AGENDA
Planning Commission Meeting

Wednesday, October 23, 2024

Town Hall / Council Chambers - 302 Pine St Minturn, CO

The agenda is subject to change, including the addition of items 24 hours in advance or the deletion of items at any time. The order of agenda items listed are approximate.
This agenda and meetings can be viewed at www.minturn.org.

MEETING ACCESS INFORMATION AND PUBLIC PARTICIPATION:

This will be an in-person meeting with access for the public to attend in person or via the Zoom link included. Zoom Link: https://us02web.zoom.us/j/86760963513

Zoom Call-In Information: 1 651 372 8299 or 1 301 715 8592 **Webinar ID:** 867 6096 3513

Please note: All virtual participants are muted. In order to be called upon an unmuted, you will need to use the "raise hand" feature in the Zoom platform. When it's your turn to speak, the moderator will unmute your line and you will have five (5) minutes for public comment.

Public Comments: If you are unable to attend, public comments regarding any items on the agenda can be submitted to Madison Harris, Planner 1, prior to the meeting and will be included as part of the record.

1. CALL TO ORDER - 5:30 PM

2. ROLL CALL AND PLEDGE OF ALLEGIANCE

3. APPROVAL OF REGULAR AGENDA

Opportunity for amendment or deletions to the agenda.

4. APPROVAL OF MINUTES

A. October 9, 2024

5. DECLARATION OF CONFLICTS OF INTEREST

6. PUBLIC COMMENT

Citizens are invited to comment on any item not on the regular Agenda subject to a public hearing. Please limit your comments to five (5) minutes per person unless arrangements have been made

for a presentation with the Town Planner. Those who are speaking are requested to state their name and address for the record.

7. SPECIAL PRESENTATIONS

Presentations are limited to 5 minutes unless prior arrangements are made with the Town Planner.

8. DESIGN REVIEW AND LAND USE PUBLIC HEARINGS

A. 0023-0025 Belden Way - New Duplex Residence

B. 0027-0029 Belden Way - New Duplex Residence

9. DISCUSSION / DIRECTION ITEMS

A. Minturn Forward: Land Use Code Update - Draft Article 12 - Development Impact Report

10. STAFF REPORTS

A. Town Manager's Report

B. Planning Director Report

C. Planning Department Update

11. PLANNING COMMISSION COMMENTS

12. FUTURE MEETINGS

A. November 13, 2024

B. November 27, 2024

C. December 4, 2024 - Joint Work Session with Council about Minturn Forward

13. ADJOURN

OFFICIAL MINUTES
Planning Commission Meeting

Wednesday, October 09, 2024

Town Hall / Council Chambers - 302 Pine St Minturn, CO

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MEETING ACCESS INFORMATION AND PUBLIC PARTICIPATION:

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Zoom Call-In Information: 1 651 372 8299 or 1 301 715 8592 **Webinar ID:** 874 8804 7356

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Public Comments: If you are unable to attend, public comments regarding any items on the agenda can be submitted to Madison Harris, Planner 1, prior to the meeting and will be included as part of the record.

1. **CALL TO ORDER - 5:30 PM**
   Lynn Teach called the meeting to order at 5:30 p.m.

2. **ROLL CALL AND PLEDGE OF ALLEGIANCE**
   Those present at roll call: Planning Commission Chair Lynn Teach, and Planning Commission Members Jeff Armistead, Michael Boyd, Amanda Mire, Eric Rippeth, and Darell Wegert.
   Staff members present: Planning Director Scot Hunn and Planner I Madison Harris.

3. **APPROVAL OF REGULAR AGENDA**
   Opportunity for amendment or deletions to the agenda.
   Motion by Darell W., second by Jeff A., to approve the agenda as presented. Motion passed 5-0.
   Note: Eric R. is attending in his status as an alternate.

4. **APPROVAL OF MINUTES**

A. September 25, 2024
Motion by Jeff A., second by Amanda M., to approve the minutes of September 25, 2024 as presented. Motion passed 5-0.
Note: Eric R. is attending in his status as an alternate.

5. DECLARATION OF CONFLICTS OF INTEREST
No conflicts of interest.

6. PUBLIC COMMENT
Citizens are invited to comment on any item not on the regular Agenda subject to a public hearing. Please limit your comments to five (5) minutes per person unless arrangements have been made for a presentation with the Town Planner. Those who are speaking are requested to state their name and address for the record.
No public comment.

7. SPECIAL PRESENTATIONS
Presentations are limited to 5 minutes unless prior arrangements are made with the Town Planner.

8. DESIGN REVIEW AND LAND USE PUBLIC HEARINGS

9. DISCUSSION / DIRECTION ITEMS

A. Minturn Forward: Chapter 16 Code Update - Draft Article 12 Environmental Impact Report
Scot H. and Matt Farrar, Western Slope Consulting went over the draft Article 12 - Environmental Impact Report.

Darell W. asked that we define “Fens”.

- Scot H. proposed in Sec. 16-12-20(2) “including but not limited to fens, wetlands, rock outcroppings”

Michael B. clarified the definition of development.

Lynn T. asked if the Planning Commission/Town Council can still require an environmental impact report if the Planning Director does not to start with.

- Mr. Farrar said that there should be a section that allows the Planning Commission/Town Council to require more information non-specific to environmental impact reports.

Darell W. asked if the noise level in Sec. 16-12-20(15) is in regards to temporary noise levels or permanent noise levels.

- Mr. Farrar said that this should be clarified to either exempt construction noise.

Scot H. suggested renaming the section to development impact assessment.

- Amanda M. likes this idea.

Amanda M.

- Sec. 16-12-20 asked if there is a verification process
  - Yes
- (3) Alter native vegetation is this permanently or even if it’s going to be revegetated. Asked for different wording.
  - Scot H. said this could be taken care of on a vegetation plan
- (6) asked to add fire to the list
- (8) asked to add sonic substance
- (18) asked to use similar language from the PUD traffic study requirements to ensure consistent language to sections that reference traffic
  - Mr. Farrar said that this checklist is meant to be able to be filled out by anyone without hiring technical experts to fill it out.

Eric R. has concerns about these studies being performed by people paid by the Applicant.

- Scot H. said that's why these are referred to other agencies.

Amanda M. said that with the fiscal and traffic studies mentioned in Sec. 16-12-20, she doesn't feel are adequately represented in Sec. 16-12-30.

B. Existing Chapter 16 and Chapter 17 Definitions
Madison H. provided the summary of definitions from Chapter 16 and Chapter 17.

10. STAFF REPORTS

A. Manager's Report

Bellm Bridge Feasibility Study & Grant Opportunity

9/18/2024: Jeff Spanel, Inter-Mountain Engineering and I met with SEH Engineering who is conducting the Bellm Bridge Feasibility Study as well as Sarah Marin, with Sustainable Strategies who is tasked with Minturn's grant application for any bridge repairs. The group reviewed the current progress of the Feasibility Study along with the timeline for the CDOT Bridge grant application.

The above group has tentatively scheduled to bring this matter before the Council at the October 2, 2024, meeting for consideration of either a repair or replacement of the bridge. The grant application process is highly competitive and the costs for either repair or replacement will be extensive – meaning, at this point, Minturn will not be able to conduct the infrastructure improvements without a loan or a grant.

10/2/2024: SHE Engineers are not yet prepared to bring materials forward for discussion. The Town is hopeful these materials will be available by the October 16, 2024, Council meeting as the grant application is due by November 1, 2024. More to come.

HWY 24/Main Street Phase II Sidewalk Project Update

CDOT engineers continue to add additional scope and material requirements to the project, further limiting the amount of sidewalk that can be installed with the limited funds available. Both Inter-Mountain Engineering and Stolfus Engineering will continue to work with CDOT representatives toward finding ways to thoughtfully address ongoing concerns while being a efficient and fiduciarily responsible with the public funds available.

Tank #2 (Steel Bolted Tank) Lining Project

Colorado Department of Public Health and Environment (CDPHE) has updated their tank permitting requirements. Jarod Limke with HDR, Inc. is now reviewing how these permitting updates impact the Town's ability to rehabilitate tank #2. A memo from HDR, Inc with an analysis of these impacts is forthcoming.

Public Utilities Commission (PUC) – Railroad Ave Pedestrian Improvements Application

The application for installing a sidewalk over the rail line at Railroad Ave and Taylor St has been submitted to the PUC. Once approved, the Town can move forward with the pedestrian safety improvements awarded through the CDOT Revitalization grant, however this may not begin until the spring of 2025.

Membrane Water treatment Plant Funding Analysis

I have begun the final analysis of all remaining funding opportunities toward the construction of a new membrane water treatment plant (WTP). Efforts underway include the consideration of the value a sale of the Highlands Parcels 1 & 2 for the purpose of a conservation easement would create financially for the Town. This work is being considered/analyzed by the Eagle Valley Land Trust and further discussions surrounding this option will be vetted with findings coming to Council by December.

An additional review of all potential grant applications is forthcoming with a detailed memo by Sustainable Strategies, Minturn's contracted grant writing and lobbying firm. This memo will also be provided to the Town Council for review.

Minturn Market
Staff continues to review the validity and value of the Minturn Market. There are extensive benefits that come with the annual summertime event, however the cost to the Market Fund remains uncertain and the bandwidth required of staff can stretch thin. Vendor recruitment remains a challenge, and much is dependent on acquiring sponsorships. We will keep the Council appraised of progress for the 2025 summer season.

B. Planning Department Update
701 Main Street - Minor DRB Permit
Andrew Candelaria, representative of Rodney and Rosa Cordova at 701 Main, recently applied for a Minor DRB Permit to change the white vinyl siding to gray Hardie Board with white trim. Because the property is over 75 years old, and this project affects more than 50% of the exterior architectural features, the property owners were required to go through the two-week stay process to see if the community was interested in nominating the structure as a historic landmark. No one nominated the property and so this application was approved October 2, 2024.

271 Main Street - Minor DRB Permit
Joseph Halovanic, at 271 Main St #A, recently applied to erect a fence along the front and side property lines. This was reviewed and approved on October 3, 2024.

Scot H. gave an update on the Minturn Forward project, large developments going through the process, and the Regional Housing Authority.

11. PLANNING COMMISSION COMMENTS
Lynn T. said that Ella Burnett's 98th birthday is October 17th.

12. FUTURE MEETINGS
A. October 23, 2024
B. November 13, 2024
C. November 27, 2024 - Day before Thanksgiving
a. Darell W. will not be here

13. ADJOURN
Motion by Jeff A., second by Amanda M., to adjourn the regular meeting of October 9, 2024 at 7:23 p.m. Motion passed 5-0.
Note: Eric R. is attending in his status as an alternate.

_____

Lynn Teach, Commission Chair

ATTEST:

_____

Scot Hunn, Planning Director

Minturn Planning Department
Minturn Town Center
302 Pine Street
Minturn, Colorado 81645

Minturn Planning Commission
Chair – Lynn Teach
Jeff Armistead
Michael Boyd
Amanda Mire
Eric Rippeth
Darell Wegert

Design Review Board Hearing

Final Plan Review for New Duplex Residence

0023-0025 Belden Way

Hearing Date:	October 23, 2024
File Name and Process:	Duplex Residence Final Plan Review
Owner/Applicant:	Alison Perry, Miners Base Camp LLC
Representative:	Greg Macik, TAB Associates, Inc.
Legal Description:	Subdivision: BELDEN PLACE PUD Lots: 10 and 11
Address:	0023-0025 Belden Way
Zoning:	South Town Character Area – Belden Place PUD Zone District
Staff Member:	Madison Harris, Planner I
Recommendation:	**Approval**

Staff Report

I. Summary of Request:

The Applicant, Alison Perry, requests Final Plan review of a nine bedroom, 5,717 (gross) square foot duplex structure located at 0023-0025 Belden Way in the South Town Belden Place PUD Zone District. The Applicant's representative, Greg Macik of TAB Associates Inc., has been proactive in meeting with Town staff prior to submitting plans for the new structure and has provided a relatively complete and thorough set of site, landscaping, and architectural plans.

Proposed Plans
The plans show a three-story with a basement duplex residence with a maximum building height - measured via a weighted height calculation approved in the Belden Place PUD Guide – of 27 feet and 9 13/16 inches, under the maximum allowable 28-foot limit within the South Town Belden Place PUD Zone District for duplex units.

Additionally, the massing, forms, and scale of the proposed structure, as well as proposed exterior materials, textures and detailing also appear to achieve the design objectives of Appendix B – *Design Guidelines and Standards*, Minturn Municipal Code.

Parking is adequate, with seven off-street spaces, with one unit having two spaces in the garage and two at surface level in front of the garage, and the other unit has one provided within the garage and two at surface level in front of the garage. The plans show the three levels plus a basement.

According to staff's analysis of development standards and dimensional limitations in Section III below the project appears to meet the Town's standards.

Overall, staff believes that the Applicants and their representative have provided a complete, detailed set of plans necessary to complete a thorough final plan review.

As a reminder, the Planning Commission has the option to review the proposal as a "conceptual" plan review if the Commission feels that the plans are *not* sufficient or are in need of revisions and additional review prior to final plan approval; or the Commission may take action to approve, approve with conditions, or deny the Final Plans.

Staff is **recommending approval**.

II. Summary of Process and Code Requirements:

These plans are being presented by the Applicant as "Final Plan" level of review for a duplex residential structure on two legally created lots within the Town of Minturn. This is a formal hearing providing the Applicant and staff the opportunity to discuss the proposal with the Planning Commission, acting as the Design Review Board, and to address the DRB's concerns or feedback regarding suggested revisions to the project.

If the DRB feels that the plans are complete, appropriate, and meet the intent and purposes of the Minturn Municipal Code, Chapter 16, the DRB has the option to take final action to approve the plans without conditions, or to approve with specific conditions and giving the Applicant and staff clear direction on any recommended revisions, additions or updates to the plans.
No variances are required or requested at this time.

Design Review Process
Appendix 'B' of the Minturn Municipal Code, Section 16-21-615 - *Design Review Applications*, subsection "d" below outlines the criteria and findings necessary for DRB review and approval of all new, major development proposals:

(d) Administrative procedure.

(1) Upon receipt of a completed and proper application, the application for Design Review will be scheduled for a public hearing. The hearing will be conducted in accordance with the procedures set forth in this Chapter.

(2) Criteria and findings. Before acting on a Design Review application, the Planning Commission, acting as the Design Review Board (DRB), shall consider the following factors with respect to the proposal:

a. The proposal's adherence to the Town's zoning regulations.
b. The proposal's adherence to the applicable goals and objectives of the Community Plan.
c. The proposal's adherence to the Design Standards.

(3) Necessary findings. The Design Review Board shall make the following findings before approving a Design Review application:

a. That the proposal is in conformance with the Town zoning regulations.
b. That the proposal helps achieve the goals and objectives of the Community Plan.
c. That the proposal complies with the Design Standards.

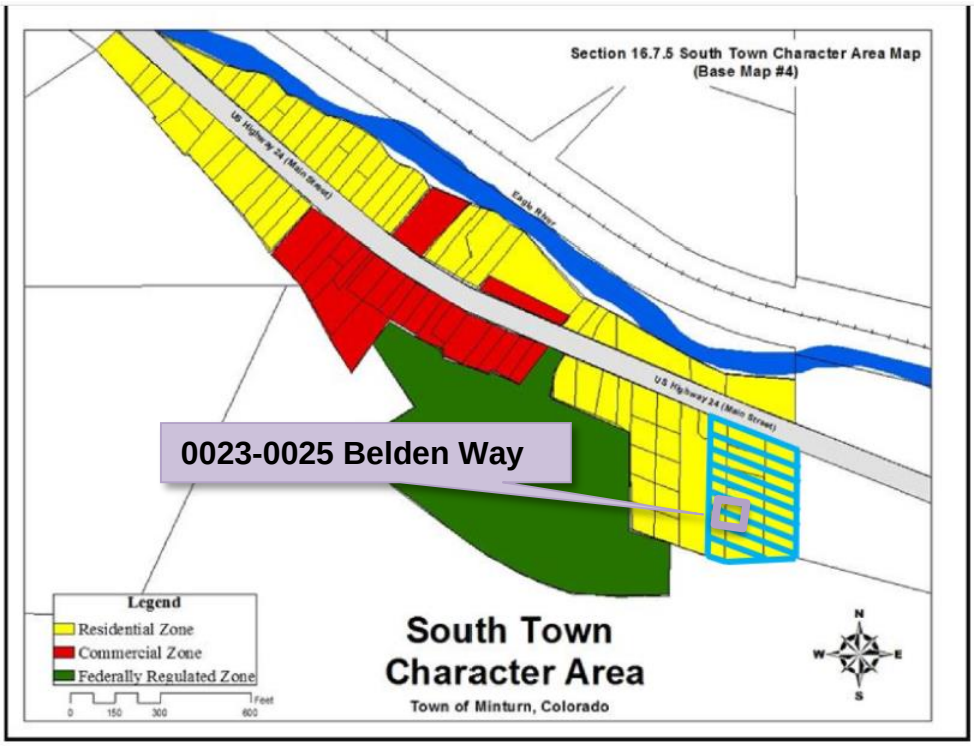
Staff suggests that the final plans for 0023-0025 Belden Way meet the required findings 'a,' 'b,' and 'c' or subparagraph 3 – *Necessary findings*.

III. <u>Zoning Analysis</u>:

Zoning

The subject property is located within the "South Town Character Area" Belden Place PUD Zone District

Figure 1: Game Creek Character Area Zoning Map



- PUD Overlay Zoning

Dimensional Limitations and Development Standards

The following table summarizes the lot, development and dimensional standards and limitations applicable to the subject property pursuant the approved Final Development Plan for the Belden Place PUD.

Regulation	Allowed/Required	Proposed/Existing
Minimum Lot Area:	3,760 sq. ft.	3,760 sq. ft. (.086 ac.)
Maximum Building Height:	28 feet	27 feet – 9 13/16 inches
Minimum Front Setback:	6 feet	6+ feet
Minimum Side Setback:	5 feet	5 feet
Minimum Rear Setback:	5 feet	5 feet
Maximum Lot Coverage:	65% (2,444 sq. ft.)	1,994 sq. ft. (53.03%) Proposed
Maximum Impervious Coverage:	65% (2,444 sq. ft.)	2,227 sq. ft. (59.23%) Proposed

Minimum Snow Storage Area:	5% of Lot Area (3,760 sq. ft. x .05 = 188 sq. ft.)	189 sq. ft.
Parking:	7 spaces	7 spaces

IV. Applicable Standards and Design Guideline Criteria:

Design
In addition to the development standards listed above, the following general design principles are provided for reference.

Final Site, Grading and Drainage Design
The Minturn Design Guidelines encourage designs that integrate or account for site topography and existing conditions, surrounding conditions, solar orientation, placement on lots relative to streets and natural features, snow storage and snow shed from roof structures.

Mass and Form
The following excerpt from the Design Guidelines is applicable to the proposed home design:

"c. Massing and Scale

> *"**A simple central form with additive features shall be designed. This style creates visual interest and is appropriate for the community due to its compatibility with existing structures. Buildings and improvements should complement, rather than overpower, the adjacent natural and built environment.** Homes are encouraged to be sheltering in nature, with consistent setbacks from the street with prominent porches or overhanging eaves.*
>
> *"Building mass, form, length and height shall be designed to provide variety and visual interest while maintaining a scale that is similar or compatible to adjacent structures."*
>
> *-Town of Minturn Design Guidelines*

Staff Response:
Staff believes that the design and scale of the proposed structure incorporates a simple central form with additive features and is complementary to adjacent residential structures and character on nearby parcels. Staff further suggests that the scale of the project is appropriate and will not overpower surrounding natural and built environments. Proposed roof forms and pitches, materials and textures are compatible and complementary to the surrounding built and natural environments.

V. Items of Note:

Items of Note
Staff has identified no items of note.

VI. Staff Recommendation:

Staff suggests that the Final Plans for 0023-0025 Belden Way generally **comply** with or exceed the applicable provisions and/or minimum standards of Chapter 16 and the Town of Minturn Design Standards (Appendix 'B') of the Minturn Town Code.

Staff is **recommending approval** of the plans.

Inter-Mountain ENGINEERING
Civil Engineers & Surveyors

October 17, 2024

Madison Harris
Town of Minturn Planner
PO Box 309
Minturn, CO 81645

Re: 0023 and 0025 Belden Way
Lots 10 and 11, Belden Place PUD
DRB revised submittal Review
Project No. 24-0001

Dear Madison:

We reviewed the plans entitled *"Belden Place; Lot 10 – 0025 Beldan (sp) Way; Lot11 – 0023 Beldan (sp) Way, Minturn Colorado"* prepared September 20, 2024, by TAB Associates (Plans) included in the revised DRB application for Lots 10 and 11, Minturn North PUD. Our review was for compliance with the engineering requirements of Section 16-21-615: Design Review applications of the Minturn Municipal Code (MMC).

