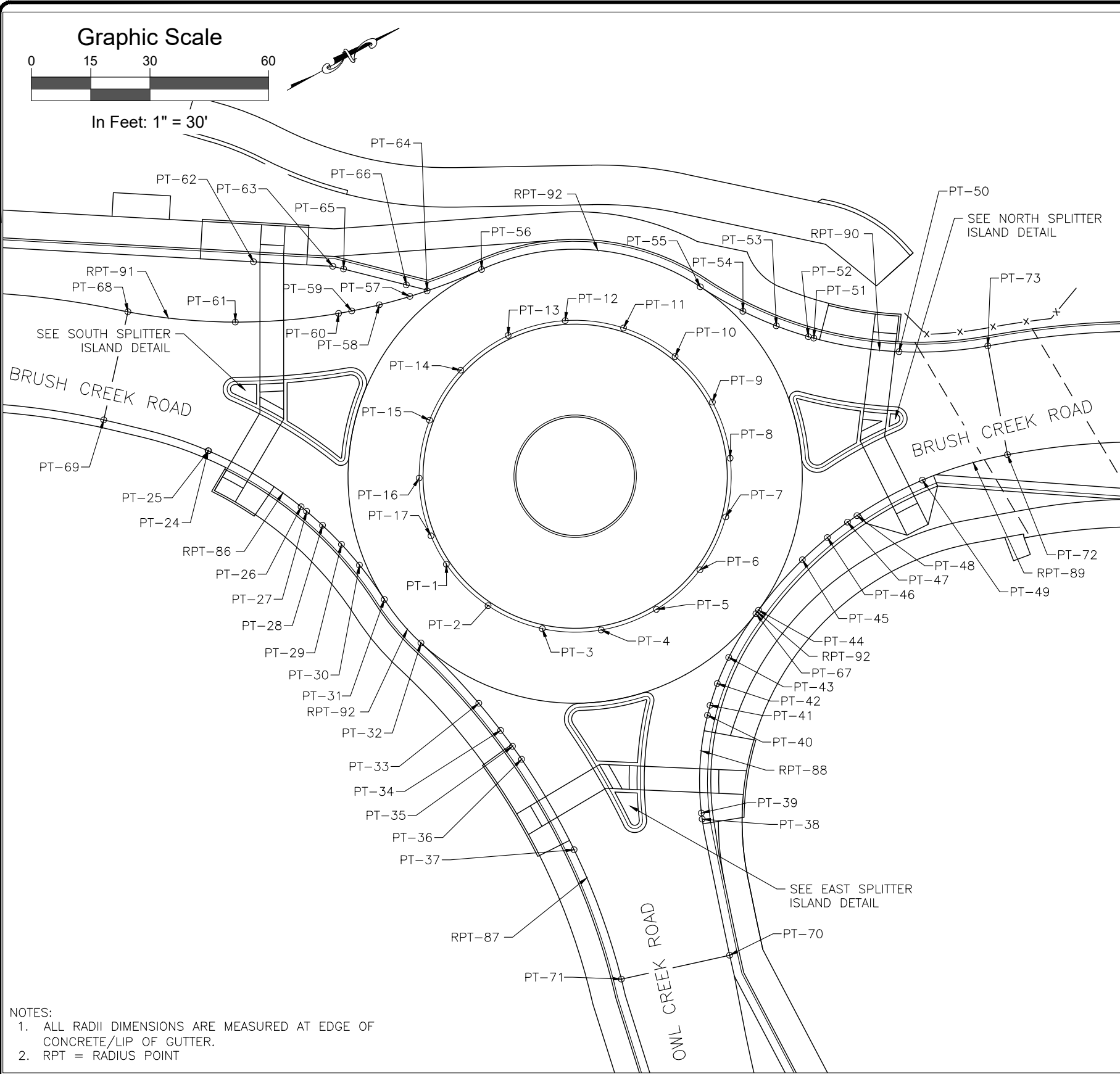
JOINT LEGEND

- |                                                                                                          |
|----------------------------------------------------------------------------------------------------------|
|  EXPANSION JOINT    |
|  LONGITUDINAL TIED  |
|  TRANSVERSE DOWELED |

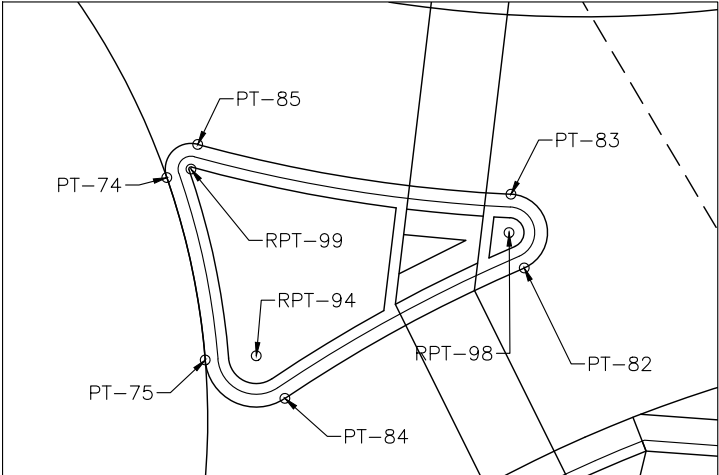
| Computer File Information              |                                   | Sheet Revisions |      |          |       |  |  <div>118 West Sixth Street, Suite 200<br/>Glenwood Springs, CO 81601<br/>970.945.1004 www.sgm-inc.com</div> | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>PAVING PLAN (4) |                   |          | Project No./Code |    |
|----------------------------------------|-----------------------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-------------------------------------------|-------------------|----------|------------------|----|
| Print Date: 4/1/25                     | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                                   | No Revisions:  |  | Engineer: AMC                             | Structure Numbers | --       | --               |    |
| Drawing File Name: BrushCreekRB_Paving | Autocad Ver. 2022 Scale: As Shown | <div>1</div>    |      |          |       |                                                                                       |                                                                                                                                                                                                   | Revised:       |  | Drawn By: EJM                             |                   | --       | --               |    |
| SGM Project No.: 91004D-83             | Quality Control: MDF              |                 |      |          |       |                                                                                       |                                                                                                                                                                                                   | Void:          |  | Sheet Subset: ROADWAY                     | Subset Sheets:    | 16 of 18 | Sheet Number     | 51 |



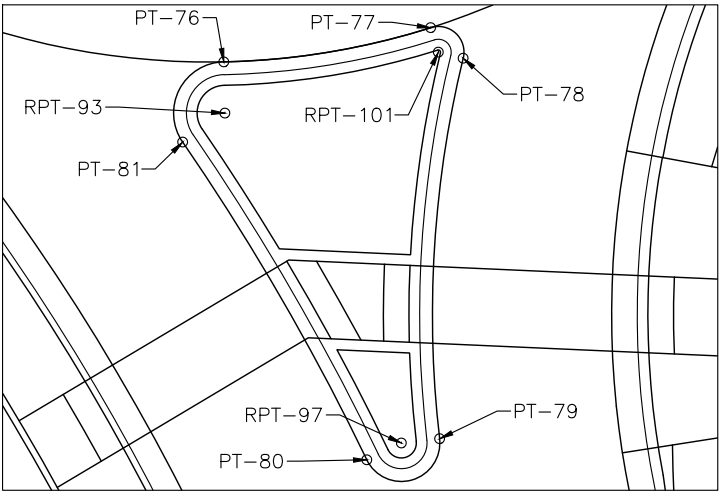
I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_ROUNDABOUTDETAILS.DWG Plotted: 4/1/2025 9:42 AM By: Eric Mahoney



SOUTH SPLITTER ISLAND DETAIL



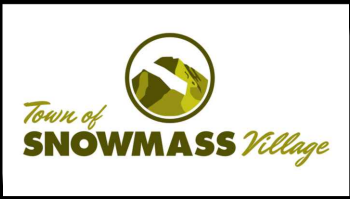
NORTH SPLITTER ISLAND DETAIL



EAST SPLITTER ISLAND DETAIL

| Computer File Information |                                |
|---------------------------|--------------------------------|
| Print Date:               | 4/1/25                         |
| Last Modification Date:   | 4/1/25                         |
| Drawing File Name:        | BrushCreekRB_RoundaboutDetails |
| Autocad Ver.              | 2022                           |
| Scale:                    | As Shown                       |
| SGM Project No.:          | 91004D-83                      |
| Quality Control:          | MDF                            |

| Sheet Revisions |      |          |       |  |
|-----------------|------|----------|-------|--|
| Rev.            | Date | Comments | Init. |  |
| 1               |      |          |       |  |
|                 |      |          |       |  |
|                 |      |          |       |  |
|                 |      |          |       |  |



**SGM**

118 West Sixth Street, Suite 200  
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| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT<br>ROUNDABOUT POINT DATA PLAN |         |                |          |
|------------------------------------------------------|---------|----------------|----------|
| Engineer:                                            | AMC     | Structure      | --       |
| Drawn By:                                            | EJM     | Numbers        | --       |
| Sheet Subset:                                        | ROADWAY | Subset Sheets: | 17 of 18 |

| Project No./Code |
|------------------|
| --               |
| --               |
| Sheet Number 52  |



I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_ROUNDABOUTDETAILS.DWG Plotted: 4/1/2025 9:42 AM By: Eric Mahoney

| POINT TABLE                                       |            |            |           |                                | POINT TABLE |            |            |                                                                                                                                                                                                                                                                                                        |                                | POINT TABLE    |            |                                                       |                         |                                |                  |    |
|---------------------------------------------------|------------|------------|-----------|--------------------------------|-------------|------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------|------------|-------------------------------------------------------|-------------------------|--------------------------------|------------------|----|
| PT NO.                                            | NORTHING   | EASTING    | ELEVATION | DESCRIPTION                    | PT NO.      | NORTHING   | EASTING    | ELEVATION                                                                                                                                                                                                                                                                                              | DESCRIPTION                    | PT NO.         | NORTHING   | EASTING                                               | ELEVATION               | DESCRIPTION                    |                  |    |
| PT-1                                              | 23343.4032 | 23375.1825 | 8212.69   | EDGE OF CONCRETE/LIP OF GUTTER | PT-36       | 23336.1204 | 23427.6202 | 8211.14                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-71          | 23331.2162 | 23488.5833                                            | 8208.65                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-2                                              | 23347.5669 | 23389.4994 | 8212.45   | EDGE OF CONCRETE/LIP OF GUTTER | PT-37       | 23336.6395 | 23454.1126 | 8210.81                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-72          | 23481.0971 | 23419.7844                                            | 8208.68                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-3                                              | 23356.7410 | 23401.2529 | 8212.20   | EDGE OF CONCRETE/LIP OF GUTTER | PT-38       | 23368.7598 | 23463.0328 | 8210.38                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-73          | 23490.1200 | 23393.2781                                            | 8208.68                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-4                                              | 23369.6184 | 23408.7683 | 8211.96   | EDGE OF CONCRETE/LIP OF GUTTER | PT-39       | 23369.3320 | 23461.5963 | 8210.42                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-74          | 23439.3887 | 23381.3202                                            | 8210.71                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-5                                              | 23384.3642 | 23410.9749 | 8211.71   | EDGE OF CONCRETE/LIP OF GUTTER | PT-40       | 23382.6792 | 23440.6897 | 8211.11                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-75          | 23435.1093 | 23395.2333                                            | 8210.64                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-6                                              | 23398.8775 | 23407.5582 | 8211.47   | EDGE OF CONCRETE/LIP OF GUTTER | PT-41       | 23384.4718 | 23438.8216 | 8211.18                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-76          | 23355.9047 | 23422.3667                                            | 8211.69                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-7                                              | 23411.0903 | 23399.0050 | 8211.22   | EDGE OF CONCRETE/LIP OF GUTTER | PT-42       | 23388.7471 | 23434.8712 | 8211.18                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-77          | 23371.3285 | 23427.8665                                            | 8211.51                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-8                                              | 23419.2625 | 23386.5341 | 8210.98   | EDGE OF CONCRETE/LIP OF GUTTER | PT-43       | 23394.4932 | 23430.4790 | 8211.19                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-78          | 23372.4003 | 23431.1847                                            | 8211.39                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-9                                              | 23422.2298 | 23371.9223 | 8211.21   | EDGE OF CONCRETE/LIP OF GUTTER | PT-44       | 23406.8776 | 23423.6933 | 8211.10                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-79          | 23356.3837 | 23456.2727                                            | 8210.70                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-10                                             | 23419.5692 | 23357.2516 | 8211.53   | EDGE OF CONCRETE/LIP OF GUTTER | PT-45       | 23422.7956 | 23417.9084 | 8210.81                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-80          | 23350.6138 | 23454.9624                                            | 8210.52                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-11                                             | 23411.6600 | 23344.6122 | 8211.84   | EDGE OF CONCRETE/LIP OF GUTTER | PT-46       | 23431.0438 | 23416.0509 | 8210.57                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-81          | 23350.0567 | 23426.2870                                            | 8211.42                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-12                                             | 23399.6290 | 23335.8052 | 8212.16   | EDGE OF CONCRETE/LIP OF GUTTER | PT-47       | 23437.4035 | 23415.1088 | 8210.24                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-82          | 23460.3851 | 23401.0323                                            | 8209.79                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-13                                             | 23385.1905 | 23332.0852 | 8212.48   | EDGE OF CONCRETE/LIP OF GUTTER | PT-48       | 23440.2962 | 23414.8174 | 8210.14                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-83          | 23462.2691 | 23395.4980                                            | 8209.79                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-14                                             | 23370.4016 | 23333.9825 | 8212.80   | EDGE OF CONCRETE/LIP OF GUTTER | PT-49       | 23459.1360 | 23414.9775 | 8209.50                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-84          | 23439.0959 | 23400.8690                                            | 8210.42                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-15                                             | 23357.3697 | 23341.2265 | 8213.12   | EDGE OF CONCRETE/LIP OF GUTTER | PT-50       | 23469.7496 | 23383.6633 | 8209.51                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-85          | 23442.7557 | 23380.2296                                            | 8210.60                 | EDGE OF CONCRETE/LIP OF GUTTER |                  |    |
| PT-16                                             | 23347.9514 | 23352.7853 | 8213.07   | EDGE OF CONCRETE/LIP OF GUTTER | PT-51       | 23452.5304 | 23370.2068 | 8210.32                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-86          | 23225.5872 | 23382.0817                                            | 0.00                    | RADIUS POINT - 100'            |                  |    |
| PT-17                                             | 23343.4887 | 23367.0118 | 8212.82   | EDGE OF CONCRETE/LIP OF GUTTER | PT-52       | 23451.5292 | 23369.2166 | 8210.37                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-87          | 23161.9157 | 23444.2852                                            | 0.00                    | RADIUS POINT - 175'            |                  |    |
| PT-18                                             | 23346.9284 | 23326.5157 | 8212.74   | EDGE OF CONCRETE/LIP OF GUTTER | PT-53       | 23445.7343 | 23362.8822 | 8210.76                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-88          | 23434.0735 | 23488.2147                                            | 0.00                    | RADIUS POINT - 70'             |                  |    |
| PT-19                                             | 23334.8083 | 23339.7347 | 8212.77   | EDGE OF CONCRETE/LIP OF GUTTER | PT-54       | 23440.1478 | 23355.5631 | 8211.03                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-89          | 23448.8700 | 23514.4492                                            | 0.00                    | RADIUS POINT - 100'            |                  |    |
| PT-20                                             | 23331.2871 | 23339.3787 | 8212.76   | EDGE OF CONCRETE/LIP OF GUTTER | PT-55       | 23433.7027 | 23344.8960 | 8211.26                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-90          | 23522.3471 | 23298.6133                                            | 0.00                    | RADIUS POINT - 100'            |                  |    |
| PT-21                                             | 23315.7437 | 23312.3121 | 8213.58   | EDGE OF CONCRETE/LIP OF GUTTER | PT-56       | 23387.3996 | 23314.1984 | 8212.11                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-91          | 23399.5805 | 23164.6934                                            | 0.00                    | RADIUS POINT - 150'            |                  |    |
| PT-22                                             | 23319.5797 | 23307.8572 | 8213.56   | EDGE OF CONCRETE/LIP OF GUTTER | PT-57       | 23368.2233 | 23311.3795 | 8212.30                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-92          | 23382.7319 | 23371.5086                                            | 0.00                    | RADIUS POINT - 57.5'           |                  |    |
| PT-23                                             | 23345.7507 | 23319.6074 | 8212.73   | EDGE OF CONCRETE/LIP OF GUTTER | PT-58       | 23360.4162 | 23309.4906 | 8212.34                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-93          | 23354.0384 | 23425.9047                                            | 0.00                    | RADIUS POINT - 4'              |                  |    |
| PT-24                                             | 23304.5965 | 23320.7830 | 8213.31   | EDGE OF CONCRETE/LIP OF GUTTER | PT-59       | 23353.5694 | 23307.4626 | 8212.34                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-94          | 23438.7530 | 23396.8837                                            | 0.00                    | RADIUS POINT - 4'              |                  |    |
| PT-25                                             | 23304.6719 | 23320.8803 | 8213.30   | EDGE OF CONCRETE/LIP OF GUTTER | PT-60       | 23350.3459 | 23306.3832 | 8212.45                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-95          | 23344.4378 | 23323.3858                                            | 0.00                    | RADIUS POINT - 4'              |                  |    |
| PT-26                                             | 23318.3064 | 23344.6230 | 8212.48   | EDGE OF CONCRETE/LIP OF GUTTER | PT-61       | 23326.4090 | 23295.6359 | 8213.28                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-96          | 23318.1163 | 23310.4761                                            | 0.00                    | RADIUS POINT - 3'              |                  |    |
| PT-27                                             | 23318.9691 | 23346.3072 | 8212.43   | EDGE OF CONCRETE/LIP OF GUTTER | PT-62       | 23337.8464 | 23284.5234 | 8212.96                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-97          | 23353.6090 | 23455.1319                                            | 0.00                    | RADIUS POINT - 3'              |                  |    |
| PT-28                                             | 23320.7555 | 23351.3735 | 8212.47   | EDGE OF CONCRETE/LIP OF GUTTER | PT-63       | 23354.8430 | 23295.2405 | 8212.63                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-98          | 23460.6881 | 23398.0476                                            | 0.00                    | RADIUS POINT - 3'              |                  |    |
| PT-29                                             | 23322.6202 | 23357.9033 | 8212.47   | EDGE OF CONCRETE/LIP OF GUTTER | PT-64       | 23372.7138 | 23312.2680 | 8212.25                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-99          | 23441.3593 | 23381.6614                                            | 0.00                    | RADIUS POINT - 2'              |                  |    |
| PT-30                                             | 23324.0654 | 23364.7023 | 8212.44   | EDGE OF CONCRETE/LIP OF GUTTER | PT-65       | 23356.8899 | 23297.1593 | 8212.59                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-100         | 23333.1414 | 23338.6296                                            | 0.00                    | RADIUS POINT - 2'              |                  |    |
| PT-31                                             | 23325.3616 | 23375.3687 | 8212.35   | EDGE OF CONCRETE/LIP OF GUTTER | PT-66       | 23368.8638 | 23308.3837 | 8212.34                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER | PT-101         | 23370.9319 | 23429.8268                                            | 0.00                    | RADIUS POINT - 2'              |                  |    |
| PT-32                                             | 23328.1215 | 23389.5071 | 8212.19   | EDGE OF CONCRETE/LIP OF GUTTER | PT-67       | 23405.8860 | 23424.1408 | 8211.11                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER |                |            |                                                       |                         |                                |                  |    |
| PT-33                                             | 23333.5169 | 23409.9630 | 8211.81   | EDGE OF CONCRETE/LIP OF GUTTER | PT-68       | 23303.9033 | 23280.1605 | 8214.20                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER |                |            |                                                       |                         |                                |                  |    |
| PT-34                                             | 23335.0298 | 23418.6631 | 8211.56   | EDGE OF CONCRETE/LIP OF GUTTER | PT-69       | 23285.2617 | 23301.1564 | 8214.21                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER |                |            |                                                       |                         |                                |                  |    |
| PT-35                                             | 23335.6944 | 23423.6462 | 8211.28   | EDGE OF CONCRETE/LIP OF GUTTER | PT-70       | 23358.1241 | 23496.5792 | 8208.49                                                                                                                                                                                                                                                                                                | EDGE OF CONCRETE/LIP OF GUTTER |                |            |                                                       |                         |                                |                  |    |
| Computer File Information                         |            |            |           | Sheet Revisions                |             |            |            | <div></div> <div><br/>118 West Sixth Street, Suite 200<br/>Glenwood Springs, CO 81601<br/>970.945.1004 www.sgm-inc.com</div> |                                | As Constructed |            | BRUSH CREEK ROUNDABOUT<br>ROUNDABOUT POINT DATA TABLE |                         |                                | Project No./Code |    |
| Print Date: 4/1/25                                |            |            |           | Rev.                           | Date        | Comments   | Init.      |                                                                                                                                                                                                                                                                                                        |                                | No Revisions:  |            |                                                       |                         | --                             |                  |    |
| Last Modification Date: 4/1/25                    |            |            |           | <div>1</div>                   |             |            |            |                                                                                                                                                                                                                                                                                                        |                                |                |            |                                                       |                         | --                             |                  |    |
| Drawing File Name: BrushCreekRB_RoundaboutDetails |            |            |           | <div></div>                    |             |            |            |                                                                                                                                                                                                                                                                                                        |                                | Revised:       |            | Engineer:                                             | AMC                     | Structure Numbers              | --               | -- |
| Autocad Ver. 2022 Scale: As Shown                 |            |            |           | <div></div>                    |             |            |            |                                                                                                                                                                                                                                                                                                        |                                |                |            | Drawn By:                                             | EJM                     |                                | --               |    |
| SGM Project No.: 91004D-83                        |            |            |           | Quality Control: MDF           |             |            |            |                                                                                                                                                                                                                                                                                                        |                                | Void:          |            | Sheet Subset: ROADWAY                                 | Subset Sheets: 18 of 18 | Sheet Number 53                |                  |    |



I:\1991\91004\1D\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_STORMP&P.DWG Plotted: 4/1/2025 9:43 AM By: Eric Mahoney

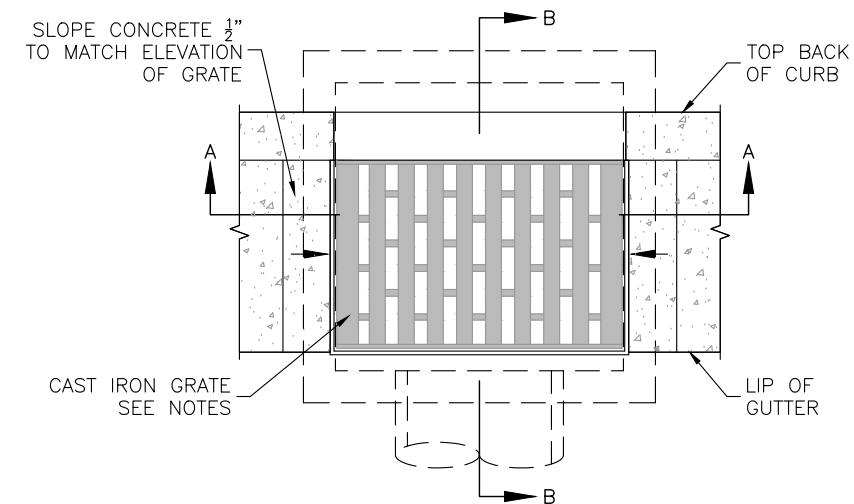
TABULATION OF DRAINAGE

| LOCATION       | ID    | MANHOLES -<br>SLAB BASE<br>(EACH) | INLETS                            |                  | STRUCTURE<br>ELEVATIONS |         |         |           | STEEL END SECTION<br>(EACH) |           |           | PLASTIC PIPE (LF) |           |           | REMARKS |
|----------------|-------|-----------------------------------|-----------------------------------|------------------|-------------------------|---------|---------|-----------|-----------------------------|-----------|-----------|-------------------|-----------|-----------|---------|
|                |       | 5' DIAM.                          | VANE GRATE<br>(SPECIAL)<br>(EACH) | TYPE C<br>(EACH) |                         |         |         |           |                             |           |           |                   |           |           |         |
|                |       |                                   |                                   |                  | RIM                     | INVERT  | SUMP    | H<br>(FT) | DIAMETER (INCH)             |           |           | DIAMETER (INCH)   |           |           |         |
|                |       | 10                                | 10                                | 5                |                         |         |         |           | 12                          | 18        | 24        | 12                | 18        | 24        |         |
|                |       | 604-30010                         | 604-25011                         | 603-00305        |                         |         |         |           | 603-30012                   | 603-30018 | 603-30024 | 603-50012         | 603-50018 | 603-50024 |         |
| LATERAL 15     |       |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   |           |           |         |
| 14+54.10       | INLET |                                   |                                   | 1                | 8212.67                 | 8210.00 | 8209.00 | 3.67      |                             |           |           |                   |           |           |         |
| L1             | PIPE  |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   |           | 49.7      |         |
| 14+44.78       | INLET |                                   | 1                                 |                  | 8213.96                 | 8206.45 | 8205.45 | 8.51      |                             |           |           |                   |           |           |         |
| L2             | PIPE  |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   |           | 40.9      |         |
| 14+53.32       | FES   |                                   |                                   |                  |                         |         |         |           |                             |           | 1         |                   |           |           |         |
| SUBTOTALS      |       |                                   | 1                                 | 1                |                         |         |         |           |                             |           | 1         |                   |           | 90.6      |         |
| LATERAL 23     |       |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   |           |           |         |
| 15+56.82       | INLET |                                   | 1                                 |                  | 8203.76                 | 8198.40 | 8197.40 | 6.36      |                             |           |           |                   |           |           |         |
| L3             | PIPE  |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   | 35.2      |           |         |
| 15+92.76       | INLET |                                   | 1                                 |                  | 8202.29                 | 8195.44 | 8194.44 | 7.85      |                             |           |           |                   |           |           |         |
| L4             | PIPE  |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   | 12.4      |           |         |
| 16+07.13       | MH    | 1                                 |                                   |                  | 8200.02                 | 8191.19 | 8191.19 | 8.83      |                             |           |           |                   |           |           |         |
| L5             | PIPE  |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   | 100.8     |           |         |
| 16+14.64       | FES   |                                   |                                   |                  |                         |         |         |           |                             | 1         |           |                   |           |           |         |
| SUBTOTALS      |       | 1                                 | 2                                 |                  |                         |         |         |           |                             | 1         |           |                   | 148.4     |           |         |
| OWL CREEK ROAD |       |                                   |                                   |                  |                         |         |         |           |                             |           |           |                   |           |           |         |
| PIPE           |       |                                   |                                   |                  |                         |         |         |           | 2                           |           |           | 77.8              |           |           |         |
| PROJECT TOTALS |       | 1                                 | 3                                 | 1                |                         |         |         |           | 2                           | 1         | 1         | 78                | 149       | 91        |         |

| Computer File Information                         |  | Sheet Revisions |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004    www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>TABULATION OF DRAINAGE |  |                 | Project No./Code              |  |
|---------------------------------------------------|--|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|--------------------------------------------------|--|-----------------|-------------------------------|--|
| Print Date: 4/1/25                                |  | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                            | No Revisions:  |  |                                                  |  |                 | Engineer: JP    Structure: -- |  |
| Last Modification Date: 4/1/25                    |  | <div>1</div>    |      |          |       |                                                                                       |                                                                                                                                                                                            | Revised:       |  | Drawn By: MWM    Numbers: --                     |  | --              |                               |  |
| Drawing File Name: BrushCreekRB_StormP&P          |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                            | Void:          |  | Sheet Subset: DRAINAGE    Subset Sheets: 1 of 4  |  | Sheet Number 54 |                               |  |
| Autocad Ver. 2022    Scale: As Shown              |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                            |                |  |                                                  |  |                 |                               |  |
| SGM Project No.: 91004D-83    Quality Control: JP |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                            |                |  |                                                  |  |                 |                               |  |

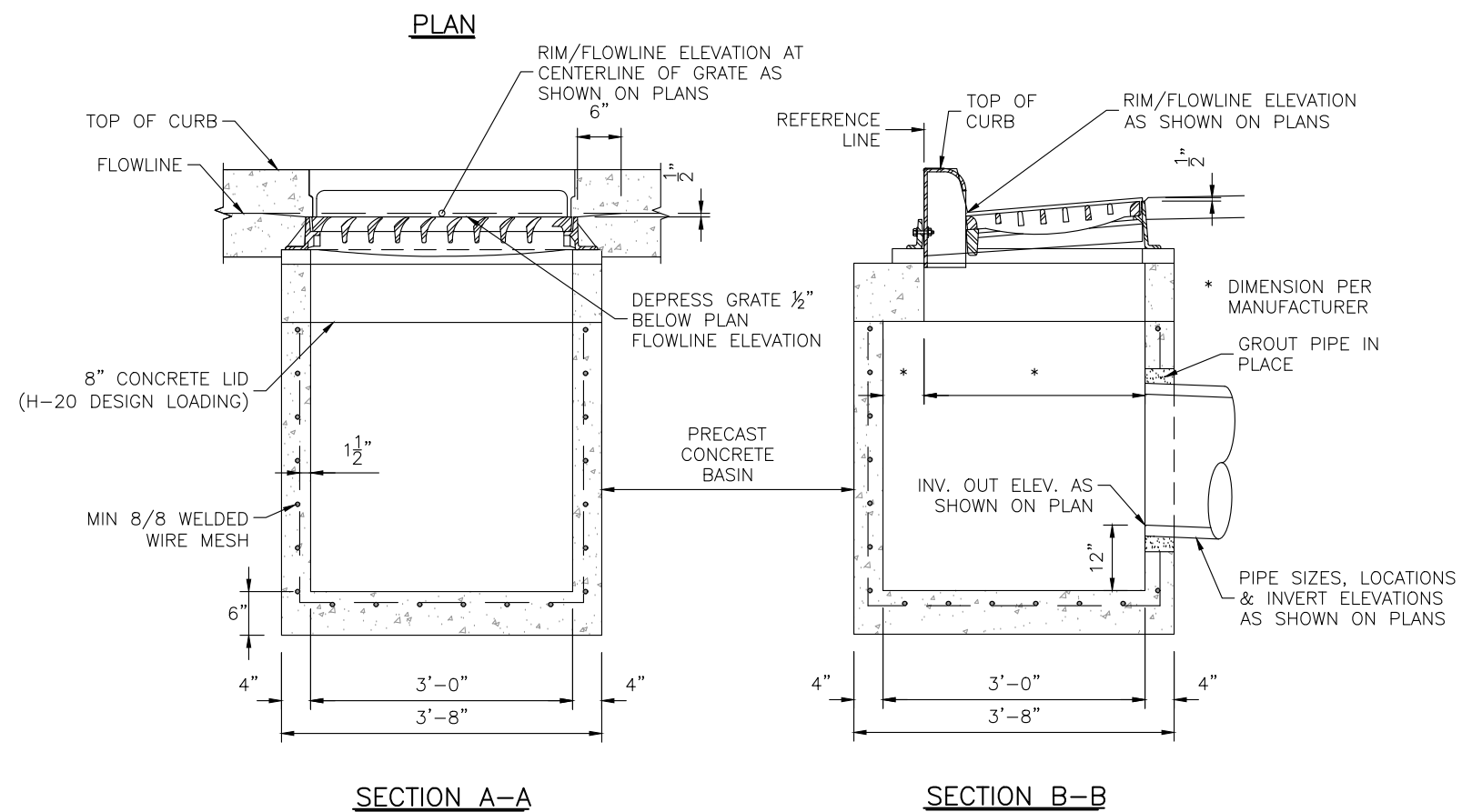


I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_STORMP&P.DWG Plotted: 4/1/2025 9:43 AM By: Eric Mahoney



NOTES:

1. FRAME, GRATE & CURB INLET TO BE NEENAH R-3246-AL L.
2. PRECAST CONCRETE ADJUSTMENT RINGS (IF REQUIRED) SHALL BE GROUTED IN PLACE.
3. SET GRATE WITH CONCRETE. LEVELING COURSE TO MATCH LONGITUDINAL SLOPE OF THE ROAD.
4. PIPE ENDS ARE TO BE TRIMMED FLUSH WITH THE INTERIOR WALLS.



TYPE 1 DRAIN INLET DETAIL

| Computer File Information                |                     | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>INLET DETAILS |                   |        | Project No./Code |
|------------------------------------------|---------------------|-----------------|------|----------|-------|----------------|--|-----------------------------------------|-------------------|--------|------------------|
| Print Date: 4/1/25                       |                     | Rev.            | Date | Comments | Init. | No Revisions:  |  |                                         |                   |        | --               |
| Last Modification Date: 4/1/25           |                     | 1               |      |          |       | Revised:       |  | Engineer: JP                            | Structure Numbers | --     | --               |
| Drawing File Name: BrushCreekRB_StormP&P |                     |                 |      |          |       | Void:          |  | Drawn By: MWM                           |                   | --     |                  |
| Autocad Ver. 2022 Scale: As Shown        |                     |                 |      |          |       |                |  | Sheet Subset: DRAINAGE                  | Subset Sheets:    | 2 of 4 | Sheet Number 55  |
| SGM Project No.: 91004D-83               | Quality Control: JP |                 |      |          |       |                |  |                                         |                   |        |                  |



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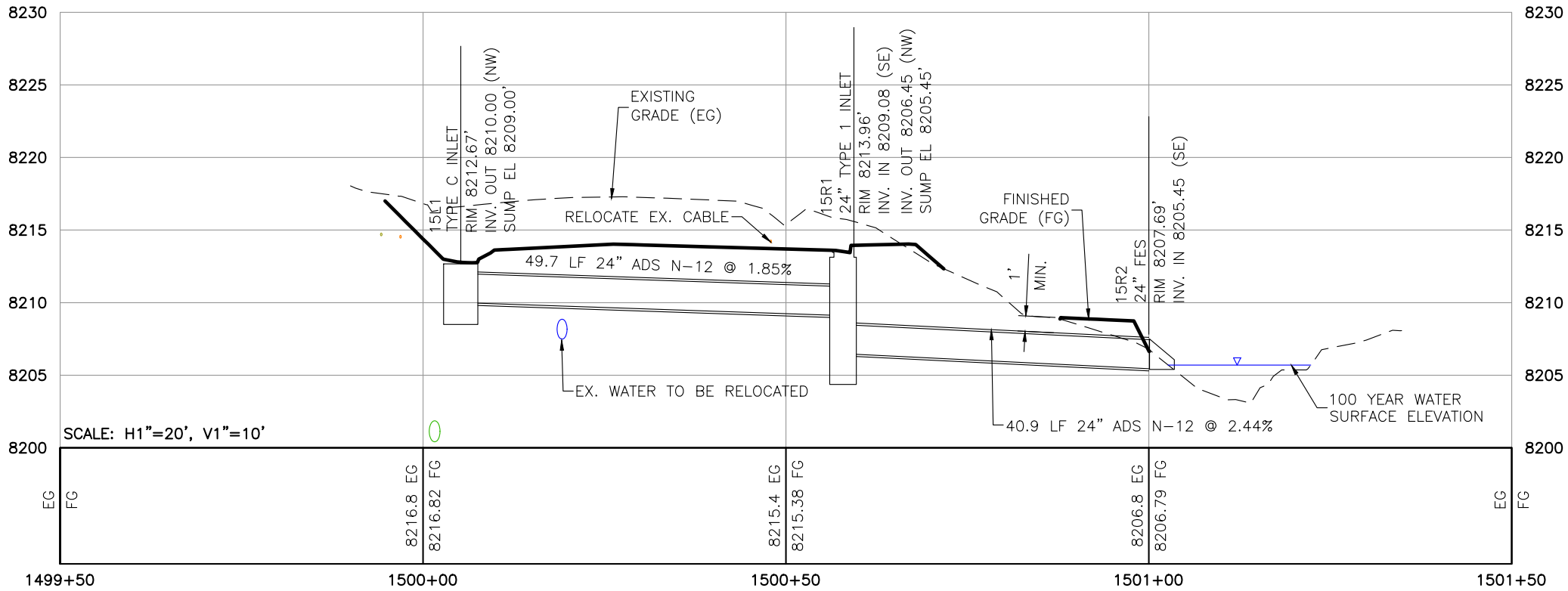
I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWGS\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_STORMP&P.DWG Plotted: 4/1/2025 9:43 AM By: Eric Mahoney

NOTE:

1. PLAN STATIONING IS IN REFERENCE TO BRUSH CREEK ROAD ALIGNMENT.
2. PROFILE STATIONING IN REFERENCE TO DRAINAGE ALIGNMENT.

LEGEND

- EXISTING GAS    EXISTING WATER    EXISTING ELECTRIC    EXISTING FIBER    EXISTING SANITARY

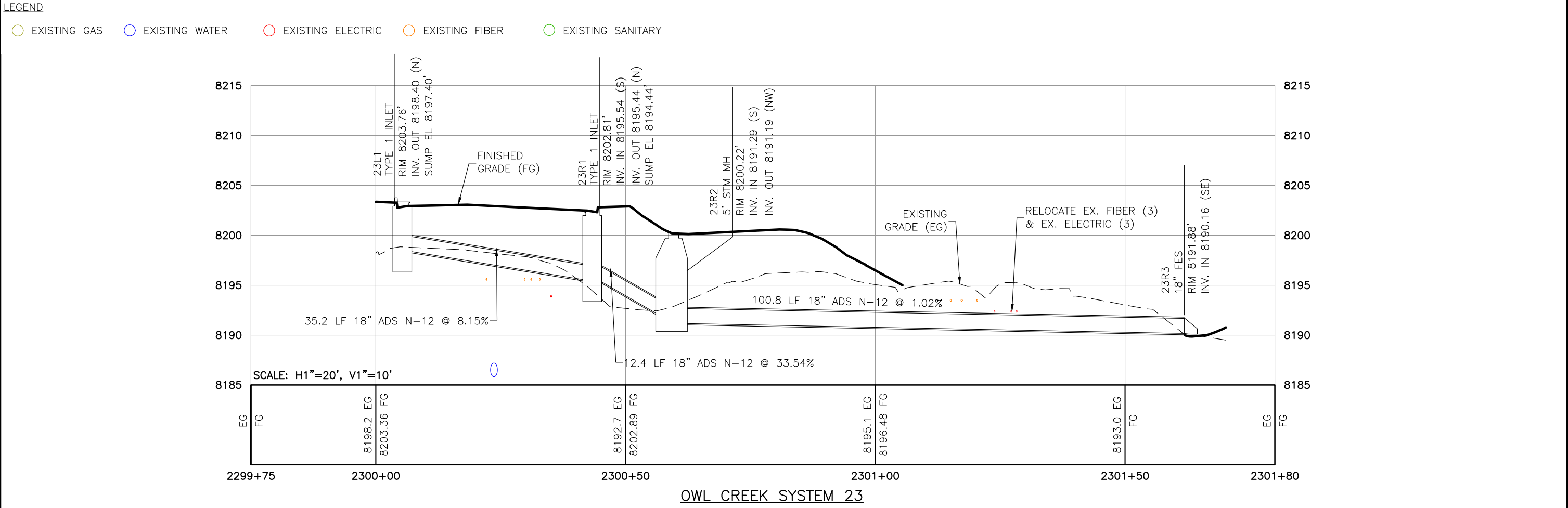
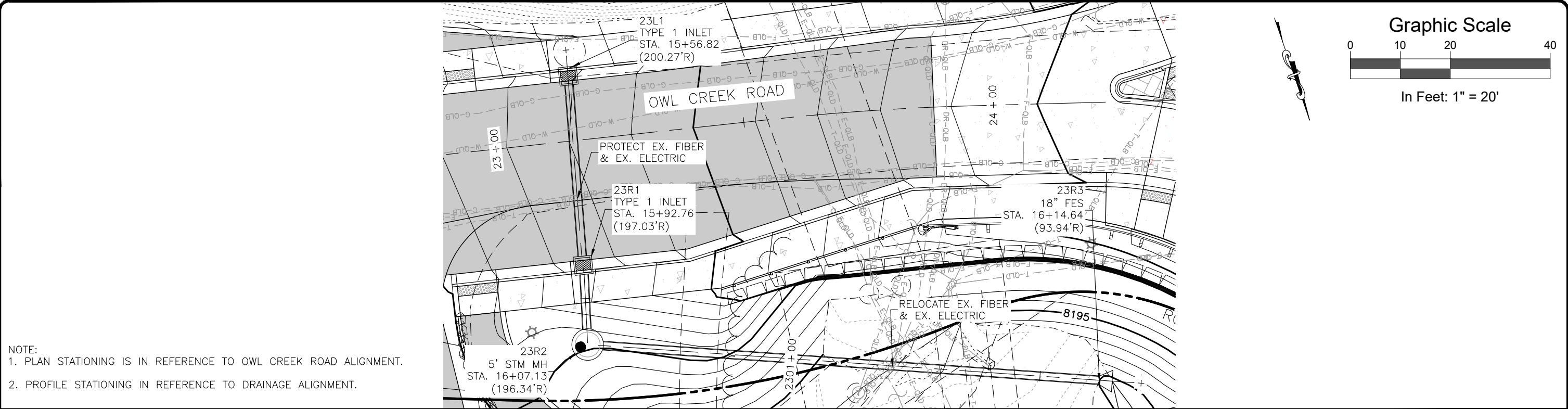


BRUSH CREEK SYSTEM 15

| Computer File Information                |                                   | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>STORM SEWER PLAN AND PROFILE (1) |                       |                   | Project No./Code |    |
|------------------------------------------|-----------------------------------|-----------------|------|----------|-------|----------------|--|------------------------------------------------------------|-----------------------|-------------------|------------------|----|
| Print Date: 4/1/25                       | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                |  | Engineer: JP                                               |                       | Structure Numbers | --               |    |
| Drawing File Name: BrushCreekRB_StormP&P | Autocad Ver. 2022 Scale: As Shown | 1               |      |          |       | No Revisions:  |  | Drawn By: MWM                                              |                       | --                | --               |    |
| SGM Project No.: 91004D-83               | Quality Control: JP               |                 |      |          |       | Revised:       |  | Sheet Subset: DRAINAGE                                     | Subset Sheets: 3 of 4 |                   | Sheet Number     | 56 |
|                                          |                                   |                 |      |          |       | Void:          |  |                                                            |                       |                   |                  |    |



I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_STORMP&P.DWG Plotted: 4/1/2025 9:43 AM By: Eric Mahoney



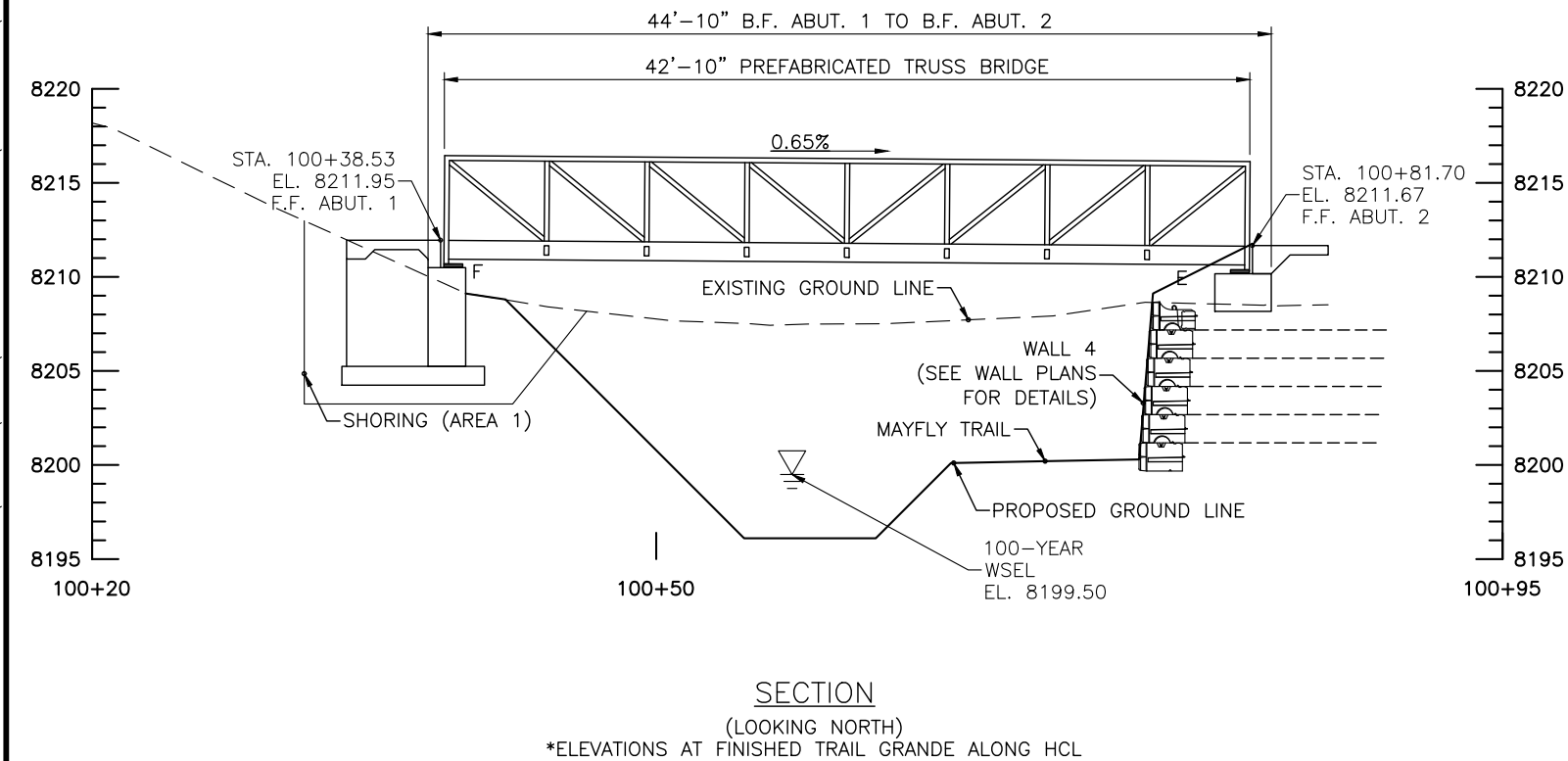
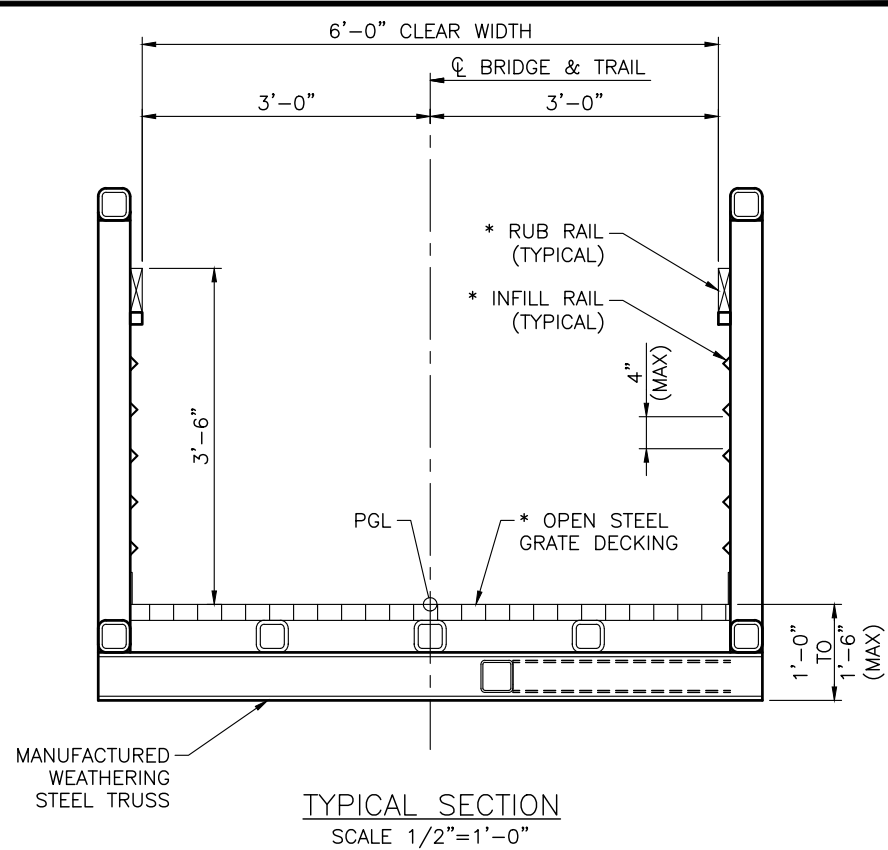
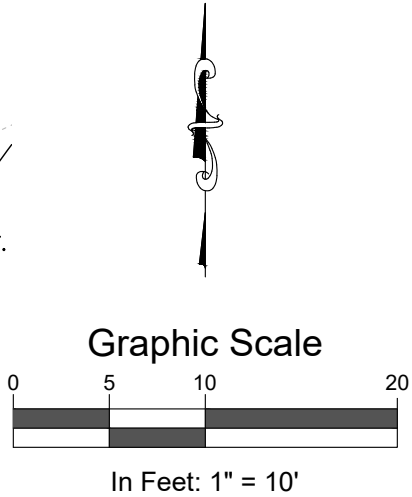
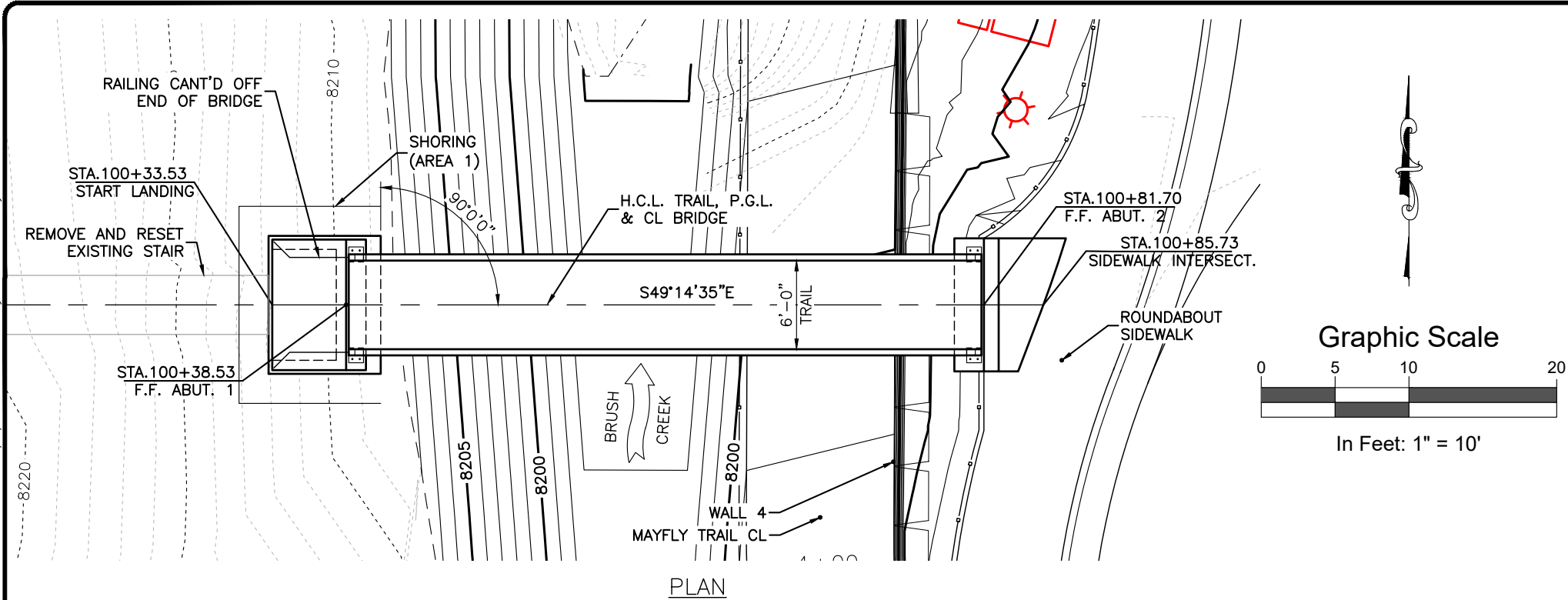
| Computer File Information                |                     | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004    www.sgm-inc.com | As Constructed         |                       | BRUSH CREEK ROUNDABOUT<br>STORM SEWER PLAN AND PROFILE (2) |              |    | Project No./Code |  |
|------------------------------------------|---------------------|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|------------------------------------------------------------|--------------|----|------------------|--|
| Print Date: 4/1/25                       |                     | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                            | No Revisions:          |                       |                                                            |              | -- |                  |  |
| Last Modification Date: 4/1/25           |                     | <div>1</div>    |      |          |       |                                                                                                                                           |                                                                                                                                                                                            |                        |                       |                                                            |              |    |                  |  |
| Drawing File Name: BrushCreekRB_StormP&P |                     | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                            | Revised:               |                       | Engineer: JP                                               | Structure    | -- | --               |  |
| Autocad Ver. 2022    Scale: As Shown     |                     | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                            | Void:                  |                       | Drawn By: MWM                                              | Numbers      | -- |                  |  |
| SGM Project No.: 91004D-83               | Quality Control: JP | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                            | Sheet Subset: DRAINAGE | Subset Sheets: 4 of 4 |                                                            | Sheet Number | 57 |                  |  |







I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWGS\STRUC\ROUNDABOUT PROJECT\PS-SHEETSET\PED\_BRIDGE\_GENERAL\_LAYOUT.DWG Plotted: 4/1/2025 9:44 AM By: Eric Mahoney



- SUPERSTRUCTURE NOTES:**
- \* DENOTES STRUCTURAL ELEMENT TO BE DESIGNED AND SUPPLIED BY PRE-FABRICATED BRIDGE MANUFACTURER.
  - PEDESTRIAN RAILINGS, POSTS, BRIDGE BEARING, ANCHOR BOLTS AND CONNECTION FOR PRE-FABRICATED BRIDGES TO BE DESIGNED AND SUPPLIED BY PRE-FABRICATED BRIDGE MANUFACTURER. HORIZONTAL ELEMENTS SHOULD GENERALLY MATCH THAT SHOWN ON THE RAILING DETAILS SHEETS. SIZES OF ELEMENTS MAY BE CHANGED IF NECESSARY TO MEET THE DESIGN REQUIREMENTS. OPENINGS BETWEEN RAILING ELEMENTS SHALL BE SPACED SO THAT A 4" SPHERE CANNOT PASS THROUGH.