MMC Section 16-21-615 Section C:

Section (C) (2) Boundary Survey:
Paragraphs a through e:
Sheet 3 of 5 of the *"Final Plat: Belden Place PUD"* prepared by Slagel Survey Services has been included in the submittal. Sheet 3 of 5 includes a note incorporating the complete *"Final Plat, Beden Place PUD"* by reference as part of the Application. The Plat and associated title commitment were reviewed by the Town and fulfill the requirements as the Boundary Survey for this application.

Paragraphs f through l:
Sheets C.110 and C.111 of the *"Belden Place PUD – Final Plan Submittal*" prepared by Timberline Engineering have been included in the application. A note is included on Sheet C.111 incorporating the complete *"Belden Place PUD – Final Plan Submittal"* by reference a part of the Application. These plans are the basis of the design and fulfil the requirements of paragraph f through i.

Madison Harris
Re: 0023 and 0025 Belden Way
Lots 10 and 11, Belden Place PUD
DRB Resubmittal Review
Project No. 24-0001

Section (C) (3) Site Plan:
Sheets C.1 and C.2 of the Plans "*Belden Place – Units 8-9 Duplex "* revised October 14, 2024, by Timberline Engineering presents the proposed site plan. These plans fulfil the Site Plan requirements of the MMC:

a. ~~Please add a note to the construction plans requiring copper water service lines extending from the curb stop into the building.~~ ***Resolved****. The revised plan notes Type K copper service lines are required.*
b. Sheet A3.1 provides Building height information for Planning Staff review.

Section (C) (4) Grading & Drainage Plan:
Sheets C.1 and C.2 of the Plans "*Belden Place – Units 10-11 Duplex "* prepared September 7, 2024, by Timberline Engineering presents the proposed site grading. site grading. These plans fulfil the Grading and Drainage Plan requirements of the MMC.

Review by Inter-Mountain Engineering is for general conformance with Minturn Municipal Code requirements and is not a peer review. Review by Inter-Mountain Engineering in no way relieves any responsibilities of design professionals associated with the project.
Please feel free to contact us if you have additional questions.

Respectfully,
Inter-Mountain Engineering (Town Engineer)

Jeffery M. Spanel PE

CC: Scot Hunn, Arnold Martinez

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner@minturn.org

Project Name:

Belden Place - Duplex Lots 10 AND 11

Project Location

Street Address: 0025 and 0023 Beldan Way

Zoning: PUD

Parcel Number(s): L10-210335113011

L11-210335113012

Application Request:

Design review for a duplex homes.

Applicant:

Name: Greg Macik, TAB Associates, Inc.

Mailing Address: 56 Edwards Village Blvd, Suite 210, Edwards, CO 81632

Phone: 970-766-1470 x107

Email: greg@tabassociates.com

Property Owner:

Name: Alison Perry, Miners Base Camp LLC

Mailing Address: PO Box 1134 Minturn, CO 81645

Phone: 970-306-2264

Email: perry@vailland.com

Required Information:

Lot Size: 3760 sf	Type of Residence (Single Family, ADU, Duplex) Duplex	# of Bedrooms 9	# On-site Parking Spaces 7
# of Stories: 3 + Basement	Snow storage sq ft: 189	Building Footprint sq ft: 1994	Total sq ft Impervious Surface: 2227

Signature:

Greg Macik

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

DESIGN REVIEW APPLICATION

SUBMITTAL CHECKLIST REQUIREMENTS
(TO BE INCLUDED WITH APPLICATION)

Applicant	Staff	
☐	☐	**Application Fee** (Non-Refundable application fee shall be collected) • Design Review Board - $200.00
☐	☐	**Letter of Intent** -- What is the purpose of the project including; • Relevant Background • Current Status of the Site • All Proposed Uses and Structures • How the Proposal Differs from what already exists • Information regarding Easements or Dedicated Tracts, etc.
☐	☐	**Vicinity Map** -- Directional Map indicating how to get to the Property involved in the request. • Zoning of Property
☐	☐	**Improvement Location Certificate of Survey (ILC or ILS)**

☐	☐	**Site Plan showing Precise Nature of the Proposed Use – To Scale**
		•
		• Scaled Drawings of Proposed Design of Structure
		  ○ Plan View and Sections
		• Building Heights – all 4 directions N/S/E/W
		• topography
		• Building Location
		• Setbacks
		• River or Creek Setbacks
		• Parking Plan
		• Traffic Circulation
		  ○ Location and Width of Existing and Proposed Access Points
		  ○ Location of Existing Driveways and Intersections
		• Landscaped Area – Plan
		• Approximate Location of Existing Wooded Areas and Rock Outcrops
		• Location and Type of Existing and Proposed Easements
		• Utility Easements
		• Drainage Features

☐	☐	**Preliminary Building Plans and Elevations** • Indicates Dimensions • General Appearance • Scale • Interior Plan for the Buildings

☐ ☐ **Elements needed on the Site Plan**

- Scale
- North Arrow
- Date Prepared
- Lot Dimensions, Area, Entire Site Acreage

☐ ☐ **Architecture Details – Materials Board**

- Windows – Placement and Color
- Doors – Placement and Color
- Siding – Type and Color
- Roof Material – Type and Color
- Paint Color

PLANNING COMMISSION
DESIGN REVIEW PROCESS

Applicants requesting a Design Review Board, Planning and Zoning Commission, and/or Town Council Review must submit to a pre-submittal conference and complete a formal application. The pre-submittal review process is completed within a period of 14 working days depending on the day of pre-submittal. The pre-submittal review provides valuable information regarding Town requirements for the formal application.

The Town Planner shall have the following powers and duties:

- **Zoning Compliance** – To review, consider, and approve, approve with conditions, or deny applications for building permits, limited use permits, conditional use permits, and temporary use permits based on compliance with this Section.
- **Process Applications** – To receive applications for development permits for processing pursuant to the terms of Section 16 of the Minturn Municipal Code.

Planning Commission as Design Review Board

Powers and Duties
The Planning Commission is hereby established as the Town of Minturn Design Review Board. The Design Review Board shall have the following powers and duties under the provisions of this Code.

1. To prepare, or cause to be prepared or amended, the Design Review Standards and Guidelines or any element or portion thereof, for adoption by the Town Council.

2. To hear, review, consider and approve, approve with conditions, or disapprove applications for Design Review Approval.

3. To hear and decide upon appeals on design review decisions made by the Zoning Administrator.

Board Procedure
The Town staff will forward applications (other than minor design applications), and recommendations, to the DRB.

The DRB shall review the application and supporting material submitted by the applicant, as well as the staff recommendation. After review, the DRB, through a formal motion, seconded and passed by a majority of the members present, shall take one of the following courses of action:

1. **Table the application**. The application may be tabled for a period not to exceed thirty (30) days if the application is incomplete or if the DRB determines that changes are required to bring the application into compliance with design standards and guidelines or other regulations of the Town. The Board may specify additional requirements for the applicant is to bring to the future meeting. These requirements may include additional information necessary to determine whether the application complies with all zoning, building, design codes adopted by the Town, and may include plans, reports, surveys or other documents completed by registered architects, surveyors, engineers or other professionals in order to indicate conformance with such codes. The DRB may also table the application if it determines that changes in the application are required which would bring the proposed project into compliance with zoning, building, design codes, and other regulations of the Town.

2. **Conceptual/Preliminary approval.** The DRB may grant conceptual approval to applicants who in a general fashion appear to meet design and other regulations of the Town but submit applications inadequate to warrant final approval. Conceptual approvals are also appropriate where a complete application has not been submitted, or where an applicant wishes to obtain a preliminary review of a sketch plan. A conceptual approval does not deem final approval of an application, nor does it deem that an application conforms to design or other regulations, nor shall it bind the DRB to grant final approval to a completed or final application.

3. **Disapproval of application.** If an application is found to conflict with the purposes and/or any one (1) or more of the design guidelines, codes or any other regulations of the Town, the DRB shall disapprove the application. Any disapproval shall be in writing and shall specifically describe the reasons upon which the disapproval is based.

4. **Approval of application.** If the application is complete and is found to comply with the design standards codes and other regulations of the Town, the DRB shall approve the project. The DRB shall keep a record of all such approvals, and the applicant should keep a copy of the approval. The DRB may approve an application with conditions or modifications. The DRB shall not approve an application that does not meet the requirements of the Town or any other provision required to ensure compliance with the design standards and guidelines, codes and other regulations of the Town.

If a motion for approval, for conceptual approval, or to table an application results in a tie vote, the motion will fail.

DESIGN REVIEW CRITERIA

1. SITE DESIGN

Site planning involves the design and location of buildings and other improvements on a property. General principles include the maximization of site attributes such as views and solar orientation while minimizing adverse impacts to adjacent properties and natural features. Design of the building(s) shall consider the following criteria:

a. Natural Features

(1) Topography

A building site that is flat or gently sloping at less than 10% shall comply with applicable minimum standards for setbacks as defined in Chapter 16.

A building site that slopes at greater than 10% is urged to consider “stepping” the structure rather than grading the site to allow for traditional building layout. The intent is to avoid large cuts and/or fills as well as retaining walls, and to avoid the need for additional erosion control measures.

Setbacks may be increased for lots that slope greater than 30%.

(2) Water Bodies

Setbacks from water bodies shall include consideration of the Eagle River, tributary creeks, ponds, and wetlands. In addition to the regulatory setbacks, the Town of Minturn encourages conformance with the Eagle River Watershed Plan and sensitive design to protect the riparian areas and to utilize the water bodies for passive recreational purposes. The Town discourages “turning your back” on the Eagle River, one of Minturn’s greatest assets.

Site grading and drainage plans shall be submitted with design review applications that are adjacent to or within fifty (50) feet of a water body.

b. Orientation

The orientation of improvements shall consider adjacent properties as well as snow storage, snow shedding, and solar orientation. Another important component of orientation is drainage impact to adjacent properties, water bodies and streets.

Snow Storage, Snow Shedding and Solar Orientation

The atmospheric and weather-related elements common of the Town of Minturn justify the added dimension of sitting improvements to minimize the impact of the environment.

Adequate snow storage area(s) or provisions for removal shall be provided. The total area may be broken up or provided as a whole. Location within the required setbacks shall be permitted provided it does not impede adequate and safe access to the structure(s). Landscape areas may also be used for snow storage purposes.

Snow shedding shall be considered in the use of material and pitch of the roof, as well as the location of windows, door and walkways. In no case shall snow shedding be permitted to occur onto an adjacent property.

Solar orientation shall be considered in the siting of the structures as well as in the landscaping of the lot or parcel. Orientation of the structure, as well as placement of trees, can be utilized to block prevailing winds in the winter and to provide shade in the summer. The structure should be placed on the lot in a manner that will not cast substan

shadows over adjacent properties. Walkway and driveway location shall consider snowmelt in de location. These considerations include locating driveways, walkways, and structures, so that they are sheltered from the wind, and oriented to the east or south, where possible, to aid quicker snow and ice melt.

The front of the structure and its primary entrance shall be oriented to the street.

c. Massing and Scale

A simple central form with additive features shall be designed. This style creates visual interest and is appropriate for the community due to its compatibility with existing structures.
Buildings and improvements should complement, rather than overpower, the adjacent natural and built environment. Homes are encouraged to be sheltering in nature, with consistent setbacks from the street with prominent porches or overhanging eaves.

Building mass, form, length and height shall be designed to provide variety and visual interest while maintaining a scale that is similar or compatible to adjacent structures.

2. ARCHITECTURAL ELEMENTS

a. Roof Pitch and Form

Roofs are a very prominent visual element and can be used to provide strong unifying characteristics between buildings. The use of consistent roof form, materials, slope and direction can create a cohesive appearance to a neighborhood even when the architectural styles vary. Roof pitch and form are an important element of building design in the Town.

The incorporation of dormers into the roof form can be utilized to provide individual identity and to create and delineate upper living areas or lofts. Dormer roofs shall be similar in slope and material with the primary roof form. See Illustration.

Roofs shall be designed with consideration to snow accumulation and shedding. Entryways, garages and pedestrian areas shall be protected from potential snow shedding.

Chimneys may also be utilized as a unifying element. The size, location, and shape of chimney can be mimicked to provide a common feature in adjacent structures that have different architectural styles.

b. Facade

Vast expanses of a blank facade are not considered appropriate in Minturn due the mass and scale of the existing buildings in the Town. Therefore, facades must be interrupted every 15' at minimum. This interruption can occur through the use of projections and recessions for doors and windows, balconies or porches or any other element that creates visual interest. The use of architectural elements such as horizontal and vertical architectural details and floor articulation (delineation of ‘floors’ in a building) can be utilized to create a vertical human scale to the structure.

Windows and doors offer the opportunity to provide individual character and refinement of scale by introducing openings and patterns on otherwise blank walls. Consideration should be given to locating doors and windows in order to establish symmetry on primary facades, while being responsive to interior functions and views. The location of windows and doors can also be utilized as a unifying element with adjacent structures.

In order to maintain a smaller scale and to avoid the use of vast expanses of large windows, window openings should be composed of multiple panes of glass that are consistent with the scale of the building. Mirrored or reflective glass is prohibited.

Shutters and window boxes are encouraged to create visual interest and to reinforce the Town ambiance.

c. Building Details

The requirement for a simple building form allows for the introduction of building details to create character and interest. These details may include elements such as accents to doors and windows, porches, gates, dormers and chimneys.

3. MATERIALS AND SCREENING

a. Materials

The use of building materials is essential to the design and appearance of a structure, therefore the use of materials is indicative of the adjacent community character. Materials shall be consistent with adjacent properties and the natural environment. The Town of Minturn does not seek to limit or prohibit the use of specific building materials

however the use of non-reflective materials are strongly encouraged. Highly reflective roofing m allowed.

The historic character of Minturn is exhibited in the use of wood siding and native stone, therefore the use of these particular materials are encouraged. Many modern equivalents can be found which mimic the natural materials, and the Design Review Board may approve such materials if their appearance is found to be compatible with adjacent material and consistent with the intent of these standards and guidelines.

b. Streetscape and Landscape Design

Small towns evoke many images, but one that appears to be consistent with many residents is the neighborliness of the area. Porches, plaza, parks and simply strolling down the street allow neighbors and visitors to meet and greet each other and to get to know one another. The Town encourages the man-made elements that promote these activities, and in some instances the Design Review Board shall require the provision of streetscape improvements to encourage and reinforce the small town atmosphere.

Porches and awnings are encouraged for all residential design as these elements create and encourage a human scale that is consistent with the small town image. Commercial structures, particularly those that are located in renovated residential units, shall maintain these elements and incorporate the use of pedestrian walkways, street furniture such as benches and trashcans where possible. Commercial developments that exceed 2500 square feet of gross leasable area shall be required to provide a plaza area that incorporates these elements.

Landscape standards are defined in Section 16.17.14, 15 and 16 and shall be reviewed with all applications for design review. Compliance with the minimum standards defined within those sections shall be required. The Design Review Board shall review the list of plant material to be utilized, particularly for determination of irrigation requirements. Exhibit B lists plant materials that are suitable for use in the Town, drought-resistant and therefore their use is encouraged. Other plant materials listed that require substantial water and therefore the Design Review Board may require the provision of an irrigation system and the provision of collateral to assure its completion.

c. Screening

Both residential and commercial areas within the Town shall be required to screen certain visually obtrusive areas, including, but not limited to, refuse storage, general storage, loading areas, mechanical equipment and parking areas.

The screening may occur with landscaping, compliant with Section 16.17.14. 15 and 16, or these uses may be screened with fencing or by containing the uses within a structure or parapet walls. Fences shall not exceed 3-feet in height for opaque fences and 4 feet in height for fences with you can see through. Higher fences may be used to screen the sides and rear of the lot but should not exceed 6 feet in height. In no case shall a fence or screening structure obstruct a driver's view of an intersection.

Additional information regarding the Design Review processes and guidelines including the Character Areas can be found in Chapter 16, Appendix B of the Minturn Town Code.

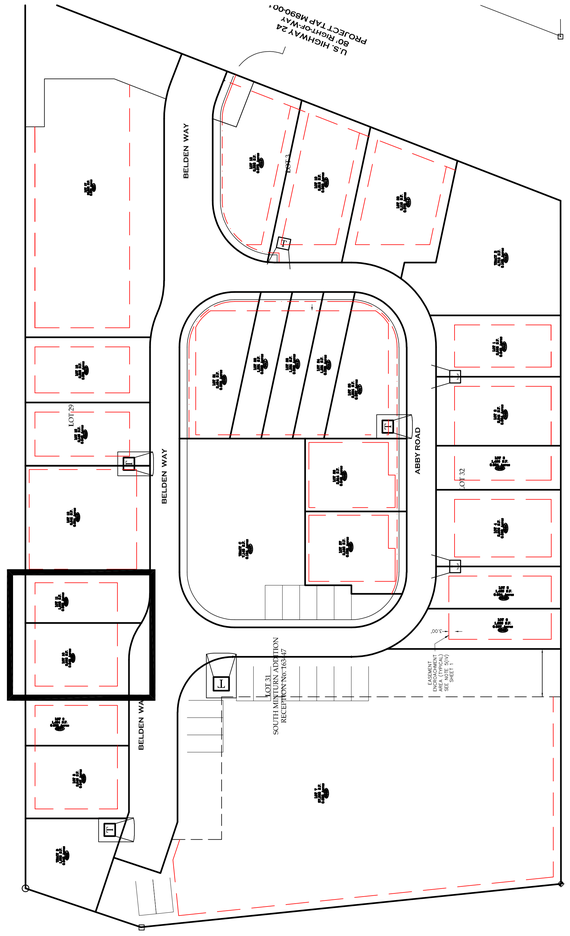
Belden Place

Lot 10 - 0025 Beldan Way

Lot 11 - 0023 Beldan Way

Duplex Residences

Minturn, Colorado 81645



Design Review Submittal

09/20/2024

A0.00	COVER SHEET
A0.02	PUD GUIDE INFORMATION
	FINAL PLAT
C1.110	SURVEY
C1.111	OVERALL DEVELOPMENT SITE PLAN
C.1	SITE PLAN & UTILITY PLAN
C.2	GRADING, DRAINAGE & EROSION CONTROL PLANS
C.2	DETAILS AND CROSS SECTION
A1.1	LANDSCAPE PLAN AND DETAILS
A2.1	GROUND AND BASEMENT FLOOR PLANS
A2.2	MAIN AND UPPER FLOOR PLANS
A2.3	ROOF PLAN
A3.1	EXTERIOR ELEVATIONS
A3.2	MATERIALS
A3.3	RENDERINGS
A4.1	SECTIONS
A5.1	DETAILS
A5.2	DETAILS
A5.3	DETAILS

Vicinity Map

TAB Associates

The Architectural Balance

0056 Edwards Village Blvd.
Edwards, CO 81632

(970) 766-1470

fax: (970) 765-1471
email: tab@vail.net
www.tabassociates.com

Civil Engineer:
Timberline Engineering
(970) 963 9889

Structural Engineer:
KRM Consultants, Inc.
(970) 949-9391

Seal

Belden Place - Duplex Units
Lots 10/ 0025 Beldan Way & 11 / 0023 Beldan Way
Minturn, Colorado 81645

Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

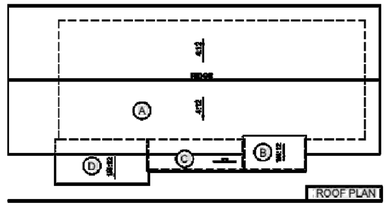
Sheet Title:
Cover

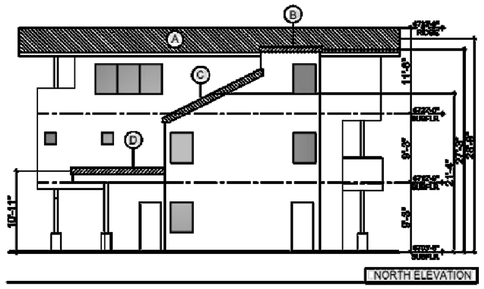
Project No:
2215

Sheet No:
A0.00

BELDEN PLACE PUD GUIDE INFORMATION
The following is an abrieviated verision of information found in the PUD guide.

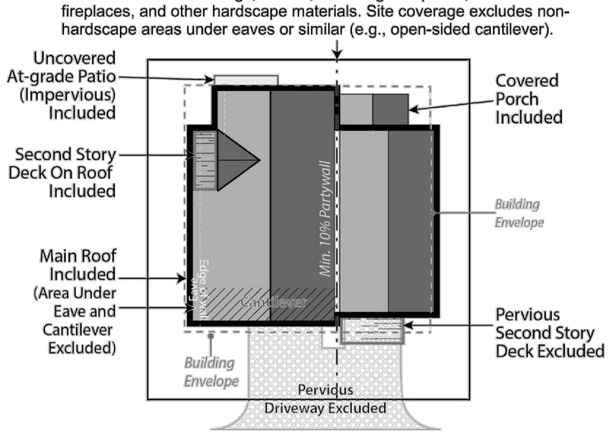
Building Height. Determining building height uses a weighted height calculation as measured from final/finished grade. Max heights - 28' for single famil and duplex, 35' for Row Houses and Flats.





ROOF MARK	ROOF AREA SQ. FEET	ROOF AREA %	AVG HEIGHT	WEIGHTED AVG.
A	224	36.1	28'-9"	2,435.35'
B	40	3.6	27'-9"	99.55'
C	68	6.3	27'-6"	172.35'
D	76	6.8	10'-11"	72.07'
TOTAL:	1,108	100.0	=	2,665.17' 2,665.17' / 100 = 26'-11" AVG ROOF HT

Site Coverage. Site coverage means the portion of a lot covered by materials forming any unbroken surface, impervious to water including, but not limited to: buildings, streets, slab on-grade patios, exterior fireplaces, and other hardscape materials. Site coverage excludes non-hardscape areas under eaves or similar (e.g., open-sided cantilever).



BUILDING PLACEMENT AND ENVELOPES
Residential building envelopes are necessary in order to maximize the buildability and economic viability of the lots while offering greenspace and or space between neighbors to the greatest extent possible. All portions of structure- including fireplaces, chimneys, window wells, eaves, overhangs, etc. must be contained within property lines; however, with the platted building envelope acting as building setbacks for each lot, encroachments are available for certain features.

The following encroachments are permitted beyond the platted building envelope:

Unenclosed or uncovered decks; deck supports; eaves up to 18" beyond the envelope; porches, patios and landings less than 30" above the surrounding natural or finished grade; window or light wells; heat or A/C units; residential solar alternative energy installations; fences; counterforts below grade; staircases (enclosed or otherwise); structures of less than 6" in height; landscaping and drainage features. No encroachment may be located within 24" from the property line or directly on top of in-ground utility easements. Underground parking elements and staircases may encroach within 12" of the most southern property line on Lot 7.

1. SINGLE-FAMILY DETACHED

a. Style
(1) Residences with the same architectural elevations and coloring shall not be placed adjacent to each other or directly across the street from one another.
(2) Each residential unit type shall have at least two (2) elevations to provide stylistic diversity. This may include:
i. Roof forms/lines and profiles
ii. Varied window and door styles
iii. Varied entry treatments and locations including porches, columns, etc.
iv. Two or three story homes
v. Second or third story decks or balconies

b. Building Form
(1) The mass of the residence should strongly reflect the architectural style and be scaled to provide visual interest and depth, reduce boxiness and achieve an articulated form on the front and sides of the homes.
(2) Roofs shall be designed and pitched accordingly in consideration of solar technology and/or drainage.
(3) Roof-top decks are permitted only on certain lots as established by developer and cannot be added on buildings not constructed with this initial feature.

2. DUPLEX/TRI-PLEX or MULTIFAMILY STRUCTURES

a. Style
(1) Structures shall have at least two (2) elevations to provide stylistic diversity.
(2) Units may be multi-stories.
(3) Units may be divided horizontally (townhomes) or vertically (flats).
(4) Second story decks or balconies permitted.
(5) Units have no minimum length of connection and may be joined via shared walls of the garage, external staircases, or main living area wall(s) or floors.

b. Building Form
(1) The mass of the residence should strongly reflect the architectural style and be scaled to provide visual interest and depth, reduce boxiness and achieve an articulated form on the front of the homes.
(2) Roofs shall be designed and pitched accordingly in consideration of solar technology and/or drainage.
(3) Roof-top decks are permitted only on certain lots as established by developer and cannot be added on buildings not constructed with this initial feature.

3. MATERIALS

a. Roofing materials are limited to the following:
(1) Artificial wood shingle (to mimic wood shake shingle). Treated wood shake shingles or any other combustible material is prohibited.
(2) Standing seam metal.
(3) Asphalt shingles.
(4) Imitation (composite or similar); or, real slate tiles.
(5) Non-reflective solar tiles that mimic the above-mentioned products
(6) Any other recommended FireWise materials similar to the above-mentioned products.

b. Siding materials are limited to the following:
(1) Metal
(2) Wood
(3) Composite siding
(4) Fiber cement board (commonly known as "Hardie Board")
(5) Stucco.
(6) Any other recommended FireWise materials similar to the above-mentioned products.
(7) All siding materials to have non-reflective finishes.

c. Doors and Windows:
(1) Structures with multiple garage doors must always have identical, matching doors.
(2) All replacement windows shall be consistent and match the aesthetic of previous windows unless otherwise approved by the design review board. Skylight or solar tubes permitted.
(3) Screen or storm doors, in addition to typical front doors are permitted. Screen or storm doors cannot replace front doors at any time.

d. Design Elements. This development may incorporate mountain appropriate design elements into the buildings, including, but not limited to, exposed heavy timber beams as accent elements or entry features, walls faced with wood, stone, faux stone or cultured stone, metal railings or accents. Stucco may only be utilized in small quantities on building facades and is not to be used as a primary material for home.

e. Building materials for residential exteriors shall include at least two (2) types of materials as part of the building façade.

I. LANDSCAPING – *See also PUD Landscaping Plan*
Shall not interfere with any drainage way, utility, pedestrian access, or entry into any structure. Landscaping shall not obscure windows, be installed under gas fireplace or dryer vents, nor shall any landscaping material overtake any yard, or spread into any common or neighboring yards.

Landscaping minimums:
1. At least one (1) tree per 1,200 sf of lot area and two (2) shrubs for all lots. *See also official Landscaping Plan for Belden Place.*
2. All landscaping proposed on the approved Landscaping Plan shall be installed initially with expectations for maintenance.
3. No exposed soil is permitted. Soil must be covered in groundcover that may consist of seed (includes wildflower seed), cobble, perennials, mulch, or similar.
4. All dead materials must be replaced during the same season death occurs.

TAB Associates
The Architectural Balance
0056 Edwards Village Blvd.
Edwards, CO 81632
(970) 766-1470
fax: (970) 766-1471
email: tab@vail.net
www.tabassociates.com
Civil Engineer:
Timberline Engineering
(970) 963 9869
Structural Engineer:
KRM Consultants, Inc.
(970) 949-9391

Seal

Belden Place - Duplex Units
Lots 10/ 0025 Beldan Way & 11 / 0023 Beldan Way
Minturn, Colorado 81645

Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

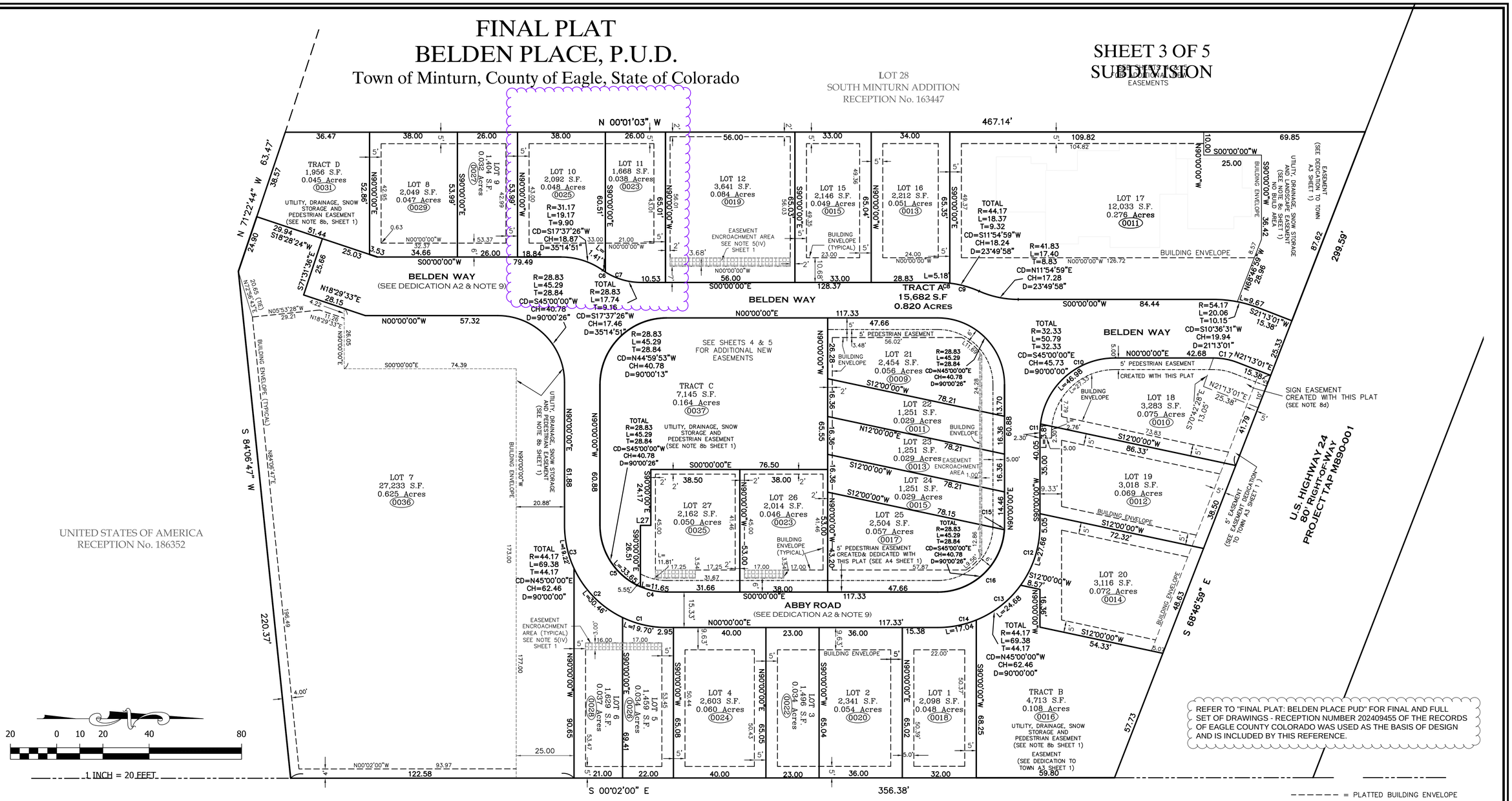
Sheet Title:
PUD Information

Project No:
2215

Sheet No:
A0.02

FINAL PLAT
BELDEN PLACE, P.U.D.
Town of Minturn, County of Eagle, State of Colorado

SHEET 3 OF 5
SUBDIVISION



REFER TO "FINAL PLAT: BELDEN PLACE PUD" FOR FINAL AND FULL SET OF DRAWINGS - RECEPTION NUMBER 202409455 OF THE RECORDS OF EAGLE COUNTY COLORADO WAS USED AS THE BASIS OF DESIGN AND IS INCLUDED BY THIS REFERENCE.

= PLATTED BUILDING ENVELOPE
= PEDESTRIAN EASEMENT
= EASEMENT ENCROACHMENT AREA SEE NOTE 5(IV)

L27 = S00°00'00"W 4.50

UNITED STATES OF AMERICA
RECEPTION No.246983

CURVE TABLE						
CURVE	LENGTH	RADIUS	Tangent	Chord	Chd Brg	Delta
C1	19.70	44.17	10.01	19.53	N12°46'33"E	25°33'06"
C2	30.46	44.17	15.86	29.86	N45°18'32"E	39°30'53"
C3	19.22	44.17	9.76	19.07	N77°31'59"E	24°56'01"
C4	11.65	28.83	5.91	11.57	N11°34'15"E	23°08'56"
C5	33.65	28.83	19.03	31.77	N56°34'28"E	66°51'30"
C6	1.41	28.83	0.71	1.41	N33°50'32"E	2°48'39"
C7	16.32	28.83	8.39	16.11	N16°13'06"E	32°26'12"
C8	5.18	44.17	2.59	5.18	S03°21'35"W	6°43'11"
C9	13.19	44.17	6.65	13.14	S15°16'34"W	17°06'47"
C10	46.98	32.33	28.73	42.95	S41°37'23"E	83°14'46"
C11	3.81	32.33	1.91	3.81	S86°37'23"E	6°45'14"
C12	27.66	44.17	14.30	27.21	N72°03'40"W	35°52'40"
C13	24.68	44.17	12.67	24.36	N38°06'40"W	32°01'20"
C14	17.04	44.17	8.63	16.93	N11°03'00"W	22°06'00"
C15	1.89	28.83	0.94	1.89	N88°07'42"W	3°45'03"
C16	43.41	28.83	27.01	39.42	N43°07'29"W	86°15'24"
C17	10.68	28.83	5.40	10.62	N10°36'31"E	21°13'28"

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

PRELIMINARY

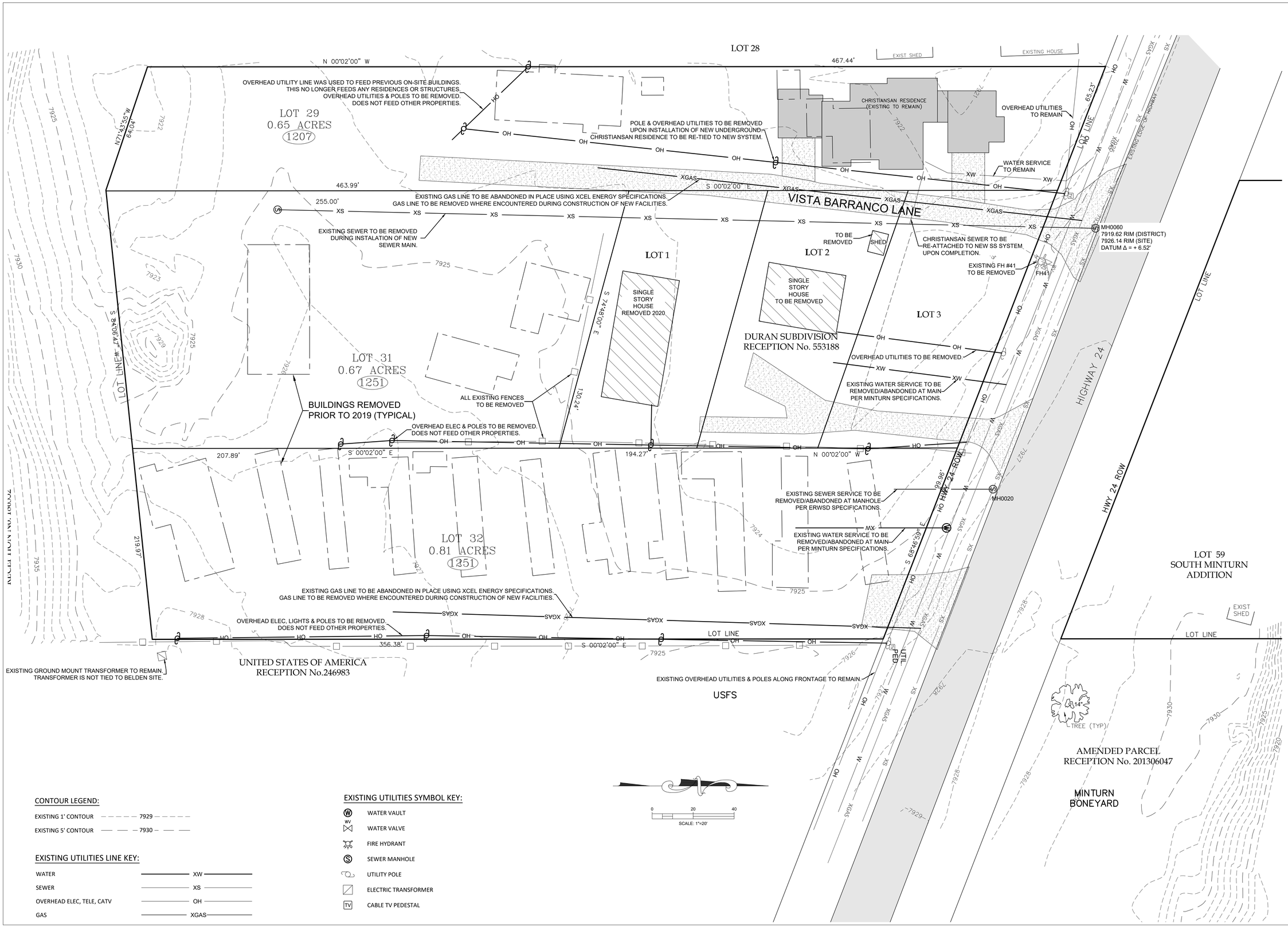
07-09-2024

Matthew S. Slagle PLS 34998
Professional Land Surveyor
State of Colorado

SLAGLE SURVEY SERVICES
800 Castle Drive - P.O. Box 751 Eagle, Colorado 81631
970.471.1499 Office matthew@slaglesurvey.com
www.SlagleSurvey.com

FINAL PLAT
BELDEN PLACE, P.U.D.
Town of Minturn, County of Eagle, State of Colorado

DRAWN BY: MSS	JOB NUMBER: 18029	DRAWING NAME: 18029_PUD-23.dwg
SHEET 3 OF 5		DATE: 11-11-2023



CONTOUR LEGEND:

EXISTING 1' CONTOUR	7929
EXISTING 5' CONTOUR	7930

EXISTING UTILITIES LINE KEY:

WATER	XW
SEWER	XS
OVERHEAD ELEC, TELE, CATV	OH
GAS	XGAS

EXISTING UTILITIES SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL

TIMBERLINE ENGINEERING LLC
CIVIL STRUCTURAL
218 E. Valley Rd. p 970.963.9869
SITE 104-PMB 177
Carbondale, Colorado 81623
timberlineengineering@gmail.com

COLORADO REGISTERED PROFESSIONAL ENGINEER DAVID JOHN ANDERSON 39276

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Belden Place - 12 Plex (Flats) Lot 7