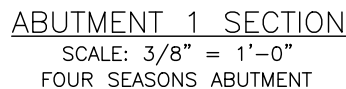
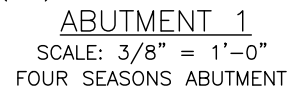
| Computer File Information                    |                      | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>PED. BRIDGE GENERAL LAYOUT |        | Project No./Code |           |
|----------------------------------------------|----------------------|-----------------|------|----------|-------|----------------|--|------------------------------------------------------|--------|------------------|-----------|
| Print Date: 4/1/25                           |                      | Rev.            | Date | Comments | Init. | No Revisions:  |  | Engineer:                                            | XX     | Structure        | --        |
| Last Modification Date: 4/1/25               |                      | 1               |      |          |       | Revised:       |  | Drawn By:                                            | NPC    | Numbers          | --        |
| Drawing File Name: Ped_Bridge_General_Layout |                      |                 |      |          |       | Void:          |  | Sheet Subset:                                        | STRUCT | Subset Sheets:   | S2 of S23 |
| Autocad Ver. 2022 Scale: NTS                 |                      |                 |      |          |       |                |  |                                                      |        | Sheet Number     | 59        |
| SGM Project No.: 91004D-83                   | Quality Control: MCF |                 |      |          |       |                |  |                                                      |        |                  |           |





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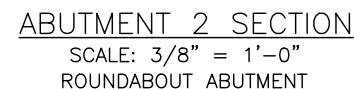




- BRIDGE NOTES:
1. THE ENGINEER WILL PROVIDE ANCHOR BOLT DETAILS AFTER REVIEW OF PREFABRICATED BRIDGE SHOP DRAWINGS.
  2. ELEVATIONS AND DIMENSIONS NOTED WITH ▲ INDICATE DIMENSIONS WHICH ARE DEPENDENT ON THE TOTAL STRUCTURE DEPTH. THESE ARE TO BE VERIFIED WITH THE PREFABRICATED BRIDGE SHOP DRAWINGS. ANY CHANGES TO THE PLANS WILL BE MADE AFTER FINAL SHOP DRAWINGS ARE APPROVED. THE CLASS D CONCRETE QUANTITY IS BASED ON THE ASSUMED STRUCTURE DEPTH AND WILL NOT BE RE-MEASURED, BUT WILL BE THE QUANTITIES SHOWN ON THESE PLANS.
  3. EXCAVATION AND BACKFILL FOR ABUTMENTS AND WINGWALLS SHALL BE IN ACCORDANCE WITH STANDARD PLAN M-206-2.
  4. SLOPE BEARING SEAT TO DRAIN.
  5. EXPANSION JOINTS TO BE DESIGNED AND SUPPLIED BY PREFABRICATED BRIDGE MANUFACTURER AND SHALL BE ADA COMPLIANT.
  6. SURFACES DESIGNATES FOR A STRUCTURAL CONCRETE COATING (ANTI-GRAFFITI) PER CDOT APPROVED PRODUCT LIST. COATING TO BE APPLIED TO 1' MINIMUM BELOW FINISH GRADE.

- 
- The diagram illustrates the cross-section of a bridge structure. Key components and dimensions are labeled as follows:
- ANCHOR BOLTS**: Indicated by a symbol and a line pointing to the top of the structure.
  - EXPANSION BASE PLATE & ANCHOR BOLTS**: Indicated by a symbol and a line pointing to the base of the structure.
  - BEARING**: Indicated by a symbol and a line pointing to the bearing area.
  - FF BACKWALL (TYP)**: Indicated by a line pointing to the back wall.
  - BRIDGE & HCL**: Indicated by a line pointing to the bridge structure.
  - OUTLINE OF PRE-FABRICATED BRIDGE ABOVE**: Indicated by a line pointing to the pre-fabricated bridge section.
  - FOOTING (TYP)**: Indicated by a line pointing to the footing.
  - THICKENED EDGE SIDEWALK/BACKWALL**: Indicated by a line pointing to the thickened edge.
- Dimensions are provided in feet and inches:
- Overall width: 3'-0"
  - Width of the main structure: 2'-0"
  - Width of the thickened edge: 1'-0"
  - Height of the main structure: 10"
  - Height of the thickened edge: 10"
  - Height of the bridge deck: 3'-8"
  - Height of the back wall: 4'-6"
  - Height of the footing: 9'-0"
  - Height of the pre-fabricated bridge: 3'-8"
  - Height of the thickened edge: 4'-6"

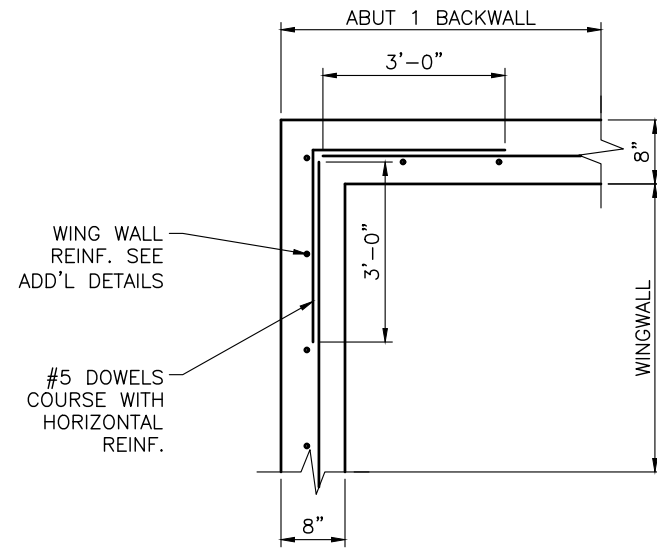
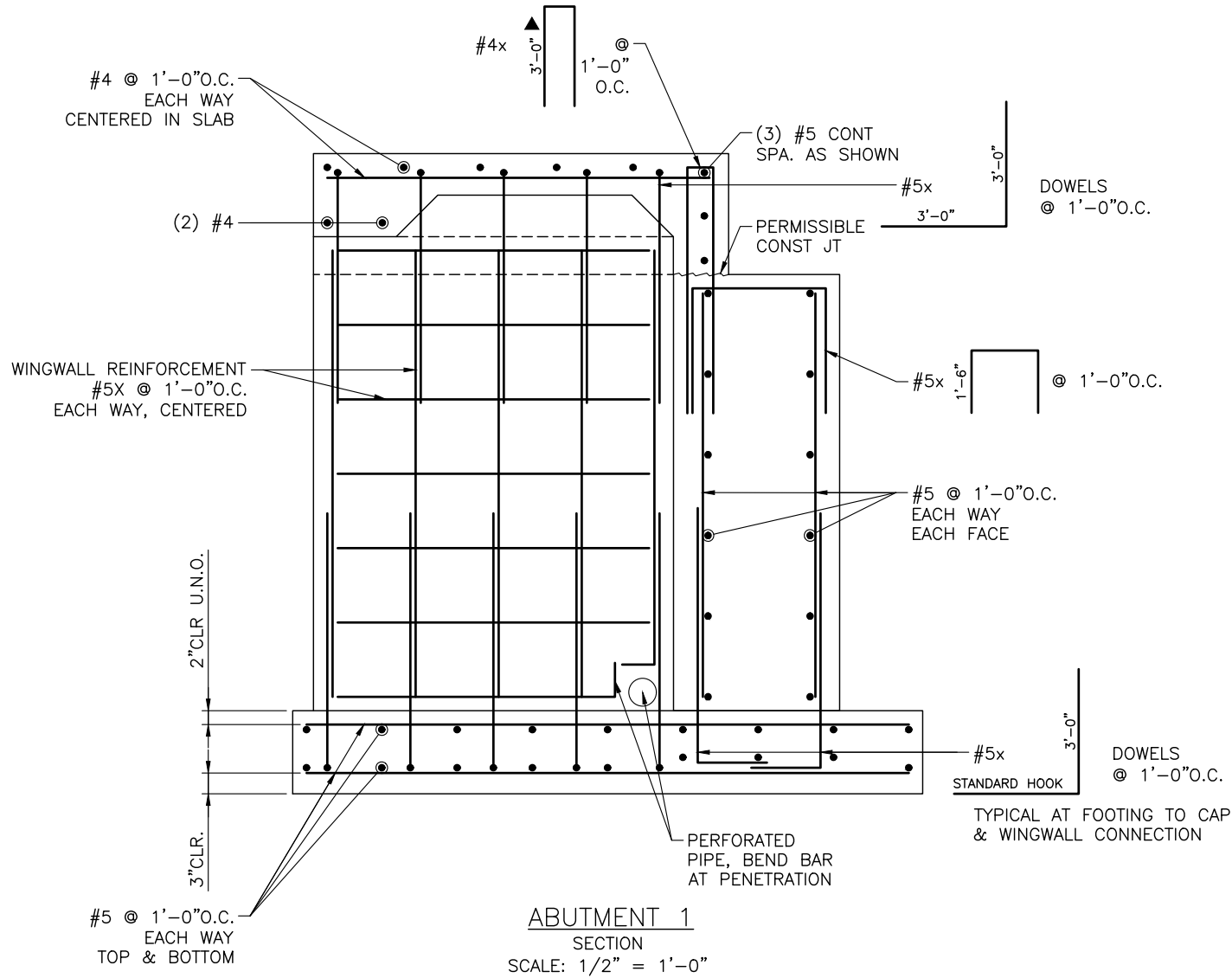
ABUTMENT 2  
SCALE: 3/8" = 1'-0"  
ROUNDAABOUT ABUTMENT



| Computer File Information                                            |                                | Sheet Revisions |          |       |               | <br>Town of<br><b>SNOWMASS</b> Village | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |               | BRUSH CREEK ROUNABOUT<br>PED. BRIDGE ABUTMENT LAYOUT |                |           | Project No./Code |    |
|----------------------------------------------------------------------|--------------------------------|-----------------|----------|-------|---------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|------------------------------------------------------|----------------|-----------|------------------|----|
| Print Date: 4/1/25                                                   | Rev.                           | Date            | Comments | Init. | No Revisions: |                                                                                                                             |                                                                                                                                                                                         |                |               |                                                      |                |           | --               |    |
| Last Modification Date: 4/1/25                                       | <input type="text" value="1"/> |                 |          |       | Revised:      |                                                                                                                             |                                                                                                                                                                                         | Engineer:      | XX            | Structure                                            | --             | --        |                  |    |
| Drawing File Name: Ped_Bridge_General_Layout                         | <input type="text"/>           |                 |          |       |               |                                                                                                                             |                                                                                                                                                                                         | Drawn By:      | NPC           | Numbers                                              | --             |           |                  |    |
| Autocad Ver. 2022    Scale: As Shown                                 | <input type="text"/>           |                 |          |       |               |                                                                                                                             |                                                                                                                                                                                         | Void:          | Sheet Subset: | --                                                   | Subset Sheets: | S3 of S23 | Sheet Number     | 60 |
| SGM Project No.: 91004D-83                      Quality Control: MCF | <input type="text"/>           |                 |          |       |               |                                                                                                                             |                                                                                                                                                                                         |                |               |                                                      |                |           |                  |    |

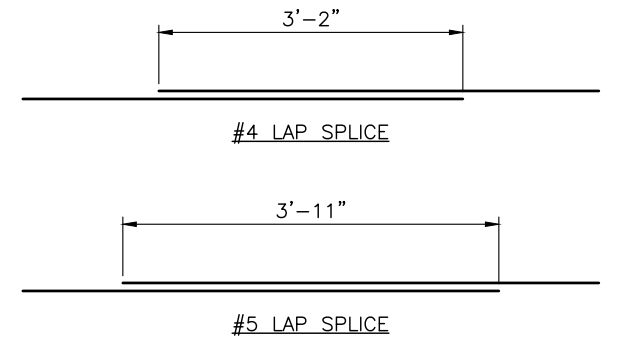


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TYPICAL CORNER SINGLE MAT

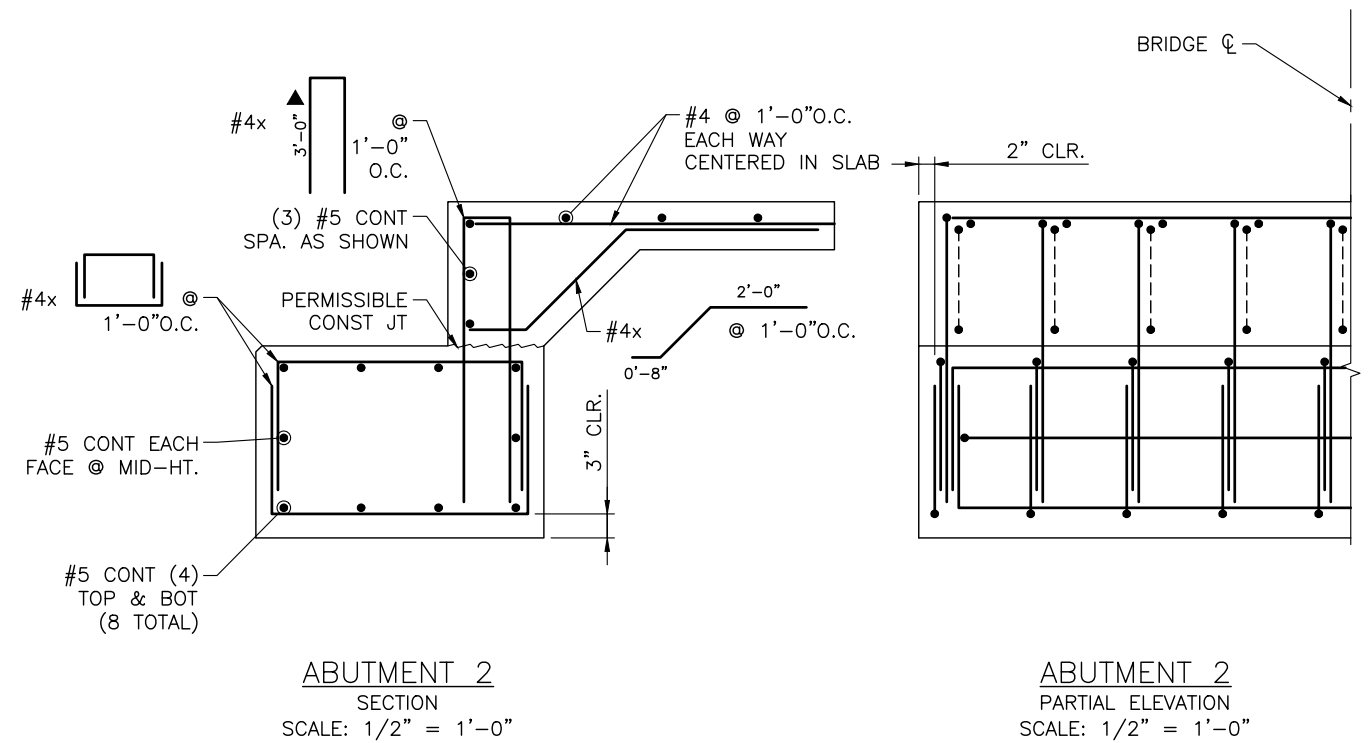
SCALE: 1/2" = 1'-0"



- NOTES:
- GRADE 60 REBAR
  - LAP LENGTHS PROVIDED FOR BLACK BAR

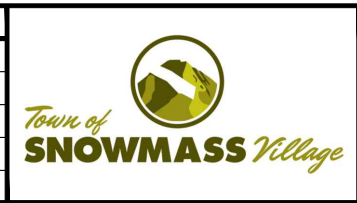
TYPICAL LAP SPLICE

SCALE: NTS



| Computer File Information                    |                      |
|----------------------------------------------|----------------------|
| Print Date: 4/1/25                           |                      |
| Last Modification Date: 4/1/25               |                      |
| Drawing File Name: Ped_Bridge_General_Layout |                      |
| Autocad Ver. 2022 Scale: As Shown            |                      |
| SGM Project No.: 91004D-83                   | Quality Control: MCF |

| Sheet Revisions |      |          |       |
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| Rev.            | Date | Comments | Init. |
| 1               |      |          |       |
|                 |      |          |       |
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|----------------|--|
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| Revised:       |  |
| Void:          |  |

| BRUSH CREEK ROUNDABOUT<br>PED. BRIDGE ABUTMENT DETAILS |        |                |           |
|--------------------------------------------------------|--------|----------------|-----------|
| Engineer:                                              | XX     | Structure      | --        |
| Drawn By:                                              | NPC    | Numbers        | --        |
| Sheet Subset:                                          | STRUCT | Subset Sheets: | S4 of S23 |

| Project No./Code |    |
|------------------|----|
| --               |    |
| --               |    |
| Sheet Number     | 61 |



I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWGS\STRUCT\ROUNDABOUT PROJECT\PS-SHEETSET\WALL\_GENERAL\_INFORMATION.DWG Plotted: 4/1/2025 9:44 AM By: Eric Mahoney

GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2023; AND AS SUBSEQUENTLY REVISED; THE STANDARD PLANS (M&S STANDARDS) DATED JULY 2019; AND AS SUBSEQUENTLY REVISED; AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.

EXCEPT AS SHOWN IN THE PLANS, STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH M-206-1 FOR CAST-IN-PLACE RETAINING WALLS.

STRUCTURE EXCAVATION AND BACKFILL SHALL BE AS SHOWN ON THE PLANS, EXCEPT SHORING MAY BE REQUIRED FOR EXCAVATION ADJACENT TO THE EXISTING ROADWAY. TEMPORARY EXCAVATION SUPPORT SHALL BE PAID FOR BY ITEM 206 SHORING.

EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M213.

SEE FINISH SCHEDULE BELOW. WHERE INDICATED IN THE SCHEDULE, EXPOSED CONCRETE SURFACE SHALL RECEIVE A CLASS 1 (ORDINARY SURFACE FINISH) TO ONE (1) FOOT BELOW FINISHED GROUND LINE.

FIELD WELDING OF ANY KIND SHALL NOT BE PERMITTED UNLESS SPECIFICALLY CALLED FOR IN THE PLANS.

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE NOTED. (N) DENOTES NON-COATED (BLACK) REINFORCING STEEL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM THE "AS CONSTRUCTED PLANS". THESE STATIONS, ELEVATIONS, AND DIMENSIONS MAY BE ADJUSTED TO MEET THE EXISTING STRUCTURE. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM A RECENT FIELD SURVEY. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL LONGITUDINAL AND TRANSVERSE DIMENSIONS ARE MEASURED HORIZONTALLY AND INCLUDE NO CORRECTION FOR GRADE UNLESS OTHERWISE NOTED.

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 811 (1-800-922-1987) AT LEAST 3 DAYS (2 DAYS NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK.

THE INTEGRITY OF THE SUBGRADE MATERIALS BENEATH PROPOSED STRUCTURES SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

| FINISH SCHEDULE |                                   |              |
|-----------------|-----------------------------------|--------------|
| LOCATION        | FINISH DETAILS                    | FINISH COLOR |
| ALL FOOTINGS    | CLASS 1 (ORDINARY SURFACE FINISH) | N/A          |
| BLOCK WALLS     | LEDGESTONE                        | TBD          |

DESIGN DATA – RETAINING WALLS

AASHTO, LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION WITH CURRENT INTERIMS

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

LIVE LOAD: 250 PSF SURCHARGE

EARTH LOAD: UNIT WEIGHT OF SOIL = 130 PCF  
EQUIVALENT FLUID PRESSURES = 60 (MIN) PCF: AT-REST  
40 (MIN) PCF: ACTIVE

REINFORCED CONCRETE:  
CLASS D CONCRETE:  $f'_c$  = 4,500 PSI

REINFORCING STEEL (ASTM A615 GR60)  $f_y$  = 60,000 PSI

SOIL PARAMETERS: FRICTION COHESION UNIT WEIGHT  
 $\phi$  (PSF) (PCF)  
NATIVE SOILS 28° 0.0 120  
CDOT STRUCT BACKFILL (CLASS 1) 34° 0.0 130  
CDOT STRUCT BACKFILL (CLASS 2) 30° 0.0 120  
FILTER MATERIAL (SPECIAL) 34° 0.0 120

NOMINAL (UNFACTORED) BEARING PRESSURE: = 9,700 PSF (CLAYS)

DESIGN DATA – RAILINGS

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) MINIMUM DESIGN LOADS 7-22

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

LIVE LOAD: GREATER OF 50 PLF OR 200 LB

REINFORCED CONCRETE:  
CLASS D CONCRETE:  $f'_c$  = 4,500 PSI  
CLASS B CONCRETE:  $f'_c$  = 4,500 PSI

REINFORCING STEEL (ASTM A615 GR60)  $f_y$  = 60,000 PSI

SEE S21 FOR ADDITIONAL MATERIALS INFORMATION

SEISMIC DESIGN CRITERIA

EARTHQUAKE DESIGN METHOD: FORCE BASED  
LATITUDE = 39.2134° N  
LONGITUDE = 106.9395° W

AASHTO SPECTRUM FOR 7% PE IN 75 YEARS (1000 YR RETURN PERIOD)  
PERIOD  $S_a$   
(SEC) (G)  
0.0 0.158  $P_{Ga}$  – SITE CLASS B  
0.2 0.251  $S_a$  – SITE CLASS B  
1.0 0.046  $S_1$  – SITE CLASS B

SPECTRAL RESPONSE ACCELERATIONS:  
 $A_s = F_{pga} * PGA$ ,  $S_{ps} = F_a * S_s$ , AND  $S_{p1} = F_v * S_1$   
 $F_{pga} = 1.20$ ,  $F_a = 1.20$ ,  $F_v = 1.70$   
PERIOD  $S_a$   
(SEC) (G)  
0.0 0.189  $A_s$  – SITE CLASS C  
0.2 0.301  $S_{ps}$  – SITE CLASS C  
1.0 0.075  $S_{p1}$  – SITE CLASS C

SEISMIC ZONE PERFORMANCE 1

INDEX OF DRAWINGS

| DWG. NO. | DESCRIPTION                         |
|----------|-------------------------------------|
| S1       | PED. BRIDGE GENERAL INFORMATION     |
| S2       | PED. BRIDGE GENERAL LAYOUT          |
| S3       | PED. BRIDGE ABUTMENT LAYOUT         |
| S4       | PED. BRIDGE ABUTMENT DETAILS        |
| S5       | WALL GENERAL INFORMATION            |
| S6       | WALL SUMMARY OF QUANTITIES          |
| S7       | EXCAVATION & BACKFILL DETAILS       |
| S8       | WALL GEOMETRY PLAN (1 OF 2)         |
| S9       | WALL GEOMETRY PLAN (2 OF 2)         |
| S10      | WALL 1 PLAN & PROFILE               |
| S11      | WALL 2 PLAN & PROFILE (1 OF 2)      |
| S12      | WALL 2 PLAN & PROFILE (2 OF 2)      |
| S13      | WALL 3 PLAN & PROFILE               |
| S14      | WALL 4 PLAN & PROFILE               |
| S15      | WALL DETAILS (1 OF 3)               |
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| S17      | WALL DETAILS (3 OF 3)               |
| S18      | TRANSITION DETAILS (1 OF 2)         |
| S19      | TRANSITION DETAILS (2 OF 2)         |
| S20      | TRAIL & SIDEWALK STRUCTURAL DETAILS |
| S21      | RAILING DETAILS (1 OF 3)            |
| S22      | RAILING DETAILS (2 OF 3)            |
| S23      | RAILING DETAILS (3 OF 3)            |

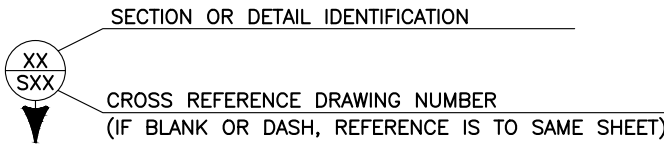
ABBREVIATIONS/SYMBOLS

PER STANDARD PLAN M-100-2 OR AS SHOWN BELOW

BOT = BOTTOM  
BF = BACK FACE  
BW = BOTTOM OF WALL  
EA = EACH  
EL = ELEVATION  
EG = EXISTING GRADE  
FF = FRONT FACE  
FG = FINISHED GRADE  
ROW = RIGHT OF WAY  
TW = TOP OF WALL  
WSEL= WATER SURFACE ELEVATION



Know what's below.  
Call before you dig.



| Computer File Information                   |                      | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004   www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>WALL GENERAL INFORMATION |        |                | Project No./Code |                 |
|---------------------------------------------|----------------------|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|----------------------------------------------------|--------|----------------|------------------|-----------------|
| Print Date: 4/1/25                          |                      | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                           | No Revisions:  |  |                                                    |        |                | --               |                 |
| Last Modification Date: 4/1/25              |                      | <div>1</div>    |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Revised:       |  | Engineer:                                          | JNM    | Structure      | --               | --              |
| Drawing File Name: Wall_General_Information |                      | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Void:          |  | Drawn By:                                          | JNM    | Numbers        | --               | Sheet Number 62 |
| Autocad Ver. 2022      Scale: NTS           |                      | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  | Sheet Subset:                                      | STRUCT | Subset Sheets: | S5 of S23        |                 |
| SGM Project No.: 91004D-83                  | Quality Control: MCF | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  |                                                    |        |                |                  |                 |



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I:\1991\91004\D\83 - OWL CREEK ROUNDABOUT\H-DWG\STRUC\ROUNDABOUT PROJECT\PS-SHEETSET\WALL\_SAQ.DWG Plotted: 4/1/2025 9:44 AM By: Eric Mahoney

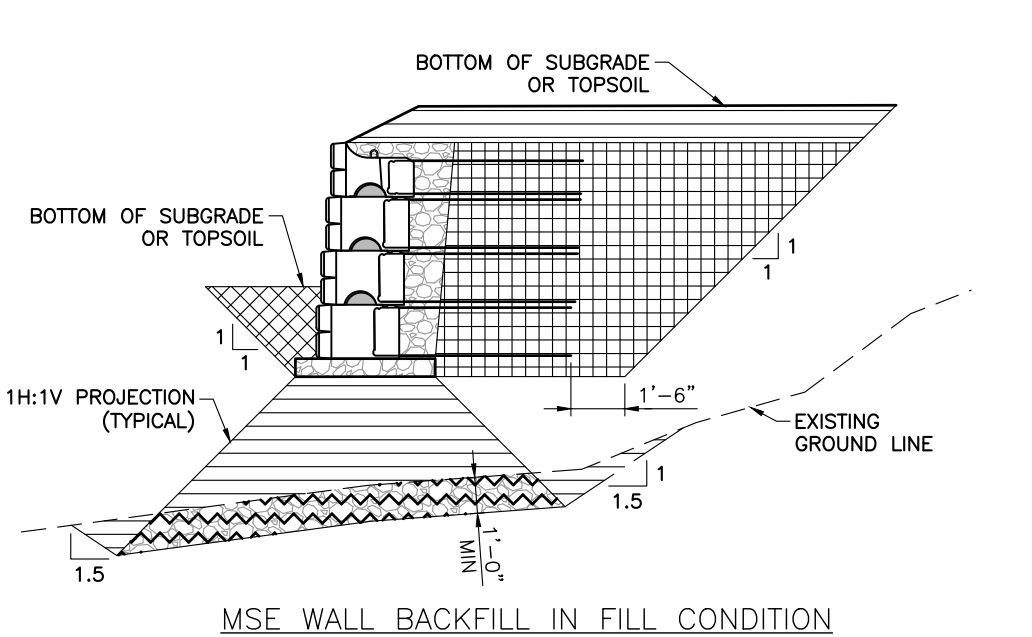
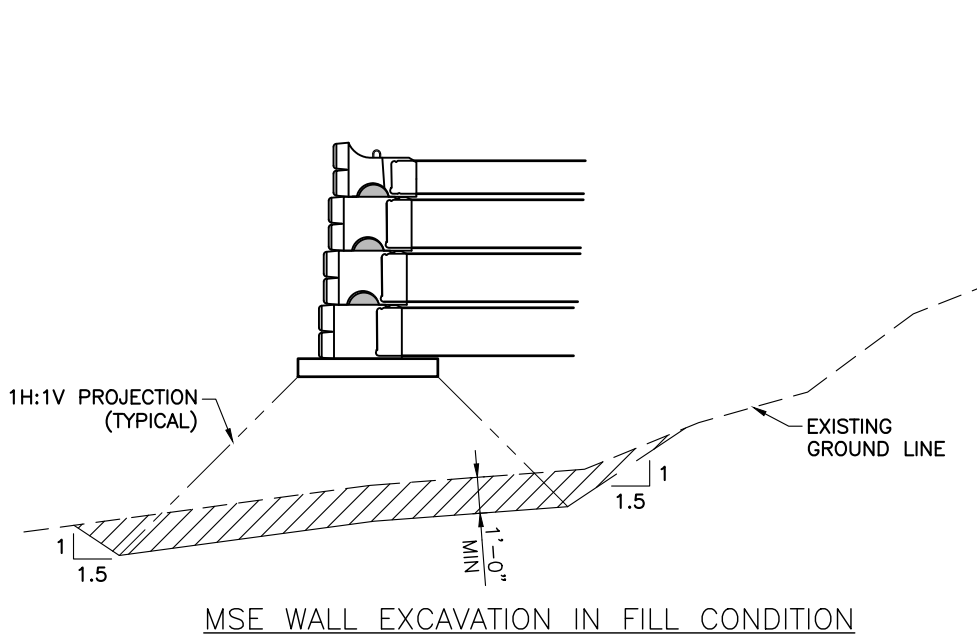
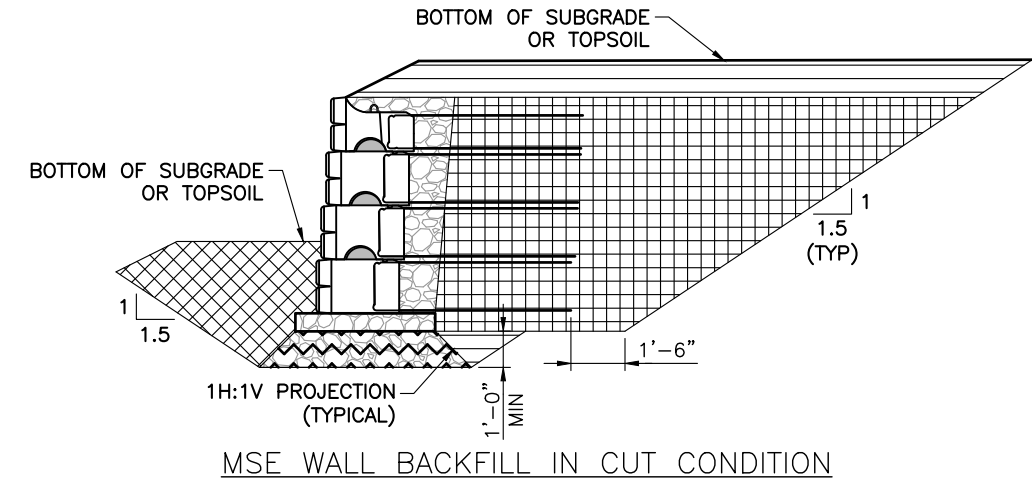
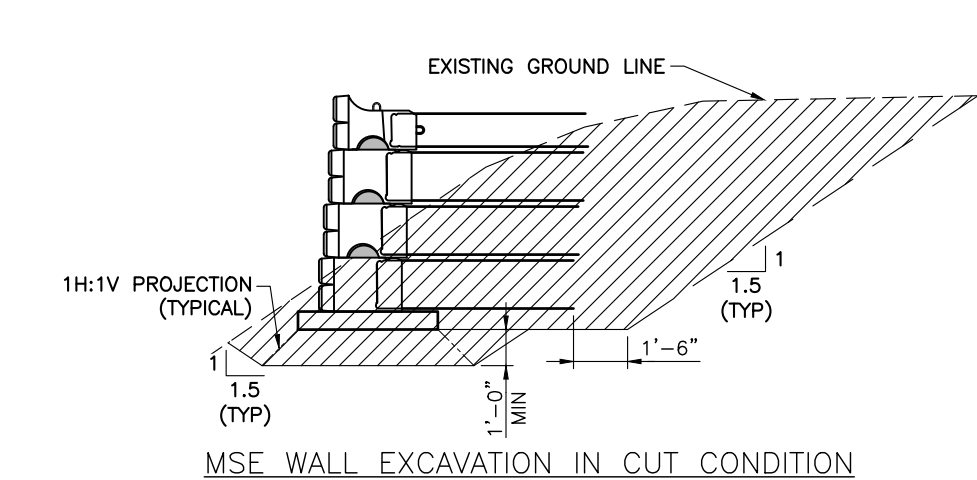
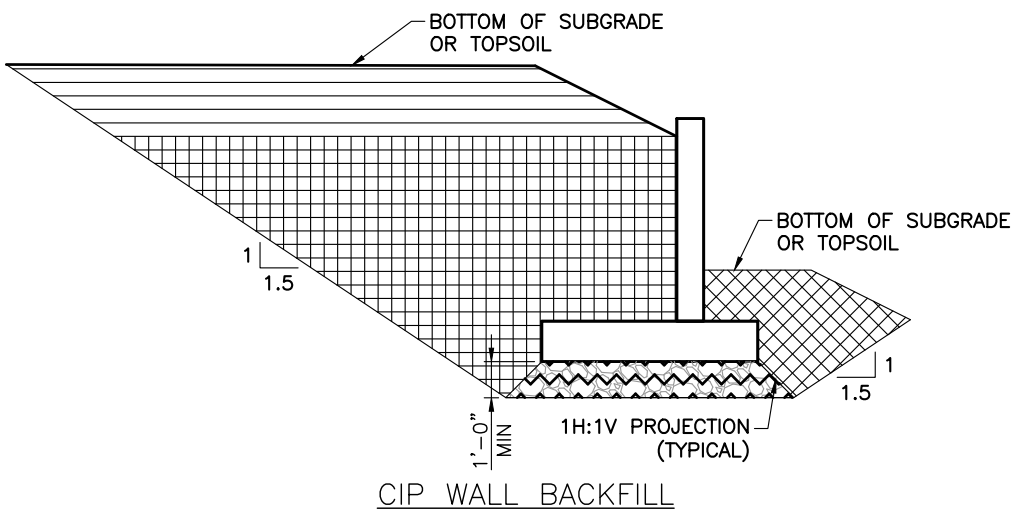
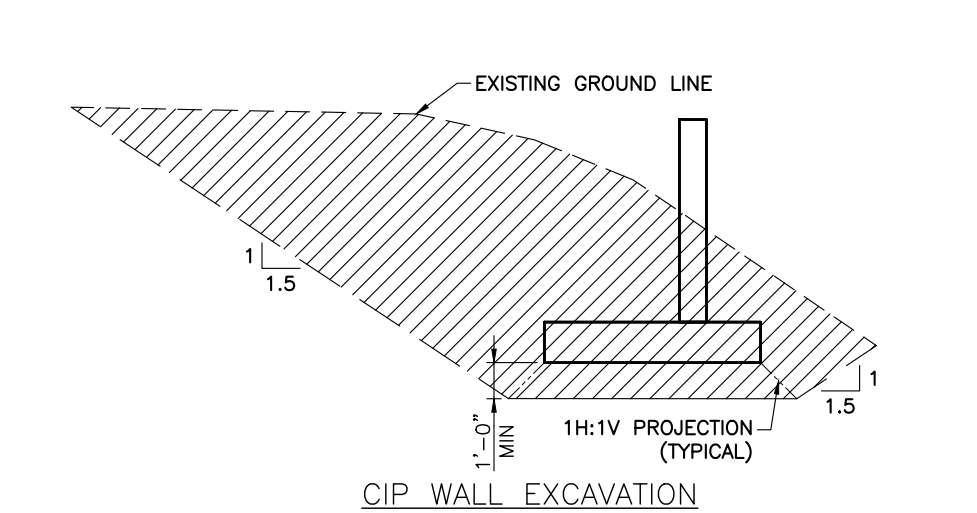
| CONTRACT ITEM NO | CONTRACT ITEM                    | UNIT | WALL  |       |    |       | PROJECT TOTAL |
|------------------|----------------------------------|------|-------|-------|----|-------|---------------|
|                  |                                  |      | 1     | 2     | 3  | 4     |               |
| 206-00000        | STRUCTURE EXCAVATION             | CY   | 290   | 655   |    | 1,180 | 2,125         |
| 206-00100        | STRUCTURE BACKFILL (CLASS 1)     | CY   | 565   | 1,725 |    | 815   | 3,105         |
| 206-00200        | STRUCTURE BACKFILL (CLASS 2)     | CY   | 65    | 52    |    | 49    | 166           |
| 206-00360        | MECHANICAL REINFORCEMENT OF SOIL | CY   | 530   | 1,450 |    | 735   | 2,715         |
| 206-00505        | FILTER MATERIAL (SPECIAL)        | CY   | 56    | 140   |    | 70    | 266           |
| 420-00300        | GEOTEXTILE (REINFORCMENT)        | SY   | 60    | 150   |    | 65    | 275           |
| 504-03411        | RETAINING WALL (BOULDER)         | SF   |       |       | 55 |       | 55            |
| 504-04410        | BLOCK FACING                     | SF   | 690   | 1,700 |    | 660   | 3,050         |
| 516-00000        | DAMPPROOFING (ASPHALT)           | SY   | 18    | 19    |    | 14    | 51            |
| 601-03050        | CONCRETE CLASS D (WALL)          | CY   | 15    | 15    |    | 12    | 42            |
| 601-40005        | CUT STONE VENEER                 | SF   | 195   | 210   |    | 135   | 540           |
| 602-00000        | REINFORCING STEEL                | LB   | 2,350 | 2,350 |    | 1,900 | 6,600         |
| 605-83002        | GEOCOMPOSITE DRAIN WITH PIPE     | SY   | 18    | 19    |    | 14    | 51            |

| Computer File Information       |                                | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004   www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>WALL SUMMARY OF QUANTITIES |  |                                 | Project No./Code |                        |
|---------------------------------|--------------------------------|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|------------------------------------------------------|--|---------------------------------|------------------|------------------------|
| Print Date: 4/1/25              |                                | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                           | No Revisions:  |  |                                                      |  |                                 | --               |                        |
| Last Modification Date: 4/1/25  | <input type="text" value="1"/> |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Revised:       |  | Engineer: JNM                                        |  | Structure                       | --               | --                     |
| Drawing File Name: Wall_SAQ     | <input type="text"/>           |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Void:          |  | Drawn By: JNM                                        |  | Numbers                         | --               |                        |
| Autocad Ver. 2022    Scale: NTS | <input type="text"/>           |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  | Sheet Subset:        STRUCT                          |  | Subset Sheets:        S6 of S23 |                  | Sheet Number        63 |
| SGM Project No.: 91004D-83      |                                |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  |                                                      |  |                                 |                  |                        |



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- NOTES:
- 1. UNLESS SHOWN OTHERWISE IN THE PLANS, THIS DRAWING GIVES THE MINIMUM EXTENT OF STRUCTURE EXCAVATION AND BACKFILL. THE CONTRACTOR MAY ELECT TO EXTEND THE STRUCTURE EXCAVATION AND STRUCTURE BACKFILL BEYOND THE LIMITS SHOWN HERE.
  - 2. CONDITION SOIL WITH COMPACTED FILTER MATERIAL (SPECIAL) AND GEOSYNTHETIC STABILIZATION ACCORDING TO GEOTECHNICAL ENGINEER'S DIRECTION PER CTL THOMPSON PROJECT NUMBER: GS06259.001-145, DATED MARCH 6, 2023.



- STRUCTURE EXCAVATION
- STRUCTURE BACKFILL (CLASS 1)
- MECHANICAL REINFORCEMENT OF SOIL
- STRUCTURE BACKFILL (CLASS 2)
- FILTER MATERIAL (SPECIAL)
- GEOTEXTILE (REINFORCEMENT)

| Computer File Information      |                      | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT EXCAVATION & BACKFILL DETAILS |        |                   | Project No./Code |                 |
|--------------------------------|----------------------|-----------------|------|----------|-------|----------------|--|------------------------------------------------------|--------|-------------------|------------------|-----------------|
| Print Date: 4/1/25             |                      | Rev.            | Date | Comments | Init. | No Revisions:  |  | Engineer:                                            | JNM    | Structure Numbers | --               | --              |
| Last Modification Date: 4/1/25 |                      | 1               |      |          |       | Revised:       |  | Drawn By:                                            | JNM    |                   | --               | --              |
| Drawing File Name: Exc_Bckfill |                      |                 |      |          |       | Void:          |  | Sheet Subset:                                        | STRUCT | Subset Sheets:    | S7 of S23        | Sheet Number 64 |
| Autocad Ver. 2022 Scale: NTS   |                      |                 |      |          |       |                |  |                                                      |        |                   |                  |                 |
| SGM Project No.: 91004D-83     | Quality Control: MCF |                 |      |          |       |                |  |                                                      |        |                   |                  |                 |

Town of SNOWMASS Village

SGM

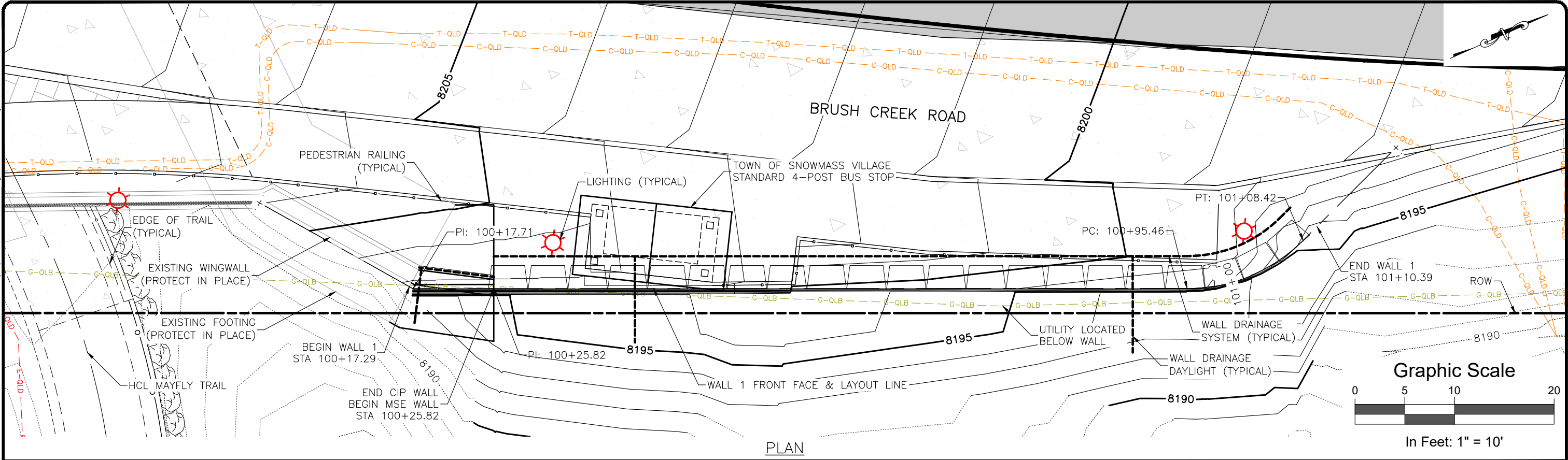
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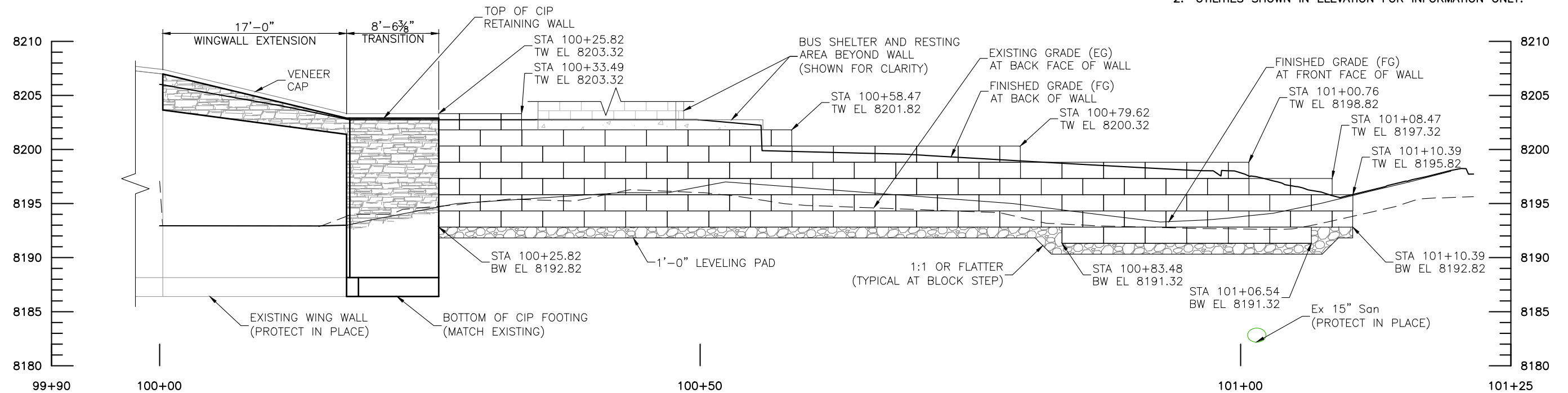
I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_WALLP&P.DWG Plotted: 4/1/2025 9:46 AM By: Eric Mahoney



PLAN

NOTES

- SEE SHEETS S15-S19 FOR WALL DETAILS.
- UTILITIES SHOWN IN ELEVATION FOR INFORMATION ONLY.

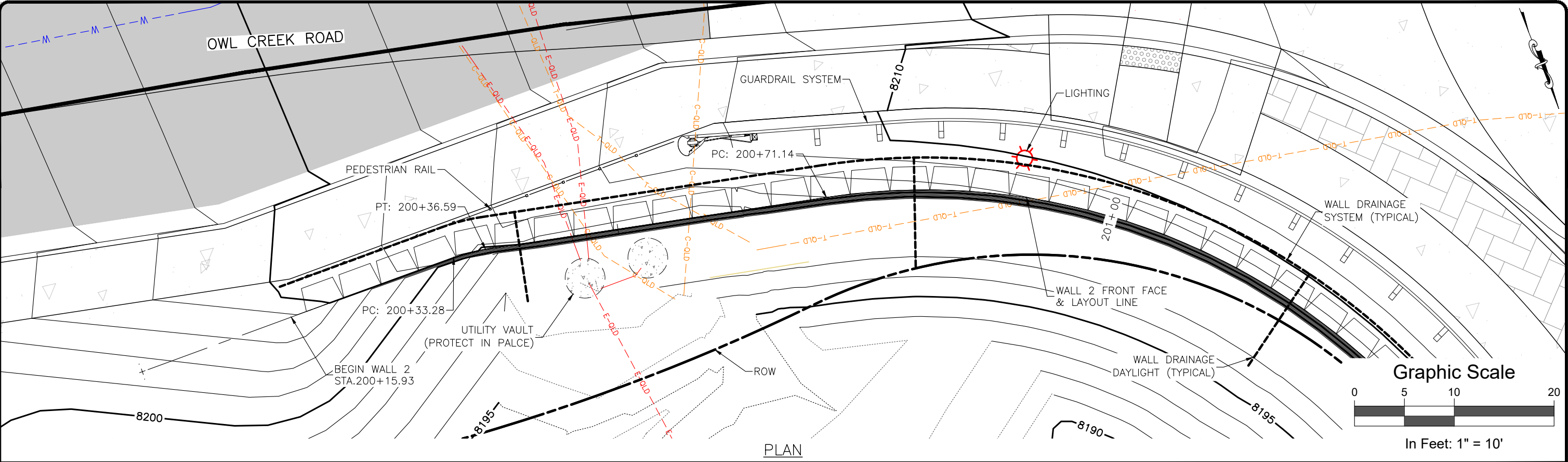


WALL 1 ELEVATION  
(EXISTING WALL FACE VENEER NOT SHOWN FOR CLARITY)

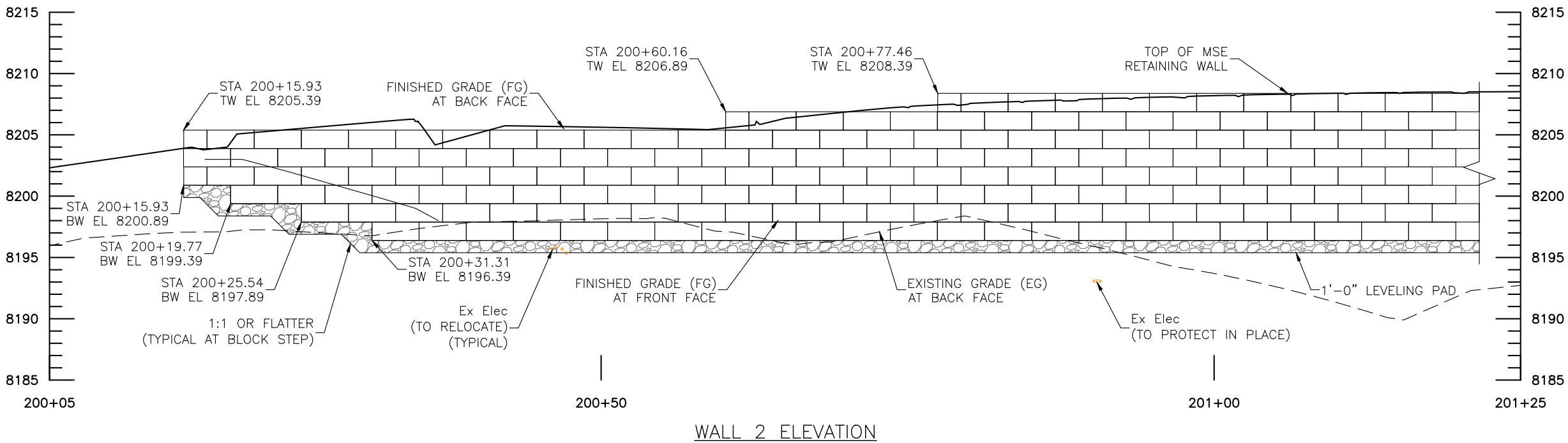
| Computer File Information               |  | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>WALL 1 PLAN & PROFILE |        |                | Project No./Code |                 |
|-----------------------------------------|--|----------------------|------|----------|-------|----------------|--|-------------------------------------------------|--------|----------------|------------------|-----------------|
| Print Date: 4/1/25                      |  | Rev.                 | Date | Comments | Init. | No Revisions:  |  |                                                 |        |                | --               |                 |
| Last Modification Date: 4/1/25          |  | 1                    |      |          |       | Revised:       |  | Engineer:                                       | JNM    | Structure      | --               |                 |
| Drawing File Name: BrushCreekRB_WallP&P |  |                      |      |          |       | Void:          |  | Drawn By:                                       | JNM    | Numbers        | --               |                 |
| Autocad Ver. 2022 Scale: As Shown       |  |                      |      |          |       |                |  | Sheet Subset:                                   | STRUCT | Subset Sheets: | S10 of S22       | Sheet Number 67 |
| SGM Project No.: 91004D-83              |  | Quality Control: MCF |      |          |       |                |  |                                                 |        |                |                  |                 |



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- NOTES
1. SEE SHEETS S15-S19 FOR WALL DETAILS.
  2. UTILITIES SHOWN IN ELEVATION FOR INFORMATION ONLY.



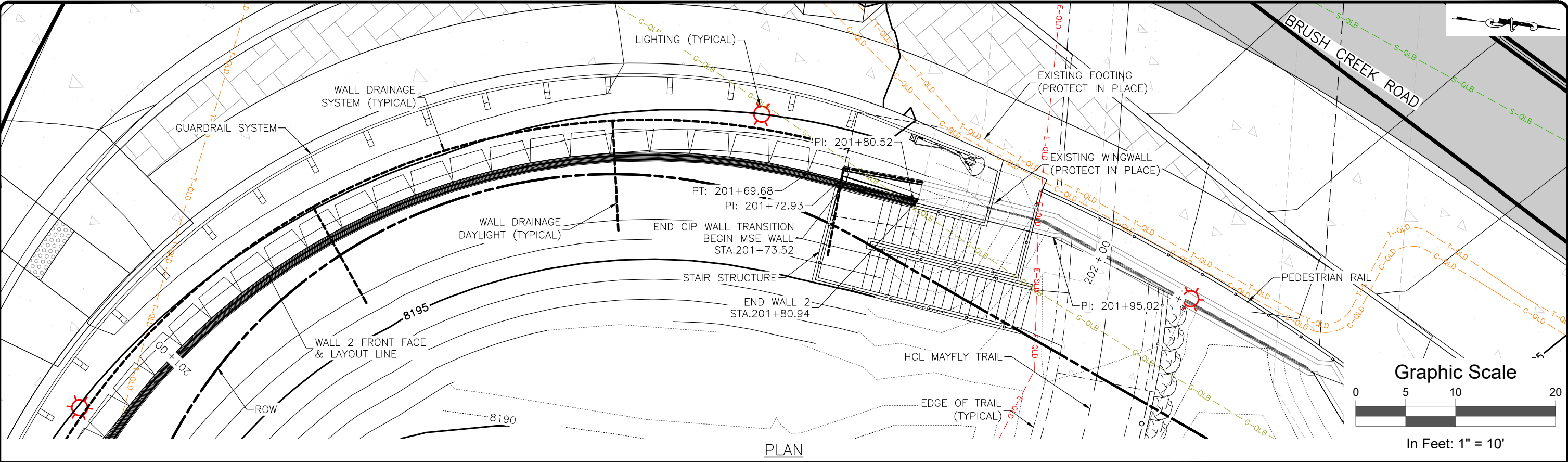
| Computer File Information               |                                   | Sheet Revisions |      |          |       | As Constructed | BRUSH CREEK ROUNDABOUT<br>WALL 2 PLAN & PROFILE (1 OF 2) |        |                   | Project No./Code |                 |
|-----------------------------------------|-----------------------------------|-----------------|------|----------|-------|----------------|----------------------------------------------------------|--------|-------------------|------------------|-----------------|
| Print Date: 4/1/25                      | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                | Engineer:                                                | JNM    | Structure Numbers | --               | --              |
| Drawing File Name: BrushCreekRB_WallP&P | Autocad Ver. 2022 Scale: As Shown | 1               |      |          |       | No Revisions:  | Drawn By:                                                | JNM    |                   | --               | --              |
| SGM Project No.: 91004D-83              | Quality Control: MCF              |                 |      |          |       | Revised:       | Sheet Subset:                                            | STRUCT | Subset Sheets:    | S11 of S23       | Sheet Number 68 |
|                                         |                                   |                 |      |          |       | Void:          |                                                          |        |                   |                  |                 |



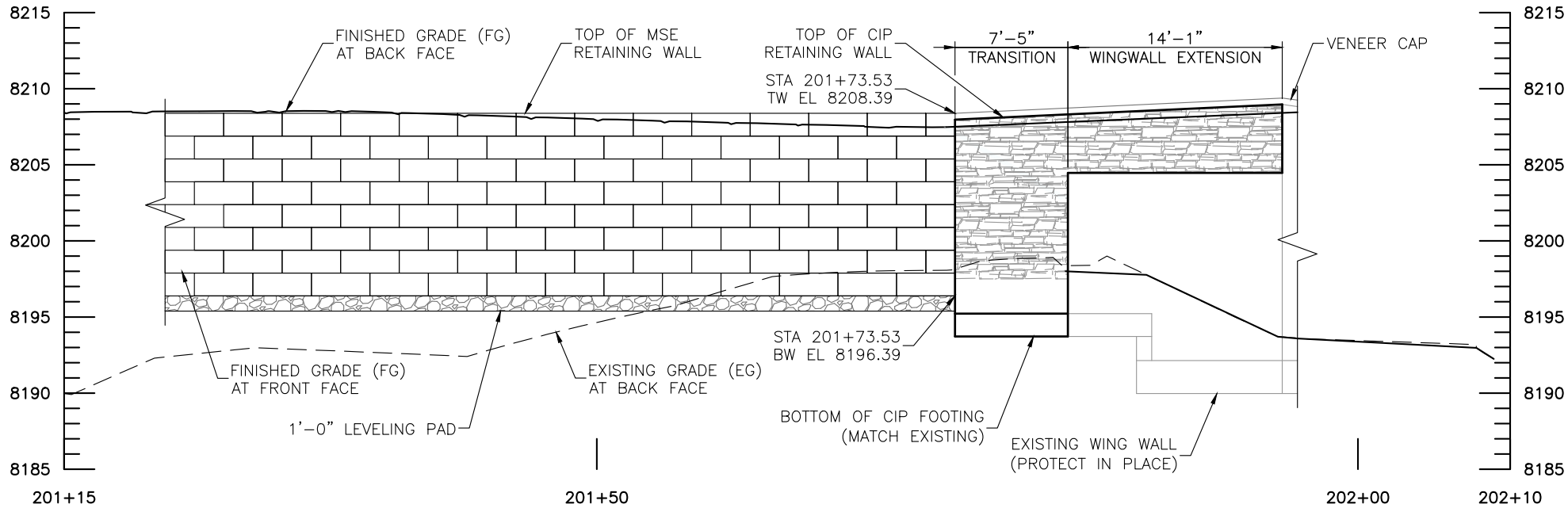
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- NOTES**
- SEE SHEETS S15-S19 FOR WALL DETAILS.
  - UTILITIES SHOWN IN ELEVATION FOR INFORMATION ONLY.

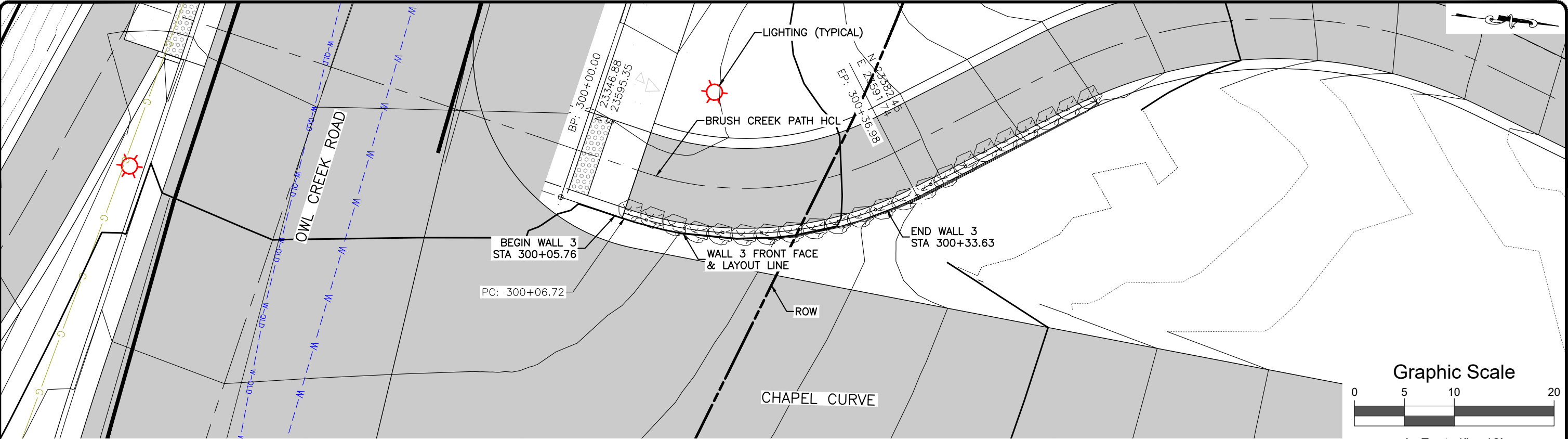


**WALL 2 ELEVATION**  
(EXISTING WALL FACE VENEER NOT SHOWN FOR CLARITY)

| Computer File Information               |  | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>WALL 2 PLAN & PROFILE (2 OF 2) |  |  | Project No./Code          |  |
|-----------------------------------------|--|----------------------|------|----------|-------|----------------|--|----------------------------------------------------------|--|--|---------------------------|--|
| Print Date: 4/1/25                      |  | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer: JNM                                            |  |  | --                        |  |
| Last Modification Date: 4/1/25          |  | 1                    |      |          |       | Revised:       |  | Structure Numbers                                        |  |  | --                        |  |
| Drawing File Name: BrushCreekRB_WallP&P |  |                      |      |          |       | Void:          |  | Drawn By: JNM                                            |  |  | --                        |  |
| Autocad Ver. 2022 Scale: As Shown       |  |                      |      |          |       |                |  | Sheet Subset: STRUCT                                     |  |  | Subset Sheets: S12 of S23 |  |
| SGM Project No.: 91004D-83              |  | Quality Control: MCF |      |          |       |                |  |                                                          |  |  | Sheet Number 69           |  |

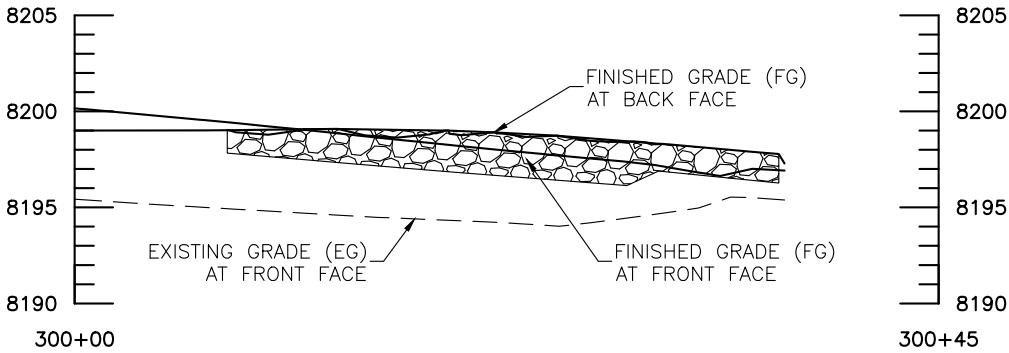


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PLAN

- NOTES
- 1. SEE SHEETS S15–S19 FOR WALL DETAILS.
  - 2. UTILITIES SHOWN IN ELEVATION FOR INFORMATION ONLY.



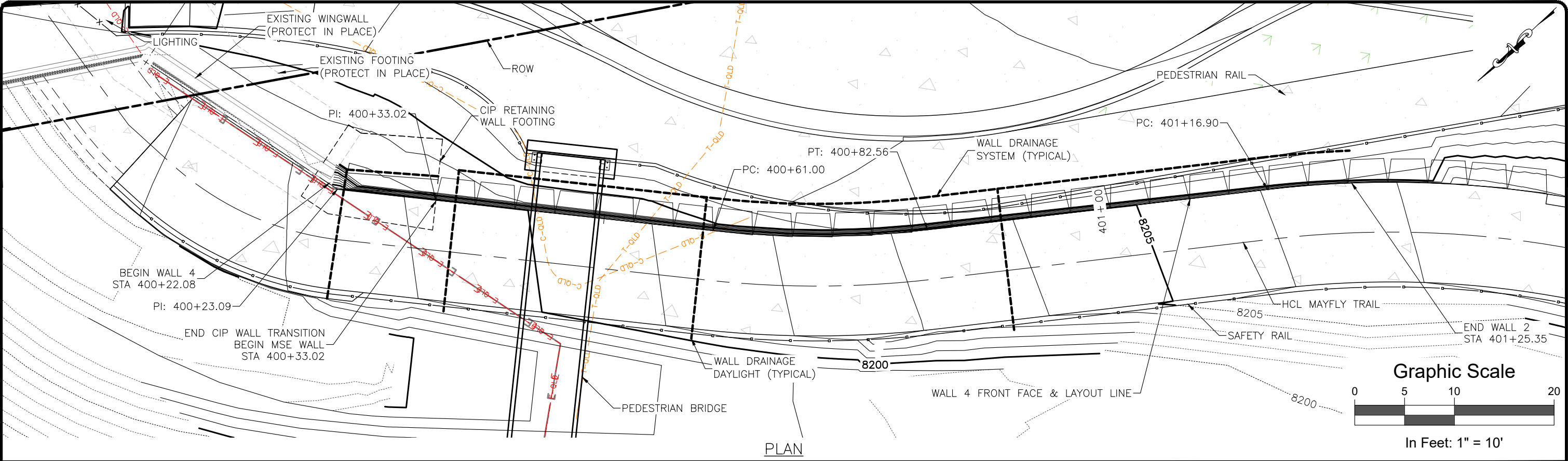
WALL 3 ELEVATION

| Computer File Information                                            |  | Sheet Revisions                |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>WALL 3 PLAN & PROFILE |        |                | Project No./Code |                      |
|----------------------------------------------------------------------|--|--------------------------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-------------------------------------------------|--------|----------------|------------------|----------------------|
| Print Date: 4/1/25                                                   |  | Rev.                           | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                         | No Revisions:  |  |                                                 |        |                | --               |                      |
| Last Modification Date: 4/1/25                                       |  | <input type="text" value="1"/> |      |          |       |                                                                                                                                           |                                                                                                                                                                                         | Revised:       |  | Engineer:                                       | JNM    | Structure      | --               | --                   |
| Drawing File Name: BrushCreekRB_WallP&P                              |  | <input type="text"/>           |      |          |       |                                                                                                                                           |                                                                                                                                                                                         | Void:          |  | Drawn By:                                       | JNM    | Numbers        | --               |                      |
| Autocad Ver. 2022      Scale: As Shown                               |  | <input type="text"/>           |      |          |       |                                                                                                                                           |                                                                                                                                                                                         |                |  | Sheet Subset:                                   | STRUCT | Subset Sheets: | S13 of S23       | Sheet Number      70 |
| SGM Project No.: 91004D-83                      Quality Control: MCF |  | <input type="text"/>           |      |          |       |                                                                                                                                           |                                                                                                                                                                                         |                |  |                                                 |        |                |                  |                      |

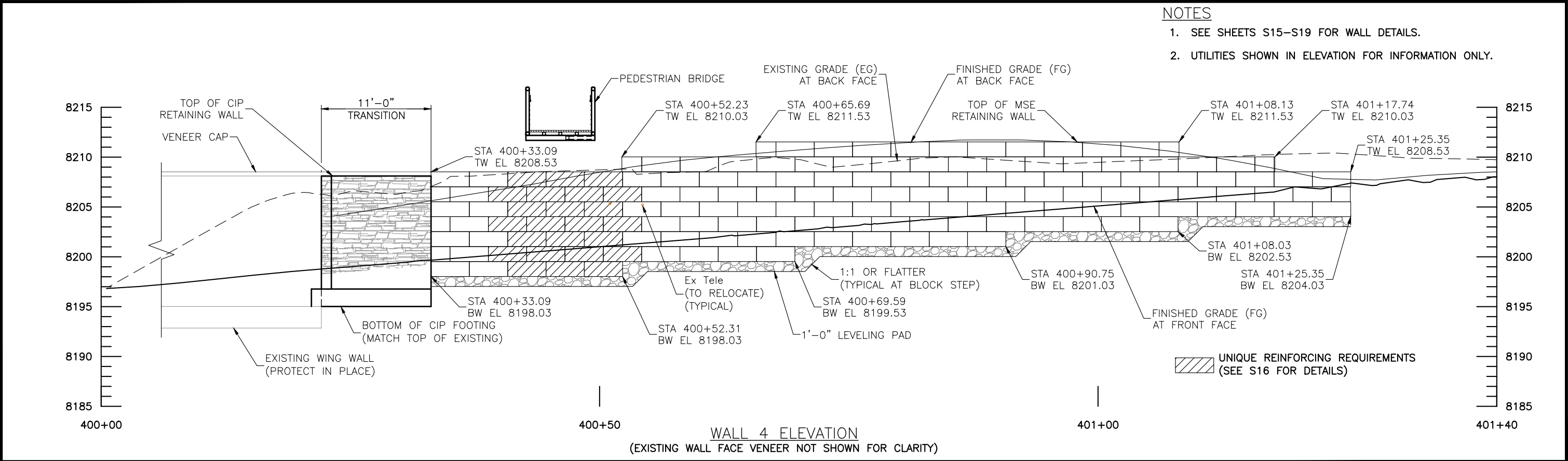




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- NOTES
- SEE SHEETS S15-S19 FOR WALL DETAILS.
  - UTILITIES SHOWN IN ELEVATION FOR INFORMATION ONLY.



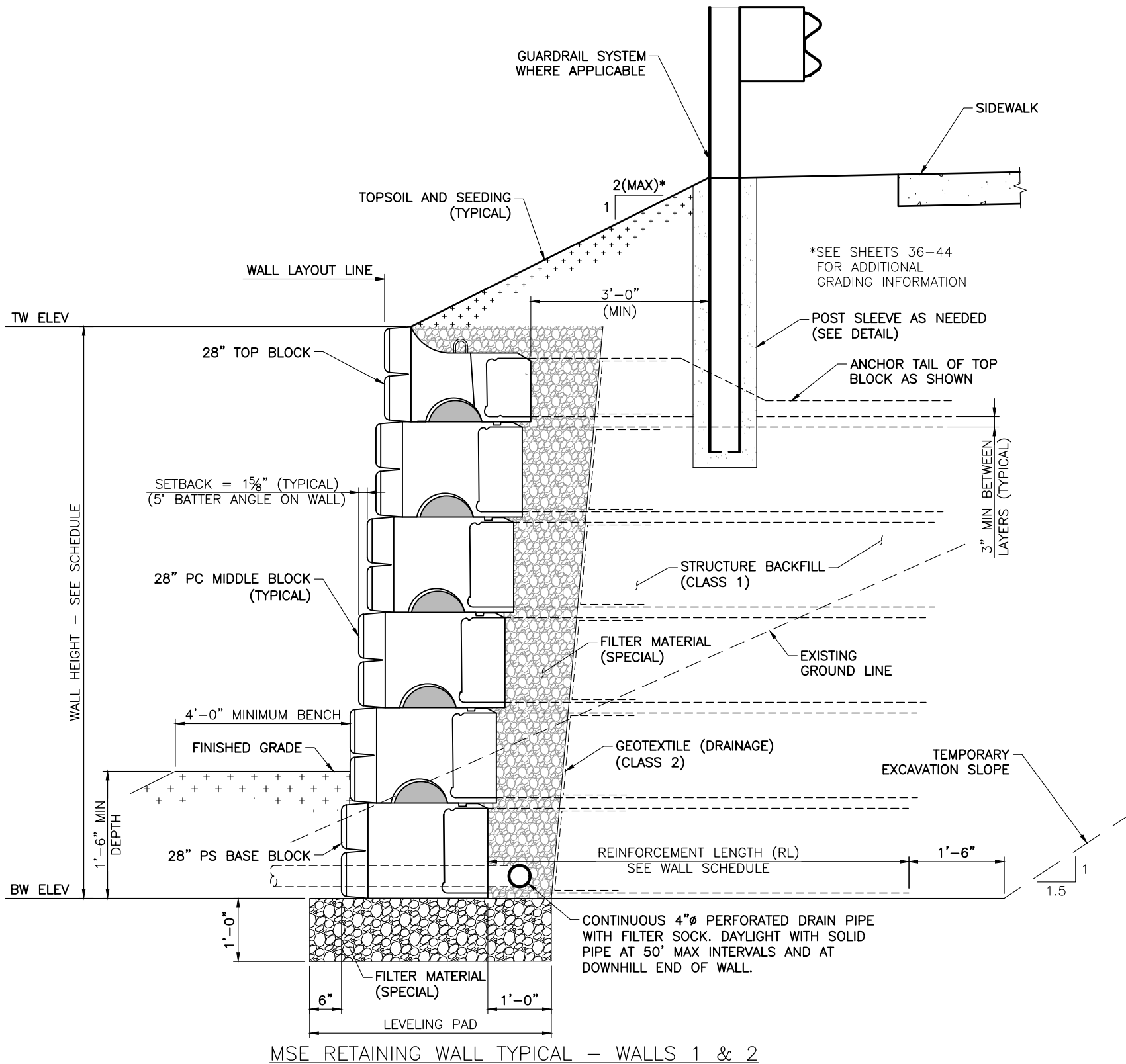
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|-----------------------------------------|-----------------|----------------------|------|----------|-------|----------------|--|-------------------------------------------------|--------|----------------|------------------|-----------------|
| Print Date: 4/1/25                      |                 | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer:                                       | JNM    | Structure      | --               | --              |
| Last Modification Date: 4/1/25          |                 | 1                    |      |          |       | Revised:       |  | Drawn By:                                       | JNM    | Numbers        | --               | --              |
| Drawing File Name: BrushCreekRB_WallP&P |                 |                      |      |          |       | Void:          |  | Sheet Subset:                                   | STRUCT | Subset Sheets: | S14 of S23       | Sheet Number 71 |
| Autocad Ver. 2022                       | Scale: As Shown |                      |      |          |       |                |  |                                                 |        |                |                  |                 |
| SGM Project No.: 91004D-83              |                 | Quality Control: MCF |      |          |       |                |  |                                                 |        |                |                  |                 |

Town of  
**SNOWMASS** Village

**SGM**  
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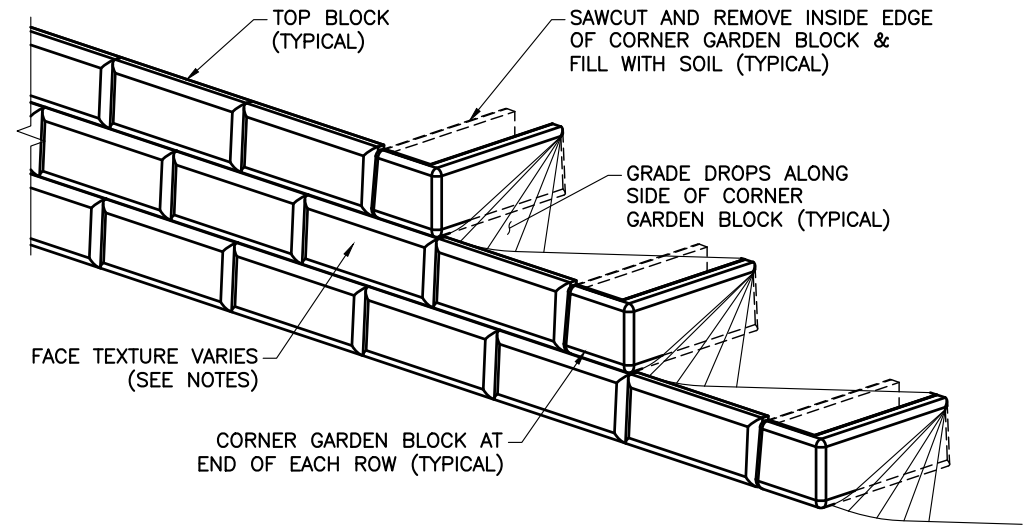


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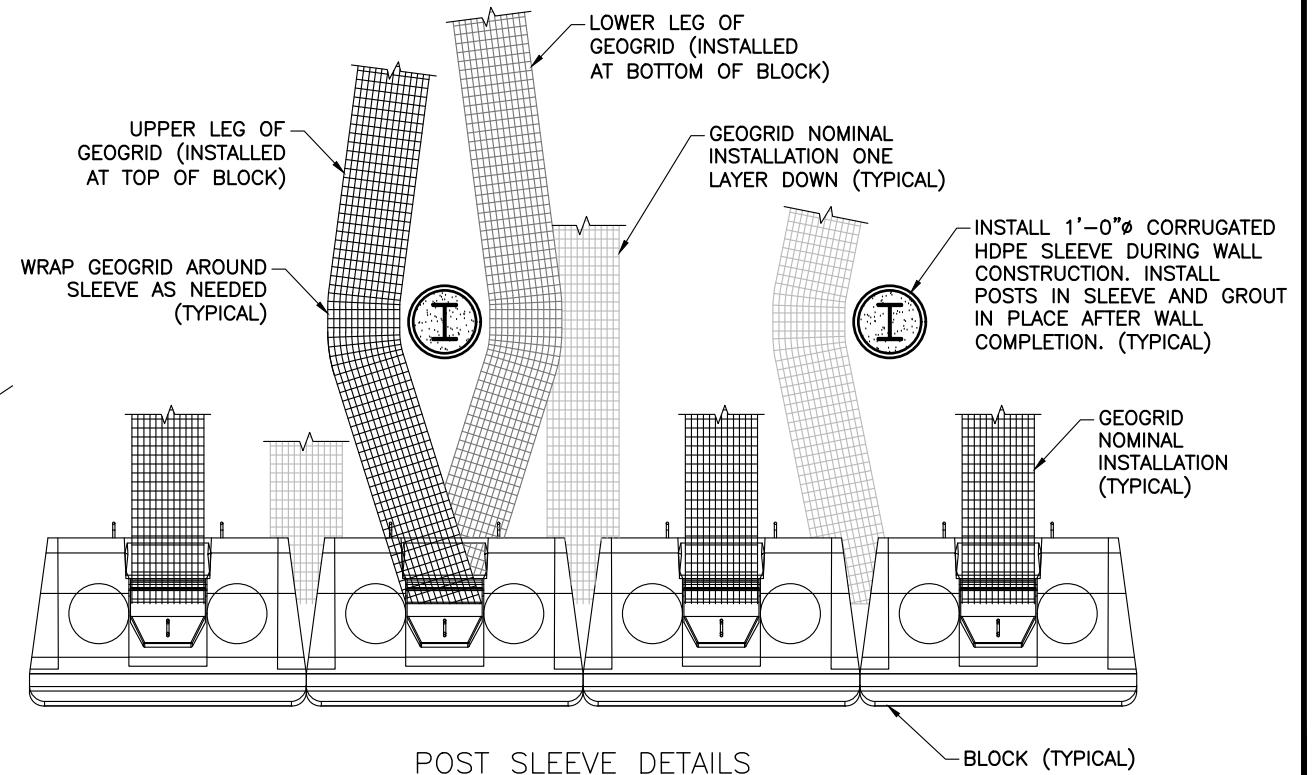


NOTES:

1. SEE SHEETS S10-S14 FOR WALL PLAN AND PROFILES.
2. SEE S16 FOR MSE BLOCK WALL SCHEDULE.
3. MSE BLOCK FACE TEXTURE SHALL BE REDI-ROCK® LEDGERSTONE OR SIMILAR WITH ENGINEER APPROVAL.
4. SEE S20 FOR SIDEWALK AND TRAIL STRUCTURAL DETAILS.
5. SEE S21-S23 FOR RAILING DETAILS.
6. GROUT, AS NEEDED, SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI.



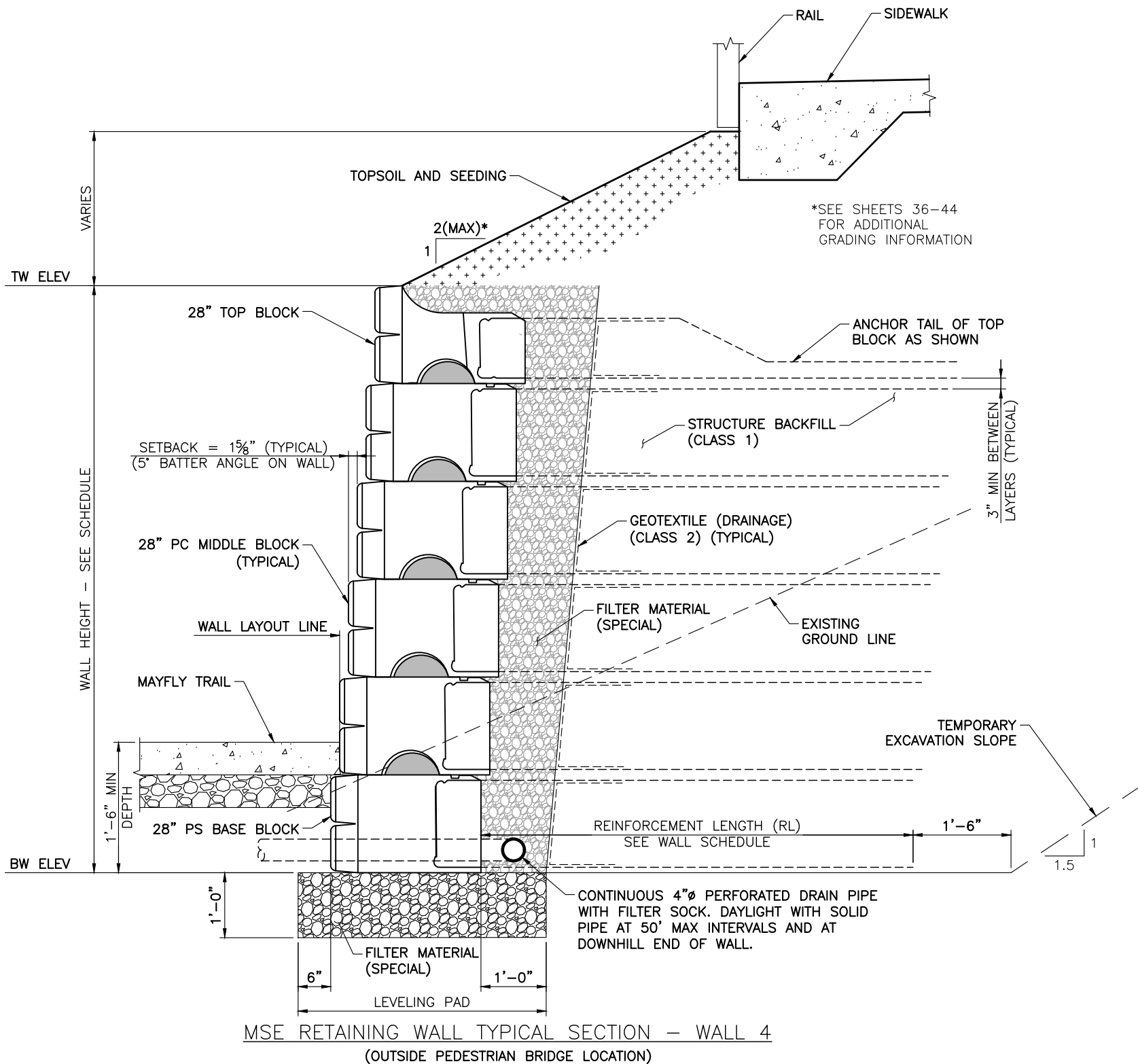
BLOCK WALL STEP DETAIL



| Computer File Information |                                |                                 | Sheet Revisions   |               |                            |                      | As Constructed |       | BRUSH CREEK ROUNDABOUT<br>WALL DETAILS (1 OF 3) |               |                           | Project No./Code |    |
|---------------------------|--------------------------------|---------------------------------|-------------------|---------------|----------------------------|----------------------|----------------|-------|-------------------------------------------------|---------------|---------------------------|------------------|----|
| Print Date: 4/1/25        | Last Modification Date: 4/1/25 | Drawing File Name: Wall_Details | Autocad Ver. 2022 | Scale: NTS    | SGM Project No.: 91004D-83 | Quality Control: MCF |                |       |                                                 |               |                           |                  |    |
| Rev.                      | Date                           | Comments                        | Init.             | No Revisions: |                            | Revised:             |                | Void: |                                                 | Engineer: JNM | Structure Numbers         | --               | -- |
| 1                         |                                |                                 |                   |               |                            |                      |                |       |                                                 | Drawn By: JNM | Subset Sheets: S15 of S23 | Sheet Number     | 72 |



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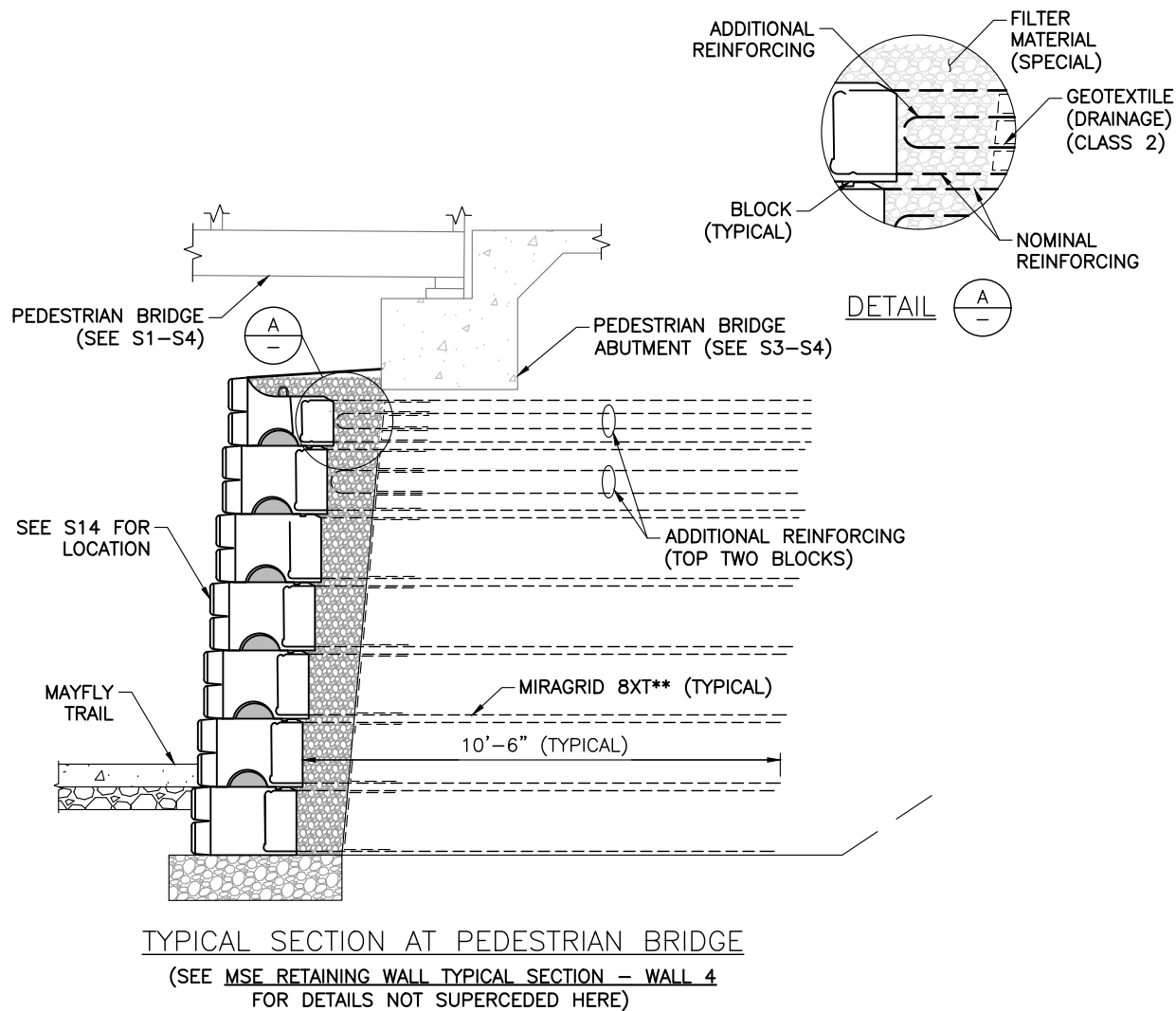
NOTES:

1. SEE SHEETS S10-S14 FOR WALL PLAN AND PROFILES.
2. MSE BLOCK FACE TEXTURE SHALL BE REDI-ROCK® LEDGERSTONE OR SIMILAR WITH ENGINEER APPROVAL.
3. SEE S20 FOR SIDEWALK AND TRAIL STRUCTURAL DETAILS.
4. SEE S21-S23 FOR RAILING DETAILS.

MSE BLOCK WALL SCHEDULE

| WALL HEIGHT (FT) | BLOCK TYPE & QUANTITY |            |         | LENGTH (RL) | REINFORCEMENT                        |                                      |
|------------------|-----------------------|------------|---------|-------------|--------------------------------------|--------------------------------------|
|                  | BOTTOM                | MIDDLE     | TOP     |             | TYPE & LOCATION                      |                                      |
| 3.0              | 28" PC BTM            | -          | 28" TOP | 6'-0"       | MIRAGRID 5XT** - ALL PC BLOCKS       |                                      |
| 4.5              | 28" PC BTM            | (1) 28" PC | 28" TOP | 6'-0"       | MIRAGRID 5XT** - ALL PC BLOCKS       |                                      |
| 6.0              | 28" PC BTM            | (2) 28" PC | 28" TOP | 6'-0"       | MIRAGRID 5XT** - ALL PC BLOCKS       |                                      |
| 7.5              | 28" PC BTM            | (3) 28" PC | 28" TOP | 7'-6"       | MIRAGRID 5XT** - ALL PC BLOCKS       |                                      |
| 9.0              | 28" PC BTM            | (4) 28" PC | 28" TOP | 9'-0"       | MIRAGRID 5XT** - ALL PC BLOCKS       |                                      |
| 10.5             | 28" PC BTM            | (5) 28" PC | 28" TOP | 10'-6"      | MIRAGRID 5XT** - UPPER (6) PC BLOCKS | MIRAGRID 8XT** - LOWER (1) PC BLOCK  |
| 12.0             | 28" PC BTM            | (6) 28" PC | 28" TOP | 12'-0"      | MIRAGRID 5XT** - UPPER (6) PC BLOCKS | MIRAGRID 8XT** - LOWER (2) PC BLOCKS |

\*\* OR APPROVED EQUAL



Computer File Information

|                                 |
|---------------------------------|
| Print Date: 4/1/25              |
| Last Modification Date: 4/1/25  |
| Drawing File Name: Wall_Details |
| Autocad Ver. 2022 Scale: NTS    |
| SGM Project No.: 91004D-83      |

Sheet Revisions

| Rev. | Date | Comments | Init. |
|------|------|----------|-------|
| 1    |      |          |       |
|      |      |          |       |
|      |      |          |       |
|      |      |          |       |



As Constructed

|               |
|---------------|
| No Revisions: |
| Revised:      |
| Void:         |

BRUSH CREEK ROUNDABOUT  
WALL DETAILS (2 OF 3)

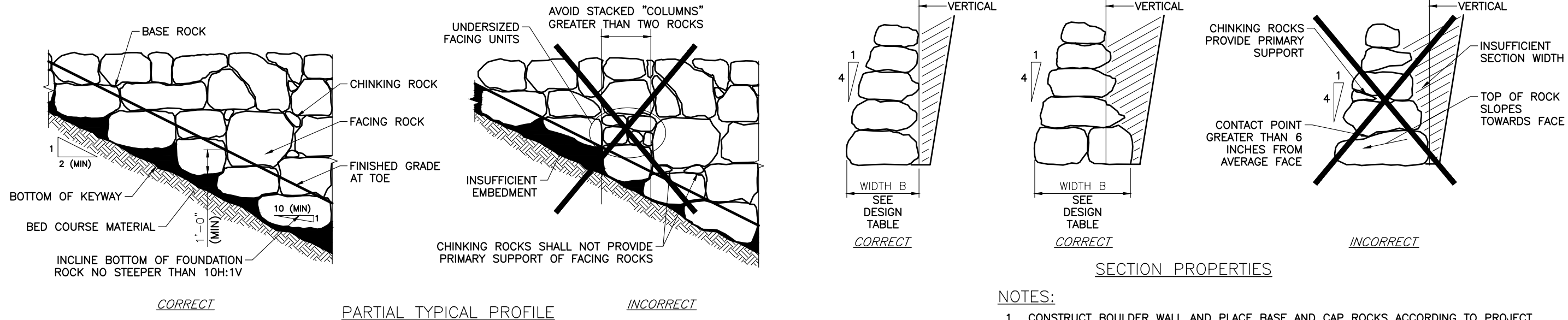
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| Engineer:     | JNM    | Structure      | --         |
| Drawn By:     | JNM    | Numbers        | --         |
| Sheet Subset: | STRUCT | Subset Sheets: | S16 of S23 |

Project No./Code

|                 |
|-----------------|
| --              |
| --              |
| Sheet Number 73 |

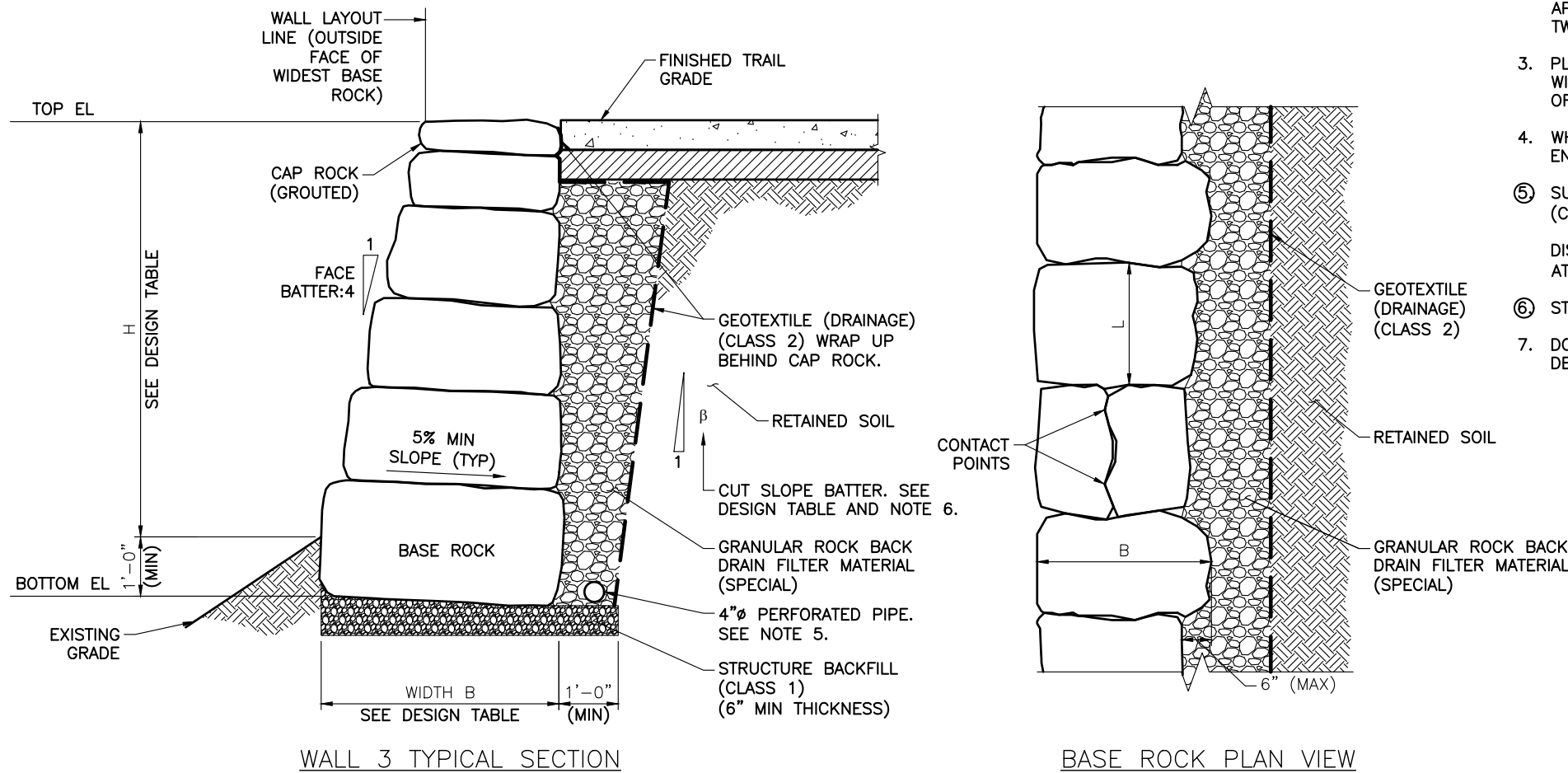


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**NOTES:**

1. CONSTRUCT BOULDER WALL AND PLACE BASE AND CAP ROCKS ACCORDING TO PROJECT SPECIFICATIONS. PLACE EACH ROCK INDIVIDUALLY BY EQUIPMENT SUITABLE FOR LIFTING, MANIPULATING, AND PLACING ROCKS OF THE SIZE AND SHAPE SPECIFIED. ENSURE THAT EACH ROCK IS FIRMLY SET AND SUPPORTED BY UNDERLYING MATERIALS AND ADJACENT ROCKS. REPOSITION OR REPLACE LOOSE ROCKS.
2. A MAXIMUM TOLERANCE OF 6 INCHES MAY BE APPLIED TO THE TOTAL BASE ROCK WIDTH. USE ROCK WITH MINIMUM L OF B-6". WHEN BASE ROCK WIDTH (B) EXCEEDS 5'-6", TWO APPROXIMATELY EQUAL SIZE BASE ROCKS MAY BE USED, PROVIDED ROCKS ARE IN CONTACT AT TWO POINTS OR MORE. DO NOT CONSECUTIVELY PLACE BASE ROCKS WITH WIDTHS LESS THAN B.
3. PLACE BASE AND CAP ROCKS SO THAT THEIR HEIGHT DIMENSION IS NOT GREATER THAN THEIR WIDTH. THE LONGEST DIMENSION OF THE BASE AND CAP ROCKS IS PERPENDICULAR TO THE FACE OF ROCKERY.
4. WHERE LOOSE, SOFT, OR OTHERWISE UNSUITABLE FOUNDATION SOIL CONDITIONS ARE ENCOUNTERED, CONTACT THE ENGINEER FOR SUPPLEMENTAL RECOMMENDATIONS.
5. SURROUND THE PERFORATED PIPE ON ALL SIDES BY AT LEAST 4 INCHES OF FILTER MATERIAL (CLASS A).  
DISCHARGE OUTLET PIPES TO A PROTECTED OUTLET OR OTHER PERMANENT DRAINAGE STRUCTURE AT LOW POINTS IN THE ROCKERY AND AT 100 FEET (MAXIMUM) SPACING.
6. STABILITY OF TEMPORARY CUT SLOPES IS THE RESPONSIBILITY OF THE CONTRACTOR.
7. DO NOT CONSTRUCT BOULDER WALLS OR SLOPES EXCEEDING THE HEIGHTS SHOWN ON THE DESIGN TABLE WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER.



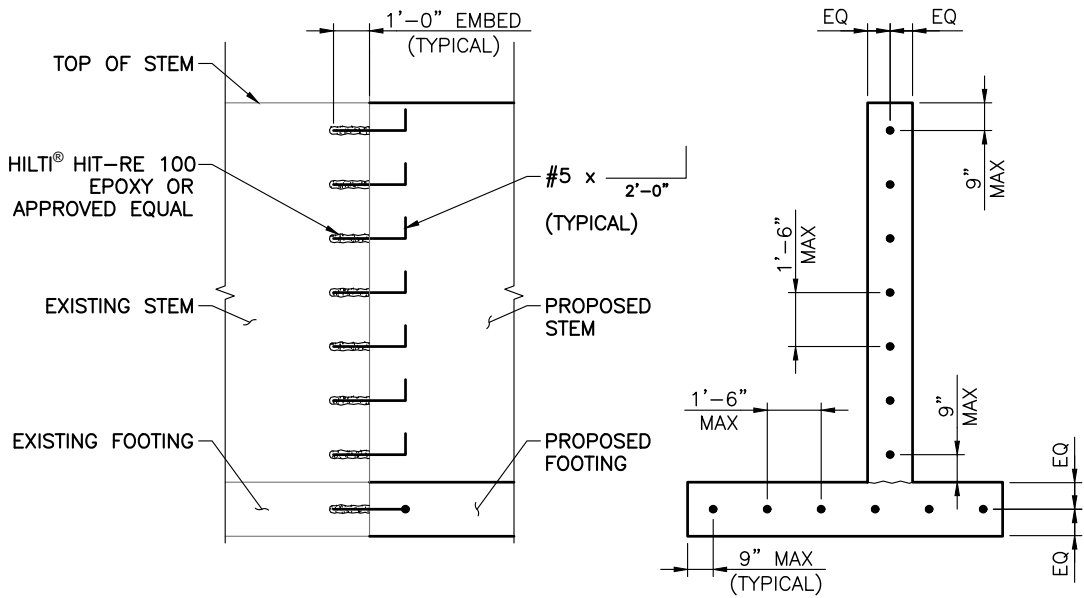
| DESIGN TABLE |                   |                            |                                         |                      |           |
|--------------|-------------------|----------------------------|-----------------------------------------|----------------------|-----------|
| WALL NO      | MAX HEIGHT H (FT) | MIN BASE ROCK WIDTH B (FT) | MIN CUT <sup>(A)</sup> SLOPE BATTER V:H | MIN ROCK WEIGHT (LB) |           |
|              |                   |                            |                                         | CAP ROCK             | BASE ROCK |
| 3            | 2.0               | 2.0                        | 8:1                                     | 200                  | 1000      |

**DESIGN DATA:**  
FRICTION ANGLE,  $\phi = 29^\circ$  (RETAINED SOIL)  
COHESION,  $c = 0.0$  PSF (RETAINED SOIL)  
SOIL UNIT WEIGHT,  $\gamma_s = 131$  PCF (RETAINED SOIL)  
ROCK UNIT WEIGHT,  $\gamma_R = 150$  PCF  
ALLOWABLE BEARING PRESSURE = 2000 PSF  
<sup>(A)</sup> MINIMUM CUT SLOPE FOR DESIGN PURPOSES ONLY.  
ACTUAL CUT SLOPE BATTER MAY BE GREATER <sup>(6)</sup>

| Computer File Information       |                      | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004   www.sgm-inc.com | As Constructed       |                           | BRUSH CREEK ROUNDABOUT<br>WALL DETAILS (3 OF 3) |           |    | Project No./Code |  |
|---------------------------------|----------------------|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|-------------------------------------------------|-----------|----|------------------|--|
| Print Date: 4/1/25              |                      | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                           | No Revisions:        |                           |                                                 |           |    | --               |  |
| Last Modification Date: 4/1/25  |                      | 1               |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                      |                           |                                                 |           |    |                  |  |
| Drawing File Name: Wall_Details |                      |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Revised:             |                           | Engineer: JNM                                   | Structure | -- | --               |  |
| Autocad Ver. 2022    Scale: NTS |                      |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Void:                |                           | Drawn By: NPC                                   | Numbers   | -- |                  |  |
| SGM Project No.: 91004D-83      | Quality Control: MCF |                 |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Sheet Subset: STRUCT | Subset Sheets: S17 of S23 | Sheet Number 74                                 |           |    |                  |  |

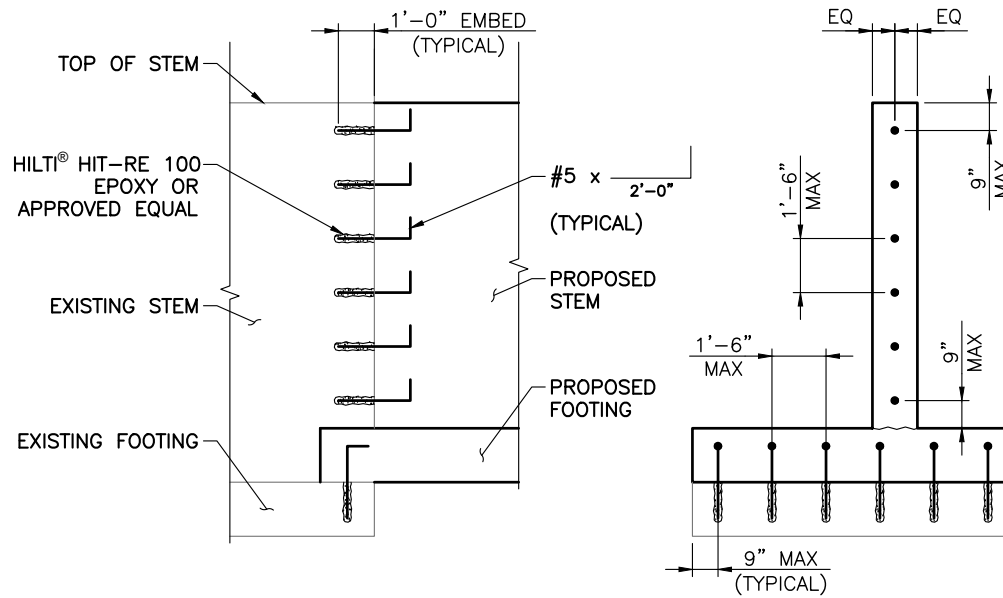


I:\1991\91004\DWG-83 - OWL CREEK ROUNDABOUT\H-DWG\STRUC\ROUNDABOUT PROJECT\PS-SHEETSET\CIP\_PLAN\_DETAILS.DWG Plotted: 4/1/2025 9:47 AM By: Eric Mahoney



WALLS 1 AND 2

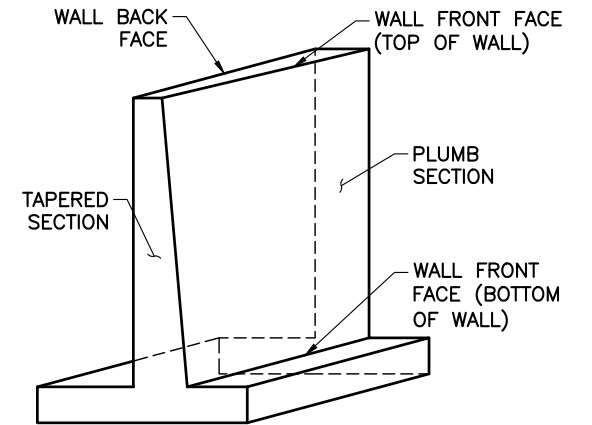
DOWL CONNECTION DETAILS



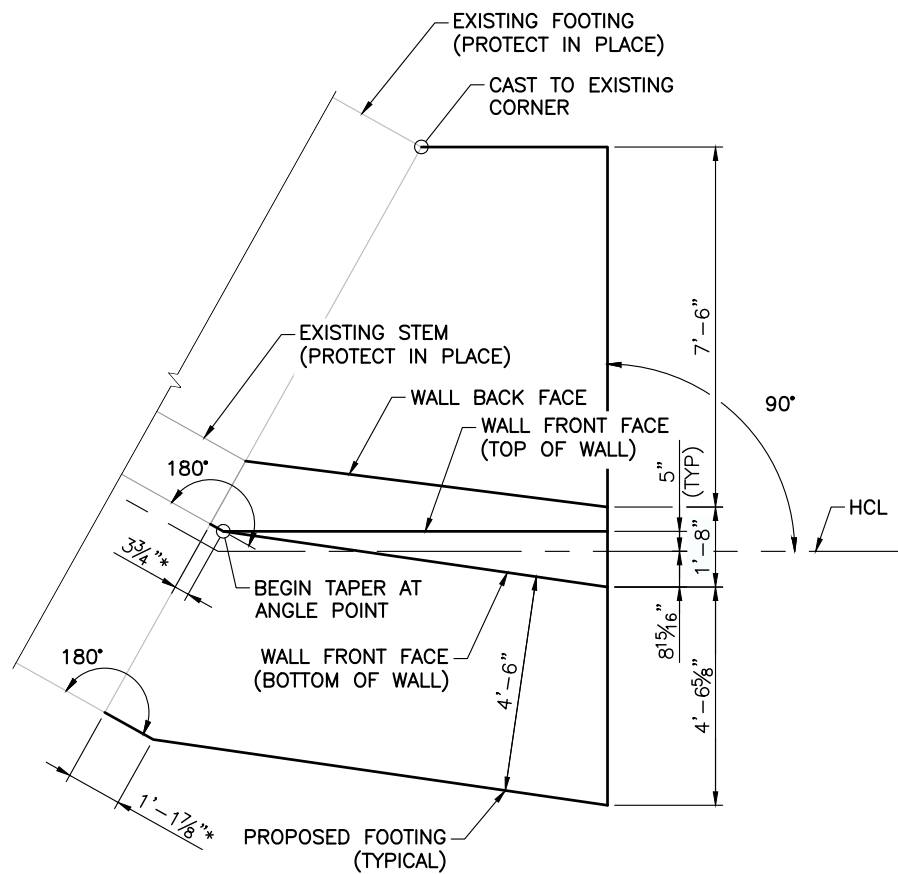
WALL 4

NOTES:

1. SEE SHEETS S10-S14 FOR WALL PLAN AND PROFILES.
2. SEE SHEET S19 FOR CIP WALL SCHEDULE.
3. SEE SHEETS S19 FOR VENEER DETAILS.
4. CONCRETE SHALL BE CDOT CLASS D.
5. EXPOSED CORNERS SHALL BE CHAMFERED  $\frac{3}{4}$ ".
6. PROVIDE 2" CLEAR COVER UNLESS NOTED OTHERWISE.
7. DIMENSIONS MARKED WITH A \* INDICATE THEY ARE DEPENDENT ON IN-FIELD CONDITION AND MAY REQUIRE ADDITIONAL COORDINATION WITH ENGINEER.