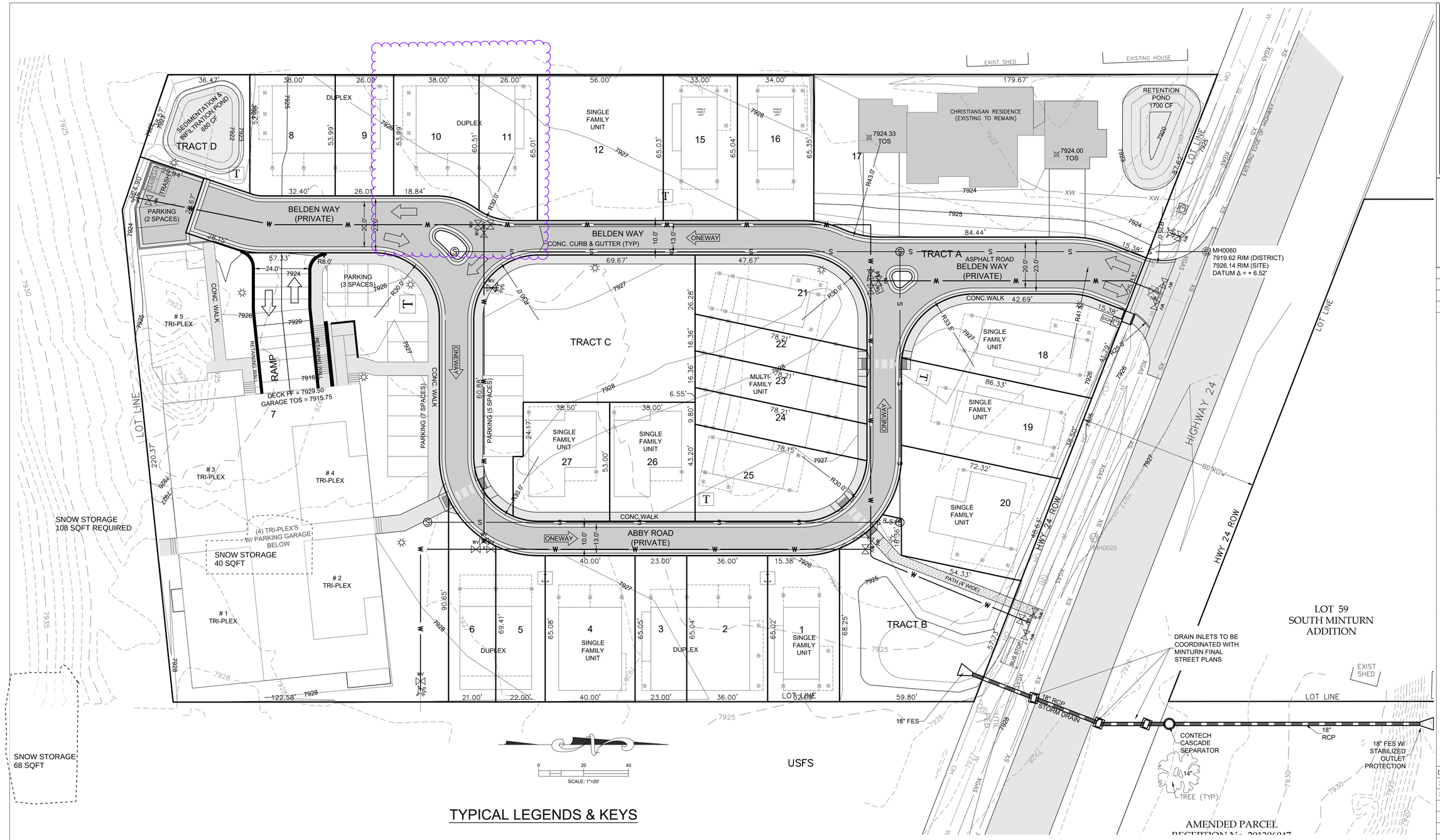
0036 Abby Road, Minturn, Colorado 81645

NOT FOR CONSTRUCTION

DATE	REVISION
2/15/22	Permit Set
7/29/24	Review comments 1

Title: EXISTING SITE & DEMOLITION PLAN

Sheet: C.110



TYPICAL LEGENDS & KEYS

AD	= AREA DRAIN
CFS	= CUBIC FEET PER SECOND
CONC	= CONCRETE
EC	= EDGE OF CONCRETE
EOA	= EDGE OF ASPHALT
EP	= EDGE OF PAVEMENT
EX	= EXISTING
FF	= FINISHED FLOOR
FG	= FINISHED GRADE
FL	= FLOW LINE
GD	= GRADE/GROUND
HP	= HIGH POINT
LP	= LOW POINT
TBC	= TOP BACK OF CURB
TD	= TRENCH DRAIN
TOS	= TOP OF SLAB
TOW	= TOP OF WALL
TYP	= TYPICAL
WH	= WALL HEIGHT
TOW	= TOP BACK OF WALK
EL	= ELEVATION
TOP	= TOP OF PIPE

CONTOUR LEGEND:

EXISTING 1' CONTOUR	7929
EXISTING 5' CONTOUR	7930
PROPOSED 1' CONTOUR	7929
PROPOSED 5' CONTOUR	7930

EXISTING UTILITIES LINE KEY:

WATER	XW
SEWER	XS
OVERHEAD ELEC, TELE, CATV	OH
GAS	XGAS

EXISTING UTILITIES SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL

PROPOSED UTILITY SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL
- ELECTRIC SPLICE VAULT
- STREET LIGHT

INDICATES DIRECTION OF TRAFFIC FLOW

LINE KEY:

WATER	W
SEWER	S

PARKING NOTES:

PARKING SPACES 9' X 18' MIN.

REFER TO "BELDEN PLACE PUD - FINAL PLAN SUBMITTAL" FOR FULL DEVELOPMENT SITE PLANE, PREPARED BY TIMBERLINE ENGINEERING DATE JULY 12, 2024, WAS USED AS THE BASIS OF DESIGN AND IS INCLUDED BY THE REFERENCE.

EARTHWORK:
5175 CYD CUT
8130 CYD FILL
2955 CYD NET <FILL>
(DOES NOT INCLUDE ONSITE HAUL-IN ±1000 CYD)

TIMBERLINE ENGINEERING LLC
CIVIL STRUCTURAL
218 E. Valley Rd. p 970.963.9869
SITE 104-PMB 177
Carbondale, Colorado 81623
timberlineengineering@gmail.com

COLORADO REGISTERED PROFESSIONAL ENGINEER DAVID JOHN MARTINEZ 39276

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Belden Place - 12 Plex (Flats)
Lot 7

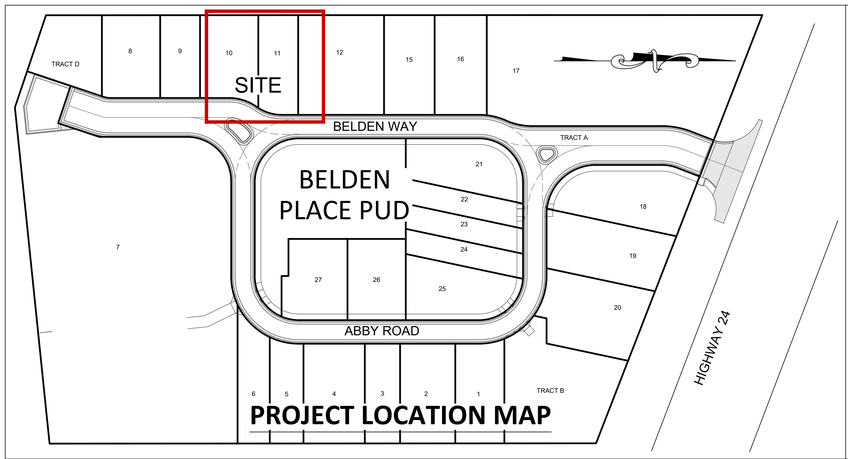
0036 Abby Road, Minturn, Colorado 81645

NOT FOR CONSTRUCTION

DATE	REVISION
2/15/22	Permit Set
7/29/24	Review comments 1

Title: PROPOSED SITE PLAN

Sheet: C.111

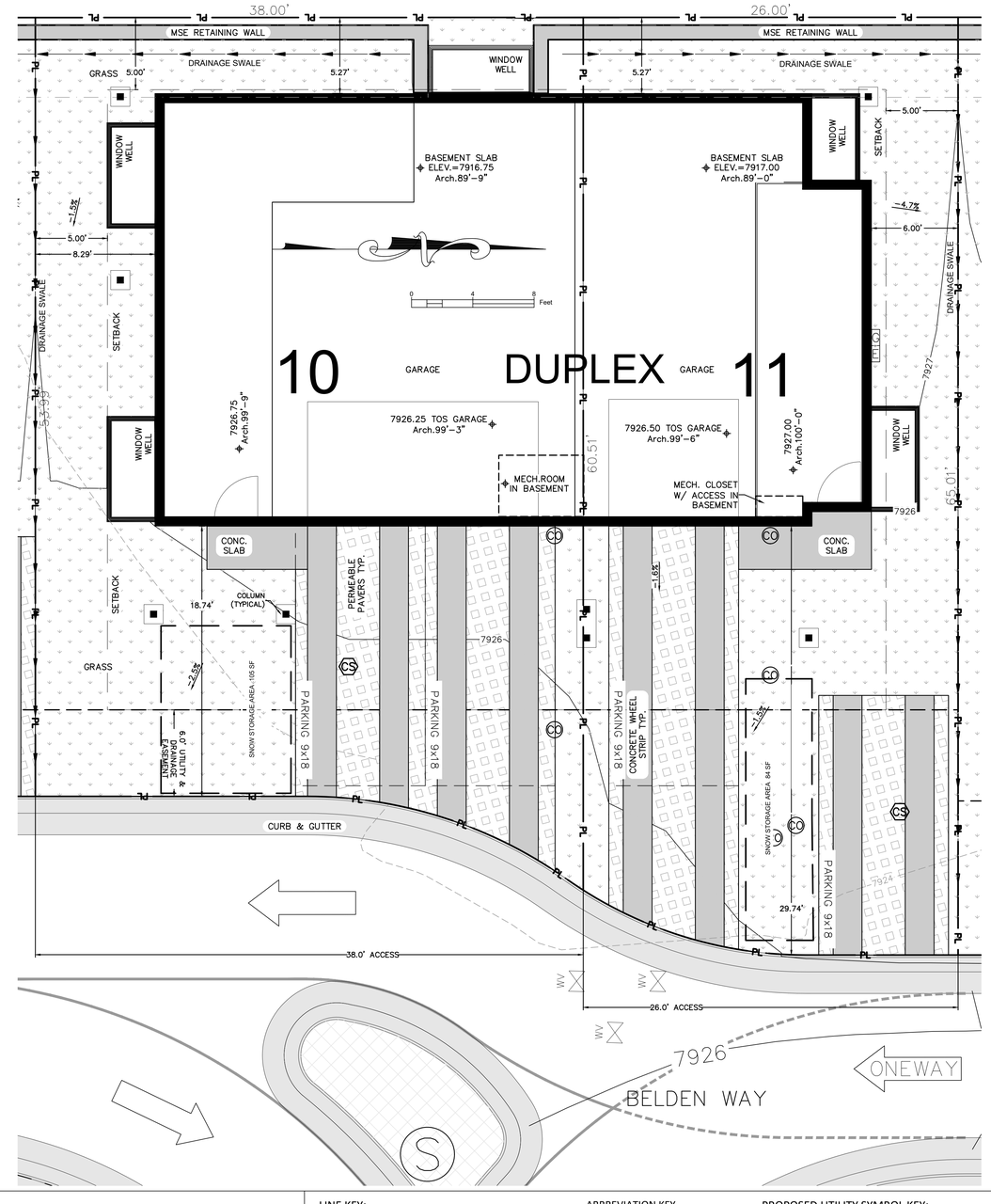


UNITS 10-11

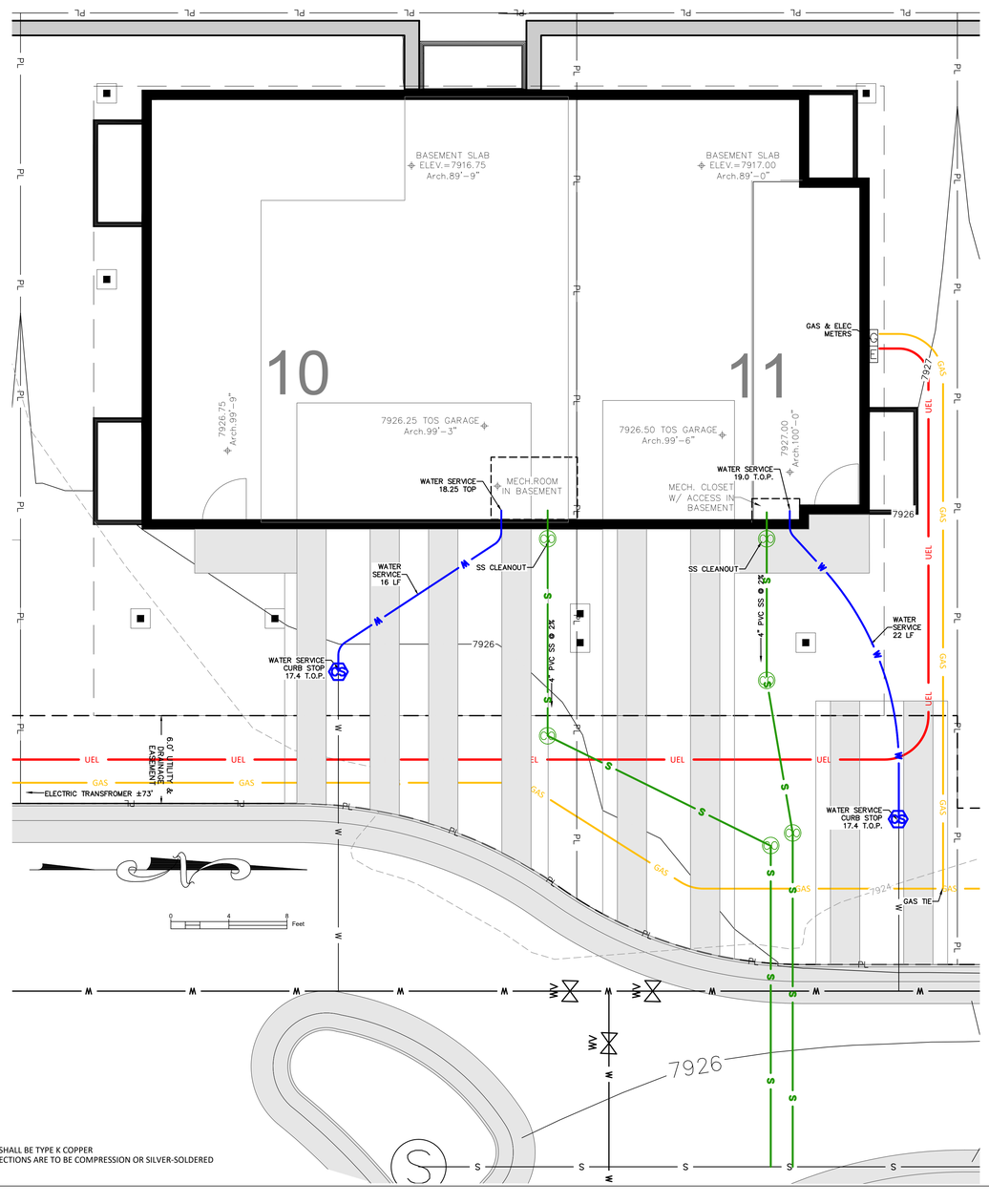
SHEET INDEX:

C.1 SITE PLAN & UTILITY PLAN
C.2 GRADING, DRAINAGE & EROSION CONTROL PLAN
C.3 DETAILS & CROSS SECTIONS

SITE PLAN



UTILITY PLAN



NOTES:
1. WATER SERVICE LINES SHALL BE TYPE K COPPER
2. WATER SERVICE CONNECTIONS ARE TO BE COMPRESSION OR SILVER-SOLDERED

LINE KEY:

WATER	W
SEWER	S
ELECTRIC	UEL
GAS	GAS
TELEPHONE	TEL
CATV	CTV
PROPERTY LINE	PL

CONTOUR LEGEND:

EXISTING 1' CONTOUR	7929
EXISTING 5' CONTOUR	7930
PROPOSED 1' CONTOUR	7929
PROPOSED 5' CONTOUR	7930

ABBREVIATION KEY

AD	= AREA DRAIN
CFS	= CUBIC FEET PER SECOND
CONC	= CONCRETE
EC	= EDGE OF CONCRETE
EOA	= EDGE OF ASPHALT
EP	= EDGE OF PAVEMENT
EX	= EXISTING
FF	= FINISHED FLOOR
FG	= FINISHED GRADE
FL	= FLOW LINE
GD	= GRADE/GROUND
HP	= HIGH POINT
LP	= LOW POINT
TBC	= TOP BACK OF CURB
TD	= TRENCH DRAIN
TOS	= TOP OF SLAB
TOW	= TOP OF WALL
TYP	= TYPICAL
WH	= WALL HEIGHT
TOW	= TOP BACK OF WALK
EL	= ELEVATION
TOP	= TOP OF PIPE
WV	= WATER VALVE
WW	= WINDOW WELL

PROPOSED UTILITY SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL
- ELECTRIC SPLICE VAULT
- WATER SERVICE CURB STOP
- SANITARY SEWER CLEANOUT
- STREET LIGHT

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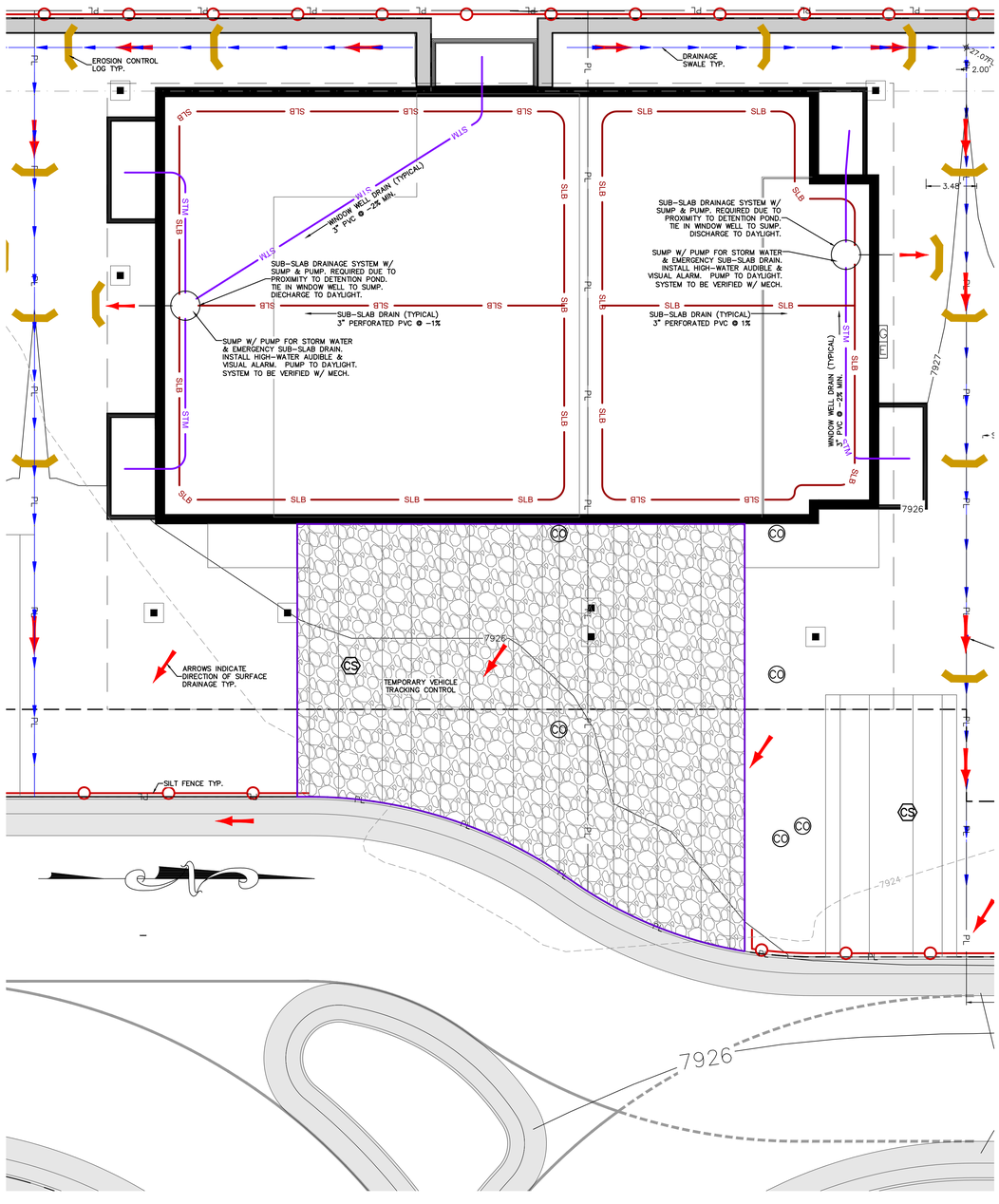
1/9/24	DRB Coordination
8/25/24	DRB Coordination
9/7/24	DRB Coordination
10/14/24	DRB updates

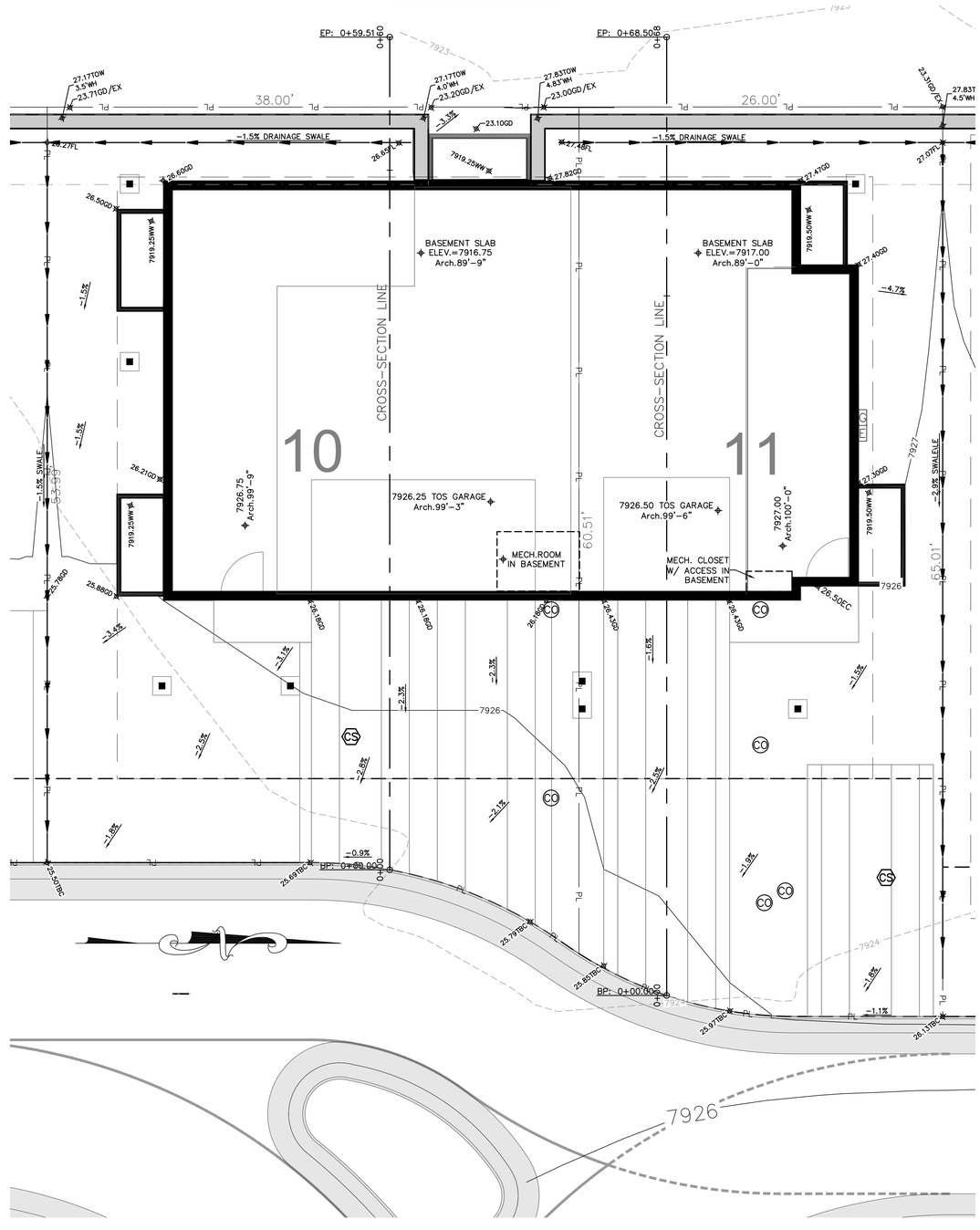
Title: SITE PLAN & UTILITY PLAN

Sheet: C.1

DRAINAGE & EROSION CONTROL PLAN



GRADING PLAN



LINE KEY:

WATER	W
SEWER	S
ELECTRIC	UEL
GAS	GAS
TELEPHONE	TEL
CATV	CTV
PROPERTY LINE	PL

CONTOUR LEGEND:

EXISTING 1' CONTOUR	7929
EXISTING 5' CONTOUR	7930
PROPOSED 1' CONTOUR	7929
PROPOSED 5' CONTOUR	7930

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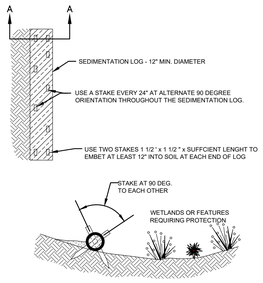
Title: GRADING, DRAINAGE & EROSION CONTROL PLANS

Sheet: C.2



SECTION A - A

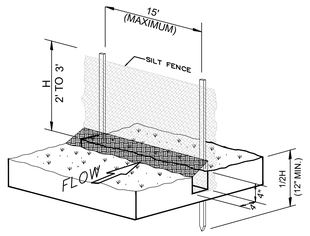
SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.
2. SEDIMENT CONTROL LOGS INDICATED ON INITIAL SWMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2".

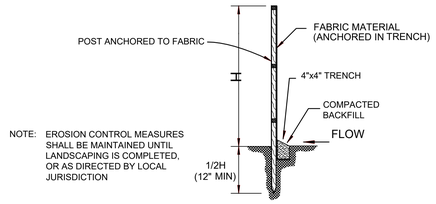
SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. THE SWMP MANAGER SHALL INSPECT SEDIMENT CONTROL LOGS DAILY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN ½ THE HEIGHT OF THE CREST OF LOG.
3. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE COVERED WITH TOP SOIL, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

EROSION CONTROL LOG DETAIL



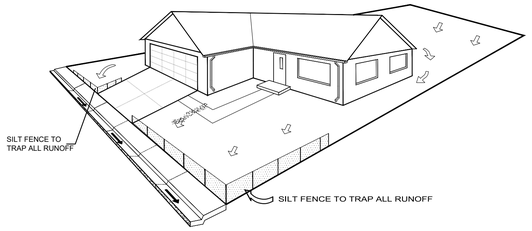
SILT FENCE INSTALLATION
-NTS-



NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL LANDSCAPING IS COMPLETED, OR AS DIRECTED BY LOCAL JURISDICTION

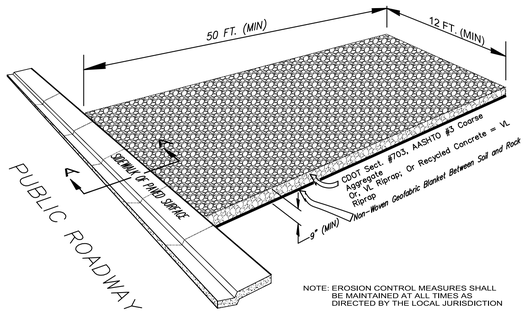
SECTION
-NTS-

SILT FENCE INSTALLATION DETAIL

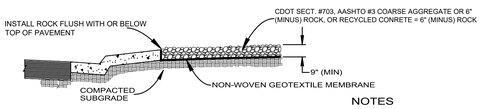


NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY LOCAL JURISDICTION

SILT FENCE PLACEMENT DETAIL



NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE LOCAL JURISDICTION

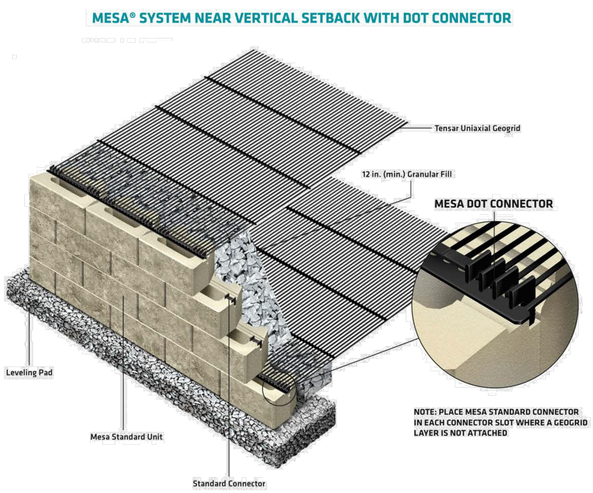


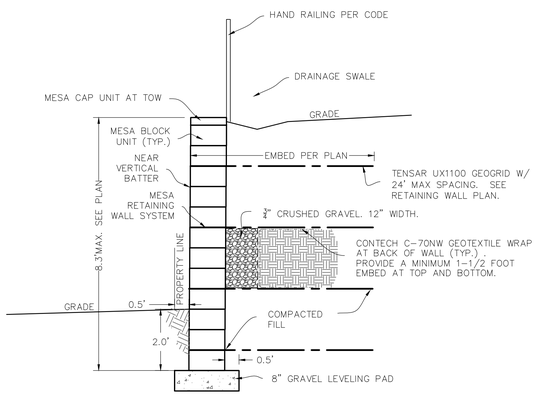
SECTION A-A
-NTS-

NOTES

1. ALL ROCK TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.
2. PUBLIC ROADWAY TO BE KEPT CLEAN AND FREE OF MUD, DIRT AND DEBRIS AT ALL TIMES.

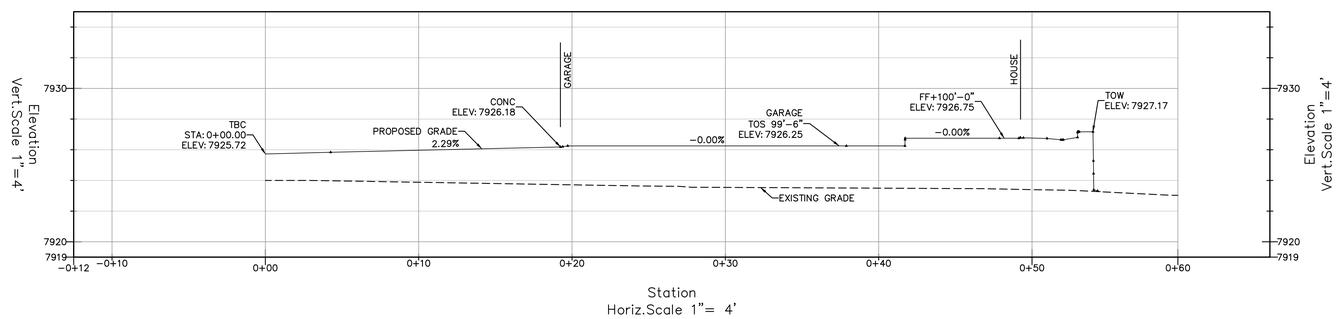
TEMPORARY VEHICLE TRACKING CONTROL DETAIL



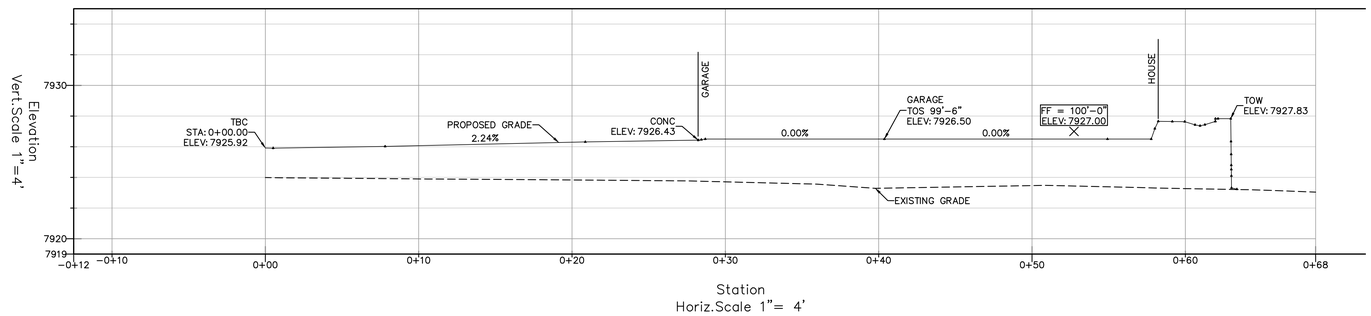


RETAINING WALL DETAIL

UNIT 10 SECTION



UNIT 11 SECTION



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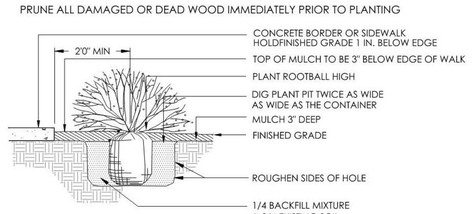
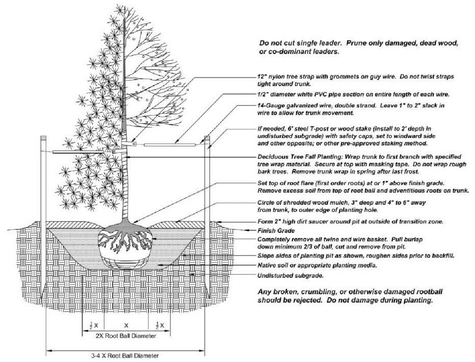
Title:
DETAILS & CROSS SECIONS

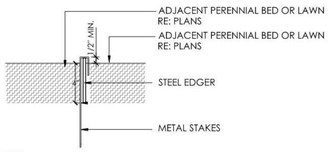
Sheet:
C.3



1 SHRUB PLANTING
SCALE: 3/4" = 1'-0"



3 TREE PLANTING
SCALE: N.T.S.



NOTES:
1. CONTRACTOR TO SUBMIT SAMPLE PRIOR TO ORDERING MATERIAL OR DELIVERING TO SITE.
2. NO EDGER REQUIRED WHEN MULCH IS ADJACENT TO PAVEMENT, BORDER, OR WALLS.
3. SET ALL EDGING 1/2" ABOVE FINISH GRADE AS SHOWN.
4. EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR, AND FLUSH W/ GRADES OF CONCRETE.
5. ALL JOINTS TO BE SECURELY STAKED.
6. CONTRACTOR SHALL CUT TOP EDGE(S) AS NEEDED TO BE PARALLEL WITH GRADE.

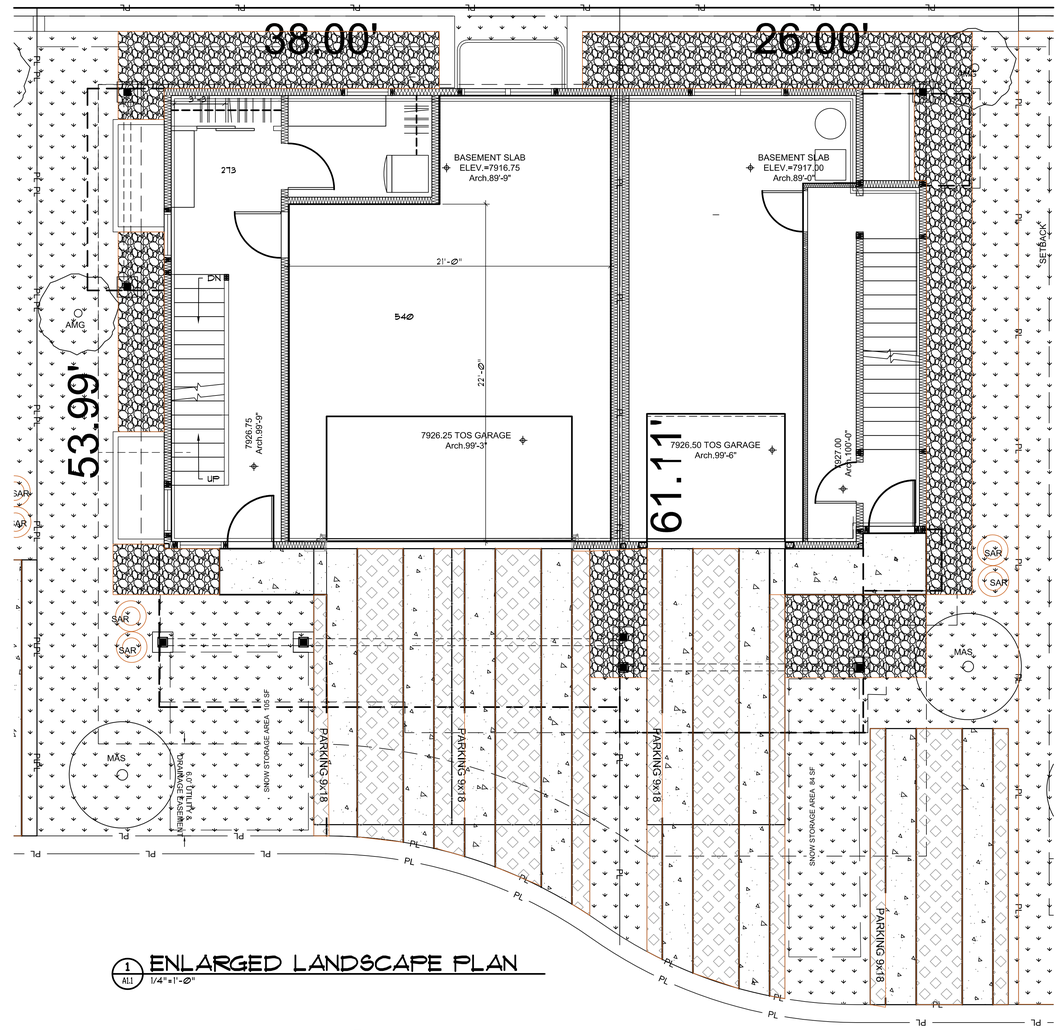
8 METAL EDGER
SCALE: 3/4" = 1'-0"

ORNAMENTAL TREES

ABB.	BOTANIC	COMMON	SPACING	SIZE	QTY
AMG	*Amelanchier x grandiflora*	Autumn Brilliance Serviceberry	as shown	8' clump	21
CMT	*Crataegus x mordenensis 'Toba'*	Toba Hawthorn	as shown	2" Cal	5
MAS	*Malus x 'Spring Snow'*	Spring Snow Crabapple	as shown	2" Cal	8
MAT	*Malus 'Thunderchild'*	Thunderchild Crabapple	as shown	2" Cal	5
QUG	*Quercus gambelii*	Gambel Oak	as shown	8' clump	11

DECIDUOUS SHRUBS

ABB.	BOTANIC	COMMON	SPACING	SIZE	QTY
SAR	*Salix repens*	Creeping Willow	as shown	5 Gal.	9
SOS	*Sorbaria sorbifolia*	Ash-leaf Spirea	as shown	5 Gal.	6
SPM	*Syrringa patula 'Miss Kim'*	Miss Kim Lilac	as shown	5 Gal.	9
SYO	*Symphoricapos occidentalis*	Western Snowberry	as shown	5 Gal.	4



1 ALI ENLARGED LANDSCAPE PLAN
1/4"=1'-0"

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS.
2. CONTRACTOR TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO BEFORE DIGGING, INCLUDING BUT NOT LIMITED TO, TRENCHING, SHRUB AND TREE PLANTING PITS. IF UTILITIES OCCUR WITHIN (3) THREE FEET OF PROPOSED FOOTINGS, THE CONTRACTOR SHALL REPORT SUCH CONDITIONS TO THE OWNER.
3. CONTRACTOR IS RESPONSIBLE FOR FULL ON-SITE INVESTIGATIONS AS NEEDED IN ORDER TO GAIN A FULL UNDERSTANDING OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. FAILURE TO INSPECT THE SITE PRIOR TO CONSTRUCTION SHALL NOT BE CAUSE FOR REQUESTING ADDITIONAL MONIES BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
5. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR FOR SAFETY PRECAUTIONS OR PROBLEMS UTILIZED IN CONNECTION WITH THE WORK, AND HE/SHE WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. VERIFY ALL CONDITIONS AT THE JOB SITE AND NOTIFY LANDSCAPE ARCHITECT AND THE OWNER'S REP. IMMEDIATELY OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

SIGHT TRIANGLE NOTES:

PEDESTRIAN SIGHT TRIANGLES: NO ITEMS THAT ARE WIDER THAN 18" MAY BE TALLER THAN 30" WITHIN THE PEDESTRIAN SIGHT TRIANGLE.

CORNER SIGHT TRIANGLES: NO ITEMS TALLER THAN 30" MAY BE PLACED WITHIN THE CORNER SIGHT TRIANGLE, EXCEPT FOR TRAFFIC CONTROL DEVICES AND EQUIPMENT. TREES MUST BE LIMBED TO 8 FEET AT ADEQUATE MATURITY. TREES SHALL BE PLANTED A MINIMUM OF 10 FEET FROM LIGHT OR UTILITY POLES.

ROADWAY SIGHT TRIANGLES: NO ITEMS THAT ARE WIDER THAN 18" MAY BE TALLER THAN 30" WITHIN THE ROADWAY SIGHT TRIANGLE EXCEPT FOR STREET TREES AND TRAFFIC CONTROL DEVICES AND EQUIPMENT.

TREE PROTECTION ZONE (TPZ) NOTES:

1. CONTRACTOR SHALL VERIFY FINAL BOUNDARIES OF TPZ PRIOR TO COMMENCEMENT OF CONSTRUCTION/DEMOLITION ACTIVITIES. EXCESSIVE BRANCH PRUNING ON EXISTING TREES FOR CONSTRUCTION CLEARANCE WILL NOT BE PERMITTED. PRUNING FOR BUILDING CLEARANCE SHALL BE MINIMIZED. DUE TO SCOPE OF CONSTRUCTION AND SIZE OF EX. ROW TREES, USE CHAIN LINK FENCING TO ESTABLISH TPZ.
2. THE TREE LAWN WITHIN THE BOUNDARY OF THE TREE DRIPLINE SHALL NOT BE ROTOTILLED AT ANY TIME. ROTOTILLING IS ONLY PERMITTED IN AREAS OUTSIDE OF EXISTING TREE DRIPLINE WHERE CONCRETE & HARDSCAPE ARE REMOVED.