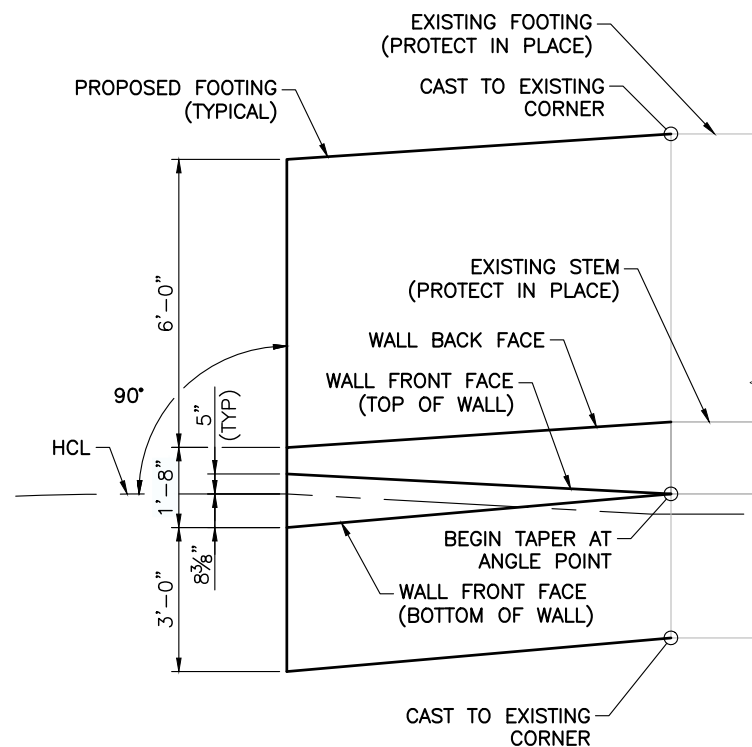


WALL TAPER DETAILS



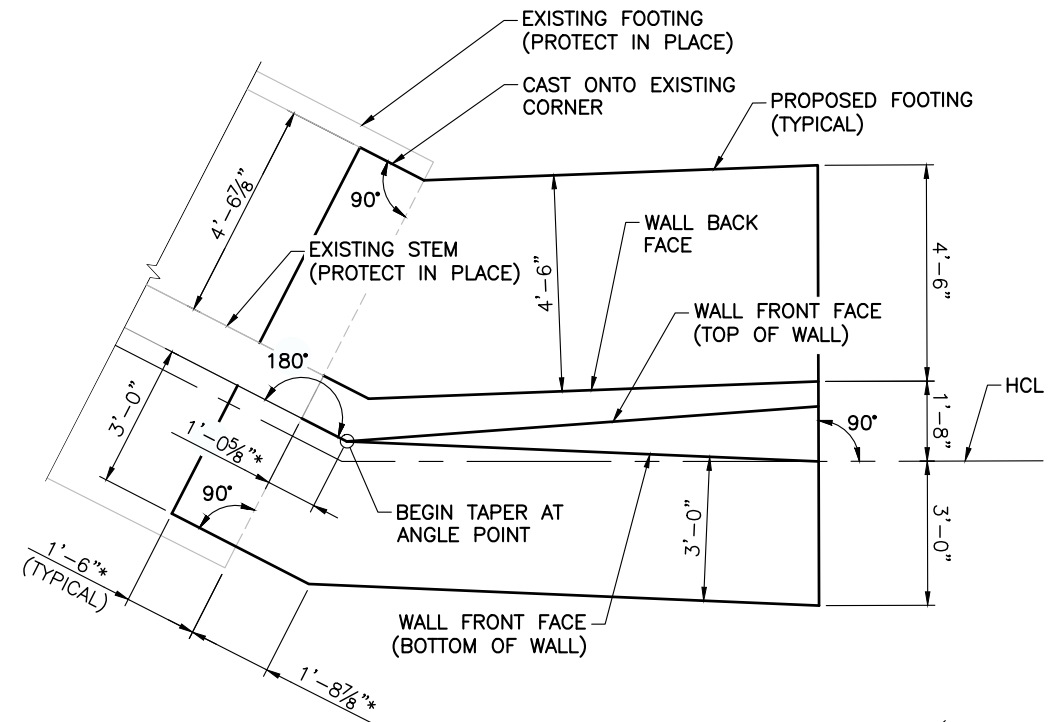
WALL 1 TRANSITION PLAN

NTS



WALL 2 TRANSITION PLAN

NTS



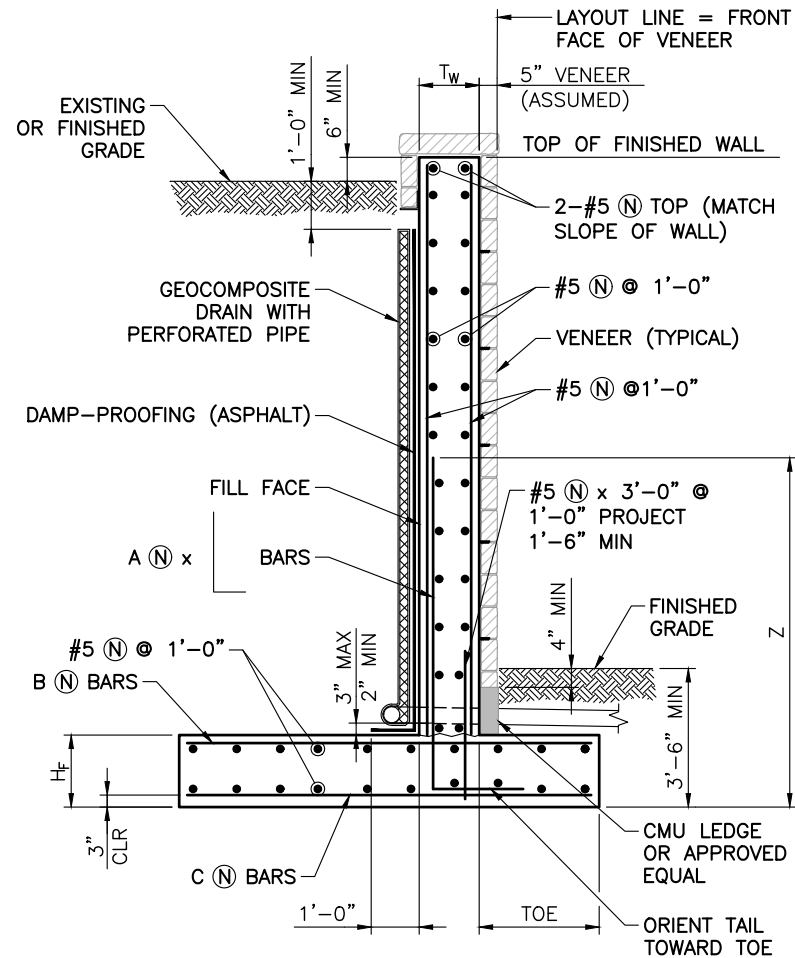
WALL 4 TRANSITION PLAN

NTS

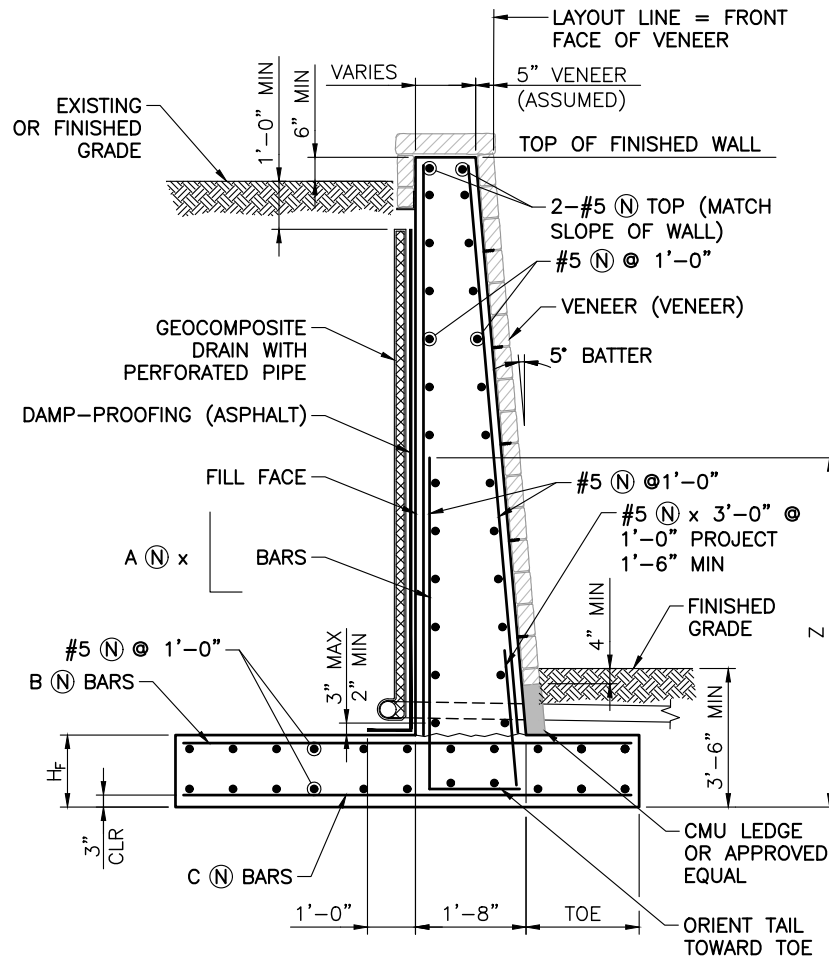
| Computer File Information           |            | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>TRANSITION DETAILS (1 OF 2) |        | Project No./Code |            |
|-------------------------------------|------------|----------------------|------|----------|-------|----------------|--|-------------------------------------------------------|--------|------------------|------------|
| Print Date: 4/1/25                  |            | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer:                                             | JNM    | Structure        | --         |
| Last Modification Date: 4/1/25      |            | 1                    |      |          |       | Revised:       |  | Drawn By:                                             | JNM    | Numbers          | --         |
| Drawing File Name: CIP_Plan_Details |            |                      |      |          |       | Void:          |  | Sheet Subset:                                         | STRUCT | Subset Sheets:   | S18 of S23 |
| Autocad Ver. 2022                   | Scale: NTS |                      |      |          |       |                |  |                                                       |        | Sheet Number     | 75         |
| SGM Project No.: 91004D-83          |            | Quality Control: MCF |      |          |       |                |  |                                                       |        |                  |            |



I:\1991\91004\DWG\STRUCT\ROUNDABOUT PROJECT\PS-SHEETSET\CIP\_PLAN\_DETAILS.DWG Plotted: 4/1/2025 9:47 AM By: Eric Mahoney

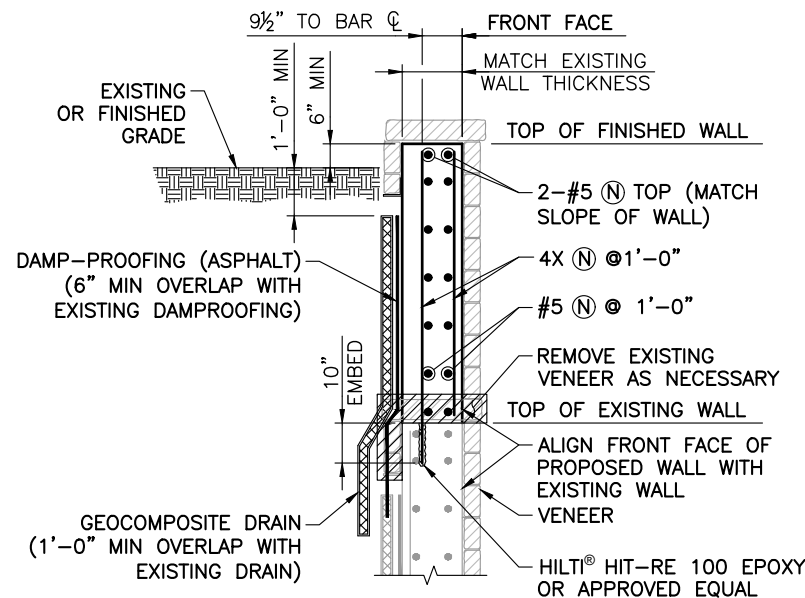
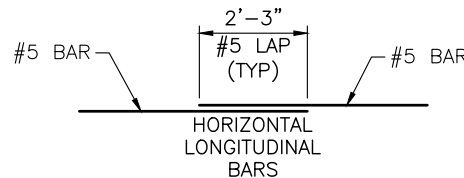


PLUMB SECTION  
(BEGINNING OF TRANSITION)



TAPERED SECTION  
(END OF TRANSITION)

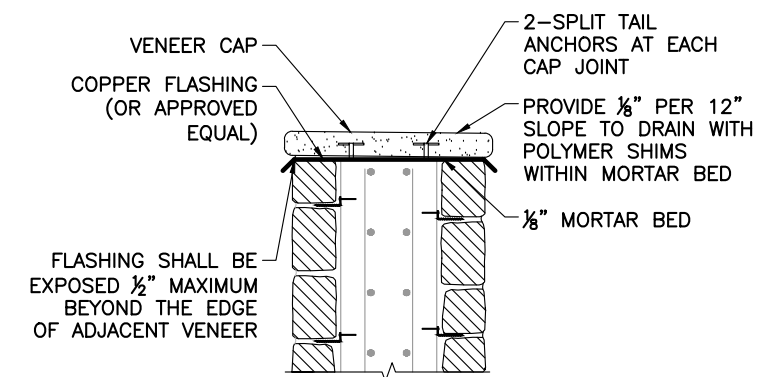
| CIP WALL SCHEDULE   |         |          |          |
|---------------------|---------|----------|----------|
| WALL                | 1       | 2        | 4        |
| H <sub>F</sub> (IN) | 1'-6"   | 1'-9"    | 1'-9"    |
| T <sub>w</sub> (IN) | 1'-6"   | 1'-6"    | 1'-0"    |
| TOE (FT)            | 4'-6"   | 3'-0"    | 3'-0"    |
| A BARS              | #7 @ 9" | #7 @ 9"  | #7 @ 6"  |
| B BARS              | #7 @ 6" | #7 @ 9"  | #7 @ 12" |
| C BARS              | #7 @ 9" | #7 @ 12" | #7 @ 12" |
| Z (FT)              | 4'-3"   | 4'-3"    | 4'-3"    |



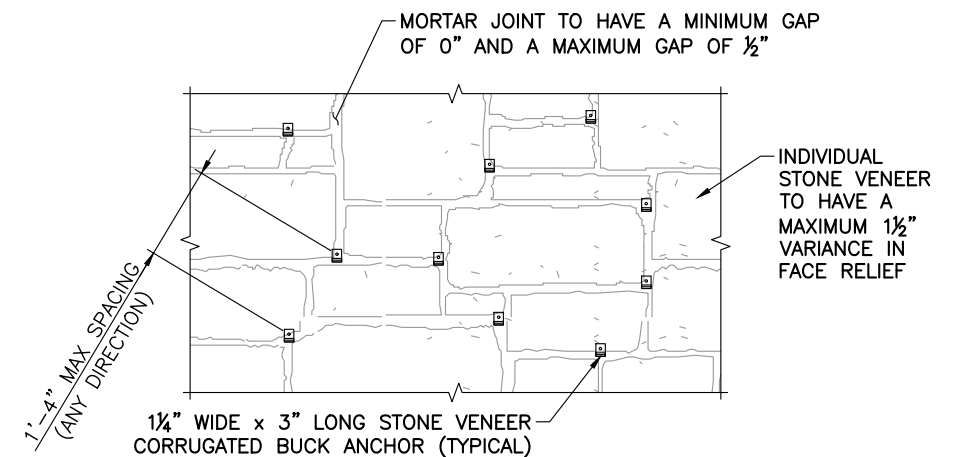
WINGWALL EXTENSION TYPICAL SECTION

#### NOTES:

- SEE SHEETS S10-S14 FOR WALL PLAN AND PROFILES.
- CONCRETE SHALL BE CDOT CLASS D.
- EXPOSED CORNERS SHALL BE CHAMFERED  $\frac{3}{4}$ ".
- PROVIDE 2" CLEAR COVER UNLESS NOTED OTHERWISE.
- GEOMCOMPOSITE 4"Ø DRAIN FOR WALLS SHALL BE PERFORATED DRAIN PIPE WITH FILTER SOCK AND BE DAYLIGHTED.
- THE DIMENSIONS SHOWN IN THE WALL TABLES ARE MINIMUMS. SEE WALL PLAN AND PROFILES FOR ACTUAL GEOMETRY.



VENEER CAP ATTACHMENT DETAIL

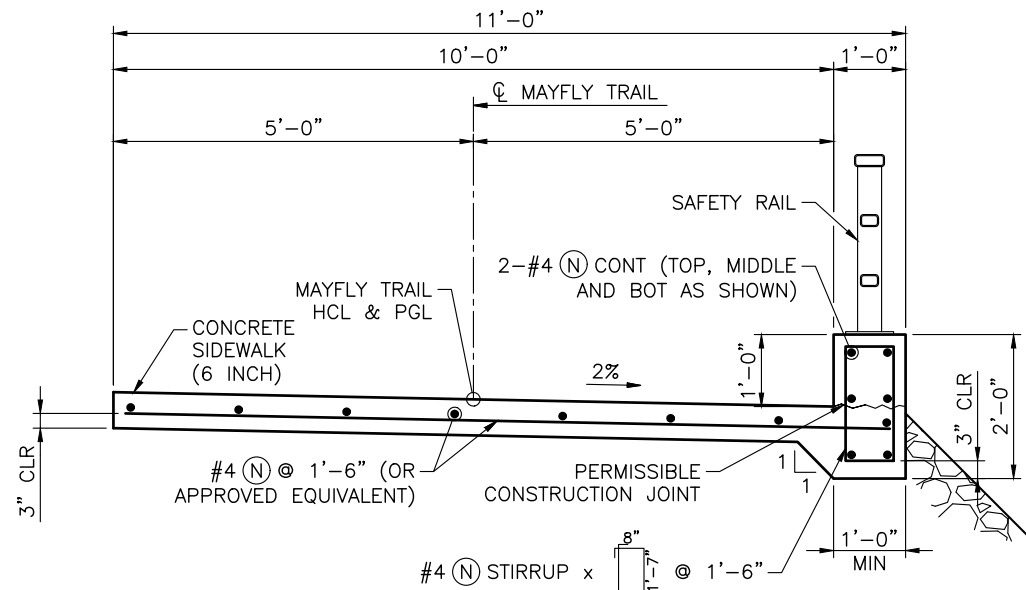


VENEER ATTACHMENT DETAIL

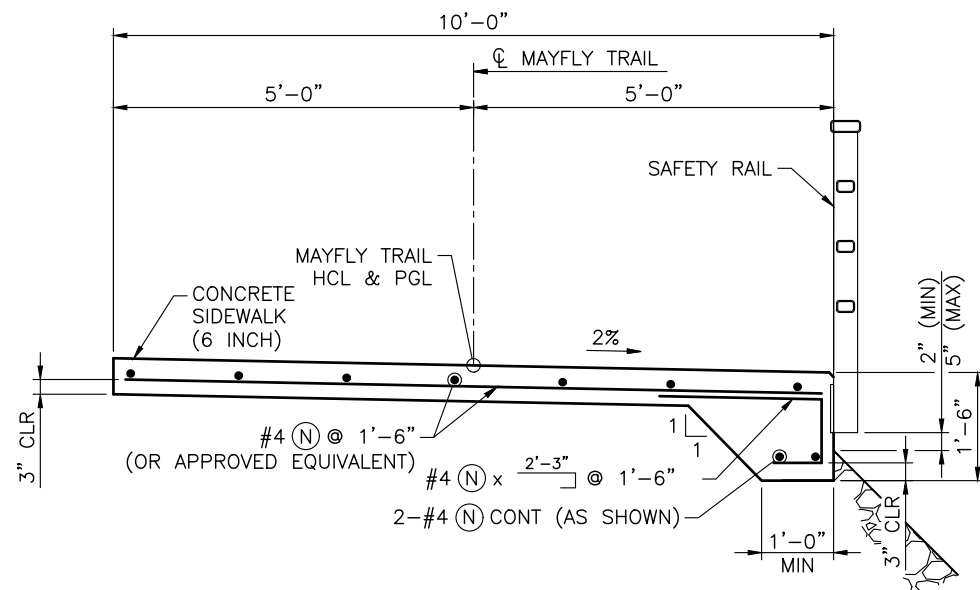
| Computer File Information           |            | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>TRANSITION DETAILS (2 OF 2) |        | Project No./Code |            |
|-------------------------------------|------------|----------------------|------|----------|-------|----------------|--|-------------------------------------------------------|--------|------------------|------------|
| Print Date: 4/1/25                  |            | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer:                                             | JNM    | Structure        | --         |
| Last Modification Date: 4/1/25      |            | 1                    |      |          |       | Revised:       |  | Drawn By:                                             | JNM    | Numbers          | --         |
| Drawing File Name: CIP_Plan_Details |            |                      |      |          |       | Void:          |  | Sheet Subset:                                         | STRUCT | Subset Sheets:   | S19 of S23 |
| Autocad Ver. 2022                   | Scale: NTS |                      |      |          |       |                |  |                                                       |        | Sheet Number     | 76         |
| SGM Project No.: 91004D-83          |            | Quality Control: MCF |      |          |       |                |  |                                                       |        |                  |            |



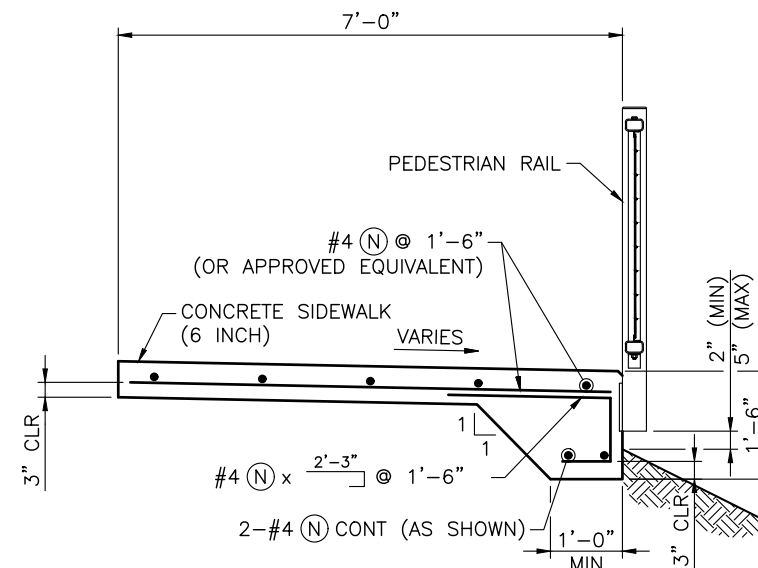
I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWGS\STRUC\ROUNDABOUT PROJECT\PS-SHEETSET\RAILING\_DETAILS.DWG Plotted: 4/1/2025 9:47 AM By: Eric Mahoney



MAYFLY TRAIL SECTION  
(STA 3+38.60 TO 3+62.19)



MAYFLY TRAIL SECTION  
(STA 3+62.19 TO 5+25.39)



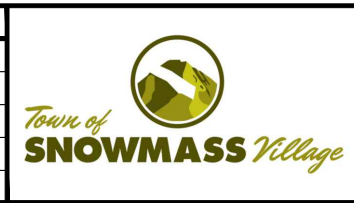
TYPICAL SIDEWALK SECTION  
(WHERE RAILING IS REQUIRED)

NOTES:

1. SEE SHEET 5-7 FOR ADDITIONAL INFORMATION.
2. SEE SHEETS S21-S23 FOR RAILING DETAILS.
3. CONCRETE SHALL BE CDOT CLASS D.
4. EXPOSED CORNERS SHALL BE CHAMFERED  $\frac{3}{4}$ ".
5. PROVIDE 2" CLEAR COVER UNLESS NOTED OTHERWISE.

| Computer File Information          |                      |
|------------------------------------|----------------------|
| Print Date: 4/1/25                 |                      |
| Last Modification Date: 4/1/25     |                      |
| Drawing File Name: Railing_Details |                      |
| Autocad Ver. 2022 Scale: NTS       |                      |
| SGM Project No.: 91004D-83         | Quality Control: MCF |

| Sheet Revisions |      |          |       |  |
|-----------------|------|----------|-------|--|
| Rev.            | Date | Comments | Init. |  |
| 1               |      |          |       |  |
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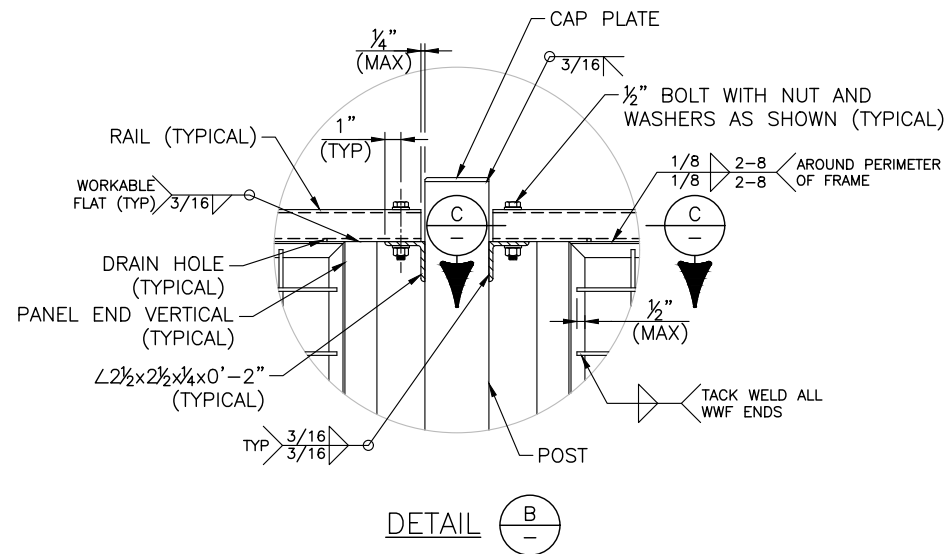
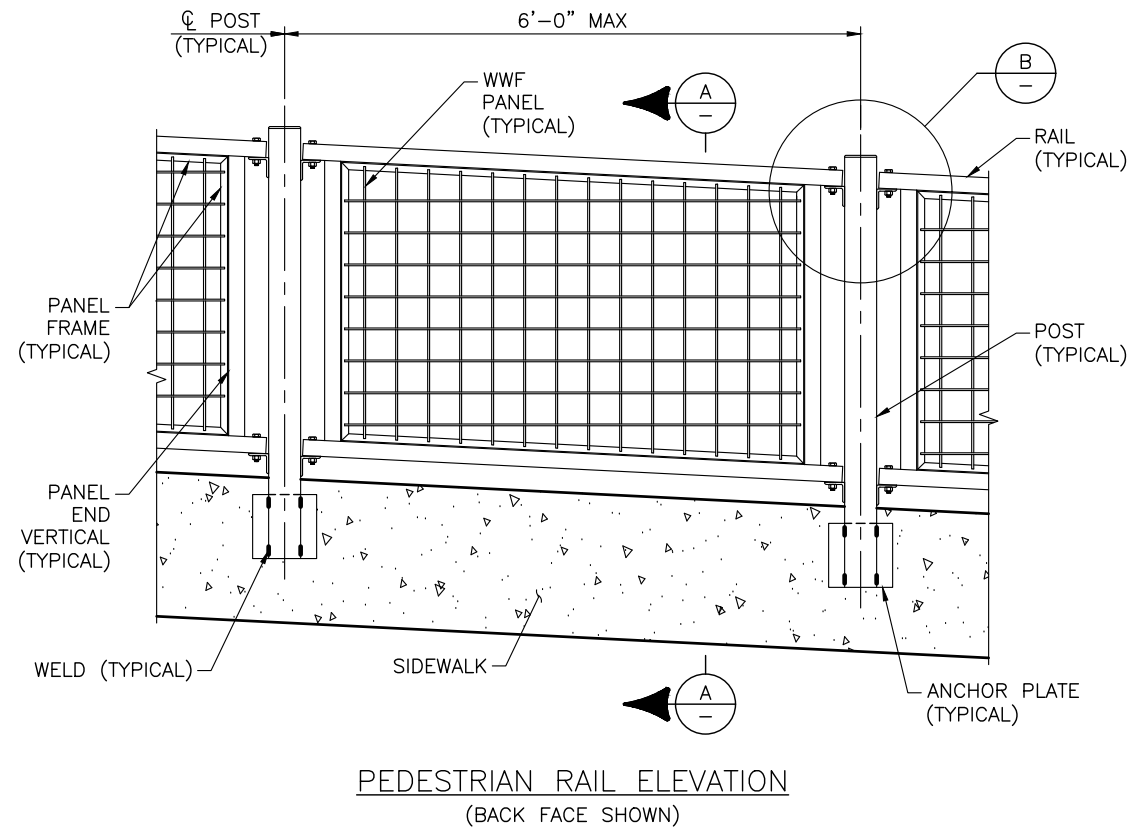
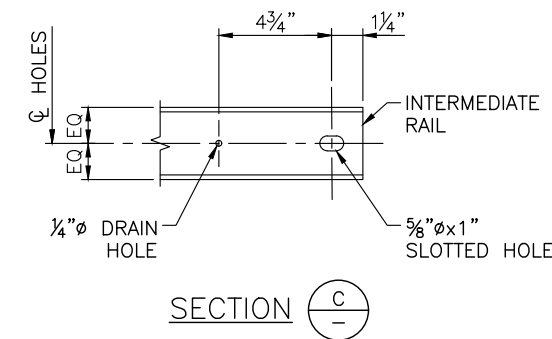
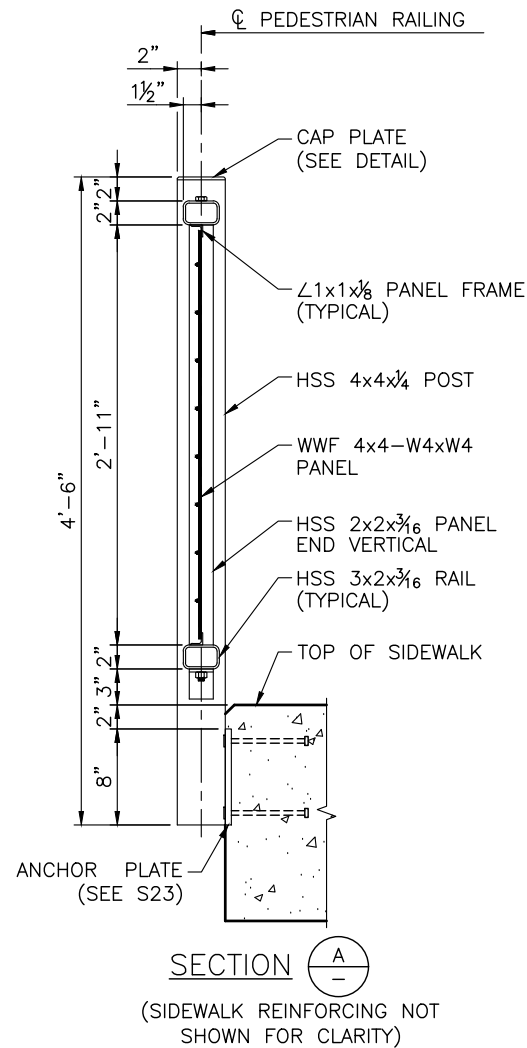
| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT<br>TRAIL & SIDEWALK STRUCTURAL DETAILS |        |                |            |
|---------------------------------------------------------------|--------|----------------|------------|
| Engineer:                                                     | JNM    | Structure      | --         |
| Drawn By:                                                     | JNM    | Numbers        | --         |
| Sheet Subset:                                                 | STRUCT | Subset Sheets: | S20 of S23 |

| Project No./Code |
|------------------|
| --               |
| --               |
| Sheet Number 77  |



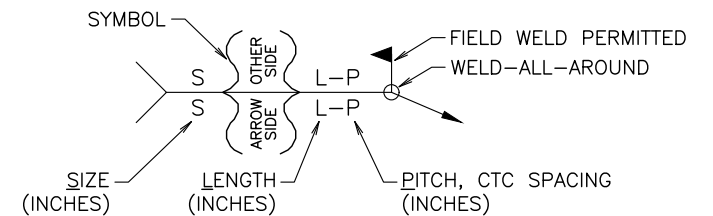
I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWG\STRUC\ROUNDABOUT PROJECT\PS-SHEETSET\RAILING\_DETAILS.DWG Plotted: 4/1/2025 9:47 AM By: Eric Mahoney



NOTES:

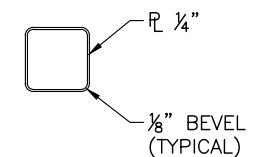
- PEDESTRIAN RAIL SHALL BE PAID FOR AS "PEDESTRIAN RAILING (42 INCH)". SAFETY RAIL SHALL BE PAID FOR AS "PEDESTRIAN RAILING (STEEL)".
- ALL POSTS SHALL BE PLUMB. ALL WWF SHALL BE LEVEL.
- SEE S20 FOR SIDEWALK AND TRAIL STRUCTURAL DETAILS
- JOINTS IN SIDEWALK SHALL BE 2'-0" MINIMUM FROM  $\phi$  OF POST.
- OPENINGS BETWEEN HORIZONTAL OR VERTICAL MEMBERS ON PEDESTRIAN RAILINGS SHALL BE SMALL ENOUGH THAT A 4" SPHERE CANNOT PASS THROUGH THEM.
- PRIOR TO FABRICATION OF THE ITEM, WORKING DRAWINGS WHICH COMPLY WITH THE REQUIREMENTS OF SECTION 105 SHALL BE SUBMITTED TO THE ENGINEER FOR INFORMATION ONLY.

| DESCRIPTION        | SPECIFICATION | STRENGTH       | NOTES               |
|--------------------|---------------|----------------|---------------------|
| HSS SECTIONS       | A847          | $f_y = 50$ KSI | WEATHERING          |
| ANGLE SECTIONS     | A588          | $f_y = 50$ KSI | WEATHERING          |
| STEEL PLATES       | A588          | $f_y = 36$ KSI | WEATHERING          |
| STRUCTURAL BOLTS   | F3125         |                | TYPE 3 - WEATHERING |
| STRUCTURAL NUTS    | A563          |                | WEATHERING          |
| STRUCTURAL WASHERS | F436          |                | WEATHERING          |
| SHEAR STUDS        | A108          |                |                     |



| WELD SYMBOLS |       |       |       |
|--------------|-------|-------|-------|
| FILLET       | BEVEL | FLARE | BEVEL |
|              |       |       |       |

WELD SYMBOL LEGEND



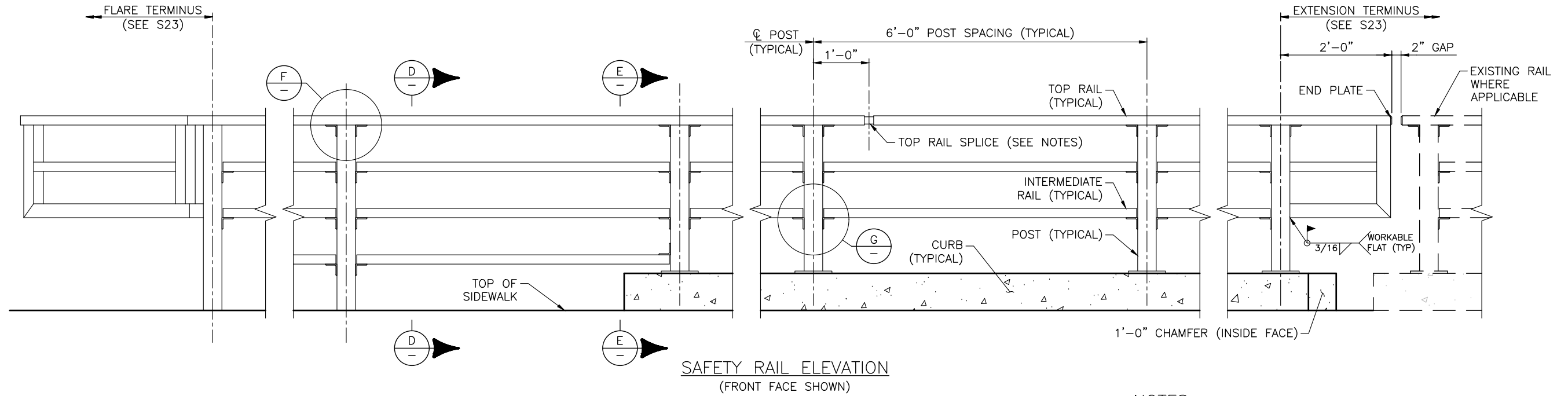
| Computer File Information          |            | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>RAILING DETAILS (1 OF 3) |        |                | Project No./Code |                 |
|------------------------------------|------------|----------------------|------|----------|-------|----------------|--|----------------------------------------------------|--------|----------------|------------------|-----------------|
| Print Date: 4/1/25                 |            | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer:                                          | JNM    | Structure      | --               |                 |
| Last Modification Date: 4/1/25     |            | 1                    |      |          |       | Revised:       |  | Drawn By:                                          | JNM    | Numbers        | --               |                 |
| Drawing File Name: Railing_Details |            |                      |      |          |       | Void:          |  | Sheet Subset:                                      | STRUCT | Subset Sheets: | S21 of S23       | Sheet Number 78 |
| Autocad Ver. 2022                  | Scale: NTS |                      |      |          |       |                |  |                                                    |        |                |                  |                 |
| SGM Project No.: 91004D-83         |            | Quality Control: MCF |      |          |       |                |  |                                                    |        |                |                  |                 |



**SGM**  
118 West Sixth Street, Suite 200  
Glenwood Springs, CO 81601  
970.945.1004 www.sgm-inc.com

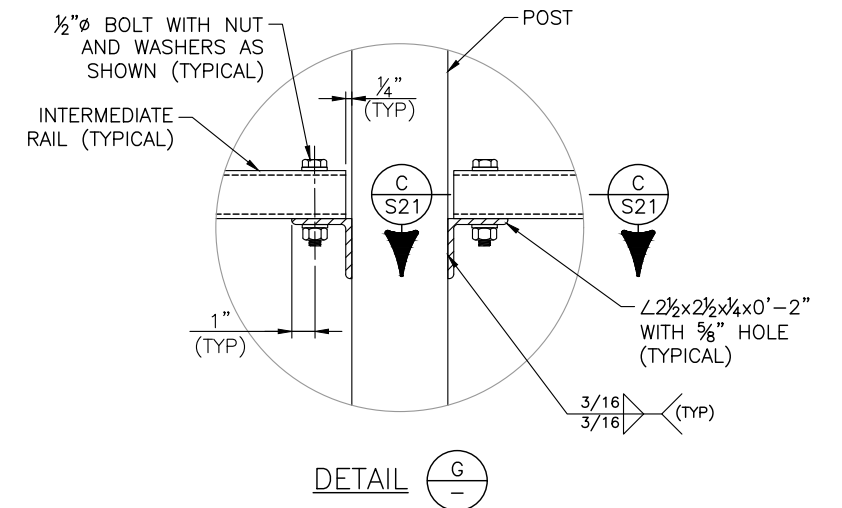
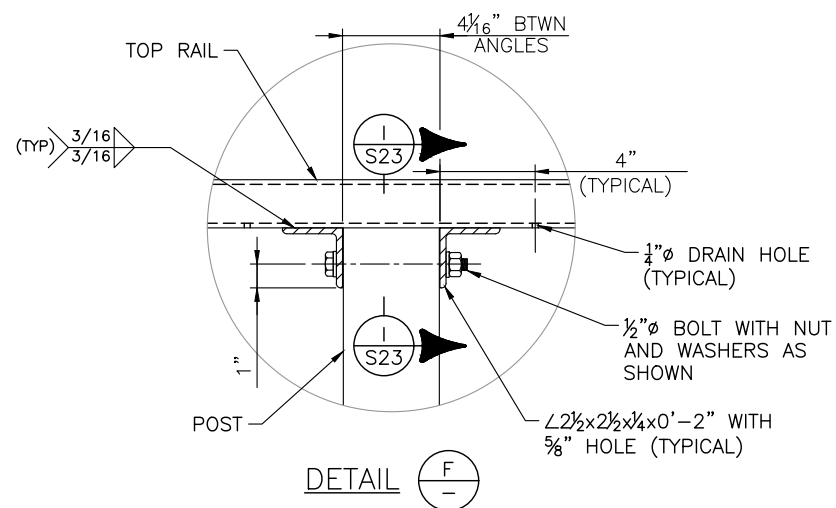
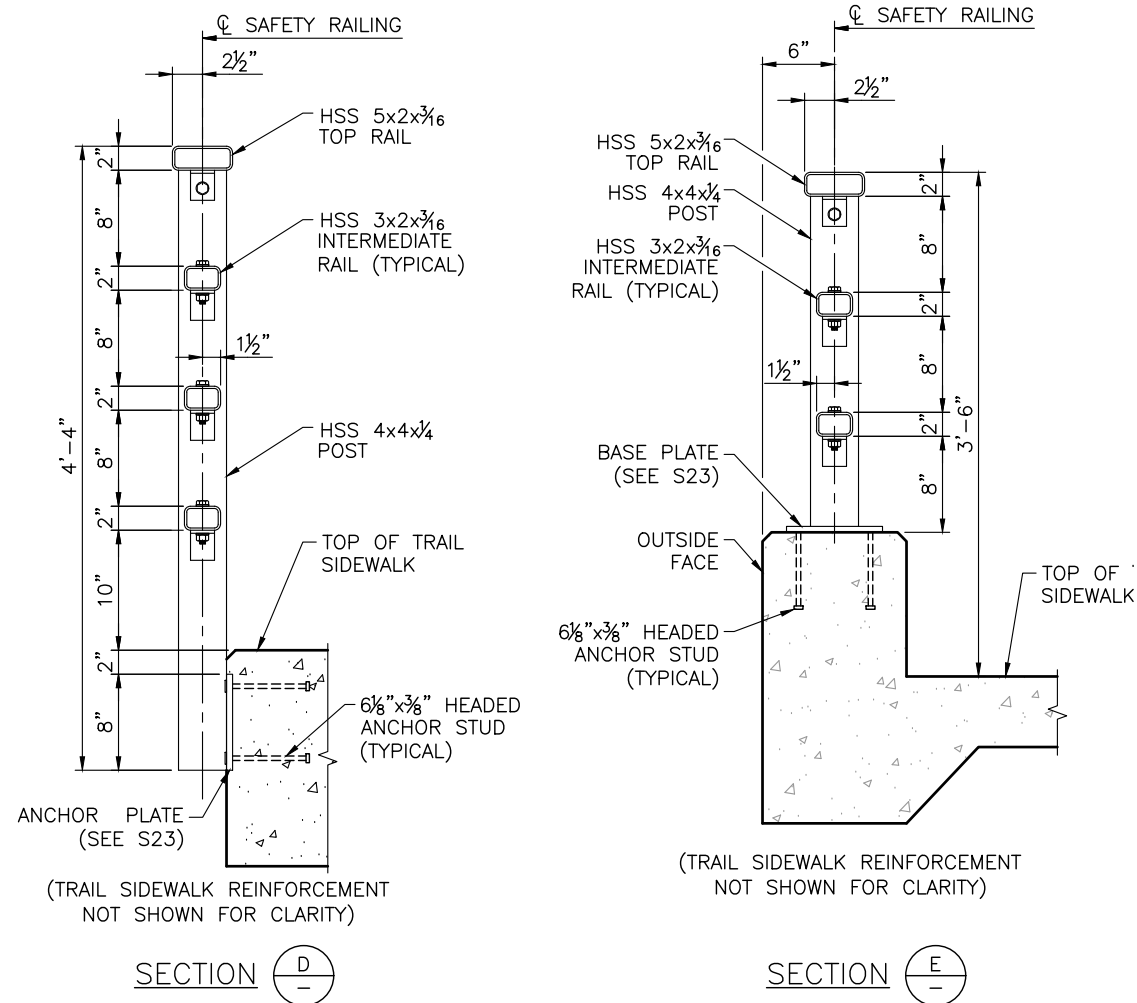


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NOTES:

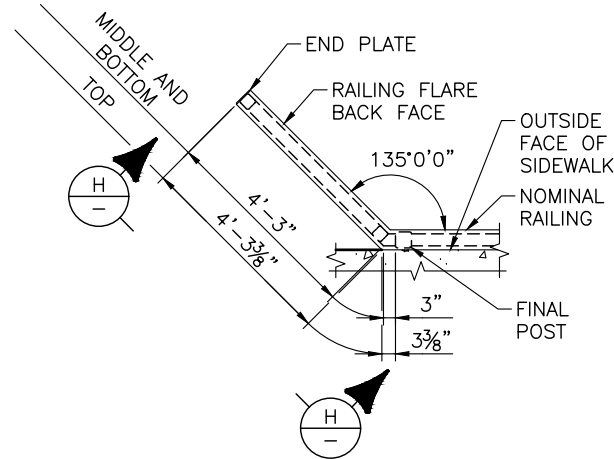
- SEE SHEET S21 FOR MORE INFORMATION
- SPLICE REQUIRED IN TOP RAIL ONLY. XX FEET MAXIMUM SPLICE SPACING. ONLY ONE SPLICE IS ALLOWED BETWEEN POSTS.



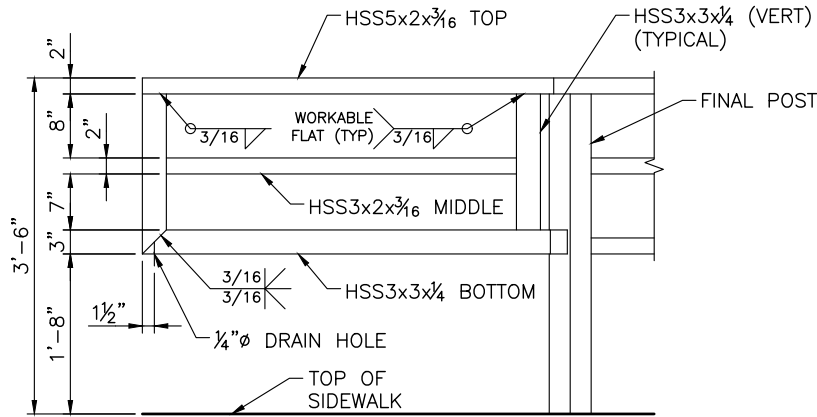
| Computer File Information                                            |  | Sheet Revisions                |      |          |  | <br><i>Town of</i><br><b>SNOWMASS Village</b> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004    www.sgm-inc.com | As Constructed |               | BRUSH CREEK ROUNDABOUT<br>RAILING DETAILS (2 OF 3) |                      |                           | Project No./Code |                 |  |
|----------------------------------------------------------------------|--|--------------------------------|------|----------|--|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|----------------------------------------------------|----------------------|---------------------------|------------------|-----------------|--|
| Print Date: 4/1/25                                                   |  | Rev.                           | Date | Comments |  |                                                                                                                                    |                                                                                                                                                                                            | Init.          | No Revisions: |                                                    |                      |                           | --               |                 |  |
| Last Modification Date: 4/1/25                                       |  | <input type="text" value="1"/> |      |          |  |                                                                                                                                    |                                                                                                                                                                                            |                | Revised:      |                                                    | Engineer: JNM        | Structure                 | --               | --              |  |
| Drawing File Name: Railing_Details                                   |  | <input type="text"/>           |      |          |  |                                                                                                                                    |                                                                                                                                                                                            |                | Void:         |                                                    | Drawn By: JNM        | Numbers                   | --               | Sheet Number 79 |  |
| Autocad Ver. 2022    Scale: NTS                                      |  | <input type="text"/>           |      |          |  |                                                                                                                                    |                                                                                                                                                                                            |                |               |                                                    | Sheet Subset: STRUCT | Subset Sheets: S22 of S23 |                  |                 |  |
| SGM Project No.: 91004D-83                      Quality Control: MCF |  | <input type="text"/>           |      |          |  |                                                                                                                                    |                                                                                                                                                                                            |                |               |                                                    |                      |                           |                  |                 |  |



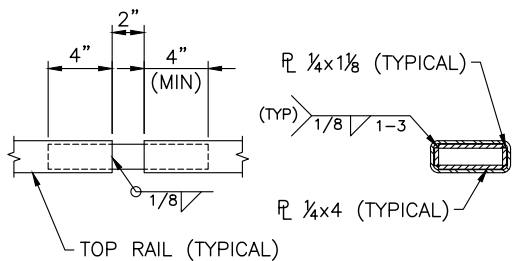
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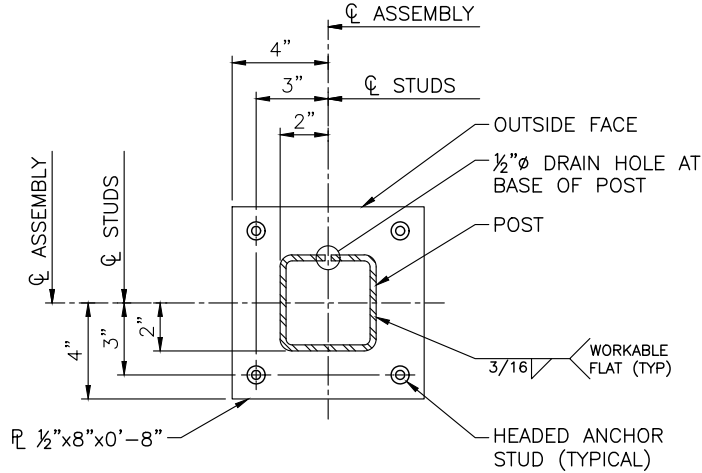
SAFETY RAILING FLARE TERMINUS PLAN



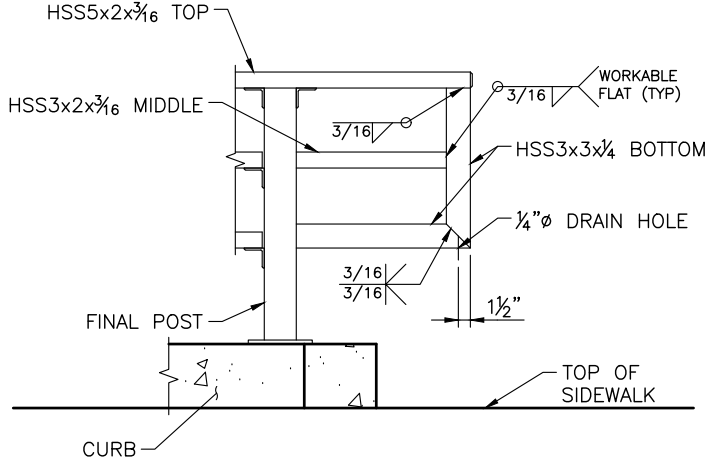
SECTION H



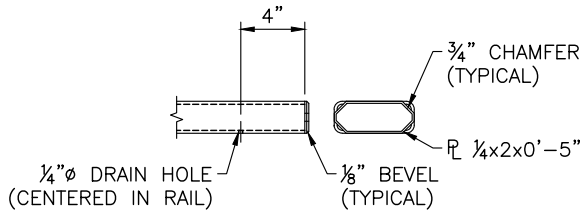
SPLICE DETAILS  
(SAFETY RAIL TOP RAIL ONLY)



BASE PLATE DETAILS  
(SAFETY RAIL)



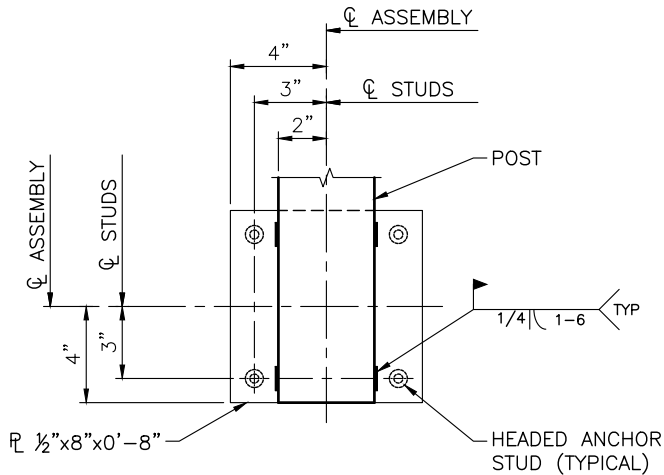
EXTENSION TERMINUS



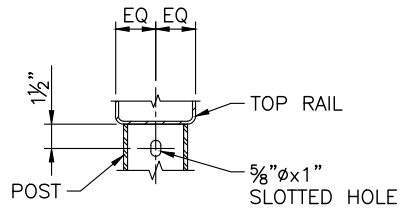
END PLATE DETAILS  
(SAFETY RAIL TOP RAIL ONLY)

NOTES:

1. SEE SHEET S21 FOR ADDITIONAL INFORMATION.



ANCHOR PLATE DETAILS



SECTION I

| Computer File Information          |  | Sheet Revisions |      |          |       |  <p>Town of<br/><b>SNOWMASS</b> Village</p> |  <p><b>SGM</b><br/>118 West Sixth Street, Suite 200<br/>Glenwood Springs, CO 81601<br/>970.945.1004   www.sgm-inc.com</p> | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>RAILING DETAILS (3 OF 3) |        |                | Project No./Code |                    |
|------------------------------------|--|-----------------|------|----------|-------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|----------------------------------------------------|--------|----------------|------------------|--------------------|
| Print Date: 4/1/25                 |  | Rev.            | Date | Comments | Init. |                                                                                                                                  |                                                                                                                                                                                                                | No Revisions:  |  |                                                    |        |                | --               |                    |
| Last Modification Date: 4/1/25     |  | 1               |      |          |       |                                                                                                                                  |                                                                                                                                                                                                                | Revised:       |  | Engineer:                                          | JNM    | Structure      | --               | --                 |
| Drawing File Name: Railing_Details |  |                 |      |          |       |                                                                                                                                  |                                                                                                                                                                                                                | Void:          |  | Drawn By:                                          | JNM    | Numbers        | --               |                    |
| Autocad Ver. 2022    Scale: NTS    |  |                 |      |          |       |                                                                                                                                  |                                                                                                                                                                                                                |                |  | Sheet Subset:                                      | STRUCT | Subset Sheets: | S23 of S23       | Sheet Number    80 |
| SGM Project No.: 91004D-83         |  |                 |      |          |       |                                                                                                                                  |                                                                                                                                                                                                                |                |  |                                                    |        |                |                  |                    |



# ELECTRICAL SPECIFICATIONS

## SCOPE AND PERFORMANCE OF WORK:

1. WHEN INSTALLING OR MODIFYING SERVICE OR METERING EQUIPMENT, COORDINATE WITH UTILITY COMPANY TO ENSURE THAT THEIR CURRENT STANDARDS ARE MET. IF ANY DISCREPANCY IS FOUND BETWEEN UTILITY STANDARDS AND CONTRACT DOCUMENTS, SUBMIT RFI FOR DIRECTION.
2. PROVIDE COMPLETE AND FUNCTIONAL ELECTRICAL AND LIGHTING SYSTEMS. INCLUDE ALL REQUIRED LABOR AND MATERIALS, REGARDLESS OF WHETHER SUCH MATERIALS ARE SPECIFICALLY CALLED OUT ON THE DRAWINGS, UNLESS THE DRAWINGS EXPLICITLY DESIGNATE CERTAIN ITEMS AS BEING PROVIDED BY OTHERS.
3. ELECTRICAL WORK SHALL BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER, AS DEFINED BY THE NECA 1 STANDARD.
4. COORDINATE WITH OTHER TRADES FOR CUTTING, PATCHING, DRILLING, OR OTHER PENETRATION REQUIREMENTS CREATED BY ELECTRICAL WORK.
5. OBTAIN AND FOLLOW MANUFACTURER'S WIRING DIAGRAMS FOR ALL EQUIPMENT.
6. WHERE CONTRACT DOCUMENTS CALL FOR MODIFICATIONS TO EXISTING ELECTRICAL SYSTEMS, ENSURE THAT CONTINUITY IS MAINTAINED AND VERIFY FUNCTIONALITY OF EQUIPMENT AND DEVICES THAT ARE TO REMAIN.

## SUBMITTALS AND SUBSTITUTIONS:

1. VERIFY THAT THE SUBMITTED DISTRIBUTION EQUIPMENT WILL ACCEPT THE SPECIFIED CONDUCTOR SIZES, EVEN WHEN CONDUCTORS ARE OVERSIZED TO MITIGATE VOLTAGE DROP. LUG KITS ARE ONLY ACCEPTABLE WHEN APPROVED BY THE EQUIPMENT MANUFACTURER.
2. WHEN THE CONTRACT DOCUMENTS CALL FOR PROVISION OF LIGHTING CONTROL SYSTEMS OR INVERTERS, INCLUDE PROGRAMMING AND STARTUP BY A FACTORY AUTHORIZED TECHNICIAN.
3. WHERE A SPECIFIC MANUFACTURER OR PRODUCT IS SPECIFIED, EQUIVALENT MANUFACTURERS OR PRODUCTS MAY BE SUBSTITUTED. EQUIVALENT IMPLIES DEMONSTRABLY EQUAL OR GREATER QUALITY AND PERFORMANCE, AS WELL AS SATISFYING ALL DIMENSIONAL AND INTEGRATION CONSTRAINTS REQUIRED BY THE PROJECT SPECIFIC APPLICATION. ALL SUBSTITUTIONS ARE SUBJECT TO ENGINEER'S APPROVAL.

## RACEWAY AND CONDUCTORS:

1. ALL CONDUIT SIZES SHOWN ON DRAWINGS ARE MINIMUMS.
2. WHERE UNDERGROUND CONDUIT PASSES BELOW VEHICLE TRAFFIC AREAS, USE SCHEDULE 80 PVC. SCHEDULE 40 IS ACCEPTABLE IN OTHER UNDERGROUND AREAS.
3. USE XHHW WIRE IN RACEWAYS UNDERGROUND, POURED INTO CONCRETE, OR EXTERIOR EXPOSED.
4. WHERE EXTERIOR CONDUIT IS EXPOSED BELOW 4' AFG, OR OTHERWISE EXPOSED TO DAMAGE, USE GALVANIZED RMC OR SCHEDULE 80 PVC.
5. USE ONLY CONDUIT SUPPORT DEVICES RATED FOR THE SPECIFIC APPLICATION.

## IDENTIFICATION:

1. PROVIDE NEW TYPED SCHEDULES FOR ALL PANELS AFFECTED BY PROJECT.
2. IDENTIFY ALL CONDUIT RUNS AS THEY ENTER AND LEAVE ENCLOSURES.
3. INSTALL WARNING TAPE WITH ALL UNDERGROUND CONDUIT AND CABLE, AT 12" BELOW GRADE.
4. COLOR CODE ALL POWER CONDUCTORS USING FACTORY APPLIED COLORS. FOR 120/208 AND 240 SYSTEMS, USE BLACK/RED/BLUE FOR PHASES A/B/C. FOR GROUNDED (NEUTRAL) CONDUCTORS USE WHITE OR GRAY. FOR GROUNDING CONDUCTORS USE GREEN.
5. USE ONLY PERMANENT LABELING METHODS. PENCIL, PEN, MASKING TAPE, OR PAPER TAPED TO SURFACES ARE NOT ACCEPTABLE. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.
6. IN LOCATIONS EXPOSED TO SUNLIGHT, MOISTURE, TEMPERATURE FLUCTUATION, OR CORROSIVE GASES, USE ONLY LABELING PRODUCTS RATED FOR THAT ENVIRONMENT AND GUARANTEED NOT TO FADE, DEGRADE, OR DETATCH.
7. PROVIDE ALL REQUIRED SAFETY PLACARDS CONFORMING TO NEC STANDARDS.

## ACCESS AND CLEARANCES:

1. MAINTAIN ALL SERVICE AND ACCESS CLEARANCES REQUIRED BY CODE OR MANUFACTURER FOR ALL EQUIPMENT.
2. PROVIDE ACCESS FOR ALL EQUIPMENT, ETC. LOCATED ABOVE NON-ACCESSIBLE CEILINGS OR IN CONCEALED AREAS. PROVIDE SUFFICIENT ACCESS FOR SERVICING AND MAINTENANCE.

## STRUCTURAL MODIFICATIONS:

1. DO NOT DRILL, NOTCH, CUT, OR ALTER STRUCTURAL MEMBERS IN ANY MANNER EXCEPT AS PERMITTED BY THE MATERIAL SPECIFIC SECTIONS OF THE BUILDING CODE, MANUFACTURER'S GUIDELINES FOR ENGINEERED PRODUCTS, OR THE RECOMMENDATION OF THE STRUCTURAL ENGINEER OF RECORD.