LANDSCAPE NOTES:

1. ALL NEW LANDSCAPE AND IRRIGATION SHALL BE UNDER WARRANTY FOR A PERIOD OF (1) ONE YEAR. THE WARRANTY PERIOD SHALL COMMENCE ONCE ALL PUNCH LIST ITEMS ARE SATISFACTORY COMPLETED AND A LETTER OF FINAL COMPLETION IS PROVIDED FROM THE OWNER'S REPRESENTATIVE. ALL LANDSCAPE AND IRRIGATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1 YEAR AFTER THE FINAL COMPLETION IS PROVIDED IN WRITING.
2. PLANT MATERIAL AND BED LOCATIONS TO BE STAKED BY THE LANDSCAPE CONTRACTOR FOR REVIEW BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. ALL ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT DIG PLANT PITS UNTIL LOCATIONS ARE APPROVED.
3. ROUGH GRADING TO PLUS OR MINUS ONE TENTH OF A FOOT BY GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE FINISH GRADING IN ALL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR TO APPROVE ROUGH GRADES PRIOR TO MOBILIZATION. MOBILIZATION ON THE PART OF THE LANDSCAPE CONTRACTOR WILL INDICATE THAT ROUGH GRADING IS ACCEPTABLE TO THE LANDSCAPE CONTRACTOR, AND THEREFORE BE RESPONSIBLE FOR PROVIDING ALL FINISHED GRADES TO MEET THE CIVIL GRADING PLANS.
4. TREES AND SHRUBS WILL BE INSPECTED ON-SITE. LANDSCAPE PLANT MATERIALS MAY BE REJECTED AT ANY TIME DUE TO ISSUES OF QUALITY.
5. ALL NEW LANDSCAPE AREAS SHALL BE IRRIGATED BY A COMMERCIAL GRADE, FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. TREES, SHRUBS, AND DECORATIVE GRASSES SHALL BE IRRIGATED BY A SEPARATE ZONE FROM SOD/GRASS; THIS INCLUDES TREES PLANTED IN SOD/GRASS AREA. THE IRRIGATION SYSTEM IS TO HAVE A RAIN SENSOR SHUTOFF INSTALLED. IRRIGATION TO BE DESIGN/BUILD, CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ARCHITECT, LANDSCAPE ARCHITECT, AND MECHANICAL AND FOR GENERATION OF AN IRRIGATION PLAN FOR REVIEW WITH AS BUILT PLAN AS REQUIRED.
6. ALL PLANT MATERIAL SHALL MEET OR EXCEED CURRENT AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 AND THE COLORADO NURSERY ACT AND ACCOMPANYING RULE AND REGULATIONS.
7. TRUNK-WRAP TAPE: TWO LAYERS OF CRINKLED PAPER CEMENTED TOGETHER WITH BITUMINOUS MATERIAL, 4 INCHES (102 MM) WIDE MIN.
8. WRAPPING TREE TRUNKS: WRAP TREES WITH TRUNK-WRAP TAPE. START AT BASE OF TRUNK AND SPIRAL COVER TRUNK TO HEIGHT OF FIRST BRANCHES. OVERLAP WRAP, EXPOSING HALF THE WIDTH, AND SECURELY ATTACH WITHOUT CAUSING GIRDLING. DO NOT USE STAPLES. INSPECT TREE TRUNKS FOR INJURY, IMPROPER PRUNING, AND INSECT INFESTATION AND TAKE CORRECTIVE MEASURES REQUIRED BEFORE WRAPPING. DO NOT WRAP ROUGH BARK, POPULUS OR GLEDITSIA TREES. REMOVE WRAP IN SPRING.
   - 8.1. NO TREE SHALL BE WRAPPED AFTER MAY 21 OR BEFORE NOVEMBER 1.
   - 8.2. ALL DECIDUOUS TREES SHALL BE WRAPPED BY NOV. 15. REMOVE TREE WRAP BY MAY 15.
   - 8.3. CONTRACTOR SHALL BE RESPONSIBLE FOR WRAPPING AND UNWRAPPING TREES DURING THE WARRANTY PERIOD.
9. FIBER MULCH AT PLANTING BEDS: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF SHREDDED REDWOOD MULCH NOT LARGER THAN FOUR INCHES (4") IN LENGTH. SUBMIT 1.0 CF SAMPLE FOR APPROVAL.

SOIL PREPARATION:

SOIL SHALL BE AMENDED BASED ON THE SOIL TEST RECOMMENDATIONS (TO ADDRESS SPECIFIC DEFICIENCIES & ISSUES IN EXISTING SOIL). THE FOLLOWING INCLUDES THE SOIL TEST REQUIREMENTS AND RECOMMENDATIONS TO BE USED IN CONJUNCTION WITH THE SOIL TEST RESULTS:

1. SOIL ANALYSIS, BULK DENSITY TESTING AND REMEDIATION REQUIRED. SOIL ANALYSIS FROM A LOCAL ACCREDITED SOIL ANALYSIS LABORATORY WITH EXPERIENCE IN LOCAL URBAN SOILS SHALL BE REQUIRED WHEN PLANTS ARE TO BE INSTALLED IN GREEN SPACE. ALL SOIL REMEDIATION SHALL BE BASED ON THE SOIL ANALYSIS.
   - 1.1. MINIMUM SOIL ANALYSIS MUST DETERMINE SOIL TEXTURE AND STRUCTURE, PH BALANCE, SOIL SALINITY, FREE LIME, ORGANIC MATTER (OM) CONTENT, PLANT AVAILABLE NUTRIENTS AND COMPACTION.
   - 1.2. DEPTH OF LANDSCAPE SOIL ANALYSIS SHALL BE 24IN FOR TREES AND 8IN FOR ALL OTHER AREAS
   - 1.3. SOIL REMEDIATION REQUIRED BASED ON SOIL ANALYSIS.

2. COMPOSTED MATERIAL SHALL CONSIST OF AGED ORGANIC MATTER, FREE OF WEED OR OTHER NOXIOUS PLANT SEEDS, LUMPS, STONES, OR OTHER FOREIGN CONTAMINANTS HARMFUL TO PLANT LIFE, AND HAVING THE FOLLOWING CHARACTERISTICS BASED ON A NUTRIENT TEST PERFORMED NO LONGER THAN 3 MONTHS PRIOR TO ITS INCORPORATION INTO THE PROJECT:
   - 1.1. ORGANIC MATTER: 25% MINIMUM.
   - 1.2. SALT CONTENT: 5.0 MMHOS/CM MAXIMUM.
   - 1.3. PH: 8.5 MAXIMUM.
   - 1.4. CARBON TO NITROGEN RATIO OF 10:1 TO 20:1.
   - 1.5. PARTICLE SIZE NO PARTICLE SMALLER THAN SILT OR CLAY SIZE, OR LARGER THAN ½" DIAMETER
   - 1.6. ACCEPTABLE COMPOST PRODUCT: CLASS I COMPOST, SUCH AS ECOGRO OR BIO-COMP, AS PROVIDED BY A1 ORGANICS, EATON, CO, OR APPROVED EQUAL.

2. FINISH GRADE TO BE BELOW THE EDGE OF PAVEMENT PRIOR TO SODDING OR PLANTING:
   - 1.1. SEEDED/SODDED AREAS: ALLOW 1 INCH FOR SOD.
   - 1.2. PLANTED AREAS: ALLOW 3 INCHES FOR MULCH.

4. AFTER APPLYING SOIL CONDITIONER AND FERTILIZER, THOROUGHLY TILL AREA TO DEPTH OF 6" MINIMUM UNTIL SOIL IS WELL PULVERIZED AND THOROUGHLY MIXED.

NATIVE GRASS
2' GRAVEL DRIP LINE MULCH
CONC. PARKING STRIP
PERMEABLE PAVERS

SITE CALCULATIONS - 8-9

SITE SQFT	3,760 SQFT
BUILDING COVERAGE	1,994 SQFT
IMPERVIOUS COVERAGE (Includes Building)	2,227 SQFT
SITE COVERAGE ALLOWED	65%
SITE COVERAGE	89.2%

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Timberline Engineering
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KRM Consultants, Inc.
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Seal

Belden Place - Duplex Units
Lots 10/ 0025 Beldan Way & 11 / 0023 Beldan Way
Minturn, Colorado 81645

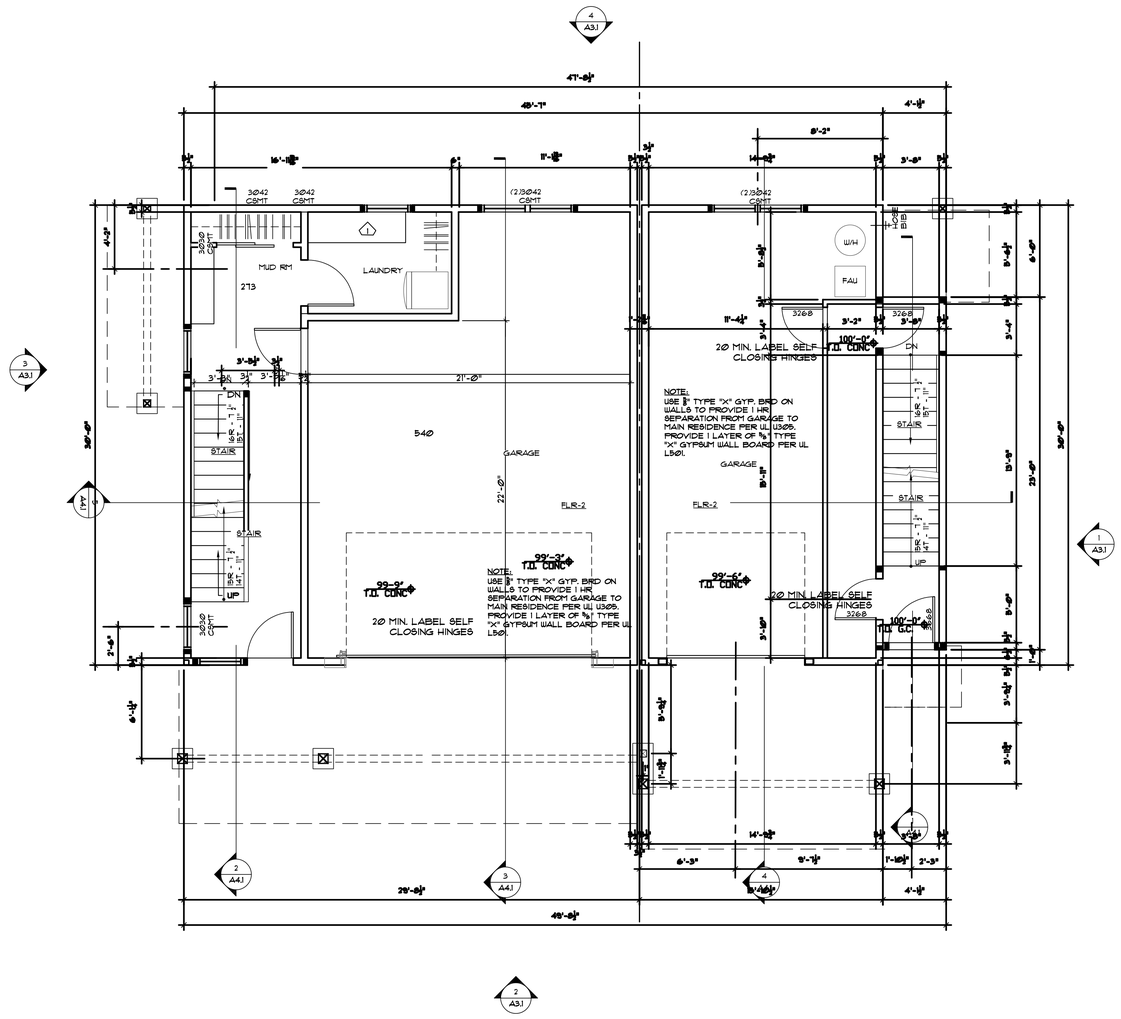
Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

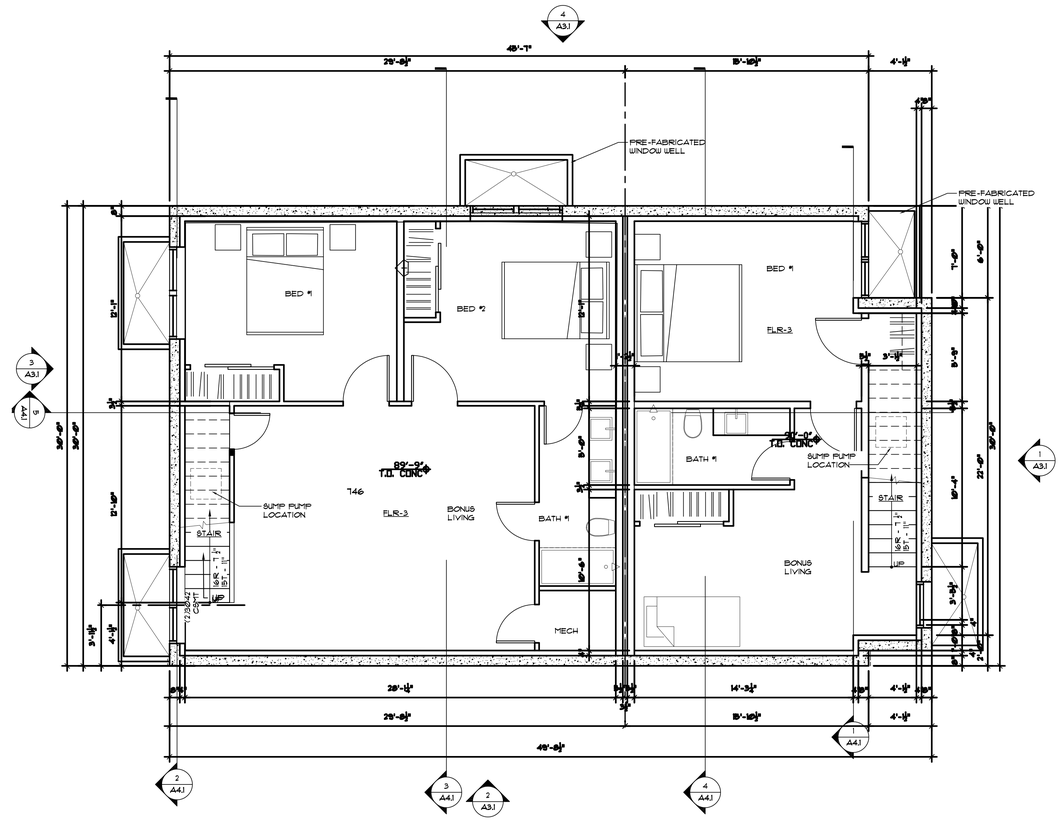
Sheet Title:
Landscape Plan

Project No:
2215

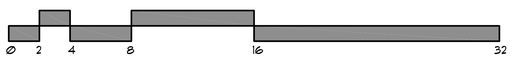
Sheet No:
A1.1



2 A2.1 LOWER LEVEL FLOOR PLAN
1/4"=1'-0"



1 A2.1 BASEMENT FLOOR PLAN
1/4"=1'-0"



SCALE: ¼"=1'-0"

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Belden Place - Duplex Units
Lots 10/ 0025 Beldan Way & 11 / 0023 Beldan Way
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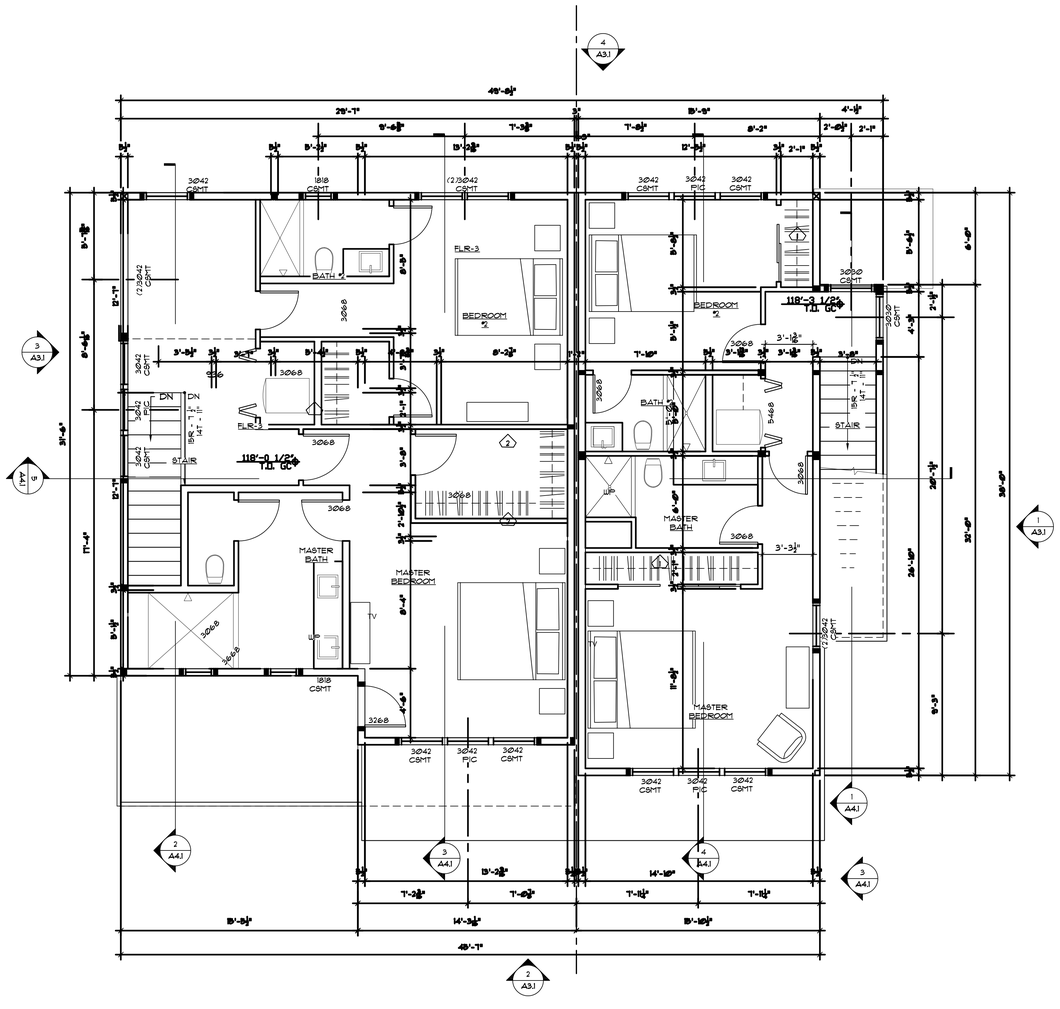
Revisions:

Issue Dates:
20220509 Stuct Coord
DRB-09/20/2024

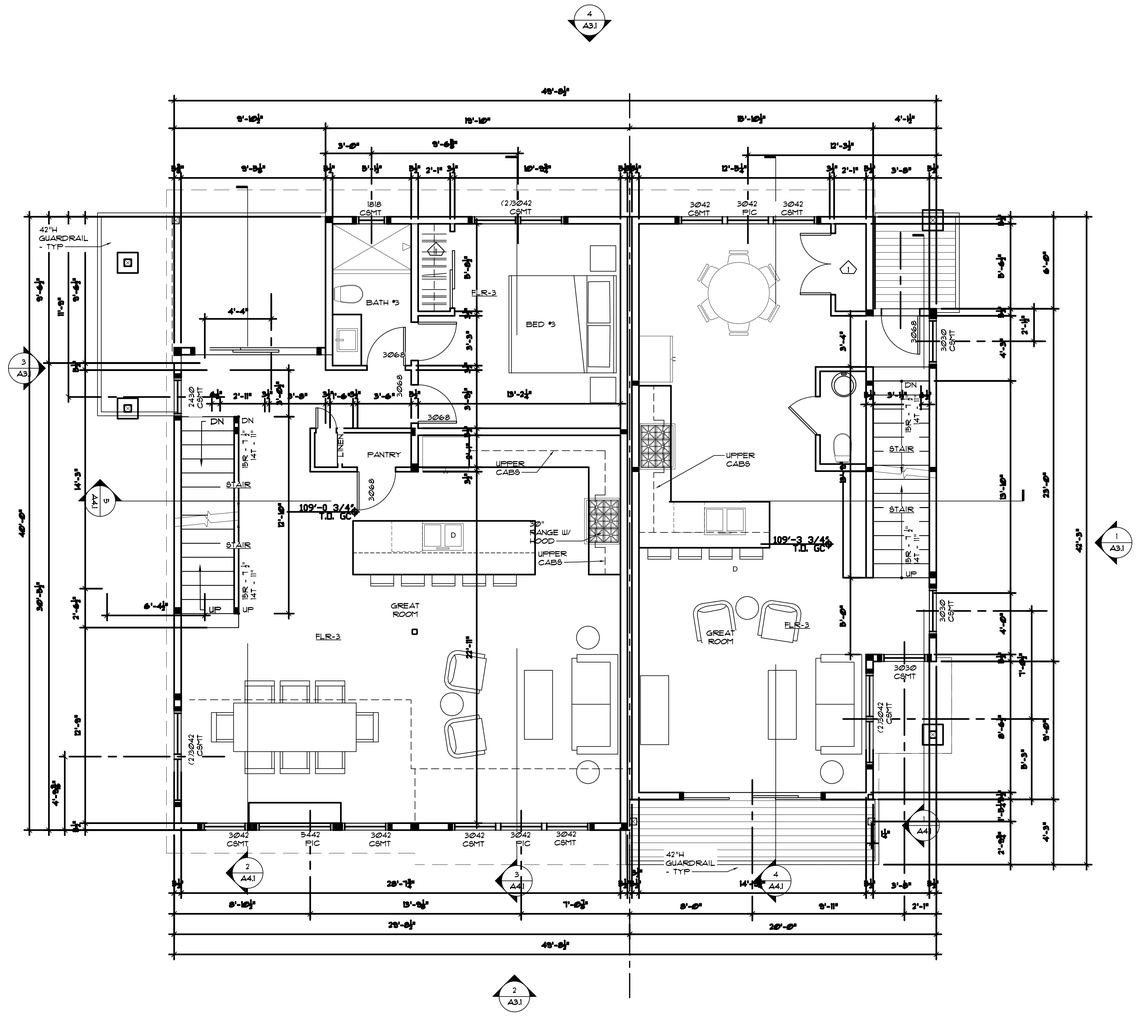
Sheet Title:
Basement and Lower Level Floor Plans