## GROUNDING AND BONDING:

1. INSTALL WIRE-TYPE EQUIPMENT GROUNDING CONDUCTORS WITH ALL FEEDERS AND ALL BRANCH CIRCUITS. CONDUIT IS NOT AN ACCEPTABLE EQUIPMENT GROUNDING MEANS UNLESS EXPLICITLY ALLOWED IN CONSTRUCTION DRAWINGS FOR A PARTICULAR LOCATION.
2. FOR ALL GROUNDING AND BONDING CONNECTIONS, USE ONLY PRODUCTS UL LISTED FOR THE SPECIFIC APPLICATION, MATERIALS, AND ENVIRONMENT INVOLVED.
3. BOND SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEMS TO AVAILABLE METALLIC PIPE, EXPOSED METAL STRUCTURE, REBAR, ETC AS REQUIRED BY THE NEC.

# SYMBOL LEGEND

## SINGLE LINE DIAGRAM SYMBOLS

- CIRCUIT BREAKER
- FUSE
- DISCONNECT SWITCH
- NEUTRAL BUS
- GROUND BUS
- BOND
- GROUNDING ELECTRODE  
(SEE KEYNOTE FOR TYPE)

## RECEPTACLES

- STANDARD WALL MOUNTED  
DUPLEX RECEPTACLE
- CROSS LINES INDICATE  
QUADRUPLEX
- "G" INDICATES PROVIDE GFCI  
PROTECTION AT DEVICE OR BREAKER
- "W" INDICATES WEATHERPROOF  
IN-USE COVER AND GFCI PROTECTION

## ANNOTATION SYMBOLS

- KEYNOTE TAG
- REVISION TAG
- FEEDER TAG  
REFER TO FEEDER SCHEDULE
- LIGHTING FIXTURE TAG

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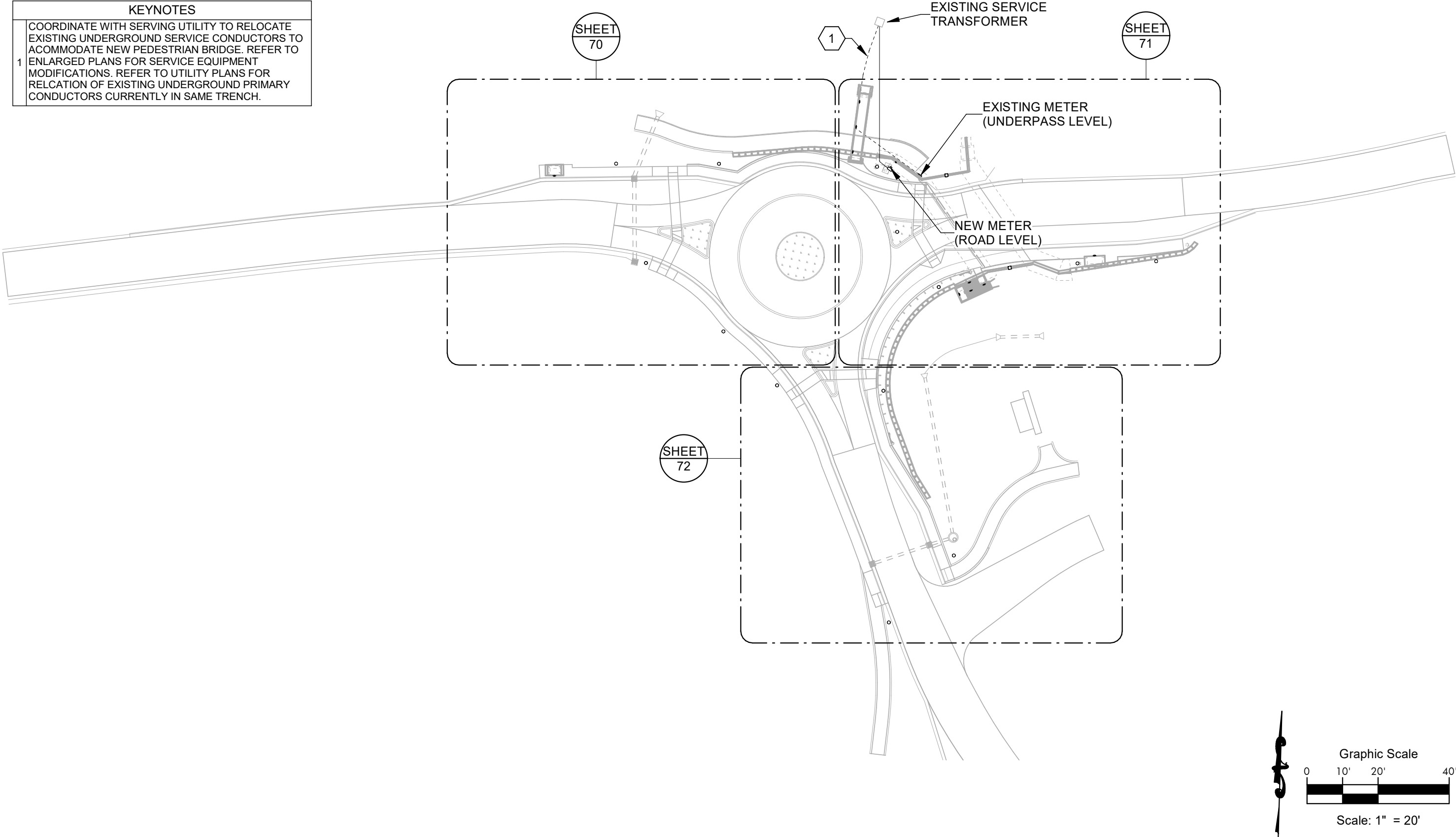
| Computer File Information                                |  | Sheet Revisions |      |          |       |  | <br><br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |               | BRUSH CREEK ROUNDABOUT<br>ELECTRICAL LEGEND AND NOTES |                |           | Project No./Code |    |                  |
|----------------------------------------------------------|--|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|-------------------------------------------------------|----------------|-----------|------------------|----|------------------|
| Print Date: 7/10/24                                      |  | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                             | No Revisions:  |               |                                                       |                |           | --               |    |                  |
| Last Modification Date: 7/10/24                          |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                             | Revised:       |               | Engineer:                                             | ALH            | Structure |                  | -- |                  |
| Drawing File Name: OwlCreek_Round_R24.rvt                |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                             | Void:          | Drawn By:     | ALH                                                   | Numbers        |           | ---              |    |                  |
| Revit Ver. 2024      Scale: As Shown      Units: English |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                             |                | Sheet Subset: | ELECTRICAL                                            | Subset Sheets: |           | 1 OF 7           |    | Sheet Number: 68 |
| SGM Project No.: 91004D-83      Quality Control: BC      |  | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                             |                |               |                                                       |                |           |                  |    |                  |



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| KEYNOTES |                                                                                                                                                                                                                                                                                                  |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | COORDINATE WITH SERVING UTILITY TO RELOCATE EXISTING UNDERGROUND SERVICE CONDUCTORS TO ACCOMMODATE NEW PEDESTRIAN BRIDGE. REFER TO ENLARGED PLANS FOR SERVICE EQUIPMENT MODIFICATIONS. REFER TO UTILITY PLANS FOR RELCATION OF EXISTING UNDERGROUND PRIMARY CONDUCTORS CURRENTLY IN SAME TRENCH. |



| Computer File Information |                        | Sheet Revisions      |      |          |       | As Constructed | BRUSH CREEK ROUNDABOUT<br>OVERALL ELECTRICAL PLAN |            |                | Project No./Code |
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| Print Date:               | 7/10/24                | Rev.                 | Date | Comments | Init. |                |                                                   |            |                | --               |
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|                           |                        |                      |      |          |       |                |                                                   |            |                | Sheet Number: 69 |



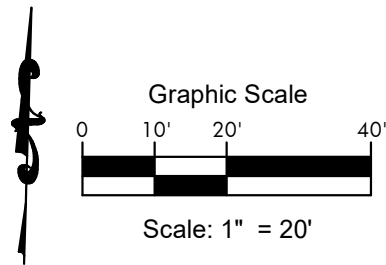
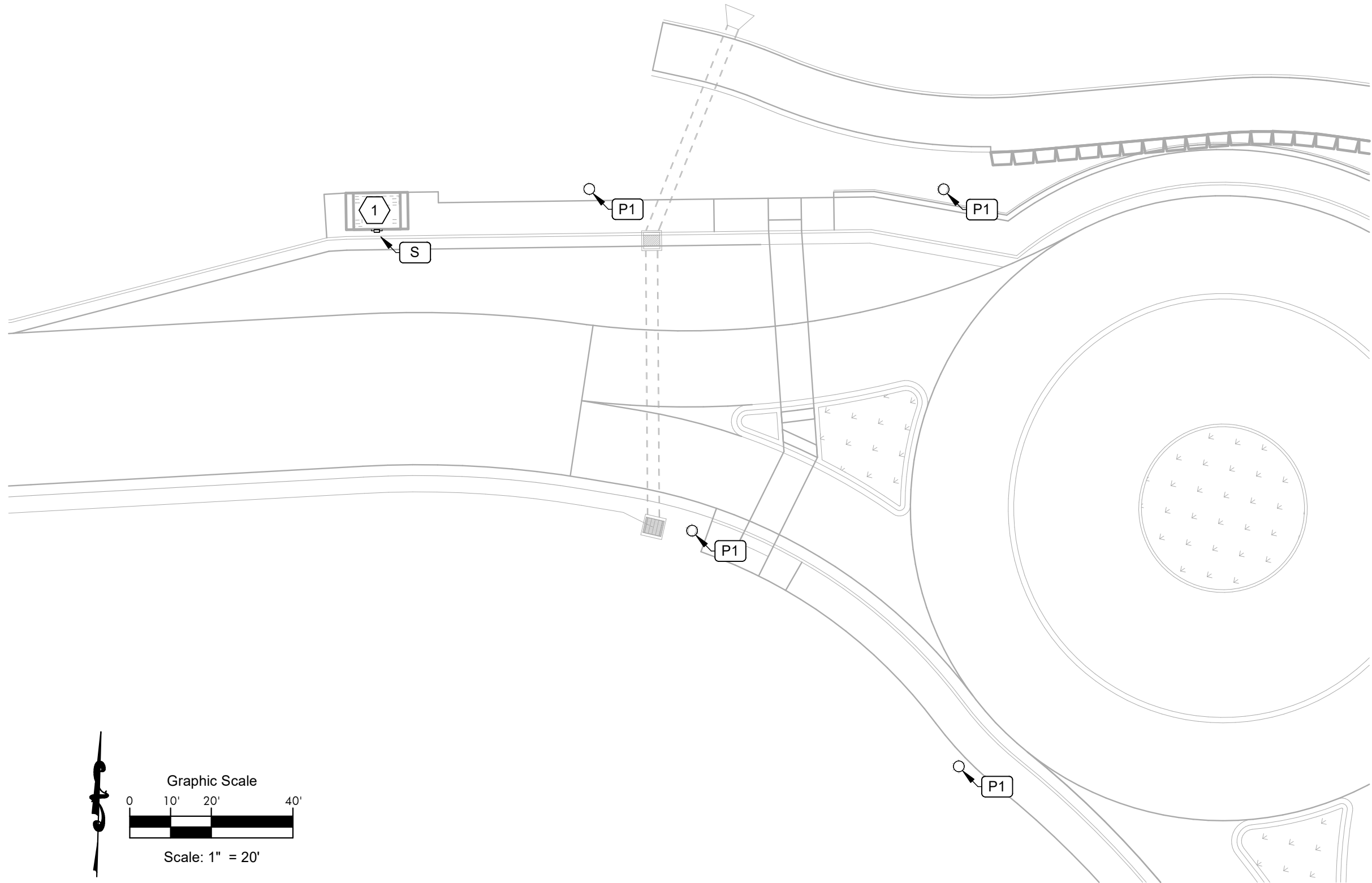
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| KEYNOTES |                                                                                                                 |
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| 1        | MOUNT FIXTURE ON NEW TIMBER BUS SHELTER.<br>ROUTE CONDUIT AS INCONSPICUOUSLY AS POSSIBLE<br>AND PAINT TO MATCH. |



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| Last Modification Date:   | 7/10/24                |                  |                |
| Drawing File Name:        | OwlCreek_Round_R24.rvt |                  |                |
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| SGM Project No.:          | 91004D-83              | Quality Control: | ACC            |

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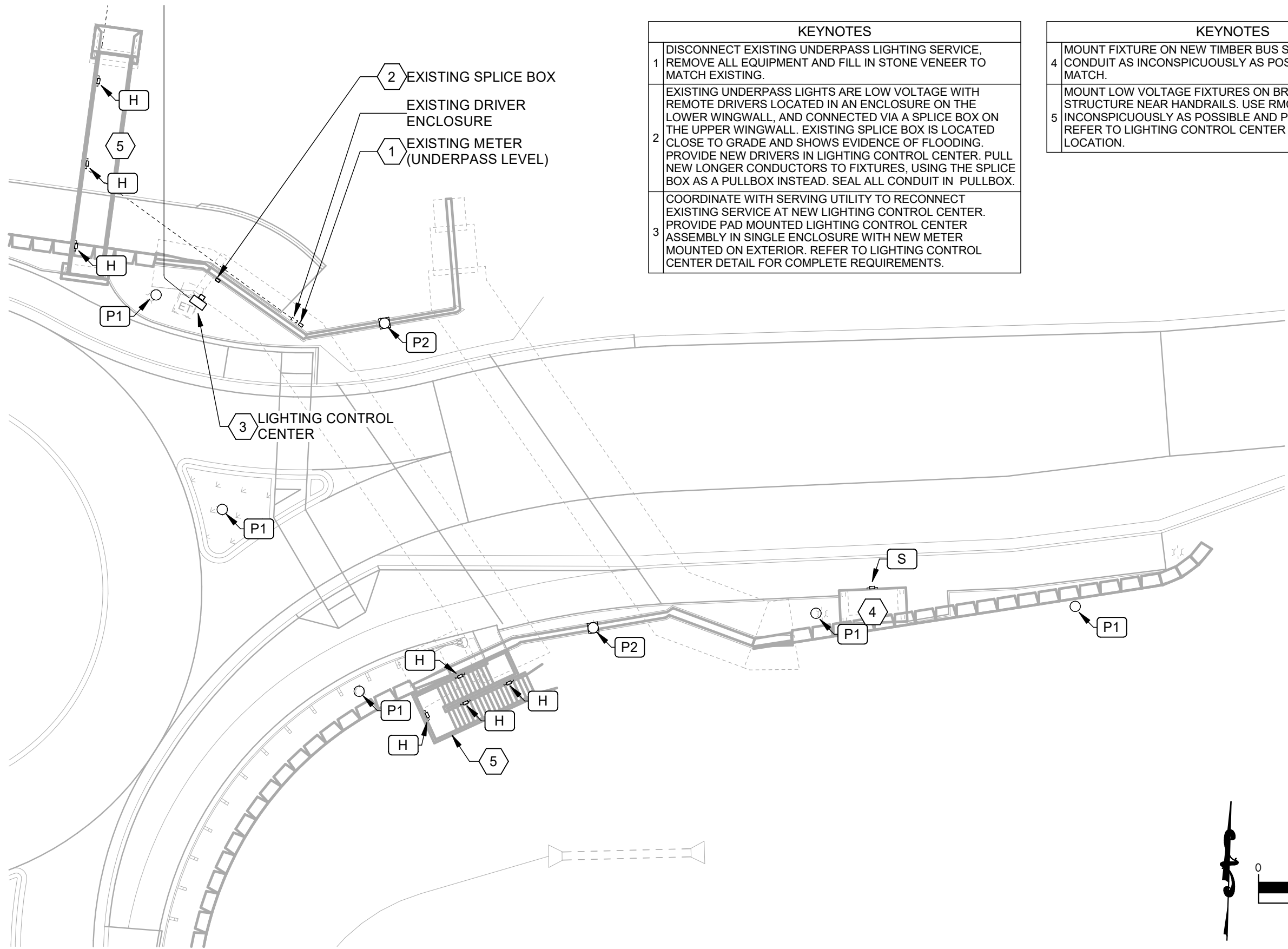
| BRUSH CREEK ROUNDABOUT<br>ENLARGED ELECTRICAL PLANS |            |                |        |
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| Engineer:                                           | ALH        | Structure      |        |
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| Sheet Subset:                                       | ELECTRICAL | Subset Sheets: | 3 OF 7 |

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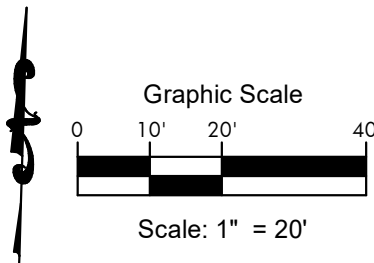
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| KEYNOTES |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | DISCONNECT EXISTING UNDERPASS LIGHTING SERVICE, REMOVE ALL EQUIPMENT AND FILL IN STONE VENEER TO MATCH EXISTING.                                                                                                                                                                                                                                                                                                 |
| 2        | EXISTING UNDERPASS LIGHTS ARE LOW VOLTAGE WITH REMOTE DRIVERS LOCATED IN AN ENCLOSURE ON THE LOWER WINGWALL, AND CONNECTED VIA A SPLICE BOX ON THE UPPER WINGWALL. EXISTING SPLICE BOX IS LOCATED CLOSE TO GRADE AND SHOWS EVIDENCE OF FLOODING. PROVIDE NEW DRIVERS IN LIGHTING CONTROL CENTER. PULL NEW LONGER CONDUCTORS TO FIXTURES, USING THE SPLICE BOX AS A PULLBOX INSTEAD. SEAL ALL CONDUIT IN PULLBOX. |
| 3        | COORDINATE WITH SERVING UTILITY TO RECONNECT EXISTING SERVICE AT NEW LIGHTING CONTROL CENTER. PROVIDE PAD MOUNTED LIGHTING CONTROL CENTER ASSEMBLY IN SINGLE ENCLOSURE WITH NEW METER MOUNTED ON EXTERIOR. REFER TO LIGHTING CONTROL CENTER DETAIL FOR COMPLETE REQUIREMENTS.                                                                                                                                    |

| KEYNOTES |                                                                                                                                                                                                             |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4        | MOUNT FIXTURE ON NEW TIMBER BUS SHELTER. ROUTE CONDUIT AS INCONSPICUOUSLY AS POSSIBLE AND PAINT TO MATCH.                                                                                                   |
| 5        | MOUNT LOW VOLTAGE FIXTURES ON BRIDGE/STAIR STRUCTURE NEAR HANDRAILS. USE RMC CONDUIT, ROUTE AS INCONSPICUOUSLY AS POSSIBLE AND PAINT TO MATCH. REFER TO LIGHTING CONTROL CENTER DETAIL FOR DRIVER LOCATION. |



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| <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br><br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>ENLARGED ELECTRICAL PLANS |            |                | Project No./Code |                  |  |
|                                                                                                                                           |                                                                                                                                                                                             | No Revisions:  |  |                                                     |            |                | --               |                  |  |
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KEYNOTES



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| SGM Project No.:          | 91004D-83              | Quality Control: | BC |

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| BRUSH CREEK ROUNDABOUT<br>ENLARGED ELECTRICAL PLANS |            |                |        |
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| Engineer:                                           | ALH        | Structure      |        |
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| TABULATION OF APPROXIMATE QUANTITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |      |     |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------|-----|---------|
| ITEM #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | DESCRIPTION                              | UNIT | QTY | REMARKS |
| 613-04010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Conduit                                  | LS   | 1   | 1       |
| 613-10000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Wiring                                   | LS   | 1   |         |
| 613-13000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Luminaire (LED) (Special)                | EACH | 15  | 2       |
| 613-15300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Surface Light (Type S)                   | EACH | 2   | 3       |
| 613-15400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Surface Light (Type H)                   | EACH | 7   | 4       |
| 613-32160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Light Standard Steel (16 Foot)           | EACH | 2   |         |
| 613-32180                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Light Standard Steel (18 Foot)           | EACH | 13  |         |
| 613-40000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Concrete Foundation Pad                  | EACH | 1   |         |
| 613-40010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Light Standard Foundation                | EACH | 13  |         |
| 613-40012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Light Standard Foundation Special        | EACH | 2   |         |
| 613-50106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Lighting Control Center (Special)        | EACH | 1   | 5       |
| 700-70082                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | F/A Furnish & Install Electrical Service | FA   | 1   | 6       |
| REMARKS:<br>1. THIS PAY ITEM SHALL INCLUDE ALL POLYMER CONCRETE, TIER 22 RATED PULL/SPLICE BOXES, FITTINGS, LABOR AND ALL OTHER COMPONENTS REQUIRED FOR A COMPLETE RACEWAY SYSTEM, WHETHER SHOWN ON PLAN OR NOT.<br>2. THIS PAY ITEM SHALL INCLUDE THE POLE TOP LUMINAIRES TYPE P1 AND P2, WITH ALL ASSOCIATED MOUNTING HARDWARE.<br>3. THIS PAY ITEM SHALL INCLUDE ALL NECESSARY COMPONENTS OF THE TYPE "S" FIXTURE SYSTEMS IN BOTH UNDERPASS STRUCTURES, INCLUDING POWER SUPPLIES AND HARDWARE.<br>4. THIS PAY ITEM SHALL INCLUDE ALL NECESSARY COMPONENTS FOR TYPE "H" FIXTURES, INCLUDING POWER SUPPLIES AND HARDWARE.<br>5. THIS PAY ITEM SHALL INCLUDE ENTIRE LIGHTING CONTROL CENTER ASSEMBLY AS SPECIFIED, INCLUDING INTEGRAL METER, LOAD CENTER, CONTROLS, AND ALL OTHER NECESSARY COMPONENTS.<br>6. THIS PAY ITEM SHALL INCLUDE SECONDARY JUNCTION BOX AND UNDERGROUND FEEDER TO PEDESTAL PER SERVING UTILITY STANDARDS. |                                          |      |     |         |

| LUMINAIRE SCHEDULE |                                                                                                                  |                                  |               |                                                                                      |       |
|--------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|--------------------------------------------------------------------------------------|-------|
| TAG                | DESCRIPTION                                                                                                      | OUTPUT                           | MOUNTING      | BASIS OF DESIGN PRODUCT                                                              | WATTS |
| H                  | SMALL, LOW BRIGHTNESS SURFACE FIXTURE WITH ASYMMETRIC LIGHT DISTRIBUTION. 2"X3" HOUSING, 3' - 4' MOUNTING HEIGHT | 30K CCT, 70 CRI, 175 LUMENS      | SURFACE       | KLIK LIGHTING, CATALOG NUMBER MKRC-30K-A-500-FL                                      | 2     |
| P1                 | DECORATIVE POLE FIXTURE MATCHING TOWN STANDARD. REFER TO DETAIL FOR FULL REQUIREMENTS.                           | 30K CCT, 70 CRI,3000-6000 LUMENS | POLE ON GRADE | ARCHITECHTURAL AREA LIGHTING, CATALOG NUMBER UCM2-STR-36L-460-3K7-3-DL-CRT-SLA8D-UNV | 50    |
| P2                 | DECORATIVE POLE FIXTURE MATCHING TOWN STANDARD. REFER TO DETAIL FOR FULL REQUIREMENTS.                           | 30K CCT, 70 CRI,3000-6000 LUMENS | POST ON WALL  | ARCHITECHTURAL AREA LIGHTING, CATALOG NUMBER UCM2-STR-36L-460-3K7-3-DL-CRT-SLA8D-UNV | 50    |
| S                  | LOW PROFILE, LOW BRIGHTNESS LINEAR SURFACE FIXTURE. APPROXIMATELY 1" SQUARE CROSS SECTION, WITH DIFFUSING LENS.  | 30K CCT, 70 CRI, 1000 LUMENS     | SURFACE       | KLIK LIGHTING, CATALOG NUMBER AKFL-026-BXD-WALL-30K-1500-FINISH-NON                  | 10    |

| LIGHTING CONTROL PANEL SCHEDULE                                                                                                                                                                                           |         |         |         |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|----------|
| SEQUENCES:<br>1. Operates dusk to dawn at 100% brightness. Photocell on, photocell off.<br>2. Operates continuously, with automatic dimming on photocell signal. 100% brightness duing daylight, 50% brightness at night. |         |         |         |          |
| ZONE                                                                                                                                                                                                                      | CIRCUIT | VOLTAGE | DIMMING | SEQUENCE |
| BRIDGE                                                                                                                                                                                                                    | 1       | 120 V   | No      | 1        |
| POLES BRUSH NORTH                                                                                                                                                                                                         | 2       | 120 V   | No      | 1        |
| POLES BRUSH SOUTH                                                                                                                                                                                                         | 4       | 120 V   | No      | 1        |
| POLES OWL                                                                                                                                                                                                                 | 6       | 120 V   | No      | 1        |
| STAIRS                                                                                                                                                                                                                    | 3       | 120 V   | No      | 1        |
| TUNNEL EAST                                                                                                                                                                                                               | 7       | 120 V   | Yes     | 2        |
| TUNNEL WEST                                                                                                                                                                                                               | 5       | 120 V   | Yes     | 2        |

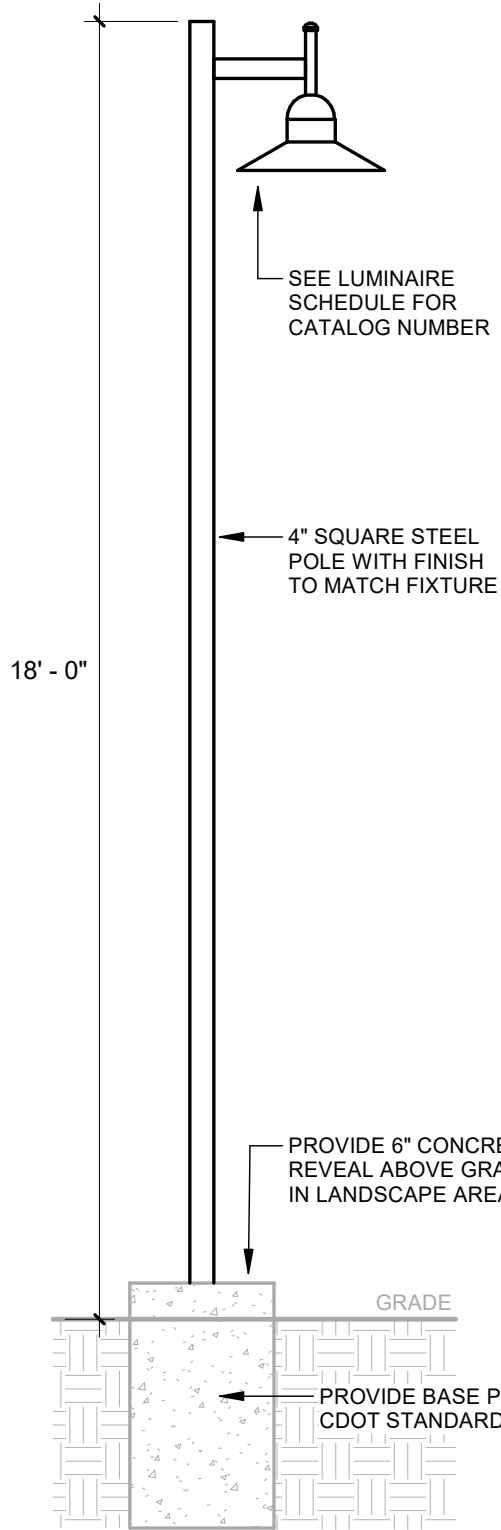
| PANEL SCHEDULE: P              |             |                |      |                       |         |         |         |                       |                       |                         |     |
|--------------------------------|-------------|----------------|------|-----------------------|---------|---------|---------|-----------------------|-----------------------|-------------------------|-----|
| Enclosure: REFER TO LCC DETAIL |             |                |      | Volts: 120/240 Single |         |         |         | A.I.C. Rating: 10,000 |                       |                         |     |
| Mounting: SURFACE              |             |                |      | Phases: 1             |         |         |         | Mains Type: MCB       |                       |                         |     |
| Notes:                         |             |                |      | Wires: 3              |         |         |         | Mains Rating: 100 A   |                       |                         |     |
| CKT                            | Load        | Trip           | Pole | A                     |         | B       |         | Pole                  | Trip                  | Load                    | CKT |
| 1                              | BRIDGE      | 20             | 1    | 6                     | 360     |         |         | 1                     | 20                    | POLES BRUSH NORTH       | 2   |
| 3                              | STAIRS      | 20             | 1    |                       |         | 4       | 210     | 1                     | 20                    | POLES BRUSH SOUTH       | 4   |
| 5                              | TUNNEL WEST | 20             | 1    | 30                    | 200     |         |         | 1                     | 20                    | POLES OWL               | 6   |
| 7                              | TUNNEL EAST | 20             | 1    |                       |         | 30      | 1900    | 1                     | 20                    | ENCLOSURE HEATER [GFI]  | 8   |
| 9                              | Spare       | 20             | 1    | 0                     | 180     |         |         | 1                     | 20                    | MAINT. RECEPTACLE [GFI] | 10  |
| 11                             |             |                |      |                       |         |         |         |                       |                       |                         | 12  |
| Total Load:                    |             |                |      | 663 VA                |         | 1974 VA |         |                       |                       |                         |     |
| Total Amps:                    |             |                |      | 6 A                   |         | 16 A    |         |                       |                       |                         |     |
|                                |             |                |      |                       |         |         |         |                       |                       |                         |     |
| Load Classification            |             | Connected Load |      |                       | Factor  |         | Demand  |                       | Panel Totals          |                         |     |
| HVAC                           |             | 1900 VA        |      |                       | 100.00% |         | 1900 VA |                       |                       |                         |     |
| Receptacle                     |             | 180 VA         |      |                       | 100.00% |         | 180 VA  |                       | Conn. Load: : 2425 VA |                         |     |
| Lighting                       |             | 840 VA         |      |                       | 125.00% |         | 1050 VA |                       | Demand Load: 2548 VA  |                         |     |
|                                |             |                |      |                       |         |         |         |                       | Conn. Amps: 10 A      |                         |     |
|                                |             |                |      |                       |         |         |         |                       | Demand Amps: 11 A     |                         |     |

| Computer File Information                                |             |      | Sheet Revisions |  |       |               | <div><br/><i>Town of</i><br/><b>SNOWMASS</b> <i>Village</i></div> | <div><br/>118 West Sixth Street, Suite 200<br/>Glenwood Springs, CO 81601<br/>970.945.1004 www.sgm-inc.com</div> | As Constructed           |                       | BRUSH CREEK ROUNDABOUT<br>ELECTRICAL SCHEDULES |  |  | Project No./Code |  |
|----------------------------------------------------------|-------------|------|-----------------|--|-------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------|------------------------------------------------|--|--|------------------|--|
| Print Date: 7/10/24                                      | Rev.        | Date | Comments        |  | Init. | No Revisions: |                                                                                                                                                        |                                                                                                                                                                                                       | --                       |                       |                                                |  |  |                  |  |
| Last Modification Date: 7/10/24                          | <div></div> |      |                 |  |       | Revised:      |                                                                                                                                                        |                                                                                                                                                                                                       | Engineer: ALH            | Structure             | ---                                            |  |  |                  |  |
| Drawing File Name: OwlCreek_Round_R24.rvt                | <div></div> |      |                 |  |       | Void:         |                                                                                                                                                        |                                                                                                                                                                                                       | Drawn By: ALH            | Numbers               |                                                |  |  |                  |  |
| Revit Ver. 2024      Scale: As Shown      Units: English | <div></div> |      |                 |  |       |               |                                                                                                                                                        |                                                                                                                                                                                                       | Sheet Subset: ELECTRICAL | Subset Sheets: 6 OF 7 |                                                |  |  |                  |  |
| SGM Project No.: 91004D-83      Quality Control: BC      | <div></div> |      |                 |  |       |               |                                                                                                                                                        |                                                                                                                                                                                                       | Sheet Number: 73         |                       |                                                |  |  |                  |  |

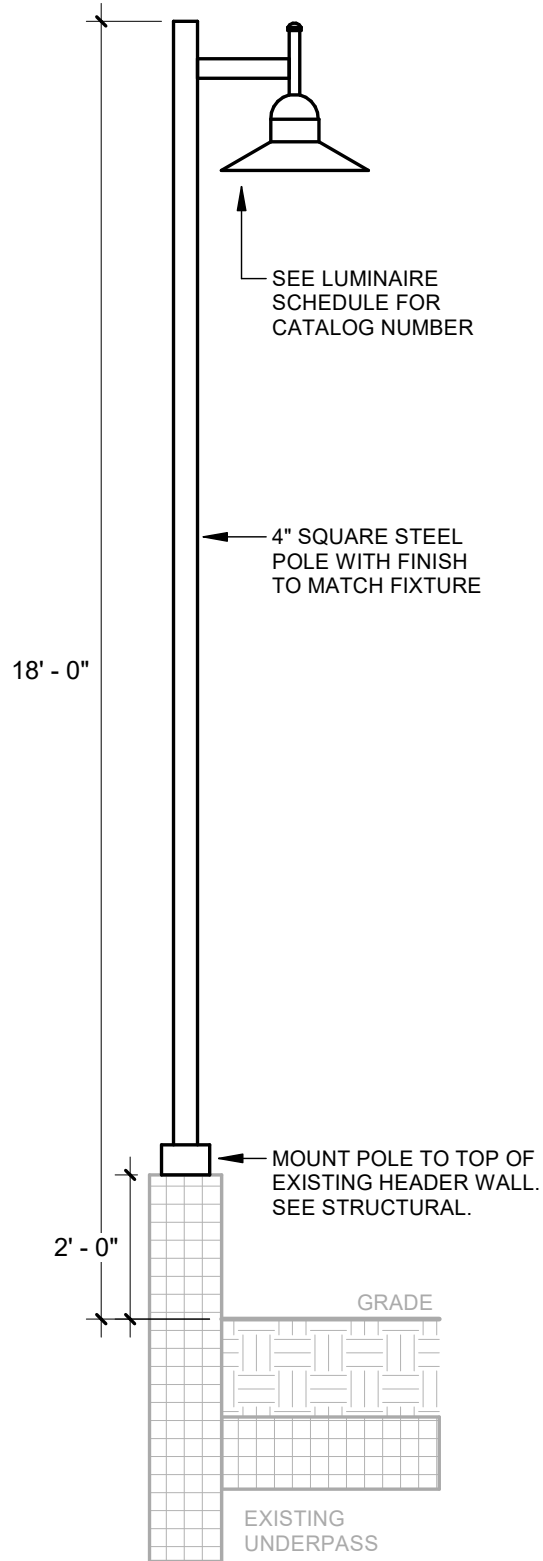


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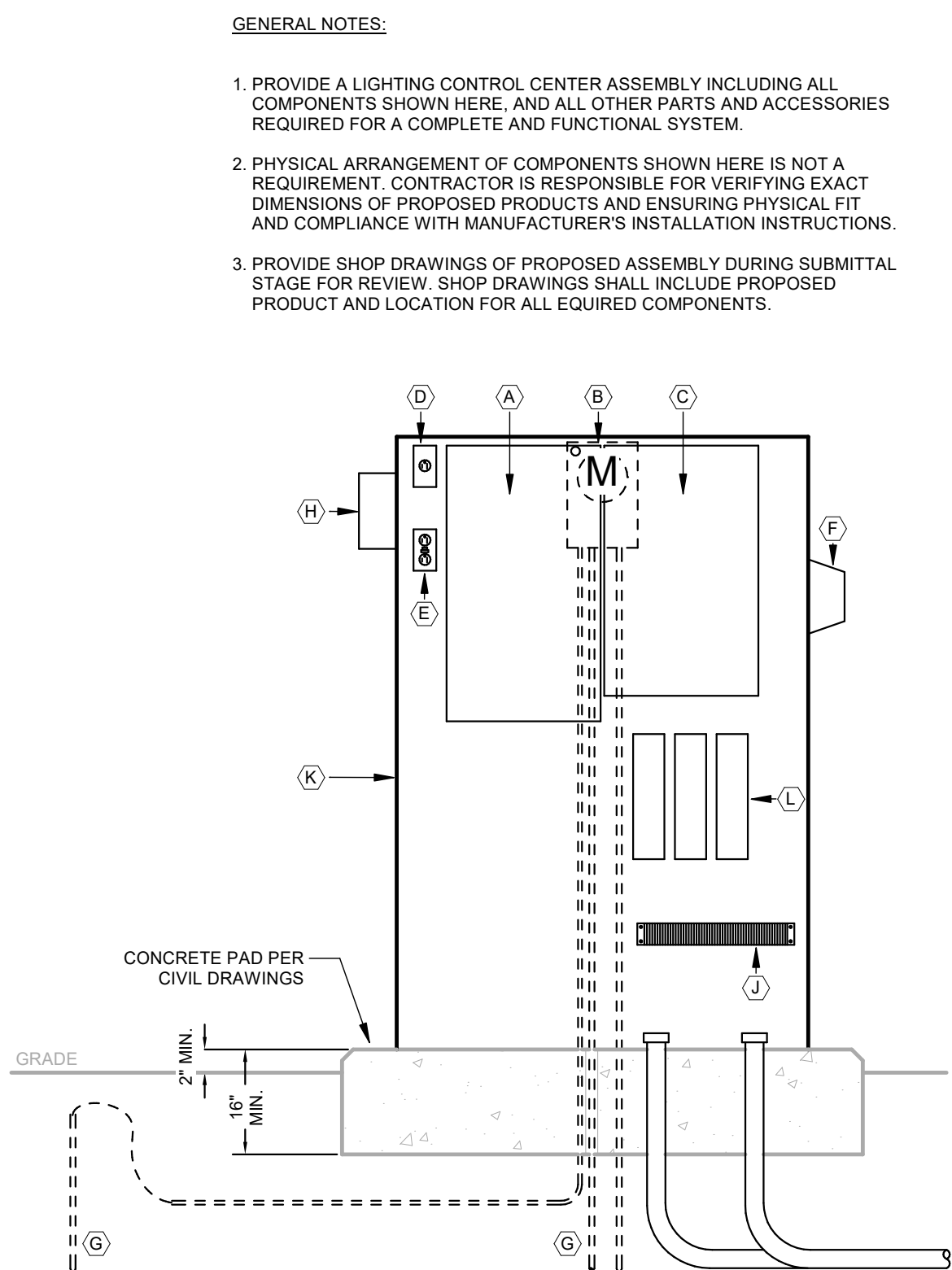
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1 LUMINAIRE DETAIL - P1  
SCALE: 3/8" = 1'-0"



2 LUMINAIRE DETAIL - P2  
SCALE: 3/8" = 1'-0"



3 LIGHTING CONTROL CENTER DETAIL  
NO SCALE

GENERAL NOTES:

1. PROVIDE A LIGHTING CONTROL CENTER ASSEMBLY INCLUDING ALL COMPONENTS SHOWN HERE, AND ALL OTHER PARTS AND ACCESSORIES REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. PHYSICAL ARRANGEMENT OF COMPONENTS SHOWN HERE IS NOT A REQUIREMENT. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXACT DIMENSIONS OF PROPOSED PRODUCTS AND ENSURING PHYSICAL FIT AND COMPLIANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PROVIDE SHOP DRAWINGS OF PROPOSED ASSEMBLY DURING SUBMITTAL STAGE FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE PROPOSED PRODUCT AND LOCATION FOR ALL EQUIRED COMPONENTS.

REQUIRED COMPONENTS:

- (A) POWER PANEL PER PANEL SCHEDULE, MOUNTED INSIDE THE NEMA 4 ENCLOSURE.
- (B) NEMA 3R METER HOUSING PER SERVING UTILITY STANDARDS. MOUNT ON BACK OR SIDE OF NEMA 4 ENCLOSURE. PAINT TO MATCH.
- (C) LIGHTING CONTROL PANEL PER CONTROL PANEL SCHEDULE. INCLUDE PROGRAMMABLE LOGIC CONTROLLER, ASTRONOMICAL CLOCK FUNCTION, KEY PAD WITH LCD DISPLAY AND BATTERY BACKUP IN A NEMA 1 ENCLOSURE. DOUGLAS LIGHTING CONTROLS LITEPAK #WPAK 16-3351-S OR APPROVED EQUAL. MOUNT INSIDE THE NEMA 4 ENCLOSURE.
- (D) HVAC UNIT RECEPTACLE - NEMA 5-20R, SIMPLEX RECEPTACLE WITH COVER. LABEL COVER OF RECEPTACLE "HVAC". MOUNT INSIDE THE NEMA 4 ENCLOSURE.
- (E) MAINTENANCE RECEPTACLE - NEMA 5-15R, GFCI, DUPLEX RECEPTACLE WITH WHILE-IN-USE WEATHERPROOF COVER. MOUNT INSIDE THE NEMA 4 ENCLOSURE.
- (F) PHOTOCELL - LOW VOLTAGE PHOTOCELL COMMUNICATING WITH THE LIGHTING CONTROL PANEL. DOUGLAS LIGHTING CONTROLS #MPS-5527K OR APPROVED EQUAL. LOCATE AND AIM AS NEEDED TO FACE NORTH.
- (G) TWO 3/4"x8' COPPER-CLAD STEEL GROUND RODS SPACED AT LEAST 10' APART AND DRIVEN WITH TOPS AT 30" BELOW GRADE.
- (H) CLIMATE CONTROL UNIT FOR ENCLOSURE. APW MCCLEAN #T20-0216-G150 OR APPROVED EQUAL. CUT SIDEWALL OF ENCLOSURE AS REQUIRED TO INSTALL UNIT. PAINT FEDERAL STANDARD COLOR BROWN (20059) ENAMEL TO MATCH ENCLOSURE.
- (J) TERMINAL STRIP - NUMBER OF POINTS AS REQUIRED, WITH ALL MARKER STRIPS AND MOUNTING HARDWARE. ENSURE THAT LUGS ACCEPT ALL WIRE SIZES SPECIFIED FO BRANCH CIRCUITS.
- (K) VANDAL AND WEATHER RESISTANT OUTER ENCLOSURE - NEMA 4, HINGED COVER, 12 GA. HOT-DIPPED GALVANIZED STEEL, BOTTOMLESS, PAINTED GLOSS WHITE ENAMEL INSIDE AND COLOR PER OWNER OUTSIDE. COORDINATE ENCLOSURE DIMENSIONS AS REQUIRED FOR PROPOSED COMPONENTS AND REQUIRED WIRING SPACE. PROVIDE SHOP DRAWING FOR APPROVAL.
- (L) DRIVERS AS REQUIRED FOR LOW VOLTAGE FIXTURES. REFER TO FIXTURE SCHEDULE FOR DETAILS.

| Computer File Information |                        |                     | Sheet Revisions |      |          | <div></div> <div><br/>118 West Sixth Street, Suite 200<br/>Glenwood Springs, CO 81601<br/>970.945.1004 www.sgm-inc.com</div> | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>ELECTRICAL DETAILS |            |                | Project No./Code |
|---------------------------|------------------------|---------------------|-----------------|------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|----------------------------------------------|------------|----------------|------------------|
| Print Date:               | 7/10/24                |                     | Rev.            | Date | Comments |                                                                                                                                                                                                                                                                                                        | No Revisions:  |  |                                              |            |                | --               |
| Last Modification Date:   | 7/10/24                |                     | <div></div>     |      |          |                                                                                                                                                                                                                                                                                                        | Revised:       |  | Engineer:                                    | ALH        | Structure      | --               |
| Drawing File Name:        | OwlCreek_Round_R24.rvt |                     | <div></div>     |      |          |                                                                                                                                                                                                                                                                                                        | Void:          |  | Drawn By:                                    | ALH        | Numbers        | ---              |
| Revit Ver. 2024           | Scale: As Shown        | Units: English      | <div></div>     |      |          |                                                                                                                                                                                                                                                                                                        |                |  | Sheet Subset:                                | ELECTRICAL | Subset Sheets: | 7 OF 7           |
| SGM Project No.:          | 91004D-83              | Quality Control: BC |                 |      |          |                                                                                                                                                                                                                                                                                                        |                |  |                                              |            |                | Sheet Number: 74 |



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1. SITE DESCRIPTION

The Contractor shall comply with all CDOT contractual requirements, and all requirements associated with the CDPS-SCP on this project. The SWMP Administrator for Construction shall update the SWMP to reflect current project site conditions.

A. PROJECT SITE LOCATION:

Location or address of construction office: Brush Creek Road and Owl Creek Road, Town of Snowmass Village, Colorado, including portions of the Mayfly Trail, Brush Creek Path, and Anderson Ranch Driveway.

B. PROJECT SITE DESCRIPTION:

The project consists of the construction of a roundabout, retaining walls, a pedestrian bridge, and the reconstruction of adjacent roadways and trails, and the installation of new storm sewer infrastructure.

C. PROPOSED SCHEDULE FOR SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES:

Mobilization  
Removal of existing trails and roadway  
Retaining wall construction  
Storm Sewer installation  
Roadway, sidewalk, and trail construction

D. ACRES OF DISTURBANCE:

- 1. Total area of construction site (LOC (PERMITTED AREA)): 2.4 acres
- 2. Total area of proposed disturbance (LDA): 2.6 acres
- 3. Total area of seeding: TBD acres
- 4. Total area of pre-project impervious surface: 99,853 sq. ft.
- 5. Total area of final impervious surface: 99,853 sq. ft.

E. EXISTING SOIL DATA:

The existing soils onsite generally consist of silty clay loam, along with very gravelly sand. The soils are classified as hydrologic soil group C. The existing subgrade soils generally classify as A-7-6 with a group index less than 10 in accordance with the American Association of State Highway Transportation Officials (AASHTO) soil classification system. An R-value of about 10 was estimated.  
Data Source(s): CTL Thompson; USDA Web Soil Survey

F. EXISTING VEGETATION, INCLUDING PERCENT OF VEGETATIVE COVER:

During design, the SWMP Administrator for Design in consultation with the Engineer will determine if the SWMP Administrator for Design or the SWMP Administrator for Construction will conduct the Vegetation Transects. If the site is disturbed, an Adequate Reference Site(s) may be utilized, refer to the permit.

Pre-Construction Date of survey: \_\_\_\_\_ Percent Existing Vegetative Cover: \_\_\_\_\_

Description of existing vegetation: \_\_\_\_\_

Method for determining percent vegetative cover: \_\_\_\_\_

Include a map or table showing transect locations, photos documenting pre-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

Post-Construction Date of survey: \_\_\_\_\_ Percent Vegetative Cover: \_\_\_\_\_

Description of vegetation: \_\_\_\_\_

The method used to determine pre-construction percent cover shall be used to determine post construction percent cover.

Include map or table showing transect locations, photos documenting post-Construction vegetative cover, and methodology used to determine existing vegetative cover to SWMP tab 17:

G. POTENTIAL POLLUTANTS SOURCES:

Refer to Potential Pollutant Sources in SWMP Section 4A. The SWMP Administrator for Construction shall prepare a list of all potential pollutants and their locations in accordance with subsection 107.25.

H. DRAINAGE PATTERNS AND RECEIVING WATER(S):

- 1. Description of drainage patterns from the Site: The storm water within the project limits drains northward before it is collected and outfalls in Brush Creek.
- 2. Names of immediate and ultimate receiving water(s) on site: Brush Creek
- 3. Description of all stream crossings located within the Construction Site Boundary:

| Location | Stream Name | Description of Any Disturbed Upland Area     |
|----------|-------------|----------------------------------------------|
|          | Brush Creek | Cut/Fill for Brush Creek Road and Roundabout |
|          |             |                                              |

I. ALLOWABLE NON-STORMWATER DISCHARGES:

| Discharge Description                             | Site Map # | Method Statement (Location) |
|---------------------------------------------------|------------|-----------------------------|
| Dewatering*                                       |            |                             |
| Uncontaminated Spring                             |            |                             |
| Concrete Wash Water (in-ground washout structure) |            |                             |
| Landscape Irrigation Return Flows                 |            |                             |
| Emergency Fire Fighting                           |            |                             |

#Concrete washout water associated with the washing of concrete tools and concrete mixer chutes can be discharged to the ground if site is managed accordingly to prevent the water from leaving the site as surface runoff or reaching receiving waters.

J. DIVERSION CRITERIA:

- 1. Is a diversion planned for the Site? No.

K. ALTERNATIVE TEMPORARY STABILIZATION SCHEDULE:

[If applicable, provide a description of the alternative temporary stabilization schedule. If temporary stabilization exceeds the 14-day schedule, then the SWMP must document the constraints necessitating the alternative schedule, provide the alternative schedule, and identify all the locations where the alternative schedule is applicable on the site map. Alternative temporary stabilization schedules must be approved by CDOT prior to implementation]

2. SITE MAP COMPONENTS:

Pre-construction

A. PROJECT CONSTRUCTION POTENTIAL SITE BOUNDARIES: [See Erosion Control Plan]

B. FLOW ARROWS THAT DEPICT STORMWATER FLOW DIRECTIONS ON-SITE, RUN-ON AND RUNOFF DIRECTION: [See Erosion Control Plan]

C. ALL AREAS OF GROUND SURFACE DISTURBANCE: [See Erosion Control Plan]

D. AREAS OF CUT AND FILL: [See Erosion Control Plan]

E. AREAS USED FOR STORING AND STOCKPILING OF MATERIALS, STAGING AREAS (field trailer, fueling, etc.) and LOCATIONS OF ALL WASTE ACCUMULATION and BATCH PLANTS INCLUDING MASONRY MIXING STATIONS: [See Erosion Control Plan]

F. LOCATION OF ALL STRUCTURAL CONTROL MEASURES IDENTIFIED IN THE SWMP: [See Erosion Control Plan]

G. LOCATION OF NON-STRUCTURAL CONTROL MEASURES AS APPLICABLE IN THE SWMP:[See Erosion Control Plan]

H. SPRINGS, STREAMS, WETLANDS, DIVERSIONS, AND OTHER STATE WATERS, INCLUDING AREAS THAT REQUIRE PRE-EXISTING VEGETATION BE MAINTAINED WITHIN 50 FEET OF A RECEIVING WATER: [See Erosion Control Plan]

I. LOCATIONS OF ALL STREAM CROSSING LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY: [See Erosion Control Plan]

J. PROTECTION OF TREES, SHRUBS, SENSITIVE HABITAT, AND CULTURAL RESOURCES: [See Erosion Control Plan]

K. LOCATIONS WHERE ALTERNATIVE TEMPORARY STABILIZATION SCHEDULES APPLY: [See Erosion Control Plan]

3. QUALIFIED STORMWATER MANAGERS:

A. SWMP ADMINISTRATOR FOR DESIGN:

CDOT Certified Individual responsible for developing SWMP Plan Sheets and SWMP Site Maps during the design phase.

| Name/Title   | Contact Information              | Certification # |
|--------------|----------------------------------|-----------------|
| Ashley Cline | 970-384-9061/ashleyc@sgm-inc.com | 20425A18        |

B. SWMP ADMINISTRATOR FOR CONSTRUCTION: (As defined in Section 208) The Contractor shall designate a SWMP Administrator for Construction upon accepting co-permittee of the permit. The SWMP Administrator for Construction shall become the operator for the SWMP and assume responsibility for all design changes to the SWMP implementation and maintenance in accordance to 208.03, the SWMP shall remain the property of CDOT. The SWMP Administrator for Construction shall be responsible for implementing, maintaining and revising SWMP, including the title and contact information. The activities and responsibilities of the SWMP Administrator for Construction shall address all aspects of the project's SWMP. (Update the information below for each new SWMP Administrator for Construction) (A copy of TECS Certification must be included in the SWMP.)

| Name/Title | Contact Information (phone & email) | Certification # | Start Date | Engineer Approval |
|------------|-------------------------------------|-----------------|------------|-------------------|
|            |                                     |                 |            |                   |
|            |                                     |                 |            |                   |
|            |                                     |                 |            |                   |

C. EROSION CONTROL INSPECTOR: (As defined in Section 208) The Contractor may designate an Erosion Control Inspector. The Erosion Control Inspector shall complete duties in accordance with subsection 208.03 (c) (Copy of TECS Certification must also be included in the SWMP.)

| Name/Title | Contact Information (phone & email) | Certification # | Start Date | Engineer Approval |
|------------|-------------------------------------|-----------------|------------|-------------------|
|            |                                     |                 |            |                   |
|            |                                     |                 |            |                   |
|            |                                     |                 |            |                   |

D. PERMANENT STABILIZATION SUBJECT MATTER EXPERT: This qualified individual will be either a Regional Environmental Staff member, or an Independent Contractor Controller (Independent Assurance Program). This expert is a project team leader responsible for ensuring project adherence to requirements of the 207 and 212 Project Special Provisions as follows and will be available for questions regarding permanent stabilization requirements.

| Name/Title | Contact Information |
|------------|---------------------|
|            |                     |

- 1. Review the Topsoil Management Plan and the Permanent Stabilization Site Maps.
- 2. Attend the Environmental Pre-Construction Conference.
- 3. Coordinate the Site Pre-Vegetation Conference.
- 4. Review and recommend approval of products.
- 5. Review and recommend approval of the Quantities Verification Prerequisite.
- 6. Attend the Partial Landscape Completion Walkthrough.
- 7. Attend the Final Landscape Completion Walkthrough.

| Computer File Information            |  | Sheet Revisions                |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed | BRUSH CREEK ROUNDABOUT<br>STORMWATER MANAGEMENT PLAN (1) |                   |        | Project No./Code |    |
|--------------------------------------|--|--------------------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|-------------------|--------|------------------|----|
| Print Date: 4/1/25                   |  | Rev.                           | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |                                                          |                   |        | --               |    |
| Last Modification Date: 4/1/25       |  | <input type="text" value="1"/> |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       | Engineer: AMC                                            | Structure Numbers | --     | --               |    |
| Drawing File Name: BrushCreekRB_SWMP |  | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          | Drawn By: EJM                                            |                   | --     |                  |    |
| Autocad Ver. 2022 Scale: As Shown    |  | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                | Sheet Subset: SWMP                                       | Subset Sheets:    | 1 of 5 | Sheet Number     | 88 |



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4. STORMWATER MANAGEMENT CONTROLS FOR FIRST CONSTRUCTION ACTIVITIES  
THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

A. POTENTIAL POLLUTANT SOURCES:

Evaluate, identify, locate and describe all potential sources of pollutants at the site in accordance with subsection 107.25, CDPS-SCP and place in the SWMP. All control measures related to potential pollutants shall be shown on the SWMP Site Map by the Contractor's SWMP Administrator for Construction.

B. OFFSITE DRAINAGE (RUN ON WATER):

Describe and record control measures on the SWMP Site Map that have been implemented to address off site run-on water in accordance with subsection 208.03.

C. VEHICLE TRACKING CONTROL:

Control measures shall be implemented in accordance with subsection 208.04.

D. PERIMETER CONTROL:

- Perimeter control shall be established as the first item on the SWMP to prevent the potential for pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters. Perimeter control shall be in accordance with subsection 208.04
- Perimeter control may consist of berms, silt fence, erosion logs, existing landforms, or other control measures as approved.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR FOR CONSTRUCTION: Considered a "living document", the SWMP is continuously reviewed and modified throughout the construction phases. During construction, SWMP Administrator for Construction shall add, update, or amend the items A-G below as needed in accordance with subsection 208.03.

During construction, indicate how items that were not addressed during design are being handled in construction. If items are covered in other sections of the SWMP, indicate below what section the discussion takes place.

A. MATERIALS HANDLING AND SPILL PREVENTION AND RESPONSE PLAN: Prior to construction commencing the Contractor shall submit a Spill Response Plan. Materials handling and Spill Response Plan shall be in accordance with subsection 208.06.

B. OTHER CDPS PERMITS: List applicable CDPS permits associated with the permitted site and activities.

C. STOCKPILE MANAGEMENT: Shall be done in accordance with subsections 107.25 and 208.07.

D. CONCRETE WASHOUT: Concrete washout water or waste from field laboratories and paving equipment shall be contained in accordance with subsection 208.05.

E. SAW CUTTING: Shall be done in accordance with subsections 107.25, 208.04, 208.05

F. STREET SWEEPING: Shall be done in accordance with subsection 208.04.

6. INSPECTIONS

A. Water Quality Inspections shall be in accordance with subsection 208.03(c).

B. Permanent Stabilization Inspections shall be in accordance with subsections 208.04(e)4 and 208.10.

7. CONTROL MEASURE MAINTENANCE

Maintenance shall be in accordance with subsection 208.04(f).

8. RECORD KEEPING

Records shall be kept in accordance with subsection 208.03(d).

9. INTERIM, PERMANENT STABILIZATION and LONG-TERM STORMWATER MANAGEMENT

The Contractor shall comply with all interim stabilization and permanent stabilization requirements in accordance with subsection 208.04(e).

A. SEEDING PLAN:

The following seed mix(es) and rates are for drill seeding method as shown on the Permanent Stabilization Site Maps shall be used:

| COMMON NAME | BOTANICAL NAME | LBS. PLS. PER ACRE |
|-------------|----------------|--------------------|
|             |                |                    |
|             |                |                    |
|             |                |                    |
|             |                |                    |
|             |                |                    |
|             |                |                    |
|             |                |                    |
|             |                |                    |
| TOTAL       |                |                    |

B. SEEDING APPLICATION METHOD:

The following seeding methods shall be used for all areas shown on the Permanent Stabilization Site Maps. Soil compaction shall be minimized for areas where permanent stabilization will be achieved through vegetative cover.

| SEEDING METHOD (subsection 21.05)                    | ACRE |
|------------------------------------------------------|------|
| Seeding (Native) Drill, CDOT Pay Item 212-00706      |      |
| Seeding (Native) Hydraulic, CDOT Pay Item 212-00707  |      |
| Seeding (Native) Broadcast, CDOT Pay Item 212-00708  |      |
| Seeding (Wetland) Drill, CDOT Pay Item 212-00709     |      |
| Seeding (Wetland) Hydraulic, CDOT Pay Item 212-00710 |      |
| Seeding (Wetland) Broadcast, CDOT Pay Item 212-00711 |      |
| TOTAL                                                |      |

C. SOIL STABILIZATION METHODS:

Minimum soil stabilization methods (attached mulch) for all disturbances to receive seeding.

- Apply a minimum of 2 tons/ac certified weed free hay or 2 ½ tons/ac of certified weed free straw and mechanically crimp into the soil in combination with natural mulch tackifier in accordance with Section 213. Prior to winter shutdown or the summer seeding window closure: Uncompleted slopes shall be mulched with 2 tons of mulching (weed free) per acre, mechanically crimped into the topsoil in combination with an organic mulch tackifier in accordance with Sections 208 and 213.
- Apply Bonded Fiber Matrix hydraulically accordance with Section 213.

D. SPECIAL REQUIREMENTS:

- Soil amendments, seedbed preparation, and permanent stabilization mulching shall be accomplished within four working days of placing the topsoil on the de-compacted civil subgrades. If placed topsoil is not mulched with permanent stabilization mulch within four working days, the Contractor shall complete interim stabilization methods in accordance with subsection 208.04(e) at no additional cost to the Department.
- Complete permanent stabilization mulching within 24 hours of hydraulic application of native seed.
- The Contractor shall submit a proposed Permanent Stabilization Phasing Plan to the Engineer for approval showing how implementation of SWMP Permanent Stabilization Plans will minimize damage to seeded areas.

E. SOIL AMENDMENT REQUIREMENTS: Minimum amendment material requirements for all disturbances to receive seeding.

**TBD** Total Acres of Seeding (Native) Hydraulic With Topsoil Generated From

Total Acres of Seeding (Native) Hydraulic

|                                                        | Pay Item  | Description                                   | Amount/Acre | Units  | Total For This Method |
|--------------------------------------------------------|-----------|-----------------------------------------------|-------------|--------|-----------------------|
| Seeding (Native)<br>Hydraulic<br>Pay Item<br>212-00707 | 212-00700 | Organic Fertilizer                            |             | Pounds |                       |
|                                                        | 212-00702 | Biotic Soil Amendments<br>(Hydraulic Applied) |             | CY     |                       |
|                                                        | 212-00703 | Humate                                        |             | Pounds |                       |
|                                                        | 212-00704 | Mycorrhizae                                   |             | Pounds |                       |

F. Permanent Stabilization Application Under Structures:

Under structures shade patterns should be considered and the use of Median Cover Material (Stone) or other stabilized options with an approved Project Special Provision should be used. See SWMP Site Map for locations.

G. RESEEDING OPERATIONS/CORRECTIVE STABILIZATION:

Prior to stormwater construction work partial acceptance.

- All seeded areas shall be reviewed by the SWMP Administrator for Construction and or Erosion Control Inspector for bare soils caused by surface or wind erosion. Bare areas caused by surface or gully erosion, blown away mulch, etc. shall be re-graded, seeded, and have the designated mulching applied as necessary, at no additional cost to the project.
- The Contractor shall maintain seeding/mulch/tackifier/blanket/TRM, mow to control weeds or apply herbicide to control weeds in the seeded areas, at no additional cost to the project.

H. LOCATION AND DESCRIPTION OF PLANNED PERMANENT CONTROL MEASURES: Is Permanent Water Quality Required? No

10. PRIOR TO PROJECT FINAL ACCEPTANCE

- When directed by the Engineer, removal and disposal of temporary control measures shall be included in the cost of work.
- At the end of the project, all ditch checks shall consist of either temporary erosion logs (or equivalent) or permanent riprap.
- All storm drains shall be cleaned prior to the Final Acceptance of the project. If required, include work in 202-04002 Clean Culvert. **[\*\*Check with Region Water Quality staff to see if CLEAN CULVERT PSP is needed and what Pay Item to use.\*\*]**
- Refer to subsection 208.10 for Items to be completed prior to requesting partial acceptance of water quality work.

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| Print Date: 4/1/25                   |                      | Rev.                           | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |                                                          |      |                | --               |                 |
| Last Modification Date: 4/1/25       |                      | <input type="text" value="1"/> |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       | Engineer:                                                | AMC  | Structure      | --               | --              |
| Drawing File Name: BrushCreekRB_SWMP |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                | Drawn By:                                                | EJM  | Numbers        | --               |                 |
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| SGM Project No.: 91004D-83           | Quality Control: MDF | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                |                                                          |      |                |                  |                 |



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11. NARRATIVES:

Control Measure Matrixes During Construction:

1. Control measure narratives have been included for the CDOT Standard Specifications and Standard Plan M-208 and M-216 along with any non-standard control measures approved during the design process. If a Non-Standard Control Measure not included in the SWMP is proposed and approved by the Engineer the SWMP Administrator for Construction shall do the following: Place an "X" in the column for non-standard and complete a Non-Standard Control Measure Specification and Narrative covering the what, when, where and why the control measure is being used shall be add to the SWMP. The appropriate "X" shall also be added to the implementation phase(s).
2. The SWMP Administrator for Construction shall place an "X" in the column In Use On Site when the control measure has been installed.
3. A "B" in the Initial Activities Column indicates that the control measure shall be installed before construction activity starts. Locations and quantities will be discussed during the Environmental Pre-Construction Conference with the Regional Water Pollution Control Manager.

STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:

| APPLICATION,<br>CONTROL MEASURE                                                                                      | NARRATIVE                                                                                                                                                                                                                                                                                                                                                                                                                                        | M-<br>STANDARD or<br>"X" for NON-<br>STANDARD | IN<br>USE<br>ON<br>SITE | CONTROL MEASURE IMPLEMENTATION PHASE |                       |                            |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|--------------------------------------|-----------------------|----------------------------|
|                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                         | INITIAL<br>ACTIVITIES                | INTERIM<br>ACTIVITIES | PERMANENT<br>STABILIZATION |
| PROTECTION OF EXISTING WETLANDS<br>Fence (plastic) and erosion logs                                                  | Fence (plastic) shall be placed in combination with erosion logs to prevent encroachment of construction traffic and sediment into state waters prior to start of construction disturbances. Fence (plastic) shall be placed adjacent to the wetlands; erosion logs shall be placed between the plastic fence and disturbance area. Logs shall be placed to direct flows away from or filter water running into wetlands from disturbance areas. |                                               |                         |                                      |                       |                            |
| PROTECTION OF EXISTING TREES/LANDSCAPING<br>Fence (plastic)                                                          | Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.                                                                                                                                                                                                           |                                               |                         | X                                    |                       |                            |
| CHECK DAM/DITCH CHECK<br>Erosion log, silt berm, silt dike, rock check dam                                           | Placed in ditches immediately upon completion of ditch grading to reduce velocity of runoff in ditch. For existing ditches, place prior to start of construction disturbances.                                                                                                                                                                                                                                                                   | M-208                                         |                         |                                      | X                     |                            |
| Storm Drain Inlet Protection In Paved Roadways (Type 1, 2 and 3 as shown on M-208-1, sheet 5 of 11)                  | Manufactured storm drain inlet protection placed prior to construction disturbances as detailed in M-208-1, to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.                                                                                                                                                                                         | M-208                                         |                         |                                      | X                     |                            |
| Storm Drain Inlet Protection In Native Seed Areas (M-604 Standard Inlets Type C and D)                               | Erosion logs or aggregate bags placed around inlet grate to prevent sediment from entering inlet. Place prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets.                                                                                                                                                                                                                              | M-208                                         |                         |                                      | X                     |                            |
| CULVERT INLET/OUTLET PROTECTION<br>Erosion logs, aggregate bags                                                      | Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.                                                                                                                                                                                             | M-208                                         |                         |                                      | X                     |                            |
| TYPE C, TYPE D AND TYPE 13 PROTECTION<br>Erosion logs, aggregate bags, erosion bales                                 | Placed around inlet grate or slope and ditch paving to prevent sediment from entering inlet. Place prior to start of construction disturbances.                                                                                                                                                                                                                                                                                                  | M-208                                         |                         |                                      |                       |                            |
| STOCKPILE PROTECTION<br>Temporary berm, erosion logs, aggregate bags*                                                | Placed within specified distance, in accordance with subsection 208.06, from toe to contain sediment around stockpile. *Aggregate bags are easily moved and replaced for access during the work day. Place prior to start of stockpile, increase control as stockpile increases size.                                                                                                                                                            | M-208                                         |                         |                                      |                       |                            |
| TOE OF FILL PROTECTION<br>Erosion logs, temporary berm, silt fence, topsoil windrow*                                 | Place prior to slope/embankment work to capture sediment and protect and delineate undisturbed areas. *Can be used to stockpile topsoil for salvage.                                                                                                                                                                                                                                                                                             | M-208                                         |                         |                                      |                       |                            |
| PERIMETER CONTROL<br>Erosion logs, silt fence, temporary berm, topsoil windrow*                                      | Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area. *Can be used to stockpile topsoil for salvage.                                                                                                                                                                                                                                                                     | M-208                                         |                         |                                      | X                     |                            |
| SEDIMENT CONTROL/SLOPE CONTROL<br>Silt fence, erosion logs                                                           | Placed on the contour of a slope to contain and slow down construction runoff. Place prior to start of construction disturbances.                                                                                                                                                                                                                                                                                                                | M-208                                         |                         |                                      |                       |                            |
| TEMPORARY SEDIMENT TRAP                                                                                              | Used to capture sediment laden runoff from disturbed areas < 5 acres during construction. Place prior to start of construction disturbances. Outlets that withdraw water from or near the surface may be installed when discharging from basins and impoundments.                                                                                                                                                                                | M-208                                         |                         |                                      |                       |                            |
| EMBANKMENT PROTECTION OR TEMPORARY SLOPE DRAIN                                                                       | Placed as a conduit or chute to drain runoff down slope and to prevent erosion of slope.                                                                                                                                                                                                                                                                                                                                                         | M-208                                         |                         |                                      |                       |                            |
| OUTLET PROTECTION<br>Riprap, or approved other                                                                       | Material placed as energy dissipator to prevent erosion at outlet structure.                                                                                                                                                                                                                                                                                                                                                                     | M-601-12                                      |                         |                                      |                       |                            |
| CONCRETE WASHOUT<br>In-ground or fabricated                                                                          | Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.                                                                                                                                                                                                                                                                                                        | M-208                                         |                         | X                                    | X                     |                            |
| VEHICLE TRACKING PAD                                                                                                 | Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.                                                                                                                                                                                                                                                                                                | M-208                                         |                         | X                                    | X                     |                            |
| Engineered SEDIMENT BASIN                                                                                            | Constructed early in project, prior to storm sewer/ditches and in accordance with 208.05(p) to capture storm flow. Outlet structure and/or outfall shall be modified for temporary sediment control using an approved non-standard detail. Outlets that withdraw water from or near the surface shall be installed when discharging from basins and impoundments, unless infeasible                                                              |                                               |                         |                                      |                       |                            |
| DEWATERING<br>(Contractor is responsible for obtaining a permit from Colorado Department of Health and Environment.) | Shall be done in such a manner to prevent potential pollutants from entering state waters.                                                                                                                                                                                                                                                                                                                                                       |                                               |                         |                                      |                       |                            |
| TEMPORARY STREAM CROSSING                                                                                            | Constructed over stream or drainage to prevent discharge of pollutants from construction equipment into water.                                                                                                                                                                                                                                                                                                                                   |                                               |                         |                                      |                       |                            |
| CLEAN WATER DIVERSION                                                                                                | Placed to divert clean surface or ground water around disturbance area to prevent it from mixing with construction runoff.                                                                                                                                                                                                                                                                                                                       |                                               |                         |                                      |                       |                            |
| OTHER                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                               |                         |                                      |                       |                            |

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|--------------------------------------|----------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|----------------------------------------------------------|------|-------------------|------------------|-----------------|
| Print Date: 4/1/25                   |                      | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  |                                                          |      |                   | --               |                 |
| Last Modification Date: 4/1/25       |                      | <div>1</div>    |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Engineer:                                                | AMC  | Structure Numbers | --               | --              |
| Drawing File Name: BrushCreekRB_SWMP |                      | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Drawn By:                                                | EJM  |                   | --               |                 |
| Autocad Ver. 2022 Scale: As Shown    |                      | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  | Sheet Subset:                                            | SWMP | Subset Sheets:    | 3 of 5           | Sheet Number 90 |
| SGM Project No.: 91004D-83           | Quality Control: MDF | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                          |      |                   |                  |                 |

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NON-STRUCTURAL Control Measures that may be potentially used on the project for erosion and sediment control; practices may include, but are not limited to:  
Erosion control devices are used to limit the amount of soil loss on site. Sediment control devices are designed to capture sediment on the project site. Construction controls are control measures related to construction access and staging. Control Measure locations are indicated on the SWMP Site Map.

\* Use of vegetative buffer strip requirements. The CDPHE Water Quality Control Division Technical Memorandum dated August 27, 2015 clarifies the requirements for utilization of existing vegetation as a buffer type of sediment control measure, while maintaining compliance with the CDPS permit for Stormwater Discharges Associated with Construction Activity - CDPS Permit No. COR4000000. In general, the division does not recommend that vegetated buffers be implemented as a sediment removal control measure for runoff from disturbed areas at construction sites, unless implemented as a "finishing" component of a treatment train comprised of additional, adequate up-gradient Control Measures. The entire memorandum can be found at: <https://www.colorado.gov/pacific/sites/default/files/Vegetative%20Buffer%20Memo.pdf>

| APPLICATION,<br>BMP/CONTROL MEASURE                                                                  | NARRATIVE                                                                                                                                                                                                                                                                                                                          | M-<br>STANDARD or<br>"X" for<br>NON-<br>STANDARD | IN<br>USE<br>ON<br>SITE | CONTROL MEASURE IMPLEMENTATION PHASE |                       |                            |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------|--------------------------------------|-----------------------|----------------------------|
|                                                                                                      |                                                                                                                                                                                                                                                                                                                                    |                                                  |                         | INITIAL<br>ACTIVITIES                | INTERIM<br>ACTIVITIES | PERMANENT<br>STABILIZATION |
| * <i>VEGETATIVE BUFFER STRIP<br/>Fence (plastic)</i>                                                 | Finishing component for filtering sediment-laden runoff from disturbance area. Area within CDOT ROW or temporary easement to be identified on SWMP prior to construction starting.                                                                                                                                                 |                                                  |                         |                                      |                       |                            |
| <i>GRADING APPLICATIONS (LANDFORM)</i>                                                               | Existing or created landforms may be used as a control measure if they prevent sediment from entering or leaving the disturbance area. If a landform directs flow of water to a concentrated outfall point, the outfall point shall be protected to prevent erosion. Area to be identified on SWMP prior to construction starting. | M-208                                            |                         |                                      |                       |                            |
| <i>TOPSOIL MANAGEMENT STOCKPILE/SALVAGE<br/>Windrow or stockpile</i>                                 | Prior to embankment work commencing, existing topsoil shall be scraped to a depth of 4 inches or as specified, and placed in stockpiles or windrows. Upon completion of final grading, topsoil shall be evenly distributed over embankment to a depth of 4 inches or as specified.                                                 | M-208                                            |                         |                                      |                       |                            |
| <i>SURFACE ROUGHENING / GRADING TECHNIQUES</i>                                                       | Temporary stabilization of disturbance and to minimize wind and erosion.                                                                                                                                                                                                                                                           |                                                  |                         |                                      |                       |                            |
| <i>SEEDING (TEMPORARY)</i>                                                                           | Temporary stabilization used for over wintering of disturbance or used to control erosion for areas scheduled for future construction.                                                                                                                                                                                             |                                                  |                         |                                      |                       |                            |
| <i>BONDED FIBER MATRIX or MULCHING (HYDRAULIC)</i>                                                   | Not to be used in areas of concentrated flows, i.e. ditch lines. To be for either Interim or Permanent Stabilization placed as a surface cover for erosion control. May be used as surface cover when work is temporarily halted and as approved by the Engineer for stockpiles.                                                   |                                                  |                         |                                      |                       | X                          |
| <i>Straw or Hay MULCH/MULCH TACKIFIER</i>                                                            | Interim or Permanent Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as Interim Stabilization as a surface cover when work is temporarily halted and as approved by the Engineer                                                                                         |                                                  |                         |                                      |                       | X                          |
| <i>SPRAY-ON MULCH BLANKET (Not to be used in areas of<br/>concentrated flows, i.e. ditch lines.)</i> | Interim or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer                                                                                                              |                                                  |                         |                                      |                       |                            |
| <i>SEEDING PERMANENT (NATIVE)</i>                                                                    | Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.                                                                                                                                                                                                                                    |                                                  |                         |                                      |                       | X                          |
| <i>SOIL RETENTION BLANKET (SRB)</i>                                                                  | Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.                                                                                                                                                                                                                                    | M-216                                            |                         |                                      |                       | X                          |
| <i>TURF REINFORCEMENT MAT (TRM)</i>                                                                  | Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas. Placed in channels or on slopes for erosion control, channel liner and seeding establishment.                                                                                                                                      | M-216                                            |                         |                                      |                       |                            |
| <i>Sweeping</i>                                                                                      | Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.                                                                                                     |                                                  |                         | X                                    | X                     |                            |
| <i>OTHER</i>                                                                                         |                                                                                                                                                                                                                                                                                                                                    |                                                  |                         |                                      |                       |                            |

| Computer File Information            |                 | Sheet Revisions      |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>STORMWATER MANAGEMENT PLAN (4) |     |                   | Project No./Code |                 |
|--------------------------------------|-----------------|----------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|----------------------------------------------------------|-----|-------------------|------------------|-----------------|
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| Last Modification Date: 4/1/25       |                 | <div>1</div>         |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Engineer:                                                | AMC | Structure Numbers | --               | --              |
| Drawing File Name: BrushCreekRB_SWMP |                 |                      |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Drawn By:                                                | EJM |                   | --               |                 |
| Autocad Ver. 2022                    | Scale: As Shown |                      |      |          |       |                                                                                       |                                                                                                                                                                                         | Sheet Subset:  |  | SWMP                                                     |     | Subset Sheets:    | 4 of 5           |                 |
| SGM Project No.: 91004D-83           |                 | Quality Control: MDF |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                          |     |                   |                  | Sheet Number 91 |



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12. TABULATION OF STORMWATER QUANTITIES

- A.Control Measure sediment removal and disposal shall be paid for as: 208 Removal and Disposal of Sediment (Equipment) and 208 Removal and Disposal of Sediment (Labor). All other control measure maintenance shall be included in the cost of the control measure.
- B. It is estimated that 30 hours of blading (140-250 horsepower), dozing (130-250 horsepower) and/or combination loader (80-125 horsepower) may be required for miscellaneous erosion control work as directed by the Engineer. Work shall be paid for as: 203 Blading, 203 Dozing and/or 203 Combination Loader.
- C.This project includes pay items 214-00008 Extended Landscape Preservation. Refer the project special provision for all work to be performed during the extended landscape maintenance period for this project.

[Designer to delete all that do not apply. Designer to verify SWMP tabulations quantities are included in the Summary of Approximate Quantities]

[The following pay items can be used for interim stabilization as defined in section 208.04(e)(2): 213-00002, 213-00003, 213-00004, 213-00007, 213-00012, 213-00013, 213-00061, 213-00150, 213-00151]

[X in the PSP Spec Column refers to approved Project Special Provisions (PSP) located on the Landscape Architecture website. If used on the project the designer should make sure the PSP is included in all reviews and the final contract]

[R1 in the PSP Spec. Column refers to Region 1 only PSP]

[W in the PSP Spec. Column refers to Project Special Provision Worksheets that are available on this website  
[https://www.codot.gov/business/designsupport/cdot-construction-specifications/2019-construction-specifications/project-special-provision-work-sheets?b\\_start:int=20](https://www.codot.gov/business/designsupport/cdot-construction-specifications/2019-construction-specifications/project-special-provision-work-sheets?b_start:int=20)]

| Pay Item  | Description                                  | Pay Unit | Intital Const. | Interim Const. | Permanent Stabilization | *Total Quantity |
|-----------|----------------------------------------------|----------|----------------|----------------|-------------------------|-----------------|
| 207-00700 | TOPSOIL (ONSITE)                             | CY       |                | 419            |                         | 419             |
| 208-00002 | EROSION LOG TYPE 1 (12 INCH)                 | LF       |                | 605            |                         | 605             |
| 208-00045 | CONCRETE WASHOUT STRUCTURE                   | EACH     |                | 1              |                         | 1               |
| 208-00054 | STORM DRAIN INLET PROTECTION (TYPE II)       | EACH     |                | 3              |                         | 3               |
| 208-00070 | VEHICLE TRACKING PAD                         | EACH     |                | 2              |                         | 2               |
| 208-00103 | REMOVAL AND DISPOSAL OF SEDIMENT (LABOR)     | HOUR     |                | 20             |                         | 20              |
| 208-00105 | REMOVAL AND DISPOSAL OF SEDIMENT (EQUIPMENT) | HOUR     |                | 20             |                         | 20              |
| 208-00107 | REMOVAL OF TRASH                             | HOUR     |                | 20             |                         | 20              |
| 208-00207 | EROSION CONTROL MANAGEMENT                   | DAY      |                | 60             |                         | 60              |
| 212-00700 | ORGANIC FERTILIZER                           | LB       |                |                | 156                     | 156             |
| 212-00701 | COMPOST (MECHANICALLY APPLIED)               | CY       |                |                | 34                      | 34              |
| 212-00703 | HUMATE                                       | LB       |                |                | 78                      | 78              |
| 212-00704 | MYCORRHIZAE                                  | CY       |                |                | 21                      | 21              |
| 212-00706 | SEEDING (NATIVE) DRILL                       | ACRE     |                |                | 0.52                    | 0.52            |
| 213-00004 | MULCHING (WEED FREE STRAW)                   | ACRE     |                |                | 0.09                    | 0.09            |
| 216-00015 | SOIL RETENTION BLANKET (EXCELSIOR)           | SY       |                |                | 2070                    | 2070            |
| 506-00212 | RIPRAP (12 INCH)                             | CY       |                |                | 53                      | 53              |
| 607-11525 | FENCE (PLASTIC)                              | LF       | 155            |                |                         | 155.00          |

\*It is anticipated that additional control measures and control measure quantities not shown on the SWMP Site Maps shall be required on the project for unforeseen conditions and replacement of items that are beyond their useful service life, see subsections 208.03 and 208.04. Quantities for all control measures shown above are estimated, and have been increased for unforeseen conditions and normal control measure life expectancy. Quantities shall be adjusted according to the conditions encountered in the field as directed and approved by the Engineer. Payment shall be for the actual work completed and material used.

\*\*Pay Item 208-00071 is included for anticipated maintenance of vehicle tracking pads based on the service life of the control measure in the field. The use of the material shall be directed and approved by the Engineer.

\*\*\* F/A refers to CDOT's Force Account Pay Items.

13. BIOLOGIC IMPACTS and DEWATERING

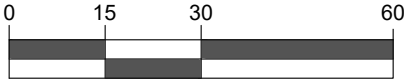
- A. ENVIRONMENTAL IMPACTS:
12. Wetland Impacts: NO
13. Stream Impacts: YES NO
14. Threatened and Endangered Species: XXX
- B. DEWATERING (Not Covered Under the [CDPHE Low Risk Discharge Guidance Document of Uncontaminated Groundwater to Land](#)):
1. Dewatering: Refer to other environmental permits in accordance with subsection 107.02 and the permits contained in Tab 16 of the SWMP.

14. NOTES

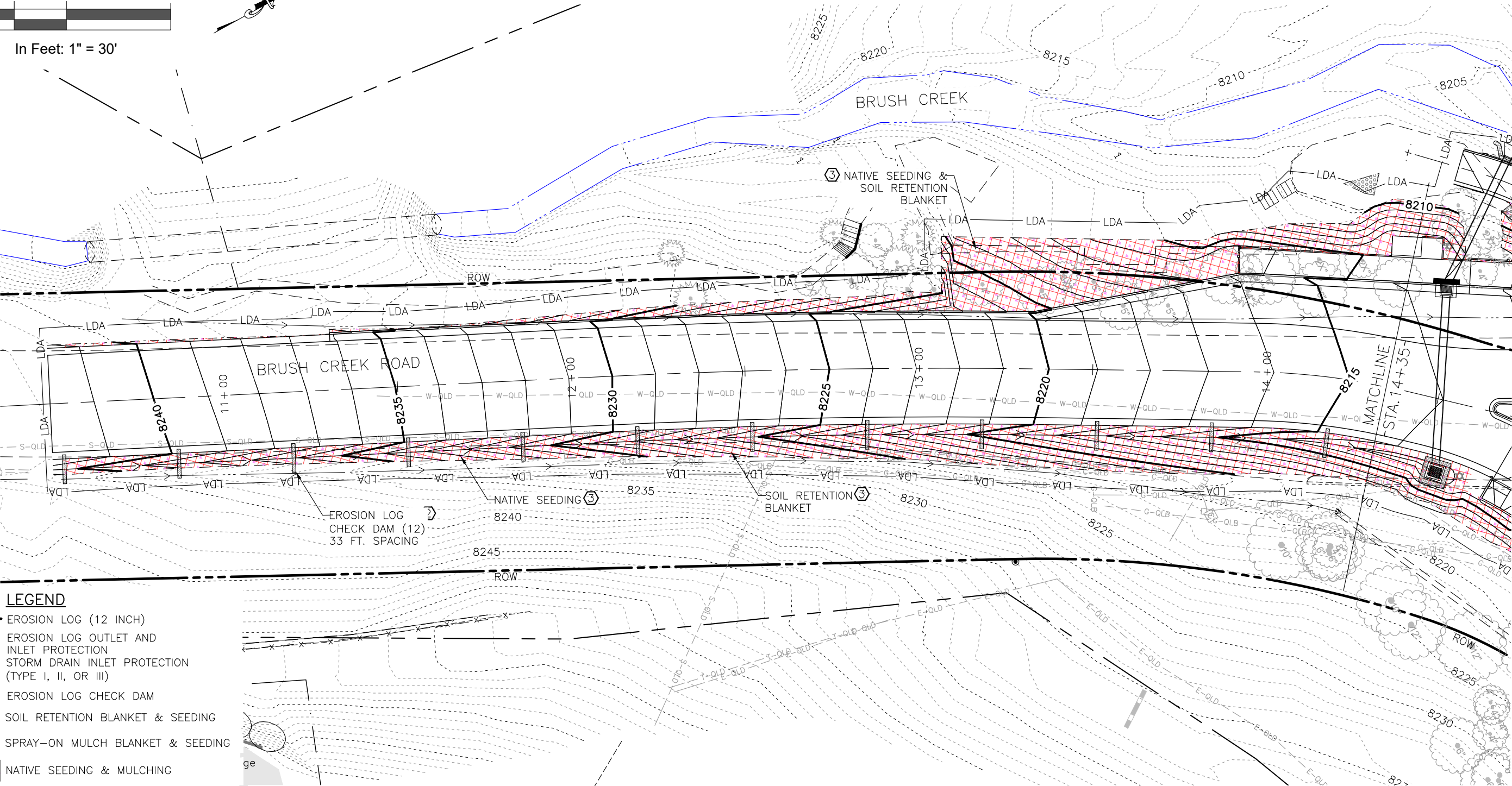
| Computer File Information            |                      | Sheet Revisions |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>STORMWATER MANAGEMENT PLAN (5) |     |                       | Project No./Code |                 |  |
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| Print Date: 4/1/25                   |                      | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  |                                                          |     |                       |                  |                 |  |
| Last Modification Date: 4/1/25       | <div>1</div>         |                 |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Engineer:                                                | AMC | Structure             | --               | --              |  |
| Drawing File Name: BrushCreekRB_SWMP | <div></div>          |                 |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Drawn By:                                                | EJM | Numbers               | --               |                 |  |
| Autocad Ver. 2022 Scale: As Shown    | <div></div>          |                 |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                          |     |                       |                  | Sheet Number 92 |  |
| SGM Project No.: 91004D-83           | Quality Control: MDF | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  | Sheet Subset: SWMP                                       |     | Subset Sheets: 5 of 5 |                  |                 |  |

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Graphic Scale



In Feet: 1" = 30'



LEGEND

- EROSION LOG (12 INCH)
- EROSION LOG OUTLET AND INLET PROTECTION
- STORM DRAIN INLET PROTECTION (TYPE I, II, OR III)
- EROSION LOG CHECK DAM
- SOIL RETENTION BLANKET & SEEDING
- SPRAY-ON MULCH BLANKET & SEEDING
- NATIVE SEEDING & MULCHING
- FLOW ARROW (DIRECTION OF FLOW)
- DITCH FLOW LINE
- LDA - LIMITS OF DISTURBED AREA
- CONSTRUCTION BOUNDARY
- CONSTRUCTION FENCING
- TOP OF CUT
- TOE OF FILL

CONTROL MEASURE (BMP) NOTES

- BMPs ARE NOT DRAWN TO SCALE.
- BMP LOCATIONS SHOWN ARE APPROXIMATE.
- PHASES OF BMP INSTALLATION:
  - 1 INITIAL CONSTRUCTION
  - 2 INTERIM CONSTRUCTION
  - 3 FINAL/PERMANENT STABILIZATION

| Computer File Information |                  |
|---------------------------|------------------|
| Print Date:               | 4/1/25           |
| Last Modification Date:   | 4/1/25           |
| Drawing File Name:        | BrushCreekRB_ECP |
| Autocad Ver.              | 2022             |
| Scale:                    | As Shown         |
| SGM Project No.:          | 91004D-83        |
| Quality Control:          | MDF              |

| Sheet Revisions |      |          |       |
|-----------------|------|----------|-------|
| Rev.            | Date | Comments | Init. |
| 1               |      |          |       |
|                 |      |          |       |
|                 |      |          |       |
|                 |      |          |       |



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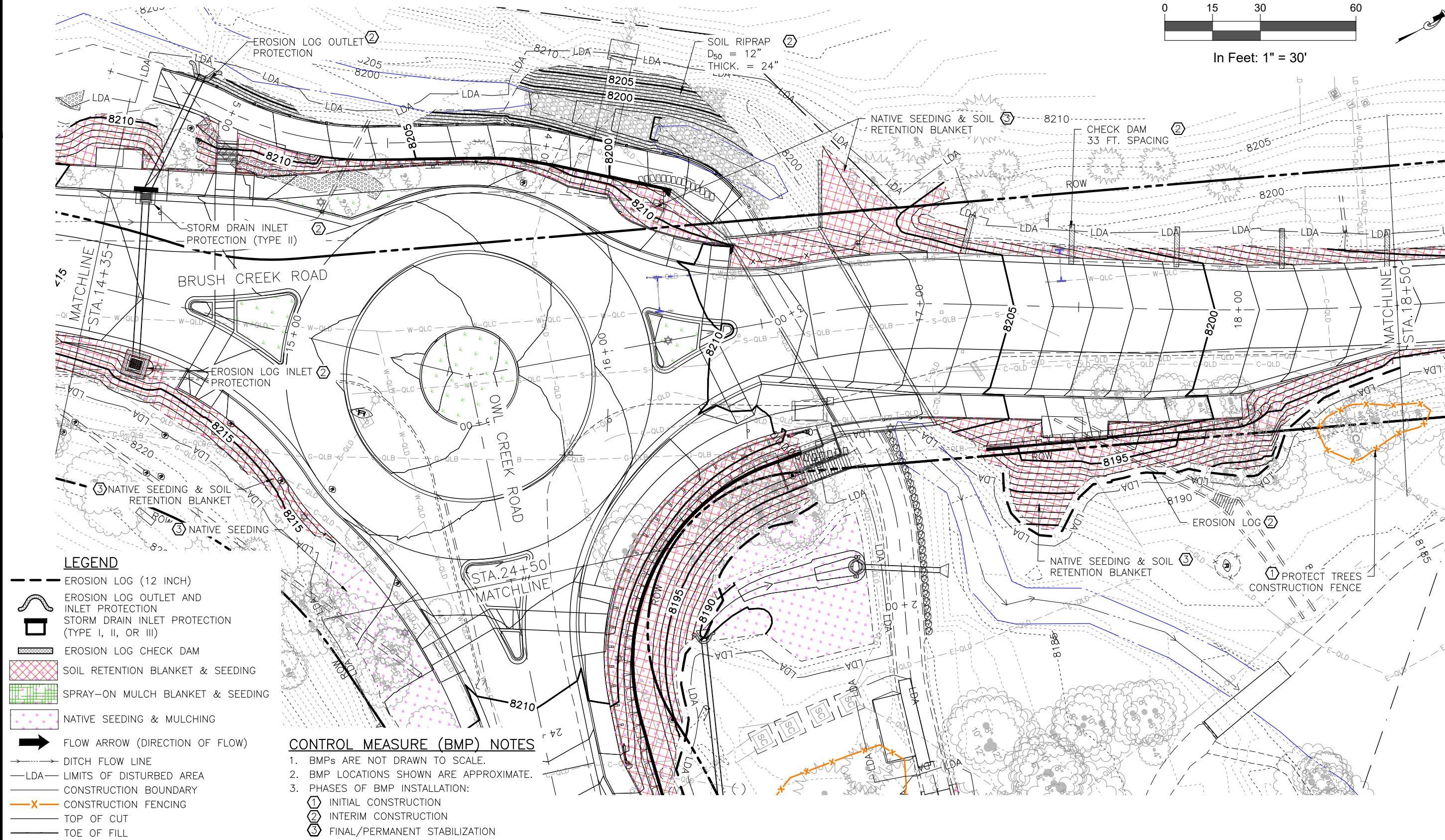
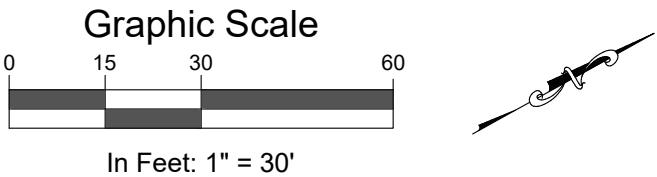
| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT<br>EROSION CONTROL PLAN (1) |     |                |        |
|----------------------------------------------------|-----|----------------|--------|
| Engineer:                                          | AMC | Structure      | --     |
| Drawn By:                                          | EJM | Numbers        | --     |
| Sheet Subset:                                      | EC  | Subset Sheets: | 1 of 4 |

| Project No./Code |    |
|------------------|----|
| --               |    |
| --               |    |
| Sheet Number     | 93 |



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LEGEND

- EROSION LOG (12 INCH)
- EROSION LOG OUTLET AND INLET PROTECTION
- STORM DRAIN INLET PROTECTION (TYPE I, II, OR III)
- EROSION LOG CHECK DAM
- SOIL RETENTION BLANKET & SEEDING
- SPRAY-ON MULCH BLANKET & SEEDING
- NATIVE SEEDING & MULCHING
- FLOW ARROW (DIRECTION OF FLOW)
- DITCH FLOW LINE
- LDA - LIMITS OF DISTURBED AREA
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- CONSTRUCTION FENCING
- TOP OF CUT
- TOE OF FILL

CONTROL MEASURE (BMP) NOTES

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- BMP LOCATIONS SHOWN ARE APPROXIMATE.
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  - 1 INITIAL CONSTRUCTION
  - 2 INTERIM CONSTRUCTION
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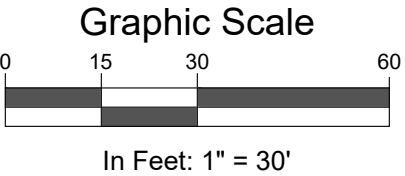
| Computer File Information           |  |  |  | Sheet Revisions |      |          |  | As Constructed |  |  |  | BRUSH CREEK ROUNDABOUT<br>EROSION CONTROL PLAN (2) |  |  |  | Project No./Code |  |
|-------------------------------------|--|--|--|-----------------|------|----------|--|----------------|--|--|--|----------------------------------------------------|--|--|--|------------------|--|
| Print Date: 4/1/25                  |  |  |  | Rev.            | Date | Comments |  | No Revisions:  |  |  |  | Engineer: AMC                                      |  |  |  | --               |  |
| Last Modification Date: 4/1/25      |  |  |  | 1               |      |          |  | Revised:       |  |  |  | Structure Numbers                                  |  |  |  | --               |  |
| Drawing File Name: BrushCreekRB_ECP |  |  |  |                 |      |          |  | Void:          |  |  |  | Drawn By: EJM                                      |  |  |  | --               |  |
| Autocad Ver. 2022 Scale: As Shown   |  |  |  |                 |      |          |  |                |  |  |  | Sheet Subset: EC                                   |  |  |  | 2 of 4           |  |
| SGM Project No.: 91004D-83          |  |  |  |                 |      |          |  |                |  |  |  | Subset Sheets:                                     |  |  |  | 94               |  |
| Quality Control: MDF                |  |  |  |                 |      |          |  |                |  |  |  |                                                    |  |  |  |                  |  |



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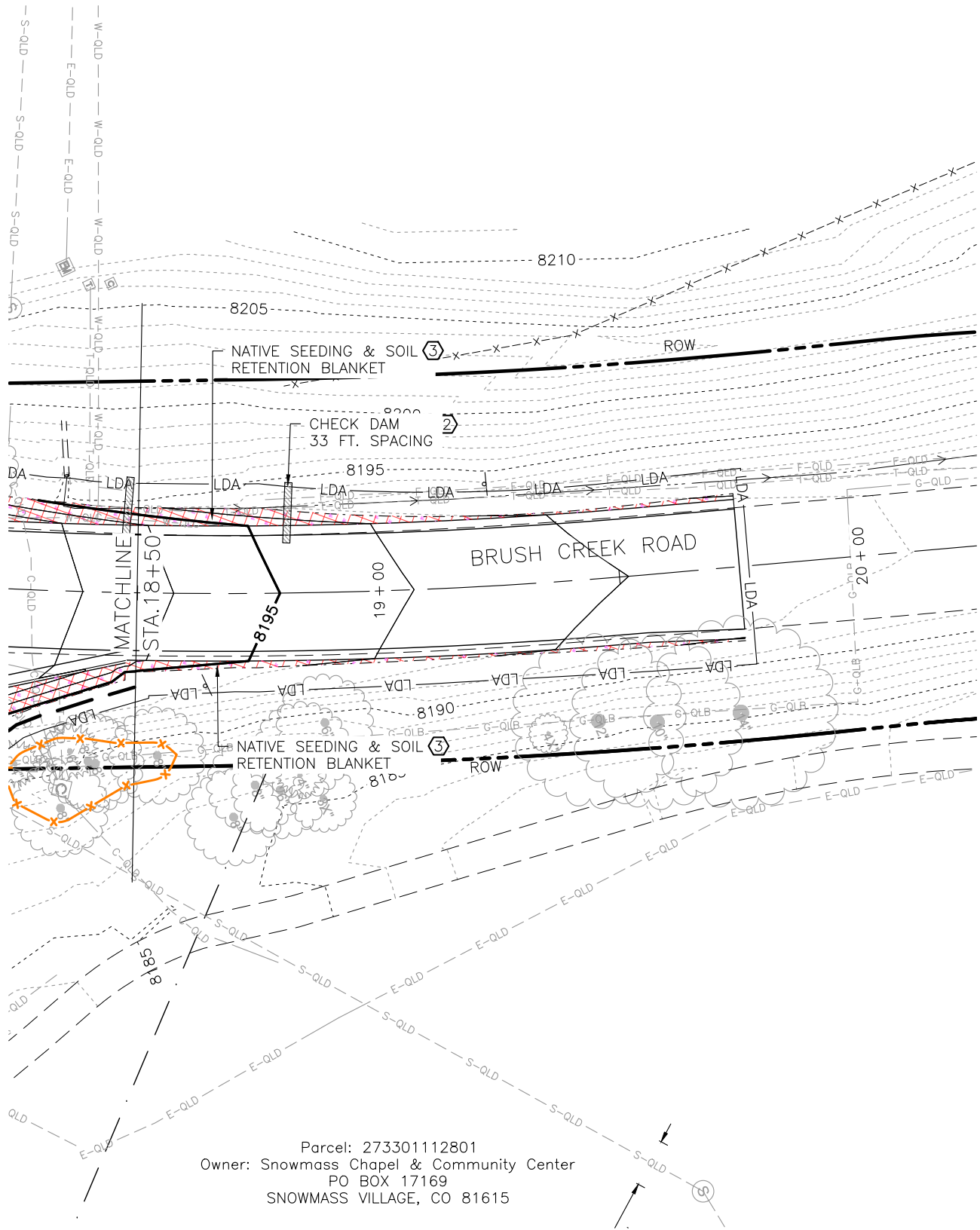
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|----------------|--|--|--|----------------------------------------------------|--|--|--|------------------|--|
| No Revisions:  |  |  |  | Engineer: AMC                                      |  |  |  | --               |  |
| Revised:       |  |  |  | Structure Numbers                                  |  |  |  | --               |  |
| Void:          |  |  |  | Drawn By: EJM                                      |  |  |  | --               |  |
|                |  |  |  | Sheet Subset: EC                                   |  |  |  | 2 of 4           |  |
|                |  |  |  | Subset Sheets:                                     |  |  |  | 94               |  |

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- LEGEND**
- EROSION LOG (12 INCH)
  - EROSION LOG OUTLET AND INLET PROTECTION
  - STORM DRAIN INLET PROTECTION (TYPE I, II, OR III)
  - EROSION LOG CHECK DAM
  - SOIL RETENTION BLANKET & SEEDING
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  - FLOW ARROW (DIRECTION OF FLOW)
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  - LDA LIMITS OF DISTURBED AREA
  - CONSTRUCTION BOUNDARY
  - CONSTRUCTION FENCING
  - TOP OF CUT
  - TOE OF FILL

- CONTROL MEASURE (BMP) NOTES**
- BMPs ARE NOT DRAWN TO SCALE.
  - BMP LOCATIONS SHOWN ARE APPROXIMATE.
  - PHASES OF BMP INSTALLATION:
    - ① INITIAL CONSTRUCTION
    - ② INTERIM CONSTRUCTION
    - ③ FINAL/PERMANENT STABILIZATION



Parcel: 27330112801  
Owner: Snowmass Chapel & Community Center  
PO BOX 17169  
SNOWMASS VILLAGE, CO 81615

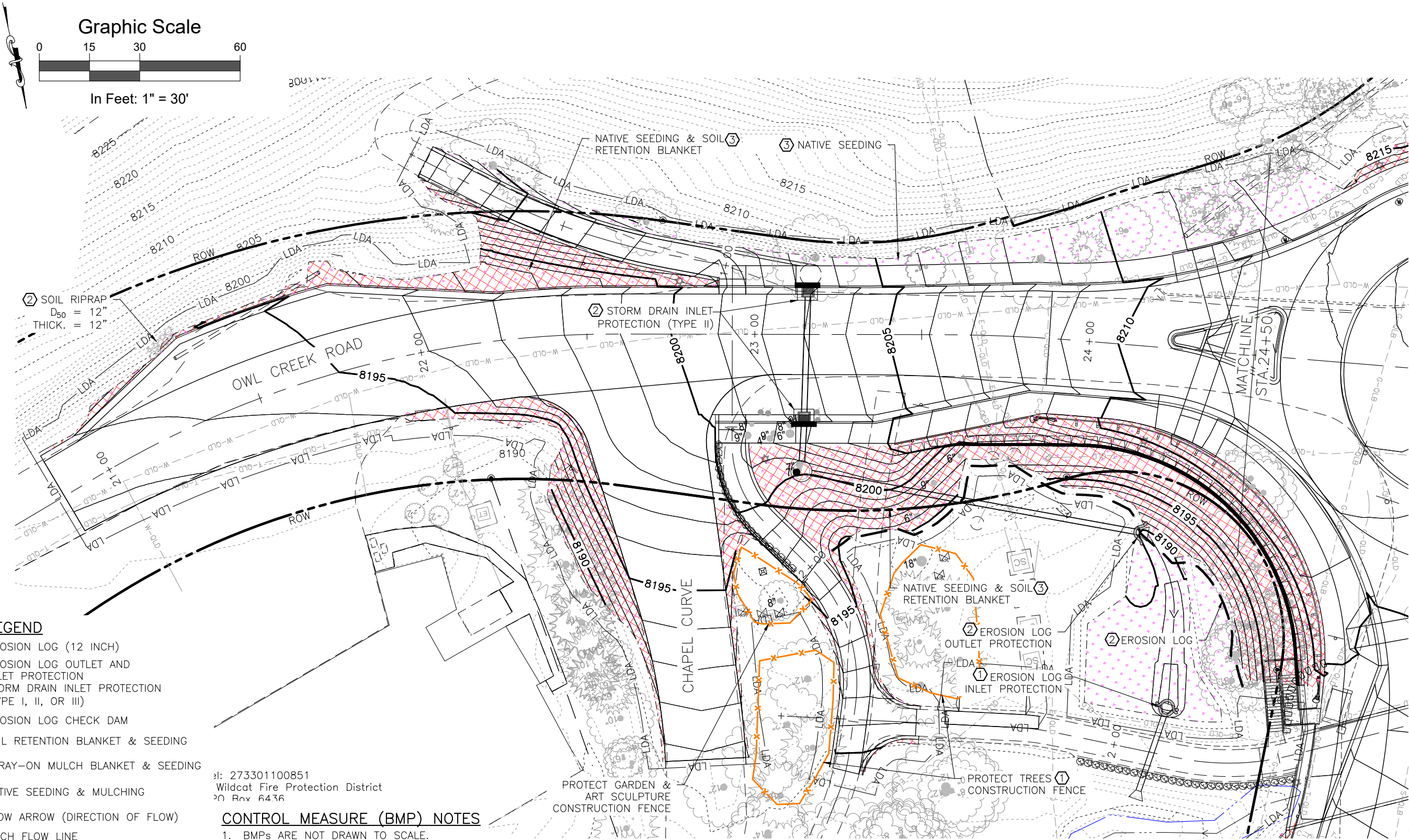
| Computer File Information           |                      | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>EROSION CONTROL PLAN (3) |     |                | Project No./Code |                 |
|-------------------------------------|----------------------|-----------------|------|----------|-------|----------------|--|----------------------------------------------------|-----|----------------|------------------|-----------------|
| Print Date: 4/1/25                  |                      | Rev.            | Date | Comments | Init. | No Revisions:  |  |                                                    |     |                | --               |                 |
| Last Modification Date: 4/1/25      |                      | 1               |      |          |       | Revised:       |  | Engineer:                                          | AMC | Structure      | --               |                 |
| Drawing File Name: BrushCreekRB_ECP |                      |                 |      |          |       | Void:          |  | Drawn By:                                          | EJM | Numbers        | --               |                 |
| Autocad Ver. 2022 Scale: As Shown   |                      |                 |      |          |       |                |  | Sheet Subset:                                      | EC  | Subset Sheets: | 3 of 4           | Sheet Number 95 |
| SGM Project No.: 91004D-83          | Quality Control: MDF |                 |      |          |       |                |  |                                                    |     |                |                  |                 |



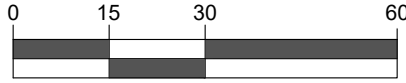
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Graphic Scale



In Feet: 1" = 30'

LEGEND

- EROSION LOG (12 INCH)
- EROSION LOG OUTLET AND INLET PROTECTION
- STORM DRAIN INLET PROTECTION (TYPE I, II, OR III)
- EROSION LOG CHECK DAM
- SOIL RETENTION BLANKET & SEEDING
- SPRAY-ON MULCH BLANKET & SEEDING
- NATIVE SEEDING & MULCHING
- FLOW ARROW (DIRECTION OF FLOW)
- DITCH FLOW LINE
- LDA - LIMITS OF DISTURBED AREA
- CONSTRUCTION BOUNDARY
- CONSTRUCTION FENCING
- TOP OF CUT
- TOE OF FILL

al: 273301100851  
Wildcat Fire Protection District  
PO Box 6436

CONTROL MEASURE (BMP) NOTES

- BMPs ARE NOT DRAWN TO SCALE.
- BMP LOCATIONS SHOWN ARE APPROXIMATE.
- PHASES OF BMP INSTALLATION:
  - 1 INITIAL CONSTRUCTION
  - 2 INTERIM CONSTRUCTION
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Computer File Information

Print Date: 4/1/25  
Last Modification Date: 4/1/25  
Drawing File Name: BrushCreekRB\_ECP  
Autocad Ver. 2022 Scale: As Shown  
SGM Project No.: 91004D-83 Quality Control: MDF

Sheet Revisions

| Rev. | Date | Comments | Init. |
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As Constructed

No Revisions:

Revised:

Void:

BRUSH CREEK ROUNDABOUT  
EROSION CONTROL PLAN (4)

|               |     |                |        |
|---------------|-----|----------------|--------|
| Engineer:     | AMC | Structure      | --     |
| Drawn By:     | EJM | Numbers        | --     |
| Sheet Subset: | EC  | Subset Sheets: | 4 of 4 |

Project No./Code

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Sheet Number 96

I:\1991\91004\DWG - OWL CREEK ROUNDABOUT\H-DWGS\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_SS.DWG Plotted: 4/1/2025 9:49 AM By: Eric Mahoney

TABULATION OF SIGNING (1 OF 2)

| SIGN CODE        | STATION  | BACKGROUND COLOR | LEGEND                               | SIGN PANEL SIZE |   |     | 210-00810         | 614-00011            | 614-00035            | 614-00044                 | 613-50375               | 614-72860              | 614-80003                         |
|------------------|----------|------------------|--------------------------------------|-----------------|---|-----|-------------------|----------------------|----------------------|---------------------------|-------------------------|------------------------|-----------------------------------|
|                  |          |                  |                                      |                 |   |     | RESET GROUND SIGN | SIGN PANEL (CLASS I) | SIGN PANEL (SPECIAL) | TIMBER SIGN POST 4X4 INCH | SOLAR COLLECTION SYSTEM | PEDESTRIAN PUSH BUTTON | RECTANGULAR RAPID FLASHING BEACON |
|                  |          |                  |                                      | W"              | x | H"  | EACH              | SF                   | SF                   | LF                        | EACH                    | EACH                   | EACH                              |
| BRUSH CREEK ROAD |          |                  |                                      |                 |   |     |                   |                      |                      |                           |                         |                        |                                   |
| W2-6             | 12+59.69 | YELLOW           | ROUNDAABOUT WARNING                  | 30"             | x | 30" |                   | 6.25                 |                      | 8                         |                         |                        |                                   |
| W13-1            |          | YELLOW           | ADVISORY SPEED (25)                  | 18"             | x | 18" |                   | 2.25                 |                      |                           |                         |                        |                                   |
| W3-2             | 13+60.37 | YELLOW           | YIELD AHEAD                          | 30"             | x | 30" |                   | 6.25                 |                      | 6.5                       |                         |                        |                                   |
| N/A              | 13+90.04 | WHITE            | SNOWMASS VILLAGE SHUTTLE             |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| N/A              |          | WHITE            | RFTA BUS STOP                        |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| W11-2            | 14+66.36 | YELLOW           | PEDESTRIAN CROSSING                  | 30"             | x | 30" |                   | 6.25                 |                      | 8                         | 1                       | 1                      | 1                                 |
| W16-7P           |          | YELLOW           | DOWNWARD DIAGONAL ARROW              | 24"             | x | 12" |                   | 2                    |                      |                           |                         |                        |                                   |
| R4-7             | 14+70.78 | WHITE            | KEEP RIGHT                           | 24"             | x | 30" |                   | 5                    |                      | 7.5                       |                         |                        |                                   |
| OM3-L            |          | YELLOW           | TYPE 3 OBJECT MARKER                 | 12"             | x | 36" |                   | 3                    |                      |                           |                         |                        |                                   |
| W11-2            | 14+72.46 | YELLOW           | PEDESTRIAN CROSSING                  | 30"             | x | 30" |                   | 6.25                 |                      | 8                         | 1                       | 1                      | 1                                 |
| W16-7P           |          | YELLOW           | DOWNWARD DIAGONAL ARROW              | 24"             | x | 12" |                   | 2                    |                      |                           |                         |                        |                                   |
| R1-2             | 14+89.47 | RED              | YIELD                                | 18"             | x | 18" |                   | 2.25                 |                      | 6                         |                         |                        |                                   |
| N/A              | 14+94.95 | N/A              | WAYFINDING SIGN ("BRUSH CREEK ROAD") | 24"             | x | 18" |                   |                      | 3                    | 6                         |                         |                        |                                   |
| R6-4A            | 15+45.12 | WHITE            | ROUNDAABOUT DIRECTIONAL (3 CHEVRONS) | 48"             | x | 24" |                   | 8                    |                      | 4                         |                         |                        |                                   |
| R6-4A            | 15+68.98 | WHITE            | ROUNDAABOUT DIRECTIONAL (3 CHEVRONS) | 48"             | x | 24" |                   | 8                    |                      | 4                         |                         |                        |                                   |
| R6-4A            | 15+62.12 | WHITE            | ROUNDAABOUT DIRECTIONAL (3 CHEVRONS) | 48"             | x | 24" |                   | 8                    |                      | 4                         |                         |                        |                                   |
| N/A              | 16+19.11 | N/A              | WAYFINDING SIGN ("BRUSH CREEK ROAD") | 24"             | x | 18" |                   |                      | 3                    | 6                         |                         |                        |                                   |
| R1-2             | 16+24.64 | RED              | YIELD                                | 18"             | x | 18" |                   | 2.25                 |                      | 6                         |                         |                        |                                   |
| W11-2            | 16+34.93 | YELLOW           | PEDESTRIAN CROSSING                  | 30"             | x | 30" |                   | 6.25                 |                      | 8                         | 1                       | 1                      | 1                                 |
| W16-7P           |          | YELLOW           | DOWNWARD DIAGONAL ARROW              | 24"             | x | 12" |                   | 2                    |                      |                           |                         |                        |                                   |
| R4-7             | 16+38.34 | WHITE            | KEEP RIGHT                           | 24"             | x | 30" |                   | 5                    |                      | 7.5                       |                         |                        |                                   |
| OM3-L            |          | YELLOW           | TYPE 3 OBJECT MARKER                 | 12"             | x | 36" |                   | 3                    |                      |                           |                         |                        |                                   |
| W11-2            | 16+44.66 | YELLOW           | PEDESTRIAN CROSSING                  | 30"             | x | 30" |                   | 6.25                 |                      | 8                         | 1                       | 1                      | 1                                 |
| W16-7P           |          | YELLOW           | DOWNWARD DIAGONAL ARROW              | 24"             | x | 12" |                   | 2                    |                      |                           |                         |                        |                                   |
| W3-2             | 17+39.75 | YELLOW           | YIELD AHEAD                          | 30"             | x | 30" |                   | 6.25                 |                      | 6.5                       |                         |                        |                                   |
| N/A              | 18+02.76 | WHITE            | SNOWMASS VILLAGE SHUTTLE             | 12"             | x | 18" |                   | 1.5                  |                      |                           |                         |                        |                                   |
| N/A              |          | WHITE            | RFTA BUS STOP                        | 12"             | x | 18" |                   | 1.5                  |                      |                           |                         |                        |                                   |
| W2-6             | 18+40.84 | YELLOW           | ROUNDAABOUT WARNING                  | 30"             | x | 30" |                   | 6.25                 |                      | 8                         |                         |                        |                                   |
| W13-1            |          | YELLOW           | ADVISORY SPEED (25)                  | 18"             | x | 18" |                   | 2.25                 |                      |                           |                         |                        |                                   |
| R2-1             | 18+64.32 | WHITE            | SPEED LIMIT (35)                     |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |

| Computer File Information          |  | Sheet Revisions      |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>TABULATION OF SIGNING AND STRIPING (1) |  |                         | Project No./Code |                 |  |
|------------------------------------|--|----------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|------------------------------------------------------------------|--|-------------------------|------------------|-----------------|--|
| Print Date: 4/1/25                 |  | Rev.                 | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  | Engineer: AMC<br>Drawn By: EJM                                   |  | Structure Numbers<br>-- |                  | --              |  |
| Last Modification Date: 4/1/25     |  |                      |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  |                                                                  |  |                         |                  |                 |  |
| Drawing File Name: BrushCreekRB_SS |  |                      |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Sheet Subset: SS                                                 |  | Subset Sheets: 1 of 5   |                  | Sheet Number 97 |  |
| Autocad Ver. 2022 Scale: As Shown  |  |                      |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                                  |  |                         |                  |                 |  |
| SGM Project No.: 91004D-83         |  | Quality Control: MDF |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                                  |  |                         |                  |                 |  |