Project No:
2215

Sheet No:
A2.1



2 A22 UPPER LEVEL FLOOR PLAN
1/4"=1'-0"



1 A22 MAIN LEVEL FLOOR PLAN
1/4"=1'-0"

UNIT 10	SQ. FT
LIVING - BASEMENT	747
LIVING - LOWER	271
LIVING - MAIN	1,030
LIVING - UPPER	930
TOTAL LIVING	2,978
GARAGE	556
MECHANICAL	0
TOTAL	3,534

UNIT 11	SQ. FT
LIVING - BASEMENT	446
LIVING - LOWER	166
LIVING - MAIN	629
LIVING - UPPER	604
TOTAL LIVING	1,845
GARAGE	348
MECHANICAL	0
TOTAL	2,193
TOTAL	5,717

SCALE: ¼"=1'-0"

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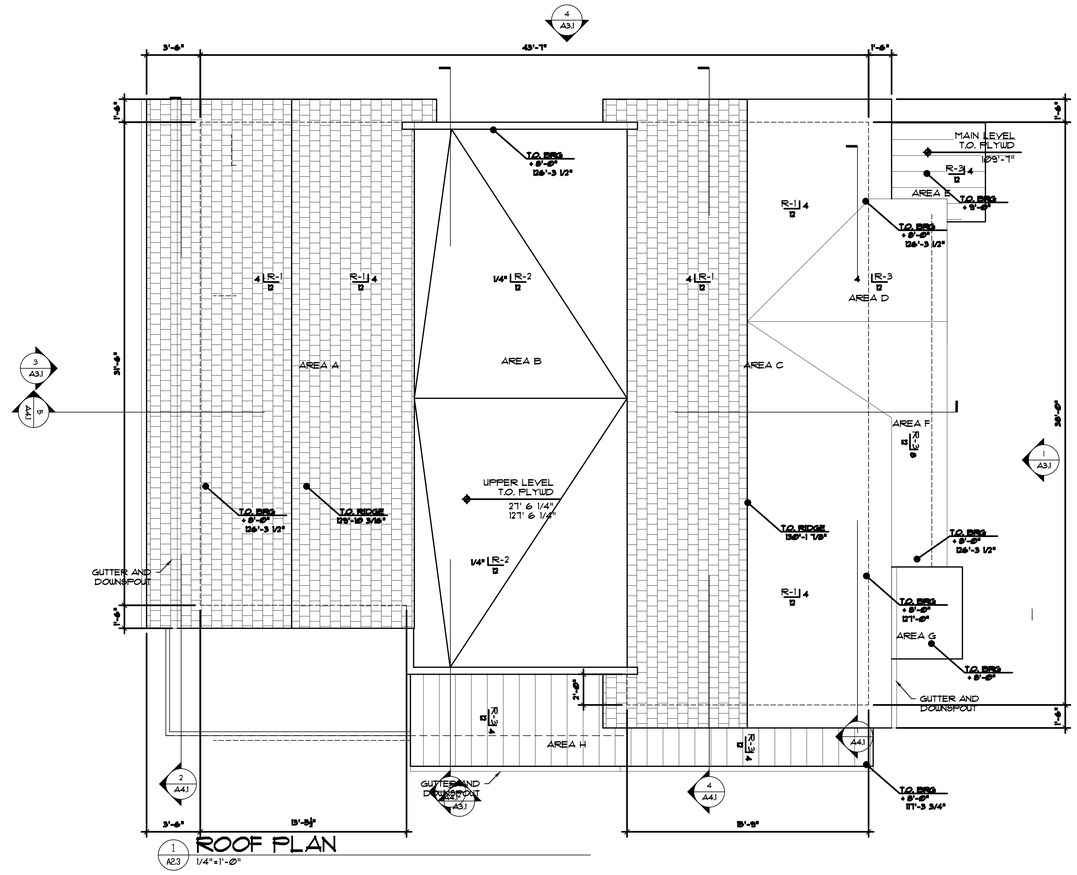
Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

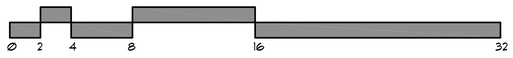
Sheet Title:
Main and Upper Level Floor Plans

Project No:
2215

Sheet No:
A2.2



1 A2.3 ROOF PLAN
1/4"=1'-0"



SCALE: 1/4"=1'-0"

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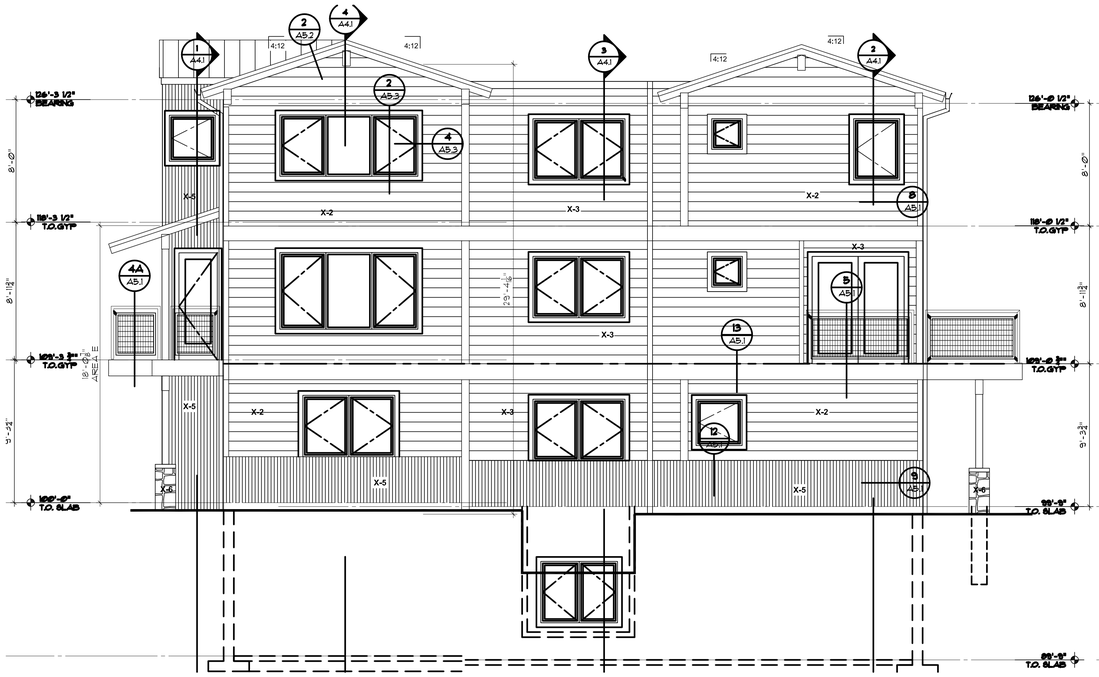
Revisions:

Issue Dates:
20220609 Struct Coord
DRB-09/20/2024

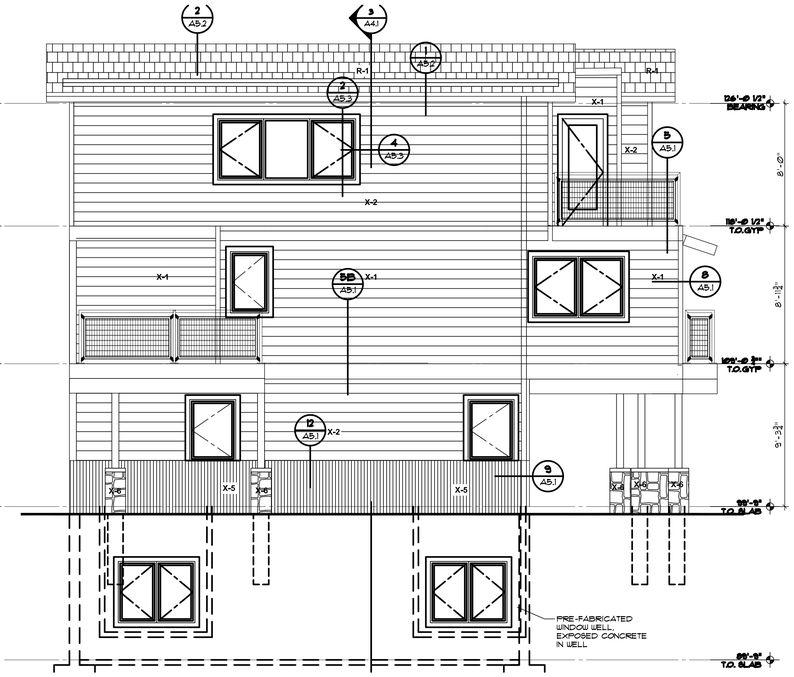
Sheet Title:
Roof Plan

Project No:
2215

Sheet No:
A2.3



4 A3.1 REAR ELEVATION
1/4"=1'-0"

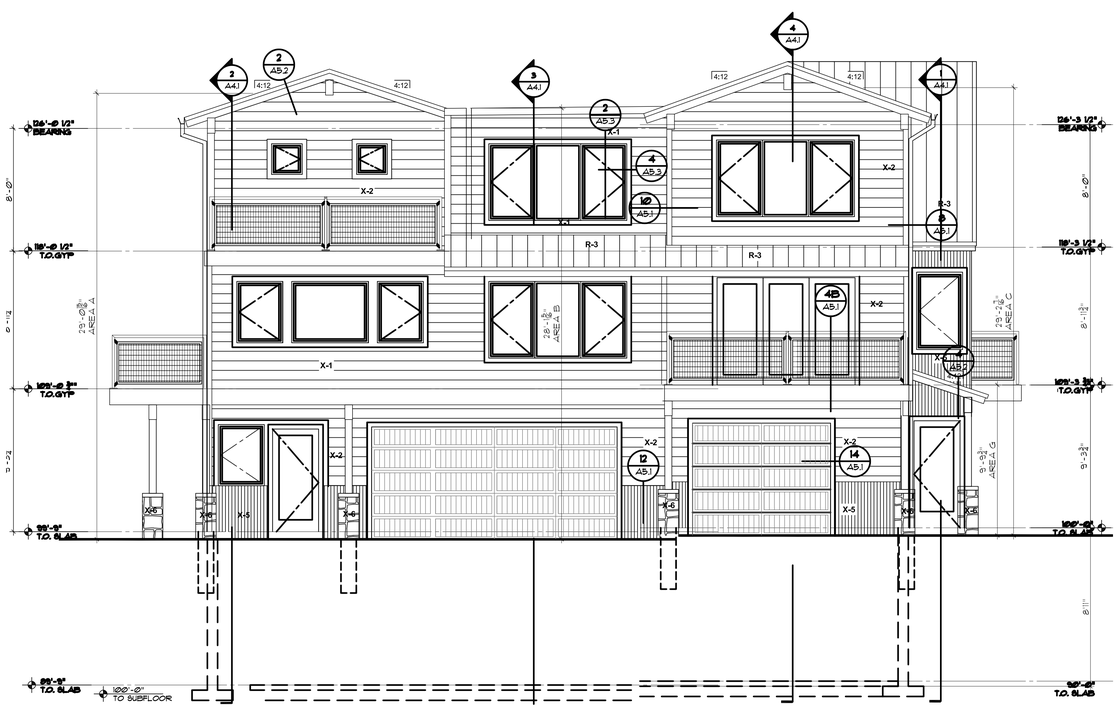


3 A3.1 LEFT SIDE ELEVATION
1/4"=1'-0"

Roof Mark	Roof Area (SF)		Roof Area %		Avg Hgt (Ft)		Weighted Avg (Ft)	
A	535.40	/ by total	26.81	X	29.08	=	779.64	
B	501.20	/ by total	25.10	X	29.11	=	730.59	
C	620.00	/ by total	31.05	X	29.20	=	906.56	
D	72.00	/ by total	3.61	X	28.97	=	104.45	
E	38.40	/ by total	1.92	X	18.73	=	36.02	
F	83.00	/ by total	4.16	X	24.72	=	102.74	
G	27.70	/ by total	1.39	X	9.81	=	13.61	
H	119.30	/ by total	5.97	X	18.20	=	108.73	
	1997.00		100.00		187.82		2782.33	27.82
								27' 9 13/16"

MATERIAL LEGEND

R-1: ASPHALT SHINGLE ROOF
R-2: LOW SLOPE EPDM
R-3: STANDING SEAM METAL ROOFING
X-1 DIAMOND KOTE LP SMARTSIDE LAP SIDING
X-2 DIAMOND KOTE LP SMARTSIDE LAP SIDING
X-3 DIAMOND KOTE LP SMARTSIDE LAP SIDING
X-4 HORIZONTAL CORRUGATED METAL SIDING
X-5 VERTICAL CORRUGATED METAL SIDING
X-6 STONE VENEER



2 A3.1 FRONT ELEVATION
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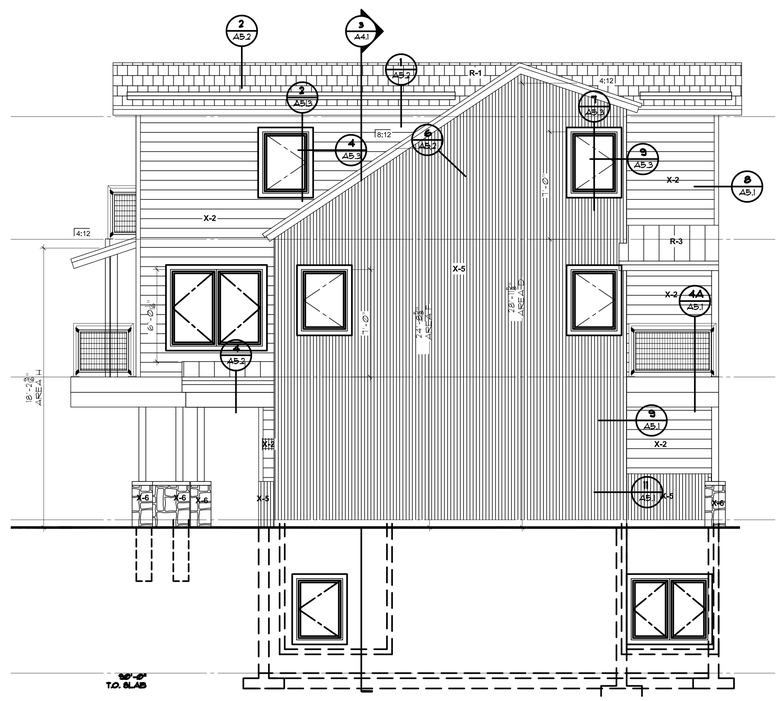

1 A3.1 RIGHT SIDE ELEVATION
1/4"=1'-0"

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Sheet Title:
Exterior Elevations

Project No:
2215

Sheet No:
A3.1

LAP SIDING EXAMPLE
MATERIAL EXAMPLE ONLY
NOT FOR COLOR

X-1
LAP SIDING
A3.1

SIMILAR TO DIAMOND KOTE LP
8" LAP SIDING
COLOR: BOURDEUX

X-2
2 A3.1 LAP SIDING

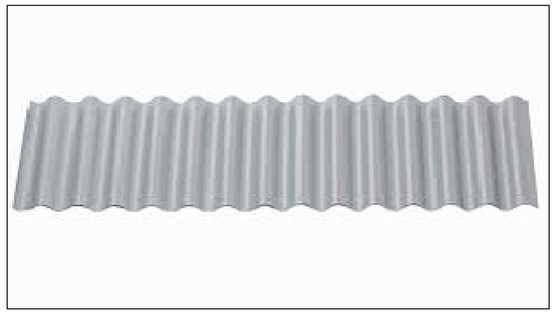
SIMILAR TO DIAMOND KOTE LP
VERTIGCAL GROOVE
COLOR: ELKHORN

X-3
1 A3.1 LAP SIDING

SIMILAR TO DIAMOND KOTE LP
8" LAP SIDING
COLOR: GLACIER FOG

R-1
7 A3.1 ROOFING

SIMILAR GAF DESIGNER SHINGLES
WOODLAND "CASTLEWOOD GRAY"



X-4
4-5 A3.1 HORIZONTAL CORRUGATED PANELS
X-5
VERTICAL CORRUGATED PANELS

SIMILAR TO WESTERN STATES METAL
ROOFING - GALVANIZED $\frac{7}{8}$"
CORRUGATED PANELS

X-6
6 A3.1 STONE VENEER - THIN VENEER

SIMILAR TO GALLEGOS - #366
COURTLAND LOW RISE

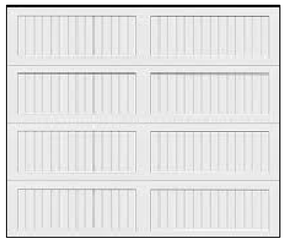
R-3
7B A3.1 ROOFING

SIMILAR WESTERN STATES
2" STANDING SEAM - 12" WIDTH
COLOR: GALVANIZED TO MATCH
CORRUGATED PANELS

SW 7069
Iron Ore
Interior / Exterior

PAINTED ITEMS:
SHERWIN WILLIAMS 7069 - IRON ORE
TRIM, WOOD BEAMS, GUTTERS AND
OTHER METALS

WINDOWS SIMILAR TO:
SIERRA PACIFIC "BLACK"
WOOD CLAD WINDOWS



8 A3.1 GARAGE DOOR

SIMILAR RAYNOR ST AUGUSTINE (PANEL
PATTERN)
TEXTURED PANELS
COLOR: WALNUT

GENERATION LIGHTING

8637401-12: Medium One Light Outdoor Wall Lantern

Dimensions:

Diameter:	12"	**Extends:**	17 1/8"
Width:	12"	**Extends Max:**	23 1/8"
Height:	10 5/8"	**Wire:**	6 1/2" (color/Black/White)
Weight:	1.8 lbs.	**Mounting Proc.:**	Cap Nuts
		Connection:	Mounted To Box

Bulbs:
1 - Medium A19 75w Max. 120v - Not included

Features:
- Dark sky friendly. Designed to emit no light above the 90° horizontal plane. Photometry unavailable.
- Easily converts to LED with optional replacement lamps
- Meets Title 24 energy efficiency standards
- Title 24 compliant if used with Joint Appendix (JA8) approved light bulbs listed in the California Energy Commission Appliance database.

Collection: Barn Light

Featured in the decorative Barn Light collection

1 A19 Medium 75 watt light bulb

Dark sky friendly. Designed to emit no light above the 90° horizontal plane. Photometry unavailable.