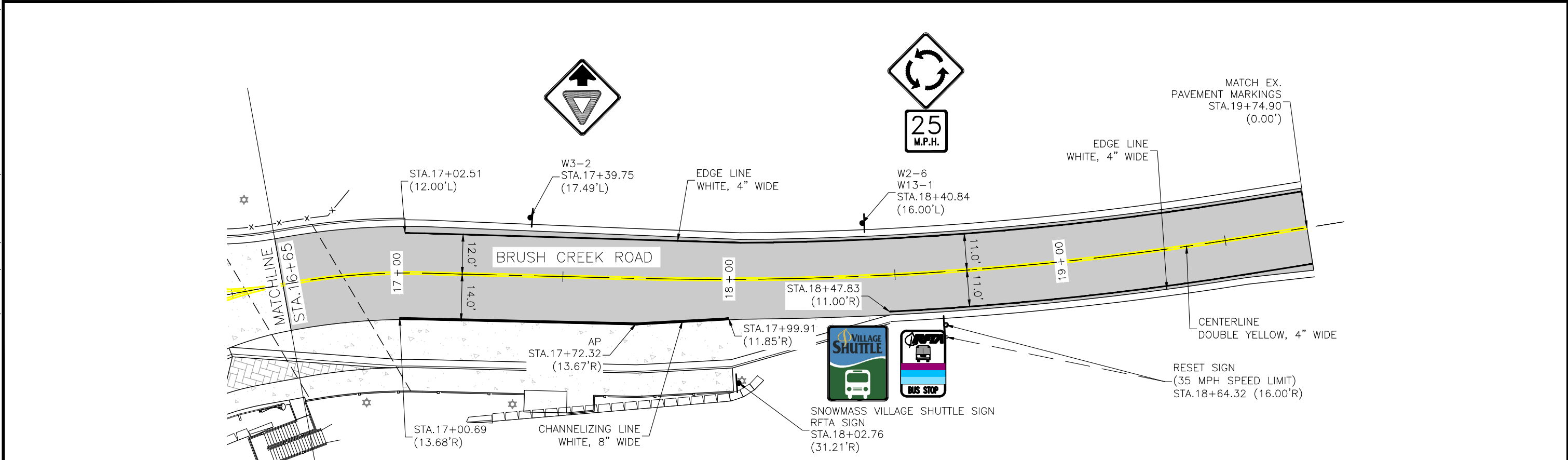
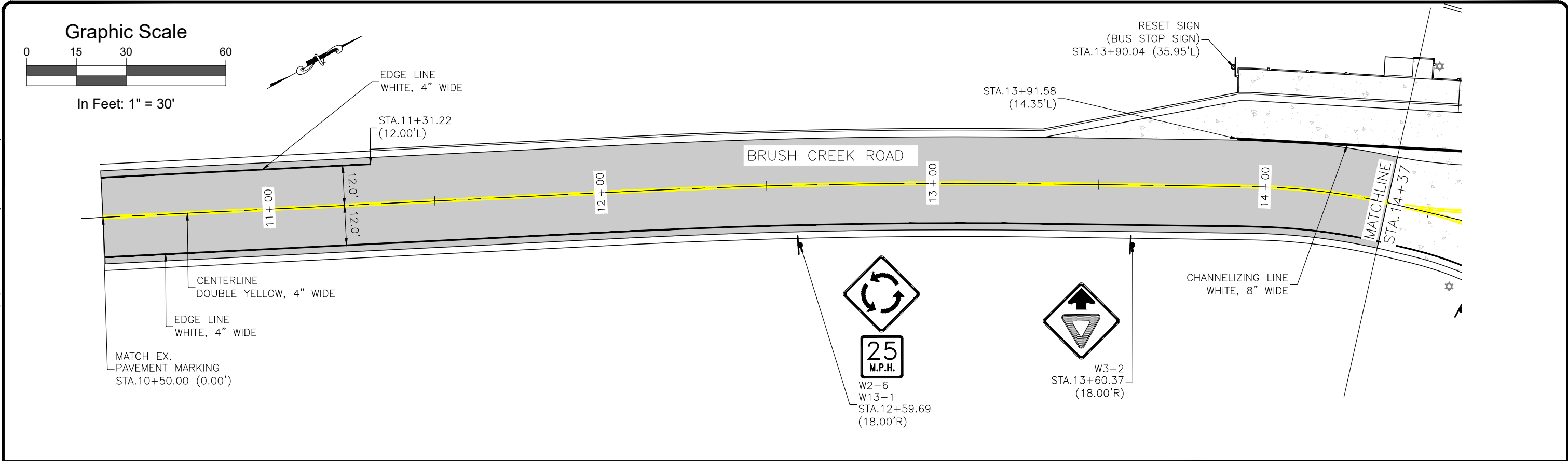
| SIGN CODE      | STATION  | BACKGROUND COLOR | LEGEND                             | SIGN PANEL SIZE |   |     | RESET GROUND SIGN | SIGN PANEL (CLASS I) | SIGN PANEL (SPECIAL) | TIMBER SIGN POST 4X4 INCH | SOLAR COLLECTION SYSTEM | PEDESTRIAN PUSH BUTTON | RECTANGULAR RAPID FLASHING BEACON |
|----------------|----------|------------------|------------------------------------|-----------------|---|-----|-------------------|----------------------|----------------------|---------------------------|-------------------------|------------------------|-----------------------------------|
|                |          |                  |                                    | W"              | x | H"  | EACH              | SF                   | SF                   | LF                        | EACH                    | EACH                   | EACH                              |
| OWL CREEK ROAD |          |                  |                                    |                 |   |     |                   |                      |                      |                           |                         |                        |                                   |
| W2-6           | 21+89.29 | YELLOW           | ROUNDAABOUT WARNING                | 30"             | x | 30" |                   | 6.25                 |                      | 8                         |                         |                        |                                   |
| W3-2           |          | YELLOW           | YIELD AHEAD                        | 30"             | x | 30" |                   | 6.25                 |                      |                           |                         |                        |                                   |
| W11-15         | 22+25.79 | YELLOW           | TRAIL CROSSING                     |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| W16-7P         |          | YELLOW           | DOWNWARD DIAGONAL ARROW            |                 |   |     |                   |                      |                      |                           |                         |                        |                                   |
| R1-1           | 22+64.44 | RED              | STOP                               |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| R1-1           | 22+87.55 | RED              | STOP                               |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| R1-1           | 22+99.44 | RED              | STOP                               |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| N/A            | 23+37.14 | WHITE            | SNOWMASS VILLAGE SHUTTLE           | 12"             | x | 18" |                   | 1.5                  |                      | 6                         |                         |                        |                                   |
| W11-15         | 23+95.34 | YELLOW           | TRAIL CROSSING                     |                 |   |     | 1                 |                      |                      |                           |                         |                        |                                   |
| W16-7P         |          | YELLOW           | DOWNWARD DIAGONAL ARROW            |                 |   |     |                   |                      |                      |                           |                         |                        |                                   |
| W11-2          | 24+25.50 | YELLOW           | PEDESTRIAN CROSSING                | 30"             | x | 30" |                   | 6.25                 |                      | 8                         | 1                       | 1                      | 1                                 |
| W16-7P         |          | YELLOW           | DOWNWARD DIAGONAL ARROW            | 24"             | x | 12" |                   | 2                    |                      |                           |                         |                        |                                   |
| R4-7           | 24+29.36 | WHITE            | KEEP RIGHT                         | 24"             | x | 30" |                   | 5                    |                      | 7.5                       |                         |                        |                                   |
| OM3-L          |          | YELLOW           | TYPE 3 OBJECT MARKER               | 12"             | x | 36" |                   | 3                    |                      |                           |                         |                        |                                   |
| W11-2          | 24+35.48 | YELLOW           | PEDESTRIAN CROSSING                | 30"             | x | 30" |                   | 6.25                 |                      | 8                         | 1                       | 1                      | 1                                 |
| W16-7P         |          | YELLOW           | DOWNWARD DIAGONAL ARROW            | 24"             | x | 12" |                   | 2                    |                      |                           |                         |                        |                                   |
| R1-2           | 24+43.96 | RED              | YIELD                              | 18"             | x | 18" |                   | 2.25                 |                      | 6                         |                         |                        |                                   |
| N/A            | 24+53.43 | N/A              | WAYFINDING SIGN ("OWL CREEK ROAD") | 24"             | x | 18" |                   |                      | 3                    | 6                         |                         |                        |                                   |
| PROJECT TOTALS |          |                  |                                    |                 |   |     | 8                 | 151                  | 9                    | 162                       | 6                       | 6                      | 6                                 |

| LOCATION         |    |          | MODIFIED EPOXY PAVEMENT MARKING (LF TO GAL) |                           |                 |                |                | PREFORMED<br>THEROMPLASTIC<br>PAVEMENT MARKING<br>(SF) |
|------------------|----|----------|---------------------------------------------|---------------------------|-----------------|----------------|----------------|--------------------------------------------------------|
|                  |    |          | SOLID<br>DOUBLE<br>YELLOW                   | WHITE<br>SOLID/<br>BROKEN | YELLOW<br>SOLID | WHITE<br>SOLID | WHITE<br>SOLID | XWALK-<br>STOPLINE                                     |
|                  |    |          | 4 INCH                                      | 8 INCH                    | 4 INCH          | 8 INCH         | 4 INCH         | SF                                                     |
| BRUSH CREEK ROAD |    |          |                                             |                           |                 |                |                |                                                        |
| 10+50.00         | TO | 14+37.00 | 387.2                                       |                           |                 | 48.8           | 465.2          |                                                        |
| 14+37.00         | TO | 16+65.00 | 193.2                                       | 93.2                      | 250.3           | 50.7           | 28.0           |                                                        |
| 16+65.00         | TO | 19+74.90 | 309.4                                       |                           |                 | 99.1           | 398.9          |                                                        |
| OWL CREEK ROAD   |    |          |                                             |                           |                 |                |                |                                                        |
| 20+84.57         | TO | 23+88.16 | 303.5                                       |                           |                 | 38.6           | 210.8          | 96.0                                                   |
| CHAPEL CURVE     |    |          |                                             |                           |                 |                |                |                                                        |
|                  |    |          | 42.2                                        |                           |                 | 13.0           |                | 54.8                                                   |
| TOTAL (LF)       |    |          | 1235.5                                      | 93.2                      | 250.3           | 250.2          | 1102.9         |                                                        |
| TOTAL (SF)       |    |          | 822.9                                       | 20.7                      | 83.4            | 166.8          | 367.3          | 150.8                                                  |
| TOTAL (GAL)      |    |          | 9.7                                         | 0.2                       | 1.0             | 2.0            | 4.3            |                                                        |

|                       | 627-30410                                                   |          | 627-00008                       |          |
|-----------------------|-------------------------------------------------------------|----------|---------------------------------|----------|
|                       | PREFORMED THEROMPLASTIC PAVEMENT MARKING (X-WALK STOP LINE) |          | MODIFIED EPOXY PAVEMENT MARKING |          |
|                       | SF                                                          |          | GAL                             |          |
|                       | PLAN                                                        | AS BUILT | PLAN                            | AS BUILT |
| WHITE                 | 150.8                                                       |          | 6.5                             |          |
| YELLOW                |                                                             |          | 10.7                            |          |
|                       |                                                             |          |                                 |          |
| IRREGULARITIES (10%)  | 15.1                                                        |          | 0.7                             |          |
| <b>PROJECT TOTALS</b> | <b>166</b>                                                  |          | <b>18</b>                       |          |

| Computer File Information              |                      | Sheet Revisions |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>TABULATION OF SIGNING AND STRIPING (2) |     |                       | Project No./Code |              |    |
|----------------------------------------|----------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|------------------------------------------------------------------|-----|-----------------------|------------------|--------------|----|
| Print Date: 4/1/25                     |                      | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  |                                                                  |     |                       |                  |              |    |
| Last Modification Date: 4/1/25         |                      | <div>1</div>    |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Engineer:                                                        | AMC | Structure             | --               |              |    |
| Drawing File Name: BrushCreekRB_SS     |                      | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Drawn By:                                                        | EJM | Numbers               | --               |              |    |
| Autocad Ver. 2022      Scale: As Shown |                      | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  | Sheet Subset:                                                    | SS  | Subset Sheets: 2 of 5 |                  | Sheet Number | 98 |
| SGM Project No.: 91004D-83             | Quality Control: MDF | <div></div>     |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                                  |     |                       |                  |              |    |

I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_SS.DWG Plotted: 4/1/2025 9:49 AM By: Eric Mahoney

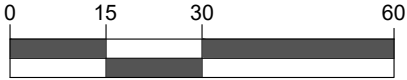


| Computer File Information          |                                   | Sheet Revisions |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>SIGNING AND STRIPING PLAN (1) |     |                   | Project No./Code |                 |
|------------------------------------|-----------------------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|---------------------------------------------------------|-----|-------------------|------------------|-----------------|
| Print Date: 4/1/25                 | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  | Engineer:                                               | AMC | Structure Numbers | --               | --              |
| Drawing File Name: BrushCreekRB_SS | Autocad Ver. 2022 Scale: As Shown | 1               |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Drawn By:                                               | EJM |                   | --               | --              |
| SGM Project No.: 91004D-83         | Quality Control: MDF              |                 |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Sheet Subset:                                           | SS  | Subset Sheets:    | 3 of 5           | Sheet Number 99 |

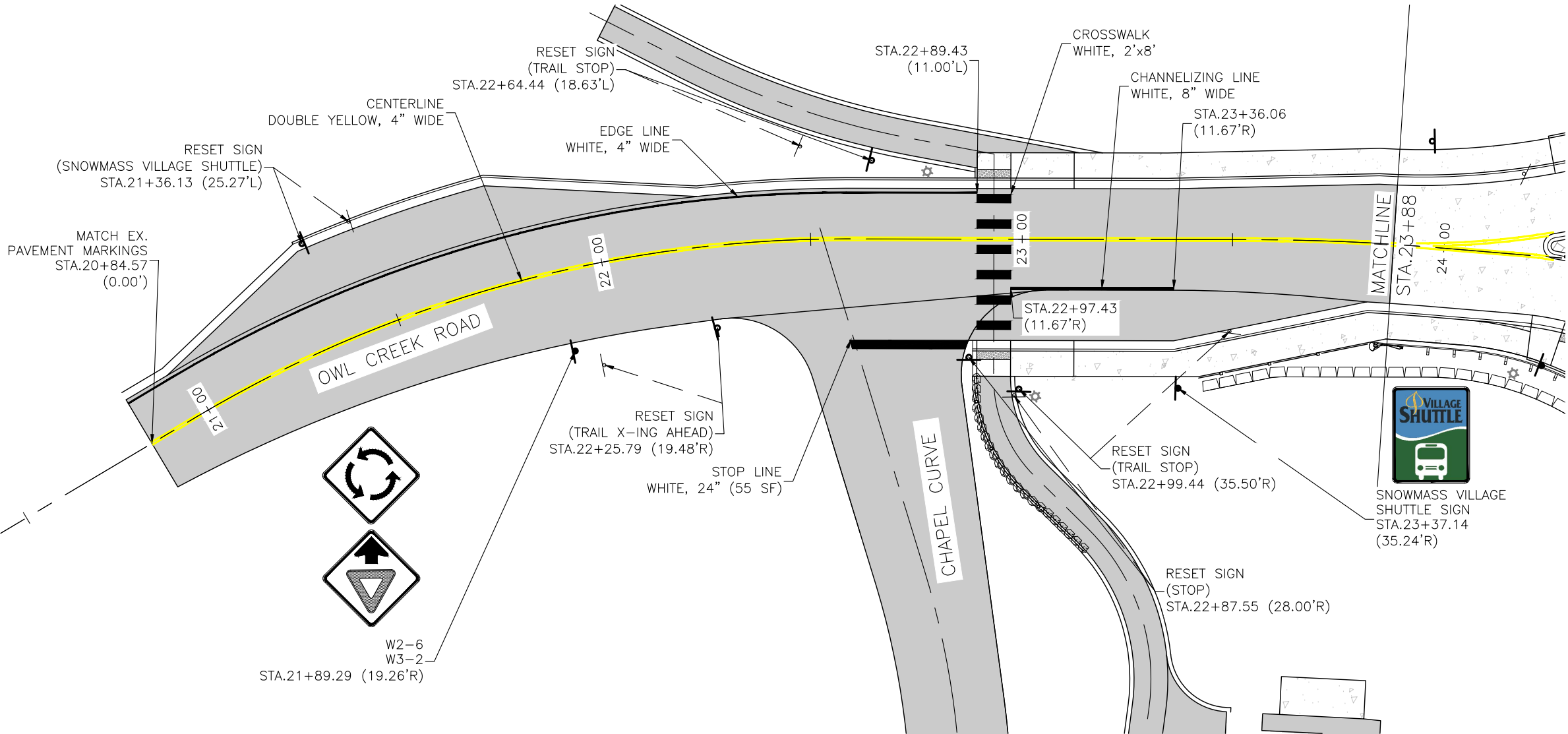


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Graphic Scale

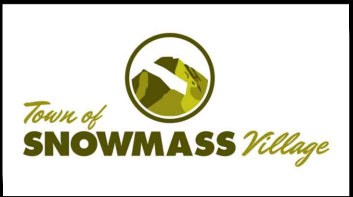


In Feet: 1" = 30'



| Computer File Information |                 |
|---------------------------|-----------------|
| Print Date:               | 4/1/25          |
| Last Modification Date:   | 4/1/25          |
| Drawing File Name:        | BrushCreekRB_SS |
| Autocad Ver.              | 2022            |
| Scale:                    | As Shown        |
| SGM Project No.:          | 91004D-83       |
| Quality Control:          | MDF             |

| Sheet Revisions |      |          |       |  |
|-----------------|------|----------|-------|--|
| Rev.            | Date | Comments | Init. |  |
| 1               |      |          |       |  |
|                 |      |          |       |  |
|                 |      |          |       |  |
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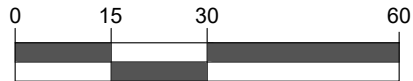
| As Constructed |
|----------------|
| No Revisions:  |
| Revised:       |
| Void:          |

| BRUSH CREEK ROUNDABOUT<br>SIGNING AND STRIPING PLAN (2) |     |                |        |
|---------------------------------------------------------|-----|----------------|--------|
| Engineer:                                               | AMC | Structure      | --     |
| Drawn By:                                               | EJM | Numbers        | --     |
| Sheet Subset:                                           | SS  | Subset Sheets: | 4 of 5 |

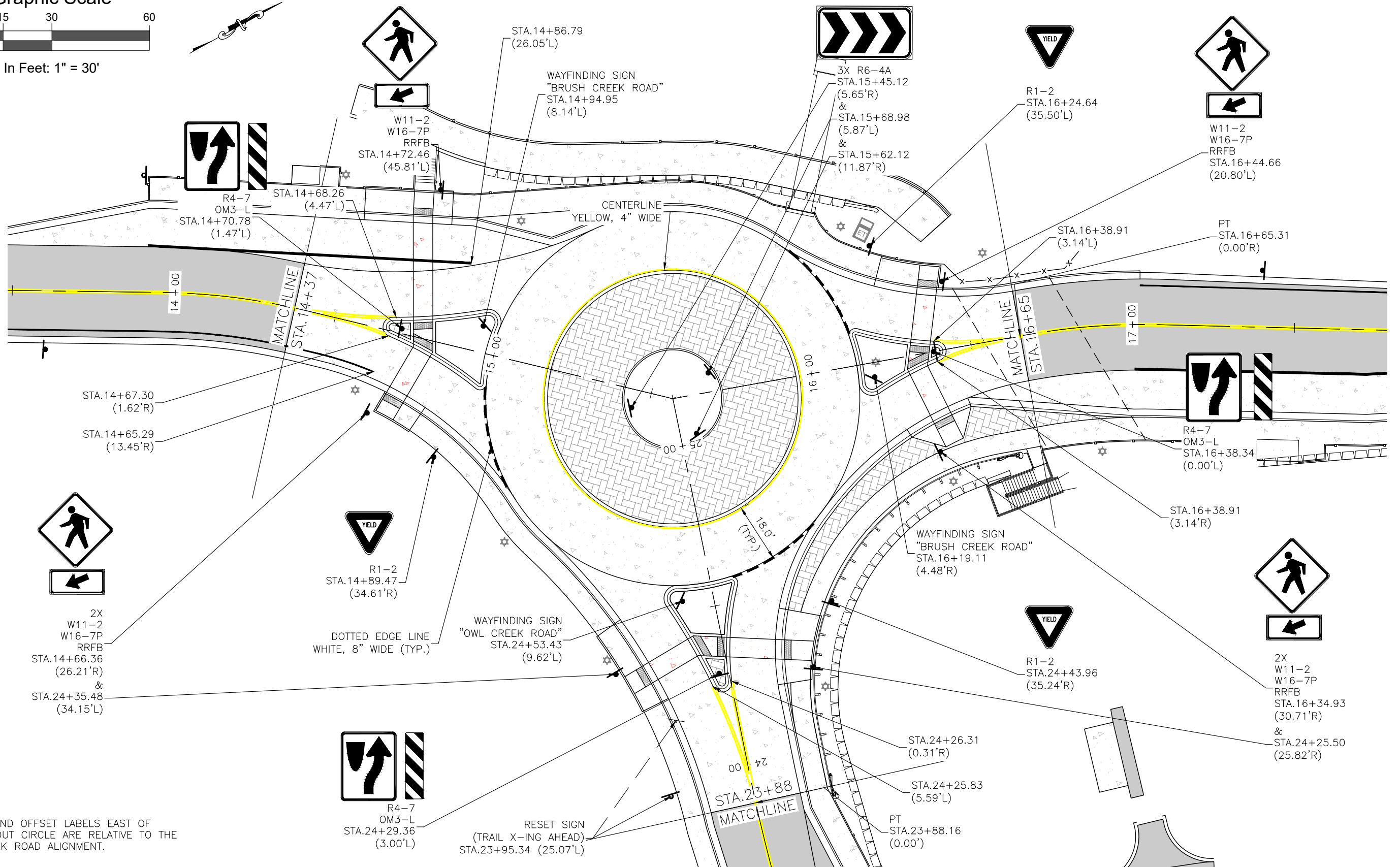
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|------------------|
| --               |
| --               |
| Sheet Number 100 |

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Graphic Scale



In Feet: 1" = 30'



NOTE:  
STATION AND OFFSET LABELS EAST OF  
ROUNDABOUT CIRCLE ARE RELATIVE TO THE  
OWL CREEK ROAD ALIGNMENT.

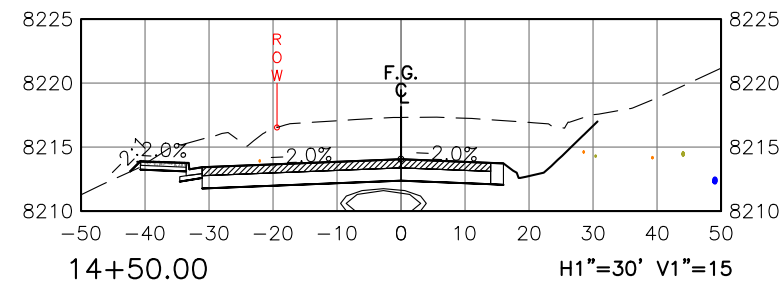
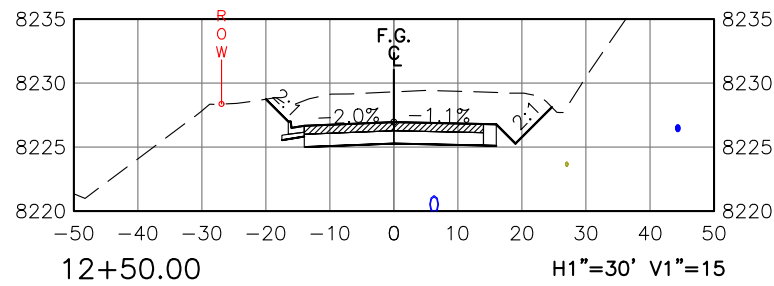
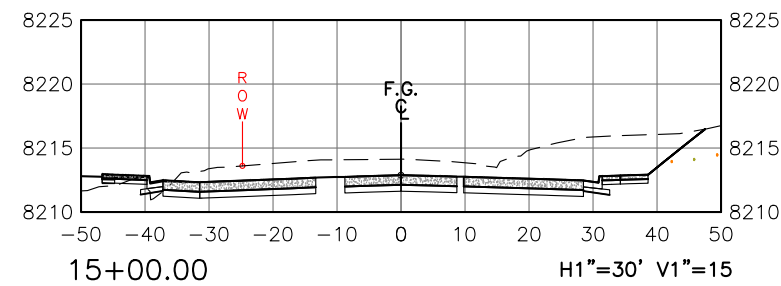
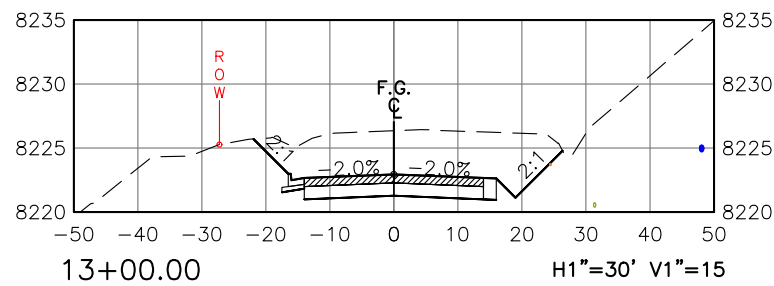
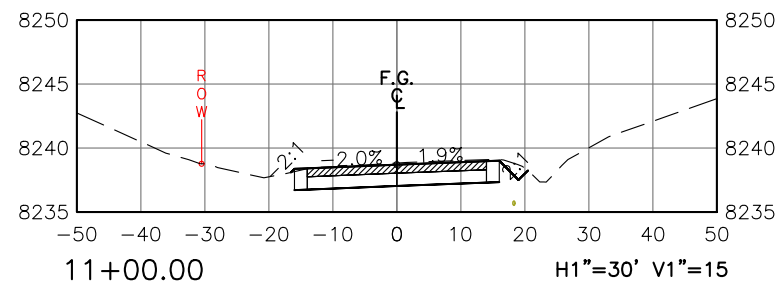
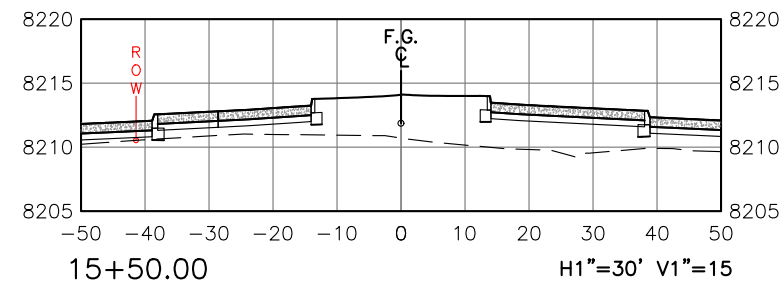
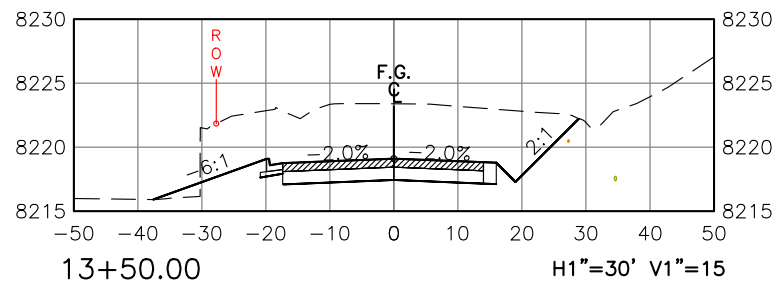
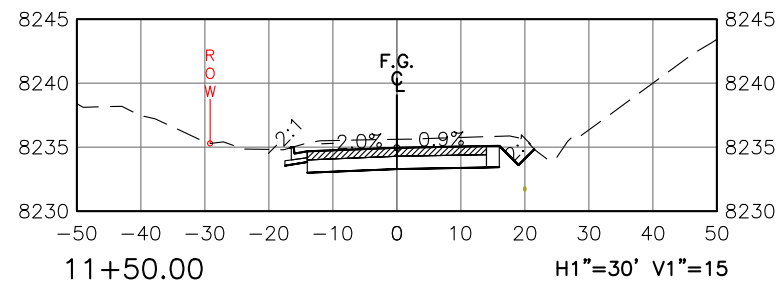
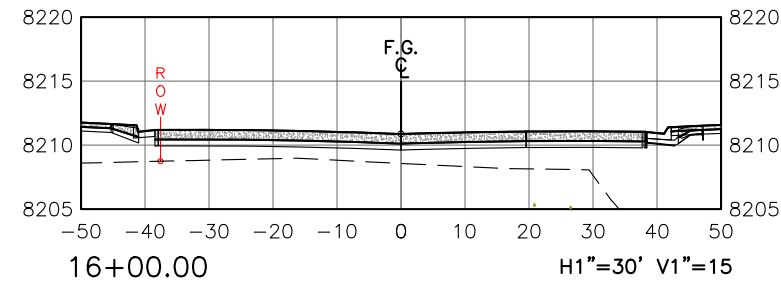
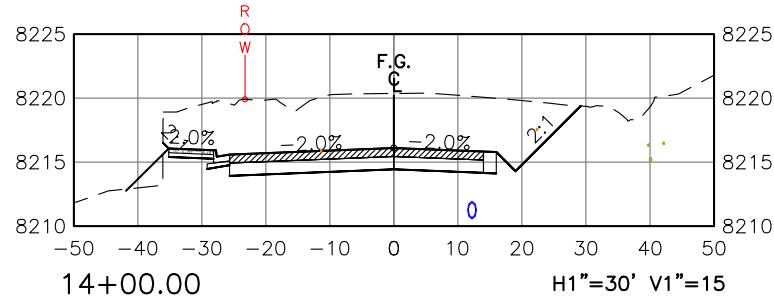
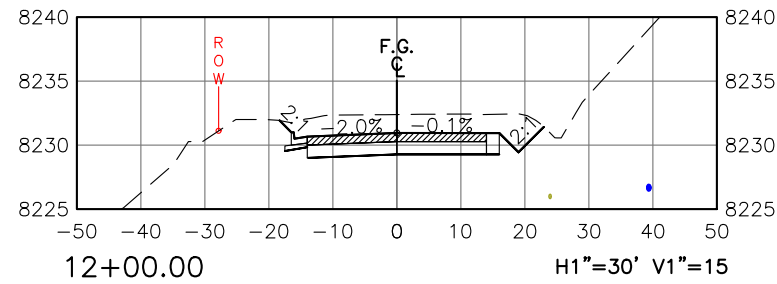
| Computer File Information          |                                   | Sheet Revisions |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>SIGNING AND STRIPING PLAN (3) |                   |        | Project No./Code |     |
|------------------------------------|-----------------------------------|-----------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|---------------------------------------------------------|-------------------|--------|------------------|-----|
| Print Date: 4/1/25                 | Last Modification Date: 4/1/25    | Rev.            | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  | Engineer: AMC                                           | Structure Numbers | --     | --               |     |
| Drawing File Name: BrushCreekRB_SS | Autocad Ver. 2022 Scale: As Shown | 1               |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Drawn By: EJM                                           |                   | --     | --               |     |
| SGM Project No.: 91004D-83         | Quality Control: MDF              |                 |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Sheet Subset: SS                                        | Subset Sheets:    | 5 of 5 | Sheet Number     | 101 |



I:\1991\91004\1083 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_XS.DWG Plotted: 4/1/2025 9:50 AM By: Eric Mahoney

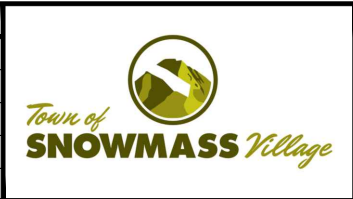
LEGEND

EXISTING GAS    EXISTING WATER    EXISTING ELECTRIC    EXISTING FIBER    EXISTING SANITARY    PROPOSED STORM



| Computer File Information |                 |
|---------------------------|-----------------|
| Print Date:               | 4/1/25          |
| Last Modification Date:   | 4/1/25          |
| Drawing File Name:        | BrushCreekRB_XS |
| Autocad Ver.              | 2022            |
| Scale:                    | As Shown        |
| SGM Project No.:          | 91004D-83       |
| Quality Control:          | MDF             |

| Sheet Revisions |      |          |       |
|-----------------|------|----------|-------|
| Rev.            | Date | Comments | Init. |
| 1               |      |          |       |
|                 |      |          |       |
|                 |      |          |       |
|                 |      |          |       |



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| As Constructed |  |
|----------------|--|
| No Revisions:  |  |
| Revised:       |  |
| Void:          |  |

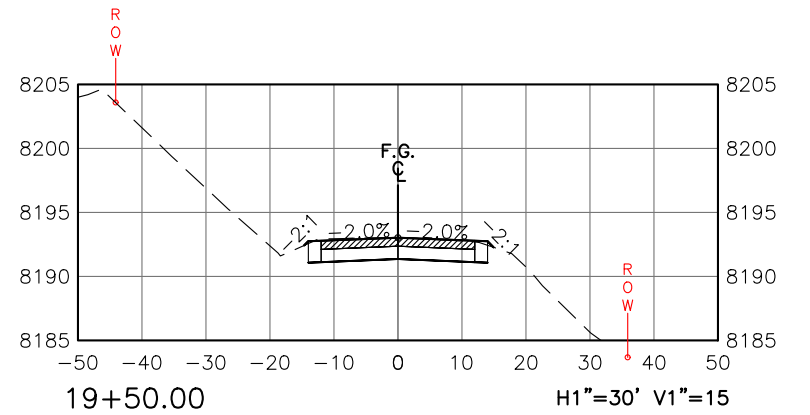
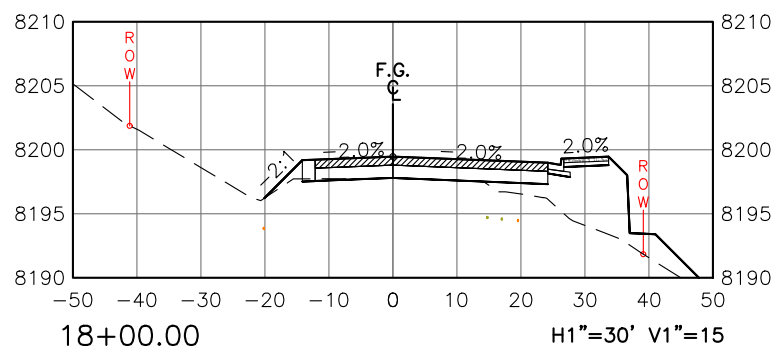
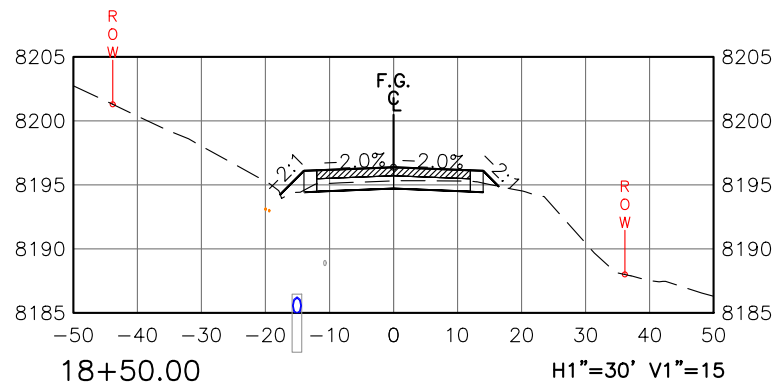
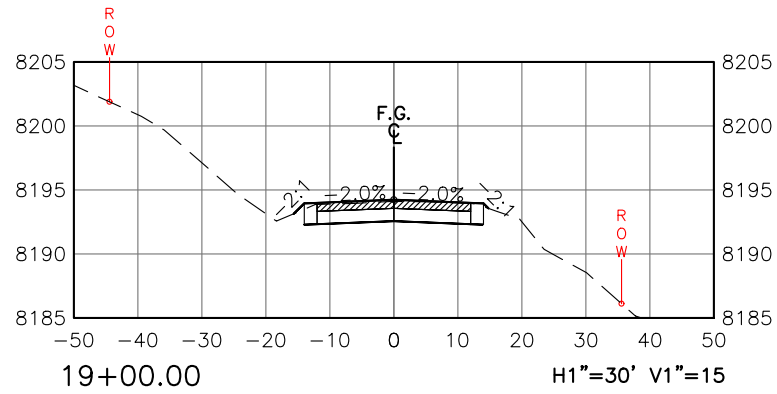
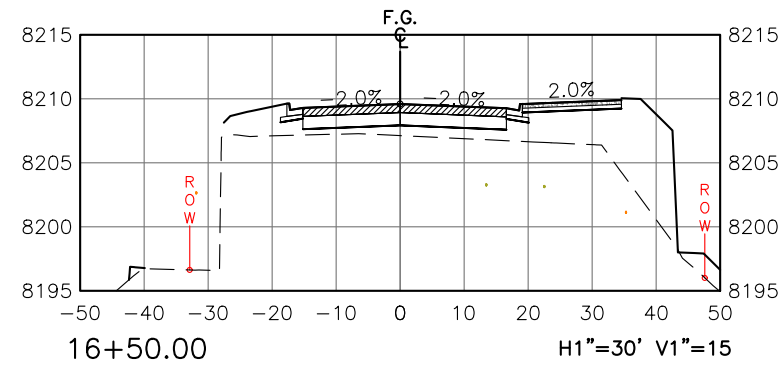
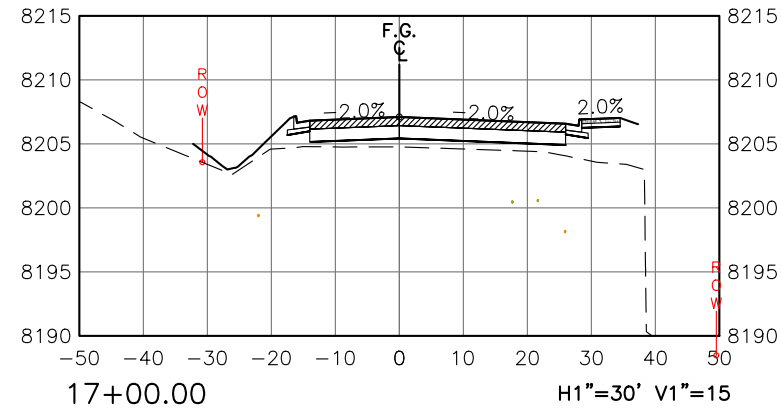
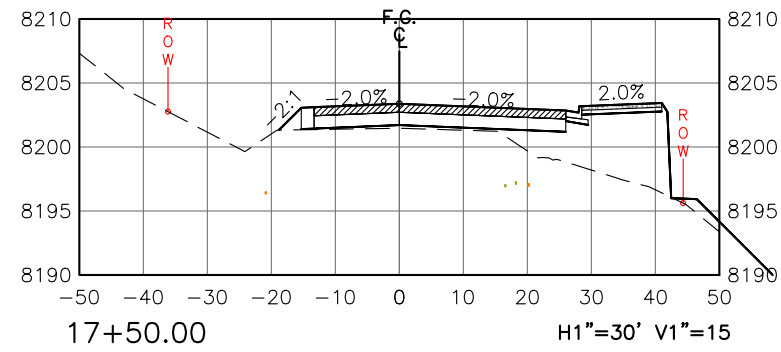
| BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK ROAD CROSS SECTIONS (1) |     |                |        |
|---------------------------------------------------------------|-----|----------------|--------|
| Engineer:                                                     | AMC | Structure      | --     |
| Drawn By:                                                     | EJM | Numbers        | --     |
| Sheet Subset:                                                 | XS  | Subset Sheets: | 1 of 5 |

| Project No./Code |     |
|------------------|-----|
| --               |     |
| --               |     |
| Sheet Number     | 102 |

I:\1991\91004\83 - OWL CREEK ROUNDABOUT\H-DWG\CIVIL\PS-SHEETSET\BRUSH CREEK ROUNDABOUT 2024\BRUSHCREEKRB\_XS.DWG Plotted: 4/1/2025 9:50 AM By: Eric Mahoney

LEGEND

EXISTING GAS    EXISTING WATER    EXISTING ELECTRIC    EXISTING FIBER    EXISTING SANITARY    PROPOSED STORM



| Computer File Information          |                 | Sheet Revisions      |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK ROAD CROSS SECTIONS (2) |     |                | Project No./Code |     |
|------------------------------------|-----------------|----------------------|------|----------|-------|----------------|--|---------------------------------------------------------------|-----|----------------|------------------|-----|
| Print Date: 4/1/25                 |                 | Rev.                 | Date | Comments | Init. | No Revisions:  |  | Engineer:                                                     | AMC | Structure      | --               |     |
| Last Modification Date: 4/1/25     |                 | 1                    |      |          |       | Revised:       |  | Drawn By:                                                     | EJM | Numbers        | --               |     |
| Drawing File Name: BrushCreekRB_XS |                 |                      |      |          |       | Void:          |  | Sheet Subset:                                                 | XS  | Subset Sheets: | 2 of 5           |     |
| Autocad Ver. 2022                  | Scale: As Shown |                      |      |          |       |                |  |                                                               |     |                | Sheet Number     | 103 |
| SGM Project No.: 91004D-83         |                 | Quality Control: MDF |      |          |       |                |  |                                                               |     |                |                  |     |





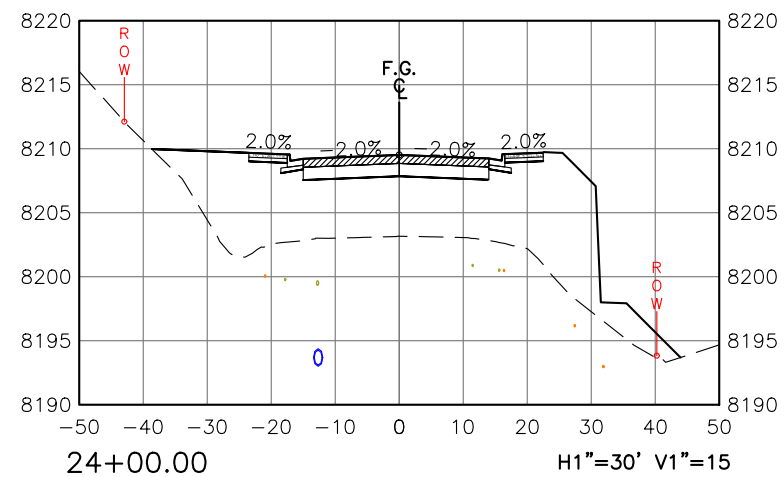
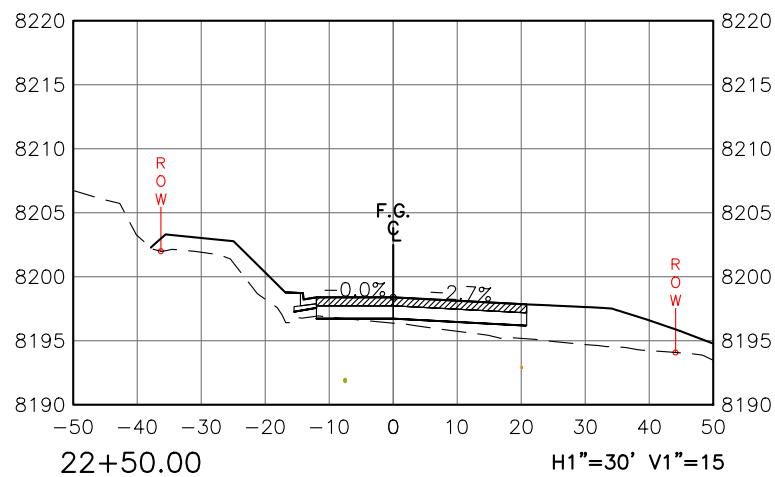
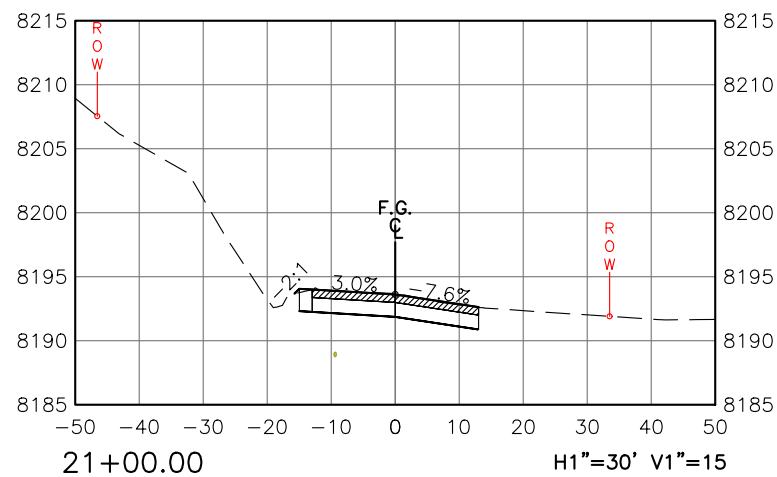
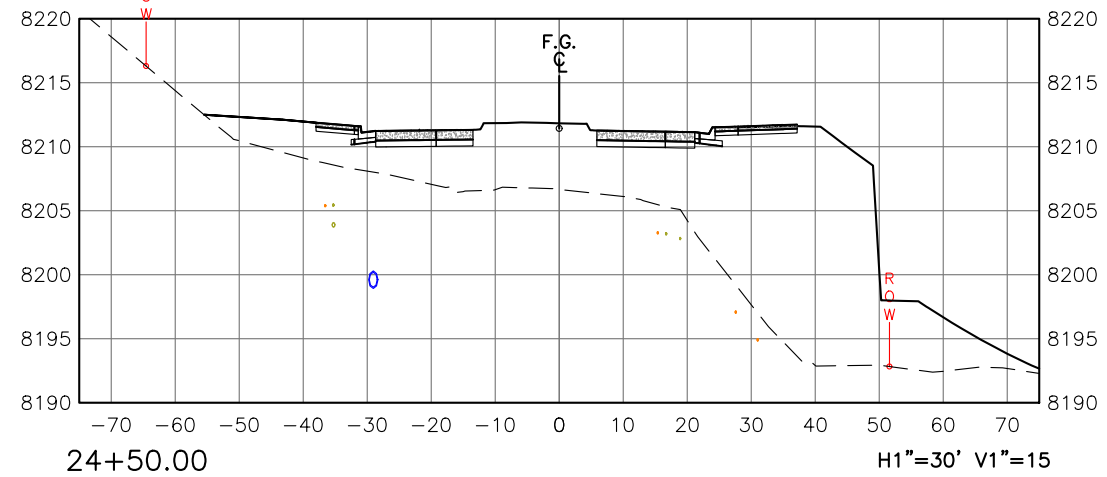
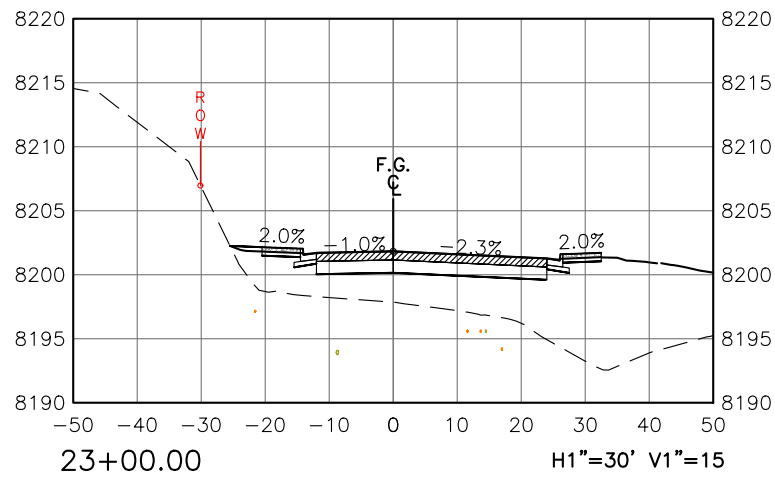
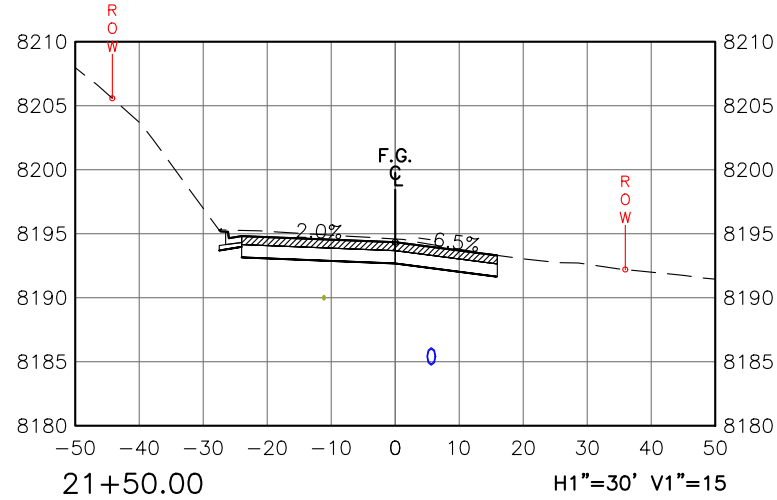
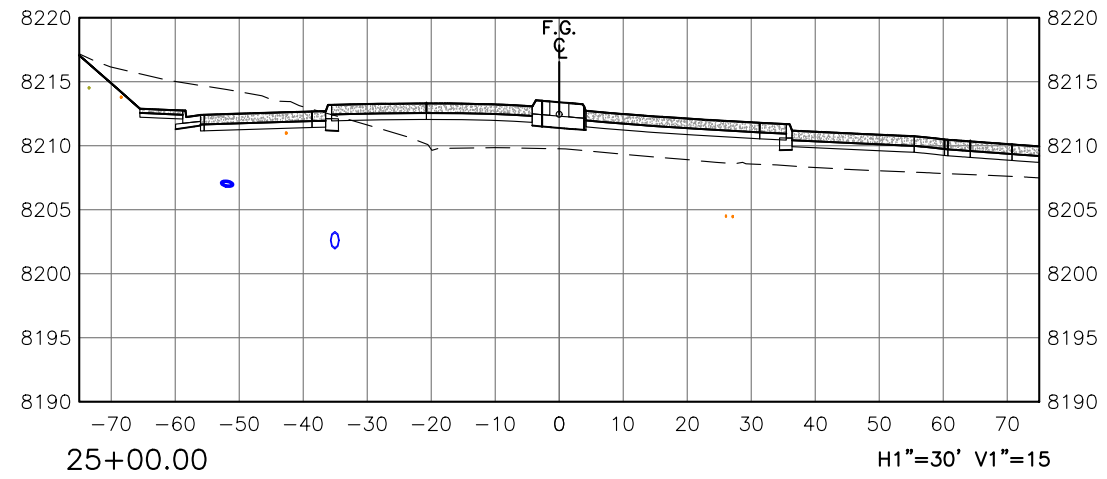
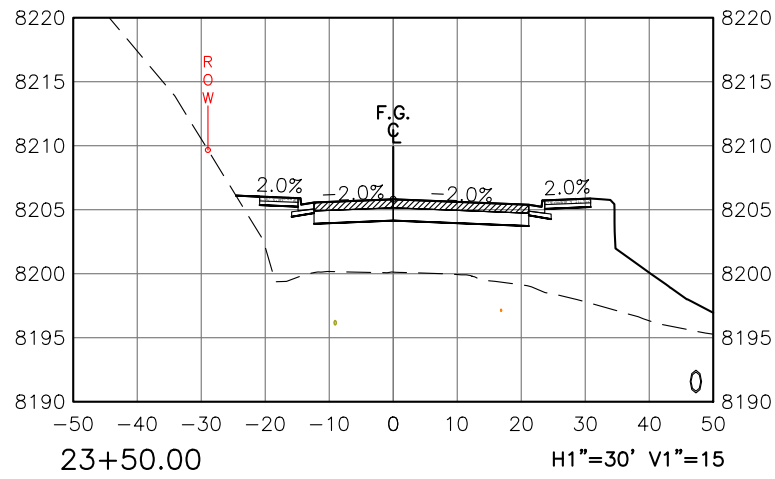
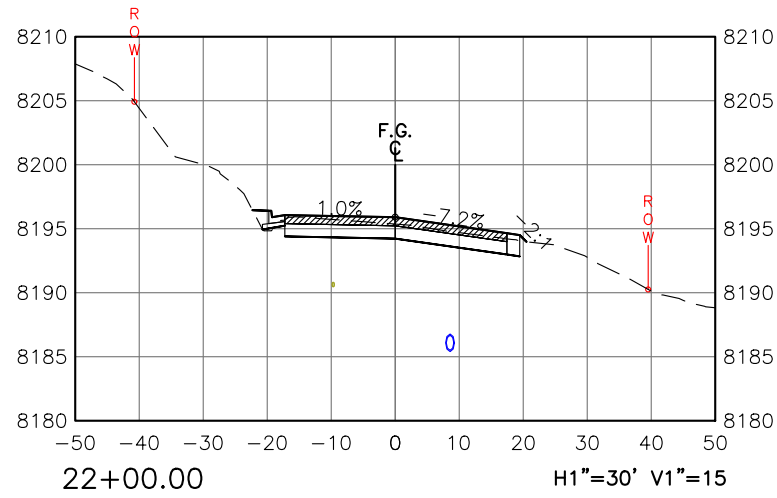
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LEGEND

- EXISTING GAS
- EXISTING WATER
- EXISTING ELECTRIC
- EXISTING FIBER
- EXISTING SANITARY
- PROPOSED STORM

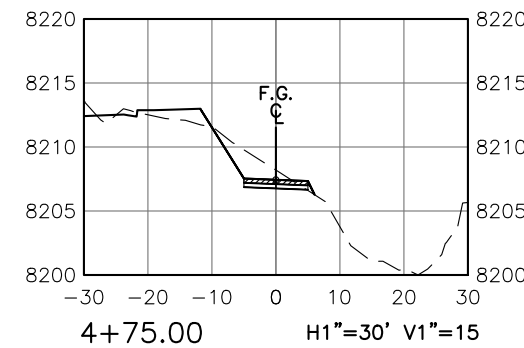
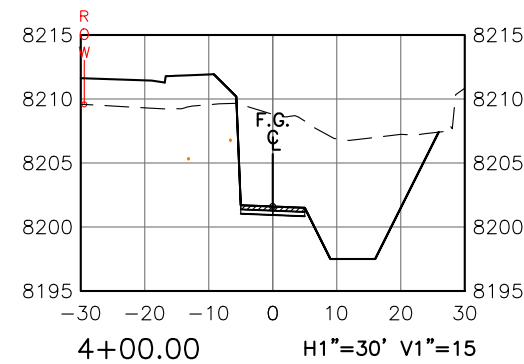
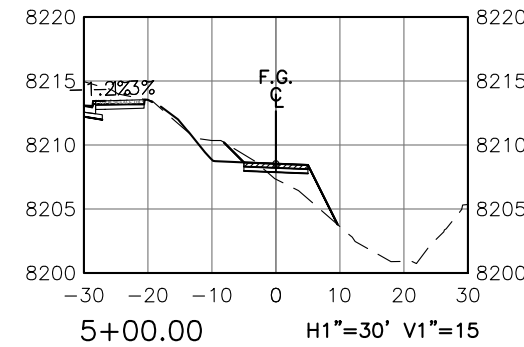
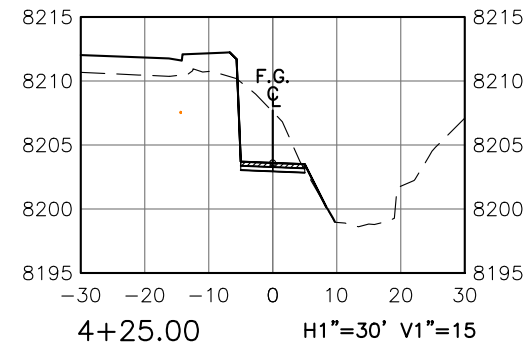
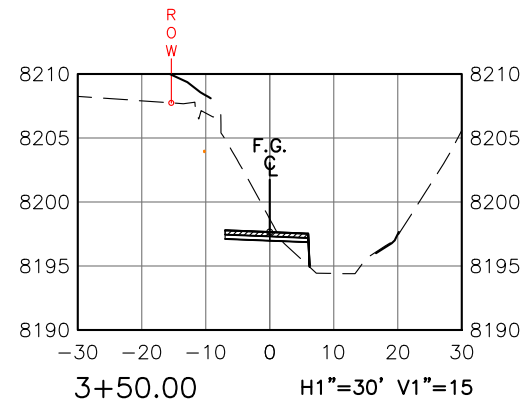
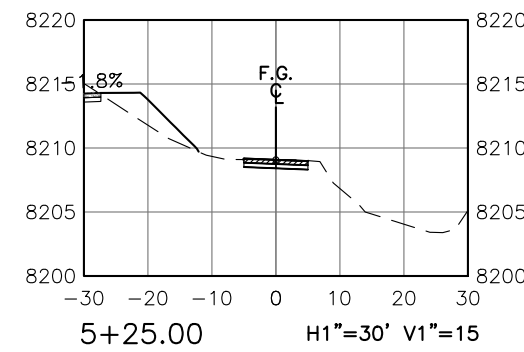
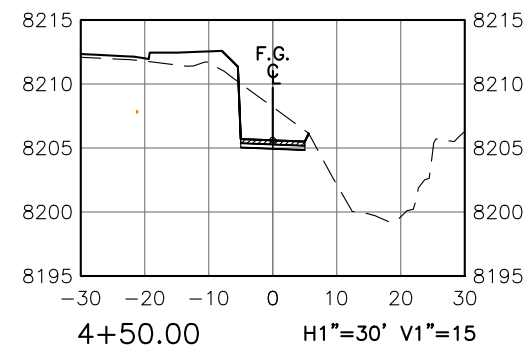
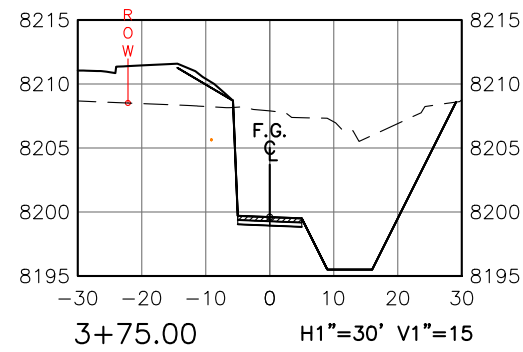


| Computer File Information          |                      | Sheet Revisions                |      |          |       |  | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004 www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>OWL CREEK ROAD CROSS SECTIONS |  |                       |    | Project No./Code |  |
|------------------------------------|----------------------|--------------------------------|------|----------|-------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|---------------------------------------------------------|--|-----------------------|----|------------------|--|
| Print Date: 4/1/25                 |                      | Rev.                           | Date | Comments | Init. |                                                                                       |                                                                                                                                                                                         | No Revisions:  |  |                                                         |  |                       |    | --               |  |
| Last Modification Date: 4/1/25     |                      | <input type="text" value="1"/> |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  | Engineer: AMC                                           |  | Structure             | -- |                  |  |
| Drawing File Name: BrushCreekRB_XS |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         | Revised:       |  | Drawn By: EJM                                           |  | Numbers               | -- | --               |  |
| Autocad Ver. 2022 Scale: As Shown  |                      | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         | Void:          |  | Sheet Subset: XS                                        |  | Subset Sheets: 3 of 5 |    | Sheet Number 104 |  |
| SGM Project No.: 91004D-83         | Quality Control: MDF | <input type="text"/>           |      |          |       |                                                                                       |                                                                                                                                                                                         |                |  |                                                         |  |                       |    |                  |  |

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LEGEND

- EXISTING GAS
- EXISTING WATER
- EXISTING ELECTRIC
- EXISTING FIBER
- EXISTING SANITARY
- PROPOSED STORM



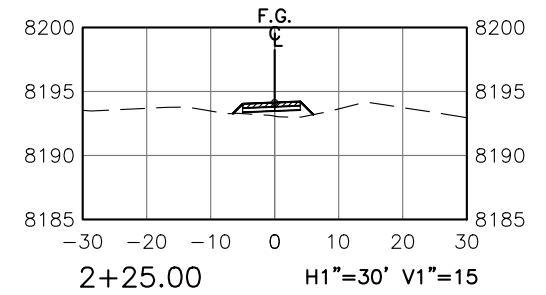
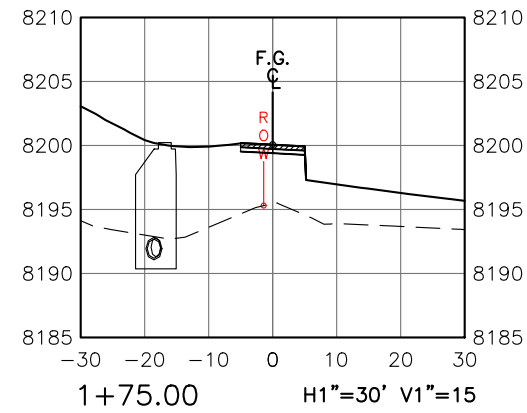
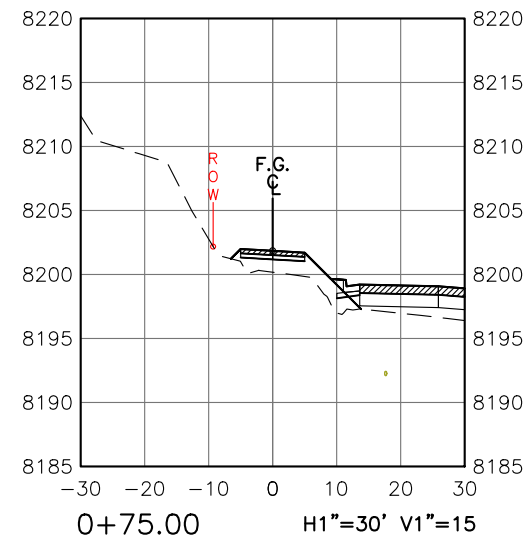
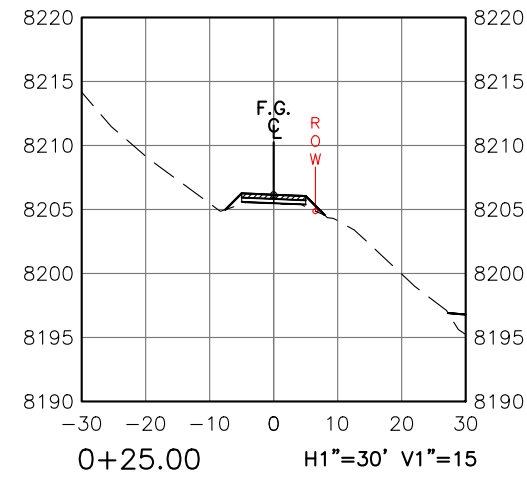
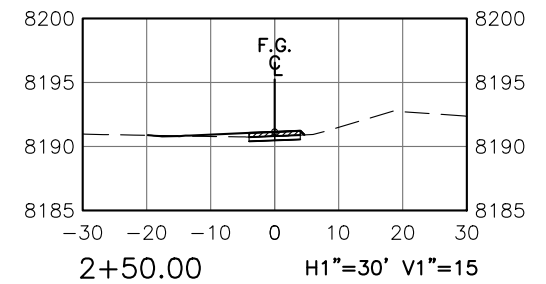
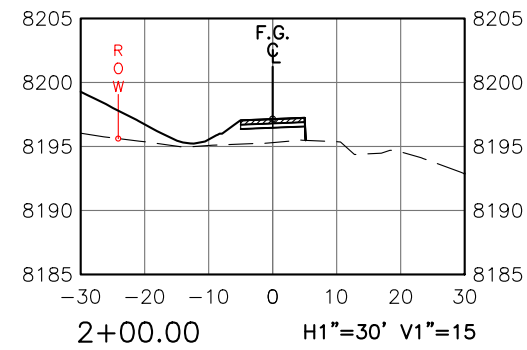
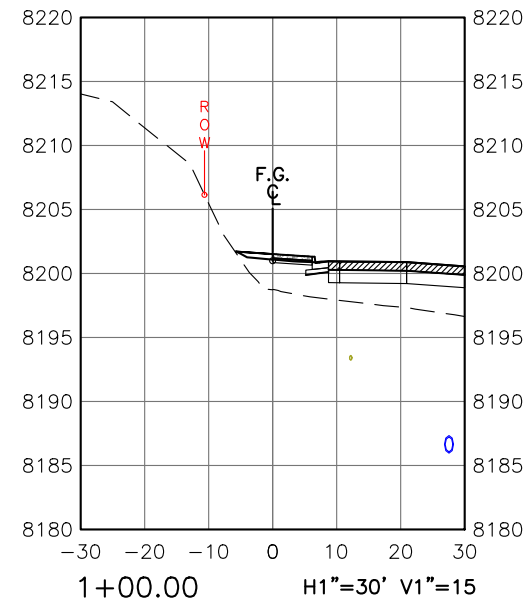
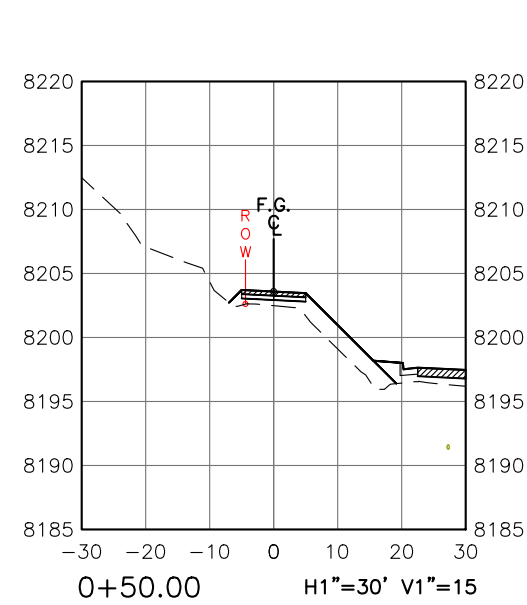
| Computer File Information            |                      | Sheet Revisions |      |          |       | <br><i>Town of</i><br><b>SNOWMASS</b> <i>Village</i> | <br>118 West Sixth Street, Suite 200<br>Glenwood Springs, CO 81601<br>970.945.1004   www.sgm-inc.com | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>MAYFLY TRAIL CROSS SECTIONS |     |                       |    | Project No./Code |  |
|--------------------------------------|----------------------|-----------------|------|----------|-------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--|-------------------------------------------------------|-----|-----------------------|----|------------------|--|
| Print Date: 4/1/25                   |                      | Rev.            | Date | Comments | Init. |                                                                                                                                           |                                                                                                                                                                                           | No Revisions:  |  | --                                                    |     |                       |    |                  |  |
| Last Modification Date: 4/1/25       |                      | <div>1</div>    |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Revised:       |  | Engineer:                                             | AMC | Structure             | -- | --               |  |
| Drawing File Name: BrushCreekRB_XS   |                      | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           | Void:          |  | Drawn By:                                             | EJM | Numbers               | -- | Sheet Number 105 |  |
| Autocad Ver. 2022    Scale: As Shown |                      | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  | Sheet Subset:                                         | XS  | Subset Sheets: 4 of 5 |    |                  |  |
| SGM Project No.: 91004D-83           | Quality Control: MDF | <div></div>     |      |          |       |                                                                                                                                           |                                                                                                                                                                                           |                |  |                                                       |     |                       |    |                  |  |



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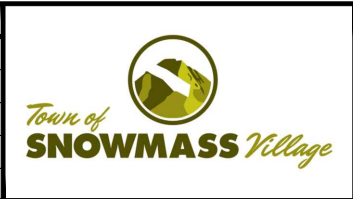
LEGEND

EXISTING GAS    EXISTING WATER    EXISTING ELECTRIC    EXISTING FIBER    EXISTING SANITARY    PROPOSED STORM



| Computer File Information                       |  |  |  |
|-------------------------------------------------|--|--|--|
| Print Date: 4/1/25                              |  |  |  |
| Last Modification Date: 4/1/25                  |  |  |  |
| Drawing File Name: BrushCreekRB_XS              |  |  |  |
| Autocad Ver. 2022 Scale: As Shown               |  |  |  |
| SGM Project No.: 91004D-83 Quality Control: MDF |  |  |  |

| Sheet Revisions |      |          |       |  |
|-----------------|------|----------|-------|--|
| Rev.            | Date | Comments | Init. |  |
| 1               |      |          |       |  |
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**SGM**  
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| As Constructed |  |
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| No Revisions:  |  |
| Revised:       |  |
| Void:          |  |

| BRUSH CREEK ROUNDABOUT<br>BRUSH CREEK PATH CROSS SECTIONS |     |                |        |
|-----------------------------------------------------------|-----|----------------|--------|
| Engineer:                                                 | AMC | Structure      | --     |
| Drawn By:                                                 | EJM | Numbers        | --     |
| Sheet Subset:                                             | XS  | Subset Sheets: | 5 of 5 |

| Project No./Code |     |
|------------------|-----|
| --               |     |
| --               |     |
| Sheet Number     | 106 |



## TECHNICAL MEMORANDUM

**TO:** Anne Martens – Snowmass Village Public Works Director  
**FROM:** Mike Fowler, PE - SGM Project Manager *mf*  
**DATE:** December 6, 2023  
**RE:** Brush Creek Road and Owl Creek Road Intersection Improvements Project Update

### **Purpose of Memorandum**

This memorandum summarizes previous design information for the intersection improvements at Brush Creek Road (BCR) and Owl Creek Road (OCR), current traffic count information and updated intersection analysis, and recent culvert replacement work adjacent to the intersection.

### **Background**

Intersection function can be evaluated using Level of Service (LOS) criteria. LOS is defined in terms of average total vehicle delay of all movements through the intersection. Vehicle delay is a method of quantifying several intangible factors, including driver discomfort, frustration, and lost travel time. Specifically, LOS criteria are stated in terms of average delay per vehicle during a specified time period (for example, the PM peak hour) and are represented by letters ranging from A to F (similar to school report cards). LOS A is indicative of excellent operations with drivers experiencing very little delay and LOS F is indicative of extreme congestion with drivers experiencing excessive delay.

Previous studies for the Town of Snowmass have determined the LOS for the BCR/OCR intersection. The "*Snowmass Center Multi-Use Development Traffic Impact Analysis, Parking Analysis and Gondola Ridership Study*" (LSC 10/2002) and the "*Snowmass Base Village and Outlying Parcels Transportation Analysis and Parking Management Strategy*" (FHU 3/2004 and updated 2014) provide the historical analysis of the existing BCR/OCR intersection and also provide the operational threshold desired at all intersections:

- Snowmass Center Report – This report cites the LOS "C" threshold as defined in the Town's Comprehensive Plan as the "level of service maximum threshold" for roadways and intersections. Furthermore, it uses "925 one-way vehicles per peak hour for the *ten busiest days* on Brush Creek Road plus intersection delay level of service for key intersections" as the trigger point for improvements.
- Base Village Report – This report also cites the LOS "C" threshold as defined in the Town's Comprehensive Plan as the "level of service maximum threshold" for roadways and intersections, triggering mitigation improvements.

The Comprehensive Plan cited in these reports was the Plan that was in effect at the time of the reports. The current Comprehensive Plan (adopted 2018) has the same LOS threshold, meaning that any intersection operating at LOS C or better is not a candidate for improvement. The Comprehensive Plan also states, "the average one-way traffic volume on Brush Creek Road during the winter PM Peak time is well below the 925 vehicles per hour threshold for LOS C, suggesting that this somewhat conservative threshold is appropriate".



### **Previous Design Information Summary**

SGM has been engaged with the Town on this project to develop potential intersection improvement options since 2011. In that time, various scenarios have been evaluated, including:

- Existing Stop Control
- Three Way Signalized Intersection
- Mini Roundabout\*
- Full Size Roundabout (87' and 115' Diameter)"

\* these options were evaluated with and without a "Bypass Lane" for right turns from downvalley Brush Creek Road to Owl Creek Road

The recommended design by SGM and Town staff is the Full Size (115' Diameter) Roundabout without a Bypass Lane. Council directed Staff to proceed with this design after the discussion on January 10, 2022. This option was used in the Brush Creek Culvert Replacement design for establishing the culvert structure layout that can accommodate a future roundabout at the intersection.

The current conceptual-level Full Size Roundabout layout is shown in Figure 1 on the following page. This layout includes the following design elements:

- Upvalley and downvalley bus pullouts on Brush Creek Road and a bus pullout on Owl Creek Road at Chapel Drive
- Walkway/trail along the downvalley lane of Brush Creek Road
- Walkway connecting Owl Creek Road to the downvalley bus pullout
- Continuous, grade-separated connection of the Mayfly Trail to the Owl Creek/Brush Creek Trails
- Cross walks at each roundabout leg with pedestrian refuges in the splitter islands
- New pedestrian bridge to replace the existing corrugated metal pipe culvert at the Seasons Four access
- Roadway stormwater collection
- Deflection of Brush Creek Road approaches into the roundabout to slow traffic entering the intersection
- WB-67 truck turning movement capacity
- New Brush Creek culvert replacement (constructed)

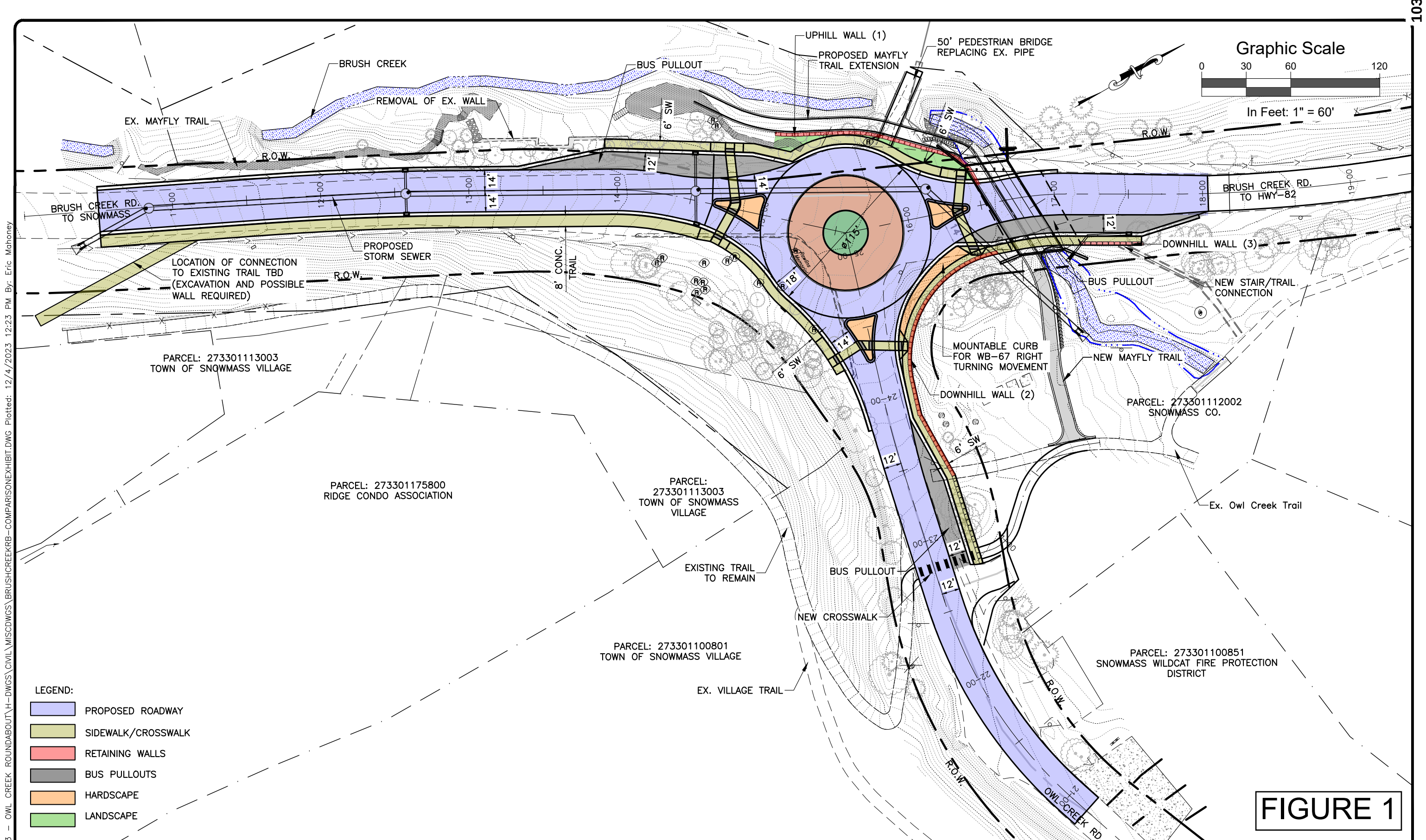


FIGURE 1

| Computer File Information |                                |                     | Sheet Revisions |      |          |       | As Constructed |  | BRUSH CREEK ROUNDABOUT<br>OVERALL SITE PLAN |         |                   | Project No./Code |                |
|---------------------------|--------------------------------|---------------------|-----------------|------|----------|-------|----------------|--|---------------------------------------------|---------|-------------------|------------------|----------------|
| Print Date:               | 12/4/23                        |                     | Rev.            | Date | Comments | Init. | No Revisions:  |  | Engineer:                                   | MDF     | Structure Numbers | ---              | --             |
| Last Modification Date:   | 12/4/23                        |                     | 1               |      |          |       | Revised:       |  | Drawn By:                                   | EJM     |                   | ---              | --             |
| Drawing File Name:        | BrushCreekRB-ComparisonExhibit |                     |                 |      |          |       | Void:          |  | Sheet Subset:                               | EXHIBIT | Subset Sheets:    | 1 of 1           | Sheet Number 1 |
| Autocad Ver.              | 2018                           | Scale: As Shown     |                 |      |          |       |                |  |                                             |         |                   |                  |                |
| SGM Project No.:          | 91004D-83                      | Quality Control: XX |                 |      |          |       |                |  |                                             |         |                   |                  |                |

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### **2023 Traffic Count Update**

The Town has continued to perform traffic counts at this intersection during the President's Day holiday weekend. The President's Day holiday weekend has been used since 2013, as this weekend provides count data that is representative of the "*ten busiest days*" of the year and not the annual peak volumes which historically occur in the week of Christmas to New Year's. Transportation engineering guidelines recommend using a forecast of the 20-year, 30<sup>th</sup> highest design hour volume as a basis for design. This is generally equated to the *ten busiest days* of the year.

The controlling Northbound (NB) Brush Creek PM peak volumes over the last three years are highly variable, but likely explainable. The 2021 total NB PM peak volume was 693 vehicles per hour (vph), up by only 1 vph over 2020 possibly due to start of pandemic. Then in 2022 the volume bumped up considerably to 832 vph, likely attributable to post-pandemic travel. The 2023 volume receded slightly to 796 vph but is still 15% higher than 2020. The 2023 volume is also at the Base Village Buildout level predicted by the 2014 FHU study. Traffic count data is provided in Table 1.

**Table 1 Traffic Count Data**

|                             | BRUSH CREEK ROAD |       |              |             |      | OWL CREEK ROAD |       |
|-----------------------------|------------------|-------|--------------|-------------|------|----------------|-------|
|                             | NB (Downhill)    |       |              | SB (Uphill) |      | WB             |       |
| Traffic Count or (STUDY)    | THRU             | RIGHT | <i>total</i> | THRU        | LEFT | LEFT           | RIGHT |
| 12/28/2012 (previous basis) | 606              | 223   | <b>829</b>   | 338         | 21   | 169            | 23    |
| Pres Day weekend 2013       | 474              | 186   | <b>660</b>   | 331         | 11   | 168            | 19    |
| Pres Day weekend 2019       | 417              | 182   | <b>599</b>   | 299         | 11   | 171            | 23    |
| Pres Day weekend 2020       | 456              | 236   | <b>692</b>   | 325         | 14   | 175            | 17    |
| Pres Day weekend 2021       | 498              | 195   | <b>693</b>   | 276         | 20   | 145            | 28    |
| Pres Day weekend 2022       | 617              | 215   | <b>832</b>   | 332         | 12   | 148            | 16    |
| Pres Day weekend 2023       | 592              | 204   | <b>796</b>   | 300         | 14   | 176            | 17    |
| (BUILDOUT – FHU)            | 615              | 180   | <b>795</b>   | 395         | 20   | 145            | 35    |

### **2023 Traffic Analysis Update**

The previous Operational Analysis of the Existing Stop-Control and Full Roundabout alternatives has been updated with new 2023 and 2043 projected traffic volume data. The 2023 baseline volumes are from the actual counts and the 2043 future traffic volumes for the intersection are generated using assumed annual growth rates of 1% and 2%. The 1% growth rate is similar to what CDOT uses for the SH-82 and Brush Creek Road intersection (0.8%). The 2% growth rate is more conservative but is closer to the actual increase over the last 10 years. From 2013 to 2023, the total NB Brush Creek Road volume has increased from 660 vph to 796 vph. This equates to an annual growth rate of approximately 1.9%. The updated Operational Analysis results are summarized in Table 2 on the following page. For more information regarding the basis for the Operational Analysis, please refer to the SGM Memo dated January 9, 2020, updated January 3, 2022 included with this memo as Attachment A.

**Table 2A Operational Analysis Results Summary – current and 20 year with 1% growth**

| Alternatives                       | 2023 |        |       |       | 2043 with 1% growth |        |       |       |
|------------------------------------|------|--------|-------|-------|---------------------|--------|-------|-------|
|                                    | LOS  | Delay  | Queue |       | LOS                 | Delay  | Queue |       |
|                                    |      | (secs) | (ft)  | (veh) |                     | (secs) | (ft)  | (veh) |
| Existing Stop Control Intersection |      |        |       |       |                     |        |       |       |
| Overall Intersection               | D    | 25     | n/a   | n/a   | F                   | 87     | n/a   | n/a   |
| Owl Creek WB Left                  | F    | 166    | 325   | 16    | F                   | 582    | 2531  | 126   |
| Roundabout (without Bypass Lane)   |      |        |       |       |                     |        |       |       |
| Overall Intersection               | A    | 9      | n/a   | n/a   | B                   | 14     | n/a   | n/a   |
| Owl Creek WB                       | A    | 9      | 78    | 4     | B                   | 13     | 85    | 5     |
| Brush Creek NB                     | B    | 11     | 135   | 6     | C                   | 16     | 351   | 17    |

**Table 2B Operational Analysis Results Summary – 20 year with 2% growth**

| Alternatives                       | 2043 with 2% growth |        |       |       |
|------------------------------------|---------------------|--------|-------|-------|
|                                    | LOS                 | Delay  | Queue |       |
|                                    |                     | (secs) | (ft)  | (veh) |
| Existing Stop Control Intersection |                     |        |       |       |
| Overall Intersection               | F                   | 236    | n/a   | n/a   |
| Owl Creek WB Left                  | F                   | 1589   | 6287  | 314   |
| Roundabout (without Bypass Lane)   |                     |        |       |       |
| Overall Intersection               | D                   | 28     | n/a   | n/a   |
| Owl Creek WB                       | C                   | 22     | 108   | 5     |
| Brush Creek NB                     | E                   | 37     | 324   | 16    |

Unsignalized Intersections

| Level of Service              | Delay (seconds) |
|-------------------------------|-----------------|
| A (Highly Desirable)          | < 10.0          |
| B (Desirable)                 | 10.1 to 15      |
| C (Acceptable)                | 15.1 to 25      |
| D (Acceptable in Urban Areas) | 25.1 to 35      |
| E (Unacceptable)              | 35.1 to 50      |
| F (Unacceptable)              | > 50.0          |

Source: Highway Capacity Manual, 2010

Key takeaways from the results are:

- The existing stop control intersection is at LOS D and Owl Creek WB Left Turn is LOS F. The predicted queue length on Owl Creek (325 ft) with current traffic volumes extends to the beginning of the fire station apron.
- With a roundabout, the overall intersection improves to LOS A and the Owl Creek WB approach improves to LOS A.
- The northbound Brush Creek approach becomes the controlling leg of the roundabout. This approach will maintain LOS C for at least 20 years.
- Owl Creek WB Left Turn delay is significantly reduced with a roundabout.

**Roundabout Recommendations**

Based on the operational analysis and the Town's Comprehensive Plan "level of service maximum threshold", a full-size roundabout should be constructed and implemented as soon as funding allows.



## **Brush Creek Culvert Replacement Project**

The Brush Creek Road and Owl Creek Road Roundabout has always included a replacement structure for the corrugated metal pipe (CMP) culvert that conveyed Brush Creek under Brush Creek Road. Structure replacement options included a bridge or large concrete box culvert that could convey the creek and accommodate a grade-separated Mayfly Trail connection under the road. In 2022 the CMP failed and caused a dip in the roadway pavement. Thick steel trench plates were installed on the roadway to span the failed culvert and temporary asphalt pavement was placed on top of the plates. This worked well and kept the roadway intact through the winter of 22-23. However, the culvert failure advanced the need to replace the CMP with a permanent structure. In October 2022, SGM was selected by the Town to perform the engineering design for the culvert replacement, and a few months later Gould Construction was brought onboard through a Construction Manager General Contractor (CMGC) project delivery method. This method allowed robust collaboration between the Town, design engineer and contractor that resulted in design that was constructible and met the Town's budget. Construction began in May 2023 and was substantially completed in November. A precast 3-sided culvert/bridge structure was selected to accommodate site constraints and the construction schedule. The existing water line, sewer line and high-pressure gas line that were located in the roadway under Brush Creek required relocation for the new larger and deeper structure. The utility relocation work began in April and was completed in June. Concrete foundations were poured for the structure and the precast members were installed on August 22<sup>nd</sup>. The structure was backfilled with aggregate material that was reinforced with geotextile to limit settlement of the backfill. The road was repaved in late October and reopened on November 6.

### **Figure 2 Construction Photos**



Condition of Previous CMP – note deformed top



Relocated Sewer line under temp creek pipe



Relocated Water line being backfilled



Water line tie-in





South abutment footing ready for concrete



North abutment footing ready for concrete



Precast structure placement



Ribbon Cutting

#### ATTACHMENT A – Previous SGM Memo

cc: Ashley Cline, PE – SGM Transportation Team Leader  
 Mark Frymoyer, PE – SGM Bridge Team Leader  
 Dan Cokley, PE, PTOE – SGM Principal  
 Project file

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## ATTACHMENT A - PREVIOUS SGM UPDATE MEMO

## Memorandum

**To:** Anne Martens, Public Works Director

**From:** Ron Nies, Project Manager; Dan Cokley, Principal SGM

**Date:** January 9, 2020, updated January 3, 2022

**Project:** Brush Creek Road and Owl Creek Road intersection improvements

**Subject:** Level of Service of Full-size roundabout with and without a Bypass Lane

### Background –

During conceptual design evaluation conducted by SGM throughout the year 2018, conceptual geometric layouts were created for a mini roundabout (87-foot diameter) with bypass lane (northbound to eastbound) and a full-size roundabout (115- foot diameter) with bypass lane (northbound to eastbound) at the Brush Creek Road and Owl Creek Road (BCR/OCR) intersection. These two alternatives were discussed with Town staff and emergency services, and it was decided that the full-size roundabout is a better operational choice at this location. The full-size roundabout design, as of January 25, 2019, is shown below:



During the year 2019, no work was done on the roundabout design while the Town discussed how they would like to proceed with improvements at this intersection.



January 2020 discussions between the Town Staff and Town Council focused on the need for the bypass lane, and whether it could be eliminated in order to reduce the overall footprint of the 115' roundabout. There is concern that the full-size roundabout would create an area of too much pavement from what the public would expect or want to see.

Editor's note 12/6/23: The slip lane was eliminated from the design in 2022 to shrink the size.

The purpose of this updated memo is to summarize the past traffic analysis, the basis for the bypass lane, and the operational impacts for not having the bypass lane as part of the initial construction.

### **Town of Snowmass Village Level of Service Requirements –**

When determining whether an intersection needs improvement, and for evaluating different improvement options, intersection Level of Service (LOS) is used as a guide to rate how an intersection functions operationally. LOS is a qualitative measure which describes the traffic flow characteristics using a letter scale ranging from A to F. LOS A is indicative of excellent operations with drivers experiencing very little delay. LOS F, the opposite end of the spectrum, represents extreme congestion with drivers experiencing excessive delay. Previous studies for the Town of Snowmass have determined the LOS for the BCR/OCR intersection. “*Snowmass Center Multi-Use Development Traffic Impact Analysis, Parking Analysis and Gondola Ridership Study*” (LSC 10/02) and the “*Snowmass Base Village and Outlying Parcels Transportation Analysis and Parking Management Strategy*” (FHU 3/04 and updated 2014) provide the historical analysis of the existing BCR/OCR intersection and also provides the desired operation threshold that needs to be achieved at all intersections:

Snowmass Center Report – This report cites the LOS “C” threshold as defined in the Town’s Comprehensive Plan as the “level of service maximum threshold” for roadways and intersections. Furthermore, it uses “925 one-way vehicles per peak hour for the *ten busiest days* on Brush Creek Road plus intersection delay level of service for key intersections” as the trigger point for improvements.

Base Village Report – This report also cites the LOS “C” threshold as defined in the Town’s Comprehensive Plan as the “level of service maximum threshold” for roadways and intersections, triggering mitigation improvements.

The Comprehensive Plan referred to above was the Plan that was in effect at the time of the Reports. The current Comp Plan (adopted 2018) has the same LOS threshold, meaning that any intersection operating at LOS C is not a candidate for improvement. The Comp Plan also states, “the average one way traffic volume on Brush Creek Road during the winter PM Peak time are well below the 925 vehicles per hour threshold for LOS C, suggesting that this somewhat conservative threshold is appropriate”.

### **Past Intersection Traffic Analysis –**

The Snowmass Center Report states “BCR/OCR intersection also experiences operational difficulties; specifically, the left turn movement from Owl Creek Road to Brush Creek Road operates at LOS E during PM peak hours”.

In 2013, SGM conducted an abbreviated traffic analysis as part of the continuing planning for the intersection improvements. Using December 27<sup>th</sup> - 29<sup>th</sup>, 2012 traffic volumes (the busiest few days of each year), the existing westbound Owl Creek Road approach (labelled as “Stop Control” in the Figure below) was determined to operate at an overall LOS F (based on “vehicle delay”). The Overall intersection operates at LOS A (based on “intersection delay”, due to the high volume of northbound and southbound through movements that do not need to stop at the

intersection). Multiple improvement options for the intersection were also evaluated and are summarized in the figure below.

|                             | Stop Control    | Stop Control w/ Zoom Lane | Signal Control | Mini Roundabout | Mini w/ Bypass | Full Size w/ Bypass |
|-----------------------------|-----------------|---------------------------|----------------|-----------------|----------------|---------------------|
| <b>Operations (PM Peak)</b> |                 |                           |                |                 |                |                     |
| Vehicle Delay               | <b>67.3 Sec</b> | <b>66.3 Sec</b>           | 21.7 Sec       | 21.4 Sec        | 12.0 Sec       | 12.0 Sec            |
| Intersection Delay          | 9.6 Sec         | 9.4 Sec                   | 8.3 Sec        | 16.8 Sec        | 9.9 Sec        | 9.9 Sec             |
| Level of Service            | <b>F</b>        | <b>F</b>                  | A              | C               | A              | A                   |
| Average Speed               | 22              | 22                        | 19             | 19              | 19             | 19                  |
| Total Stops                 | 232             | 230                       | 520            | 226             | 223            | 215                 |
| Total Stops (%)             | 16.6%           | 16.4%                     | 37.1%          | 16.1%           | 15.9%          | 15.4%               |
| <b>95th % Queues</b>        |                 |                           |                |                 |                |                     |
| NB (Brush Crk)              | n/a             | n/a                       | 182'           | 132'            | 81'            | 88'                 |
| SB (Brush Crk)              | 58'             | 54'                       | 178'           | 65'             | 76'            | 65'                 |
| WB (Owl Crk)                | 116'            | 126'                      | 92'            | 67'             | 75'            | 76'                 |

### LOS of Roundabout without Bypass Lane –

The 2013 simulations did not include the full-size roundabout without the bypass lane because the focus at the time was demonstrating the range of sizes that could work, from the mini (smallest) to the full size with bypass (largest). It is SGM's judgement that the full-size roundabout without the bypass lane will operate at LOS B or C, i.e less than A but still within the threshold limits set by the Town. SGM recommends that the full-size roundabout without bypass lane be formally analyzed, using the most current available traffic counts, to determine the exact LOS. Also, an analysis should be done to determine approximately when the bypass lane would need to be added once the LOS of the intersection drops below the level C as mandated by the Comprehensive Plan.

### 2022 Traffic Analysis Update

This analysis provides a comparison of the existing condition and proposed scenarios using President's Day traffic volumes (most recent 2020) that are within the *ten busiest days* but are not the historic busiest week of the year (Christmas Day to New Year's Day, as used in the 2013 analysis). Transportation engineering guidelines use a forecast of the 20-year, 30<sup>th</sup> highest design hour volume as a basis for design. This can generally be equated to the *ten busiest days* of the year.

The 2023 baseline and 2043 future traffic volumes for the intersection are generated using an annual growth rate of 1% from the counted 2020 President's Day weekend traffic volumes (20-year factor 1.22). CDOT uses a 20-year factor of 1.15 (0.8% per year) at the SH 82 and Brush Creek Road intersection. A more conservative estimate of 2% annual growth is also included in the results.

A summary of the design hour traffic volumes and comparison to the December 2012 and FHU ultimate buildout volumes is attached (Figure 1).

Operational analysis of the existing Stop-Control (TWSC-Stop) and full-size Roundabout alternatives is also provided in Figure 1. This analysis assesses the operational measures of effectiveness (MOE's) including Level of Service (LOS), Delay, and 95<sup>th</sup> percentile queue. The MOE analysis by approach and movement provides an overview of all intersection conflicting movements and provides a more realistic picture of operations as experienced and perceived by users. The MOE's also provide a valuable reference point for comparison of LOS, Delay and Queue between scenarios.



PM design hour level of service estimates were prepared in accordance with the Highway Capacity Manual 6<sup>th</sup> Edition (Transportation Research Board, 2016).

For unsignalized intersections, the Highway Capacity Manual defines level of service and delay in terms of seconds of stopped delay per vehicle, which is based on the number of acceptable gaps in the conflicting traffic stream. In general, the traffic movements analyzed are those controlled by stop signs or yield signs, and the left turn movements from the uncontrolled major street. The following table represents the level of service criteria for unsignalized intersections:

| LEVEL OF SERVICE (LOS) CRITERIA   |                 |
|-----------------------------------|-----------------|
| <u>Unsignalized Intersections</u> |                 |
| Level of Service                  | Delay (seconds) |
| A                                 | < 10.0          |
| B                                 | 10.1 to 15      |
| C                                 | 15.1 to 25      |
| D                                 | 25.1 to 35      |
| E                                 | 35.1 to 50      |
| F                                 | > 50.0          |

Source: *Highway Capacity Manual*, 2016

The “overall” intersection level of service at an unsignalized intersection corresponds with the average delay experienced on the minor street approaches *and* the uncontrolled major street movements. The unconflicted major street through movements are considered to have no delay. Because most of the intersection movements are major street movements with no delay, the overall intersection results in a LOS with less delay than the minor street approaches and conflicting major street movements (left turns) actually experience.

The Operational Results and MOE’s are summarized below for the analyzed scenarios. See Figure 2 for projected volumes.

- **TWSC-STOP Intersection**

- 2023: The overall intersection is LOS C; Owl Cr WB Left is LOS F. Relatively equal queue lengths (~3 vehicles).
- 2027: The overall intersection is LOS D; Owl Cr WB Left is LOS F – Intersection improvements triggered per Town standards based on overall LOS degradation from C to D. WB queue lengths increase significantly to ~12 vehicles.
- 2043: The overall intersection is LOS F; WB queue lengths increase to ~80 vehicles.

- **Full-size roundabout**

- 2043: The overall intersection is LOS B (1% growth); NB approach at LOS B (queue ~13 vehicles), others at LOS A (queue ~4 vehicles).
- 2066: The overall intersection degrades to LOS D; Trigger for bypass lane (at 1% growth).
- 2043: The overall intersection degrades to LOS D at 2% *growth*. Trigger for bypass lane (at 2% growth).

The operational analysis also modeled the effect of implementing “No Left Turn” from Owl Creek Road to Brush Creek Road during the design hour. Those results assumes WB traffic on Owl Creek Road is prohibited from turning left onto Brush Creek Road, but can still turn right. The WB left turning vehicles would re-route EB on Owl Creek Road to Highline Road to SB Brush Creek Road. It is also assumed 25% of that re-routed traffic volume would make a SB left to

access Owl Creek Road. The result is an overall intersection LOS of A, due the increased number of uncontrolled approach movements and elimination of almost all the Stop movements. A review of travel times shows that the out-of-direction travel time would be three times greater than the 2023 WB delay time and generally equal to the 2043 delay time with no other intersection improvements. From a traffic flow perspective, the application of “No Left Turn” policy would generally be impractical and require heavy-handed enforcement.

### **Recommendations**

Based on the operational analysis and the Town’s Comprehensive Plan “level of service maximum threshold”, a full-size roundabout should be constructed and implemented by 2027, when the overall Stop-controlled intersection is projected to degrade to LOS D. A bypass lane is not anticipated to be needed to maintain LOS C until 2066 but should be re-evaluated at a minimum of 5-year intervals following implementation of the roundabout based on current and anticipated traffic volumes at that time.



Figure 1

| Brush Creek / Owl Creek<br>Operational Result Summary |         |    | 2023 TRAFFIC (1% Growth) |       |                |       |             | 2043 TRAFFIC (1% Growth) |       |                |       |             | 2043 TRAFFIC (2% Growth) |       |                |       |             | FHU BUILDOUT TRAFFIC<br>(2014 REPORT) |       |                |       |             | 2043 TRAFFIC NO LEFT FROM OWL (1%<br>Growth) |       |                |      |             |
|-------------------------------------------------------|---------|----|--------------------------|-------|----------------|-------|-------------|--------------------------|-------|----------------|-------|-------------|--------------------------|-------|----------------|-------|-------------|---------------------------------------|-------|----------------|-------|-------------|----------------------------------------------|-------|----------------|------|-------------|
|                                                       |         |    | <u>Overall</u>           |       | <u>Overall</u> |       | 95th %<br>Q | <u>Overall</u>           |       | <u>Overall</u> |       | 95th %<br>Q | <u>Overall</u>           |       | <u>Overall</u> |       | 95th %<br>Q | <u>Overall</u>                        |       | <u>Overall</u> |       | 95th %<br>Q | <u>Overall</u>                               |       | <u>Overall</u> |      | 95th %<br>Q |
|                                                       |         |    | LOS                      | Delay | LOS            | Delay |             | LOS                      | Delay | LOS            | Delay |             | LOS                      | Delay | LOS            | Delay |             | LOS                                   | Delay | LOS            | Delay |             | LOS                                          | Delay |                |      |             |
| FULL RAB                                              | WB      | PM | A                        | 8.3   |                |       | B           | 11                       |       |                |       | C           | 19.5                     |       |                |       | A           | 9.5                                   |       |                |       | B           | 12.2                                         |       |                |      |             |
|                                                       |         | PM |                          |       | A              | 7.6   | 66          |                          |       | A              | 9.9   | 85          |                          |       | C              | 15.4  | 105         |                                       |       | A              | 9     | 63          |                                              |       | A              | 5.3  | 22          |
|                                                       | NB      | PM |                          |       |                |       |             |                          |       |                |       |             |                          |       |                |       |             |                                       |       |                |       |             |                                              |       |                |      |             |
|                                                       |         | PM |                          |       | A              | 9.3   | 64          |                          |       | B              | 12.7  | 261         |                          |       | C              | 24.5  | 380         |                                       |       | B              | 11    | 189         |                                              |       | C              | 15.4 | 357         |
|                                                       | SB      | PM |                          |       |                | A     | 6.7         | 63                       |       |                | A     | 8.3         | 83                       |       |                | B     | 11.6        | 146                                   |       |                | A     | 7.1         | 61                                           |       |                | A    | 8.1         |
| TWSC - STOP (Exist)                                   | WB      | PM |                          |       |                |       |             |                          |       |                |       |             |                          |       |                |       |             |                                       |       |                |       |             |                                              |       |                |      |             |
|                                                       |         | PM |                          |       |                |       |             |                          |       |                |       |             |                          |       |                |       |             |                                       |       |                |       |             |                                              |       |                |      |             |
|                                                       | NB      | PM |                          |       |                | F     | 125.5       | 208                      |       |                | F     | 472         | 1665                     |       |                |       |             |                                       |       |                |       |             |                                              |       |                | C    | 15.9        |
|                                                       |         | PM |                          |       |                | A     |             | 20                       |       |                | A     |             | 20                       |       |                |       |             |                                       |       |                |       |             |                                              |       |                | A    |             |
|                                                       | SB Left | PM |                          |       |                | A     | 9.4         | 70                       |       |                | B     | 10.1        | 187                      |       |                |       |             |                                       |       |                |       |             |                                              |       |                | B    | 10.7        |

| TWSC    |         | Overall |  |       |  | 95th % |  |
|---------|---------|---------|--|-------|--|--------|--|
| OVERALL |         | LOS     |  | Delay |  | Q      |  |
| LOS D   |         | D       |  | 26.4  |  |        |  |
| 2027    | PM      |         |  |       |  |        |  |
|         | WB left |         |  |       |  |        |  |
| NB      | PM      |         |  | F     |  | 187.6  |  |
|         |         |         |  |       |  | 357    |  |
| SB Left | PM      |         |  | A     |  | 20     |  |
|         |         |         |  |       |  |        |  |
|         | PM      |         |  | A     |  | 9.5    |  |
|         |         |         |  |       |  | 85     |  |

| Unsignalized Intersections   |                 |
|------------------------------|-----------------|
| Level of Service             | Delay (seconds) |
| A (Highly Desirable)         | < 10.0          |
| B (Desirable)                | 10.1 to 15      |
| C (Acceptable)               | 15.1 to 25      |
| D (Acceptable n Urban Areas) | 25.1 to 35      |
| E (Unacceptable)             | 35.1 to 50      |
| F (Unacceptable)             | > 50.0          |

Source: Highway Capacity Manual, 2010

| Travel Time Analysis |  | Distance | Travel   |
|----------------------|--|----------|----------|
|                      |  | (miles)  | (minute) |
| Owl Cr               |  | 1.25     | 3.0      |
| Highline/Brush Cr    |  | 2.5      | 6.0      |
|                      |  | 2023     | 2043     |
|                      |  | Delay    | Delay    |
| Owl Cr WB left       |  | 2.1      | 7.9      |
|                      |  | (minute) | (minute) |

Figure 2

OWL CREEK - BRUSH CREEK ROUNDABOUT

NORTHBOUND PM APPROACH VOLUME

\*Presidents Day counts

| YEAR | EXISTING<br>VOLUME* | PROJECTED VOLUME (DHV)<br>(assumed growth rate) |       |       |
|------|---------------------|-------------------------------------------------|-------|-------|
|      | (DHV)               | 1%                                              | 2%    | 4%    |
| 2019 | 599                 |                                                 |       |       |
| 2020 | 692                 |                                                 |       |       |
| 2021 |                     | 699                                             | 706   | 720   |
| 2022 |                     | 706                                             | 720   | 748   |
| 2023 |                     | 713                                             | 734   | 778   |
| 2024 |                     | 720                                             | 749   | 810   |
| 2025 |                     | 727                                             | 764   | 842   |
| 2026 |                     | 735                                             | 779   | 876   |
| 2027 |                     | 742                                             | 795   | 911   |
| 2028 | TWSC<br>LOS D 740   | 749                                             | 811   | 947   |
| 2029 |                     | 757                                             | 827   | 985   |
| 2030 |                     | 764                                             | 844   | 1024  |
| 2031 |                     | 772                                             | 860   | 1065  |
| 2032 |                     | 780                                             | 878   | 1108  |
| 2033 |                     | 788                                             | 895   | RAB   |
| 2034 |                     | 795                                             | 913   | LOS D |
| 2035 |                     | 803                                             | 931   | 1090  |
| 2036 |                     | 811                                             | 950   |       |
| 2037 |                     | 820                                             | 969   |       |
| 2038 |                     | 828                                             | 988   |       |
| 2039 |                     | 836                                             | 1008  |       |
| 2040 |                     | 844                                             | 1028  |       |
| 2041 |                     | 853                                             | 1049  |       |
| 2042 |                     | 861                                             | 1070  |       |
| 2043 |                     | 870                                             | 1091  |       |
| 2044 |                     | 879                                             | RAB   |       |
| 2045 |                     | 887                                             | LOS D |       |
| 2046 |                     | 896                                             | 1090  |       |
| 2047 |                     | 905                                             |       |       |
| 2048 |                     | 914                                             |       |       |
| 2049 |                     | 923                                             |       |       |
| 2050 |                     | 933                                             |       |       |
| 2051 |                     | 942                                             |       |       |
| 2052 |                     | 951                                             |       |       |
| 2053 |                     | 961                                             |       |       |
| 2054 |                     | 971                                             |       |       |
| 2055 |                     | 980                                             |       |       |
| 2056 |                     | 990                                             |       |       |
| 2057 |                     | 1000                                            |       |       |
| 2058 |                     | 1010                                            |       |       |
| 2059 |                     | 1020                                            |       |       |
| 2060 |                     | 1030                                            |       |       |
| 2061 |                     | 1041                                            |       |       |
| 2062 |                     | 1051                                            |       |       |
| 2063 |                     | 1062                                            |       |       |
| 2064 | RAB                 | 1072                                            |       |       |
| 2065 | LOS D               | 1083                                            |       |       |
| 2066 | 1090                | 1094                                            |       |       |



## BRUSH CR / OWL CREEK PM TRAFFIC VOLUMES

|                                      |                          | BRUSH CREEK ROAD |              |             | SB          | OWL CREEK   |              |
|--------------------------------------|--------------------------|------------------|--------------|-------------|-------------|-------------|--------------|
|                                      |                          | NB               |              |             |             | WB          |              |
| <u>Traffic Count (STUDY)</u>         | <u>THRU</u>              | <u>RIGHT</u>     | <u>total</u> | <u>THRU</u> | <u>LEFT</u> | <u>LEFT</u> | <u>RIGHT</u> |
| 12/28/2012 (previous basis)          | 606                      | 223              | 829          | 338         | 21          | 169         | 23           |
| Pres Day w/e 2013                    | 474                      | 186              | 660          | 331         | 11          | 168         | 19           |
| Pres Day w/e 2019                    | 417                      | 182              | 599          | 299         | 11          | 171         | 23           |
| Pres Day w/e 2020                    | 456                      | 236              | 692          | 325         | 14          | 175         | 17           |
| FHU (2014) BUILDOUT                  | 615                      | 180              | 795          | 395         | 20          | 145         | 35           |
| <i>growth factor from PresDay 20</i> | <i>1.03</i>              | <i>1.03</i>      | <i>1.03</i>  | <i>1.03</i> | <i>1.03</i> | <i>1.03</i> | <i>1.03</i>  |
| 2023 (1% growth)                     | 470                      | 243              | 713          | 335         | 14          | 180         | 18           |
| <i>growth factor from PresDay 20</i> | <i>1.07</i>              | <i>1.07</i>      | <i>1.07</i>  | <i>1.07</i> | <i>1.07</i> | <i>1.07</i> | <i>1.07</i>  |
| TWSC LOS D                           | 488                      | 253              | 740          | 348         | 15          | 187         | 18           |
| 2027 (1% growth)                     |                          |                  |              |             |             |             |              |
| <i>growth factor from PresDay 20</i> | <i>1.26</i>              | <i>1.26</i>      | <i>1.26</i>  | <i>1.26</i> | <i>1.26</i> | <i>1.26</i> | <i>1.26</i>  |
| 2043 (1% growth)                     | 573                      | 297              | 870          | 409         | 18          | 220         | 21           |
| <i>growth factor from PresDay 20</i> | <i>1.58</i>              | <i>1.58</i>      | <i>1.58</i>  | <i>1.58</i> | <i>1.58</i> | <i>1.58</i> | <i>1.58</i>  |
| RAB LOS D                            | 718                      | 372              | 1090         | 512         | 22          | 276         | 27           |
| 20yr (2066) @ 1%                     | Add NB Right Bypass Lane |                  |              |             |             |             |              |
| <i>growth factor from PresDay 20</i> | <i>1.58</i>              | <i>1.58</i>      | <i>1.58</i>  | <i>1.58</i> | <i>1.58</i> | <i>1.58</i> | <i>1.58</i>  |
| RAB LOS D                            | 740                      | 383              | 1123         | 527         | 23          | 284         | 28           |
| 20yr (2043) @ 2%                     | Add NB Right Bypass Lane |                  |              |             |             |             |              |