Easily converts to LED with optional replacement lamps

Meets Title 24 energy efficiency standards

UPC #:785652069352

Finish: Black (12)

Material List:
1 Body - Aluminum - Black

Safety Listing:
Safety Listed for Wet Locations

Instruction Sheets:
Trilingual (English, Spanish, and French) (990W8_37401-BRL)

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate			1 1/4	5	4 1/8	6 1/2

Shipping Information:

Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frt. Class	UPS Ship
Individual	8537401EN3-12	1	785652069352	16.75	14.58	13.25	1.873	4.1	250	Yes
NJ Pallet		45		48	40	77	85.556	184		No
NV Pallet		40		48	40	77	85.556	160		No

9 A3.1 LIGHT FIXTURE

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Revisions:

Issue Dates:
20220509 Struct Coord
DRB-07/05/2024

Sheet Title:
Materials

Project No:
2215

Sheet No:
A3.2

NE 3D

SE 3D

SW 3D

NW 3D

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Revisions:

Issue Dates:
20220509 Struct Coord
DRB - 11/28/2023

Sheet Title:
Renderings

Project No:
2215

Sheet No:
A3.3

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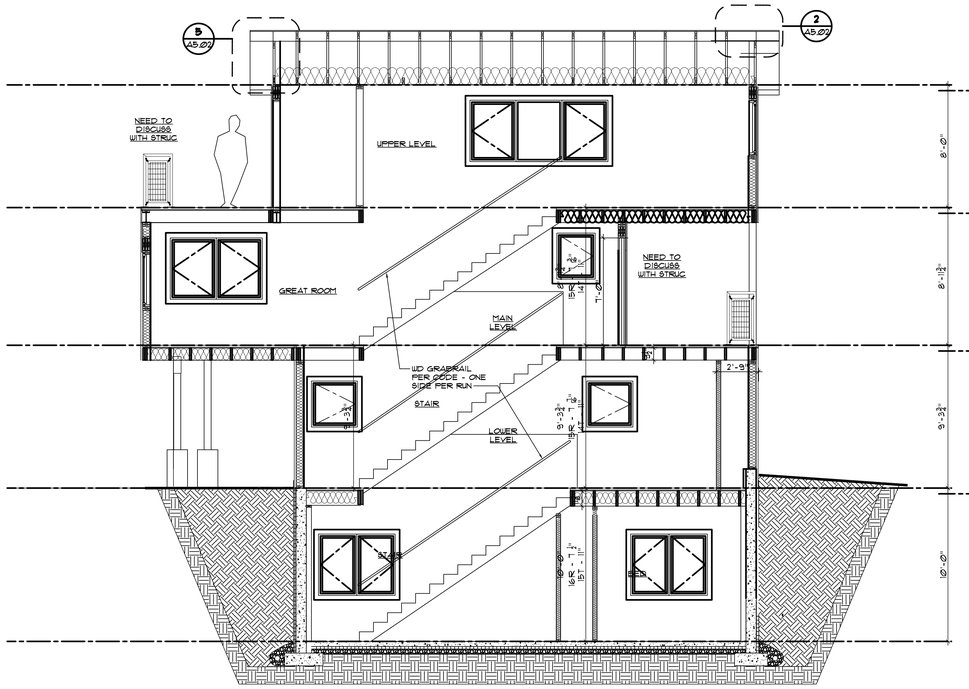

2 A4.1 SECTION 2
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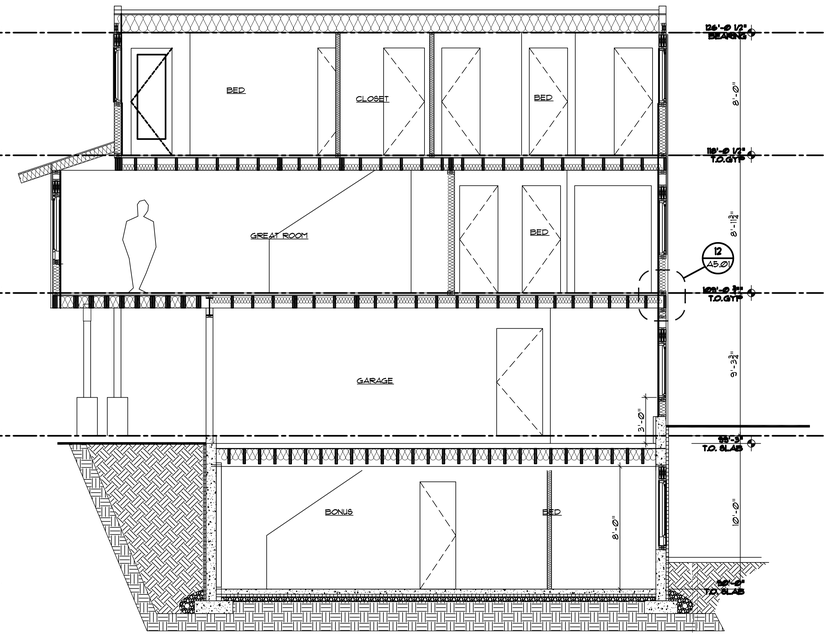

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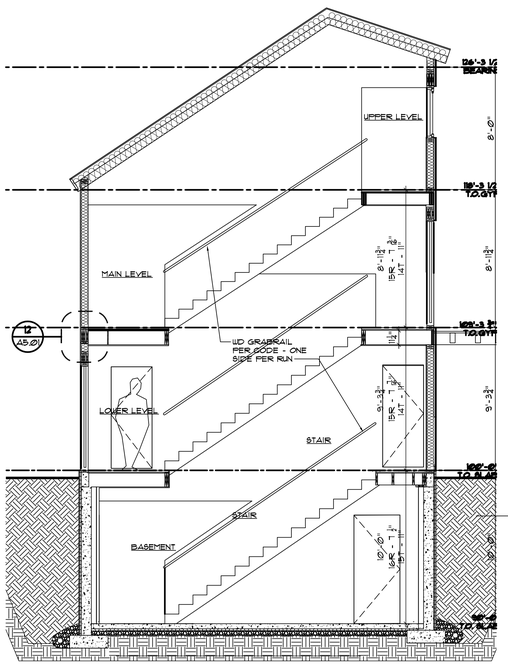

1 A4.1 SECTION 1
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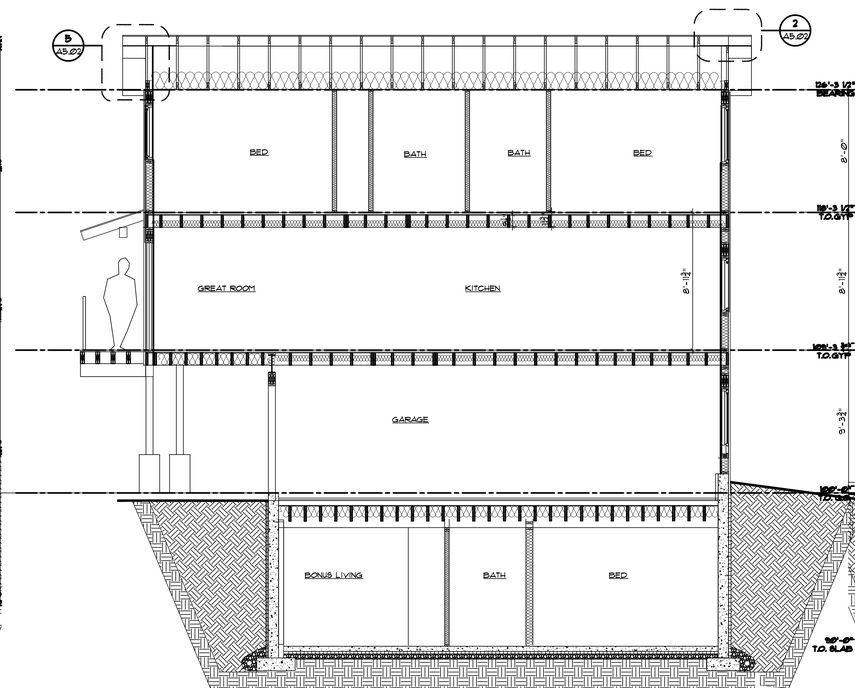

2 A4.1 SECTION 2
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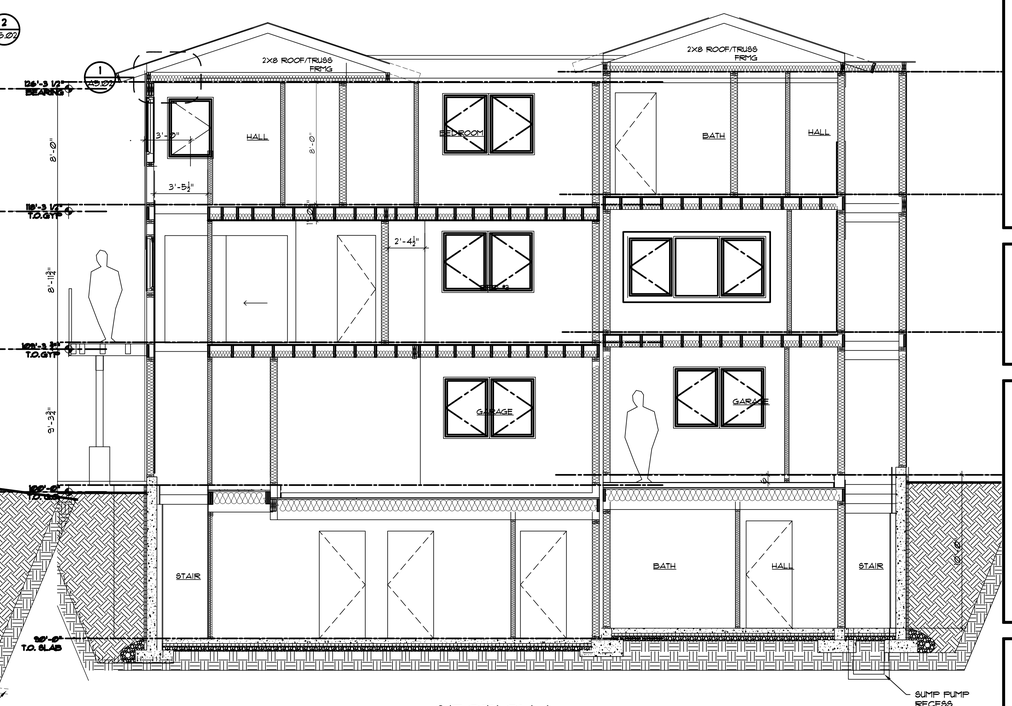

1 A4.1 SECTION 1
SCALE: 3/4"=1'-0"

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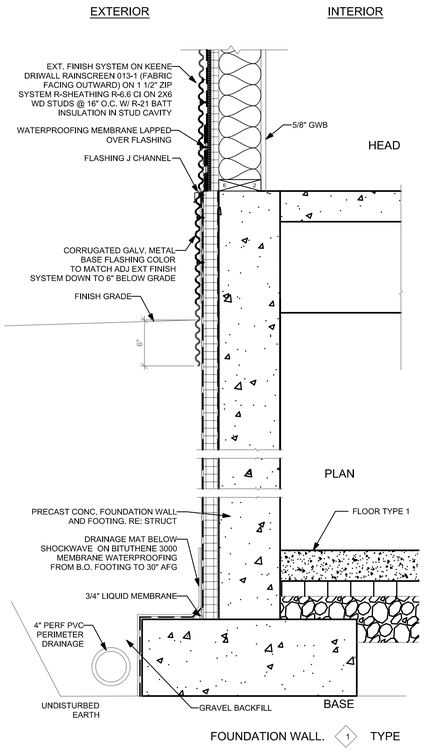
DRB-09/20/2024

Sheet Title:
Building Sections

Project No:
2215

Sheet No:
A4.1



1 A5.01 SECTION DETAIL - CORRUGATED SIDING
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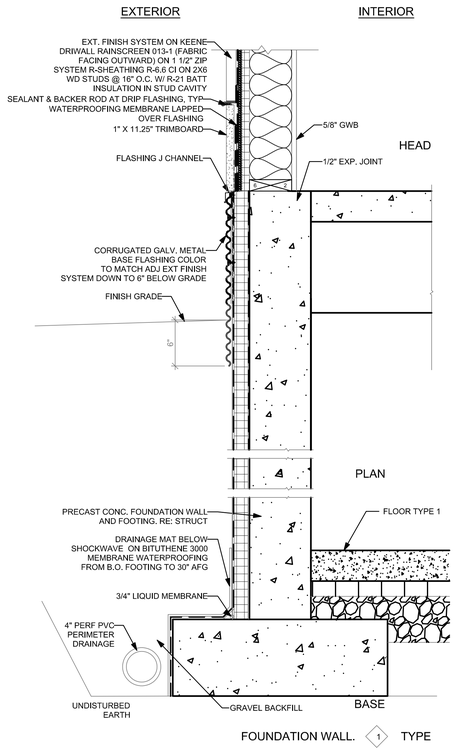
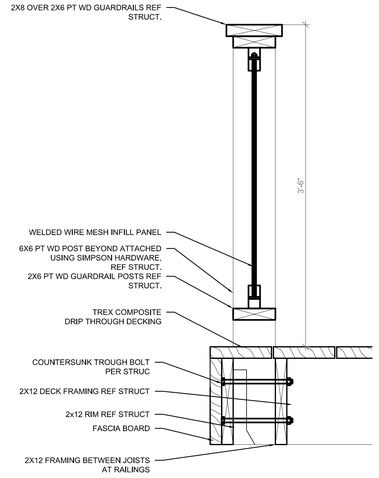
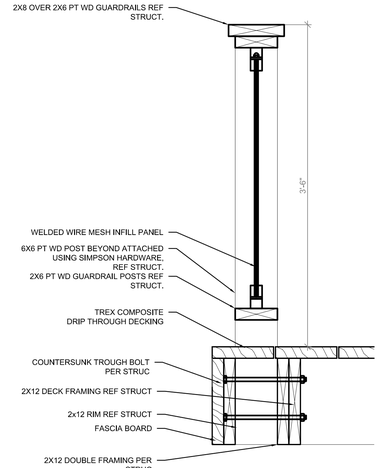


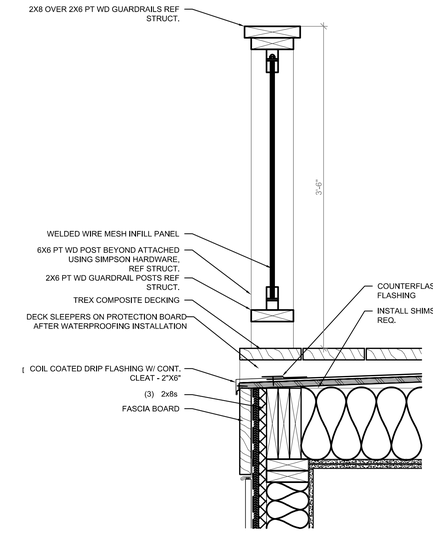
2 A5.01 SECTION DETAIL - WOOD SIDING
SCALE: 3"=1'-0"



4A A5.01 DRIP THRU DECK RAILING
SCALE: 1 1/2"=1'-0"



4B A5.01 DRIP THRU DECK RAILING
SCALE: 1 1/2"=1'-0"



5 A5.01 WP DECK RAILING
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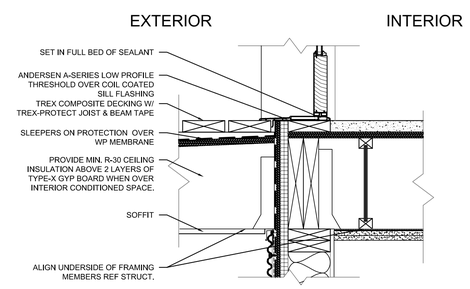
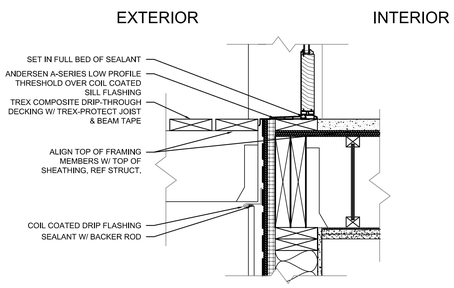
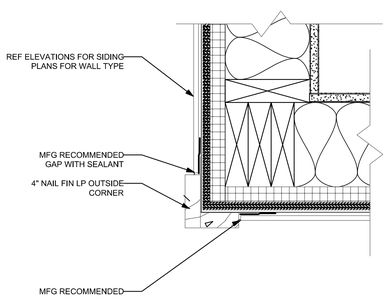


6 A5.01 SECTION DETAIL - W.W.M. GUARDRAIL
SCALE: 1 1/2"=1'-0"



7 A5.01 SECTION DETAIL - W.W.M. GUARDRAIL
SCALE: 1 1/2"=1'-0"



8 A5.01 PLAN DETAIL - CORNER TRIM
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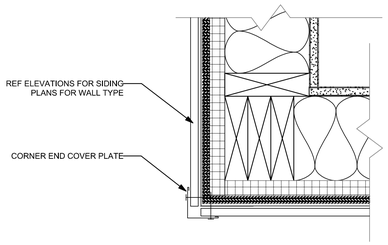

9 A5.01 PLAN DETAIL - CORNER TRIM
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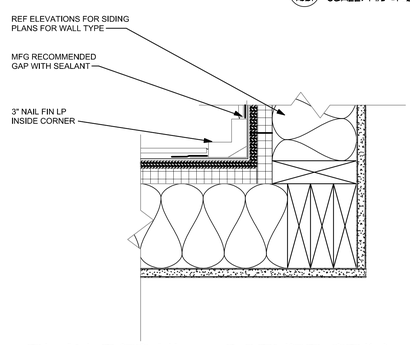

10 A5.01 PLAN DETAIL - CORNER TRIM
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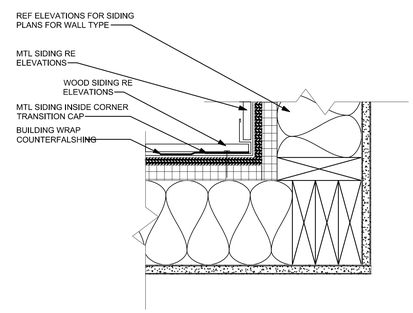

11 A5.01 INTERIOR CORNER TRIM
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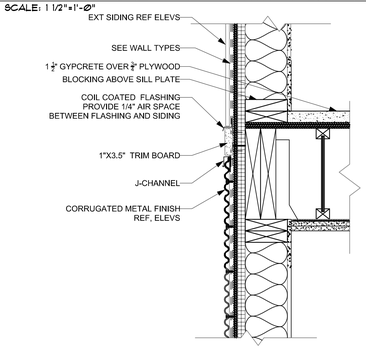

12 A5.01 SECTION DETAIL - FLOOR TRANSITION
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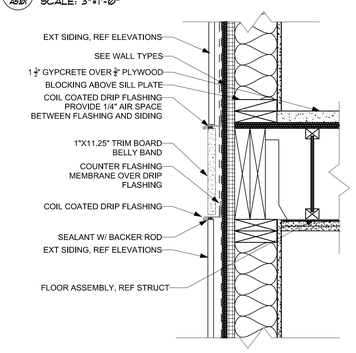

13 A5.01 SECTION DETAIL - FLOOR TRANSITION
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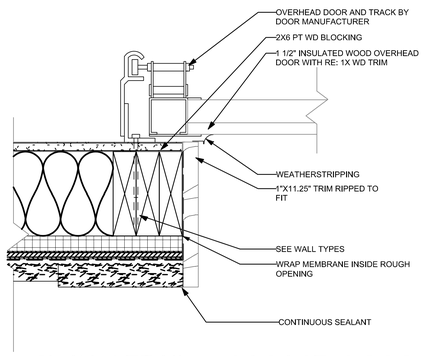

14 A5.01 PLAN DETAIL - GARAGE DOOR
SCALE: 3"=1'-0"

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Seal

Belden Place - Duplex Units
Lots 10/ 0025 Beldan Way & 11 / 0023 Beldan Way
Minturn, Colorado 81645

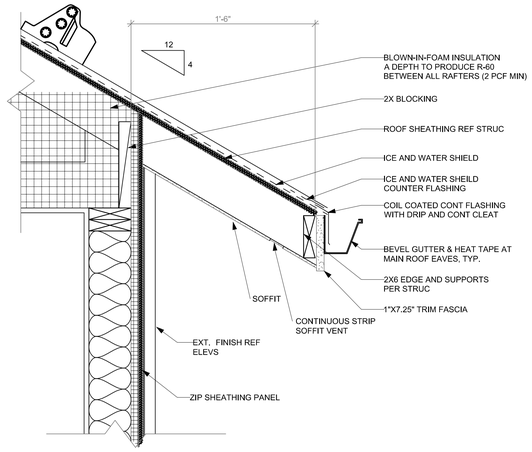
Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

Sheet Title:
Details

Project No:
2215

Sheet No:
A5.1



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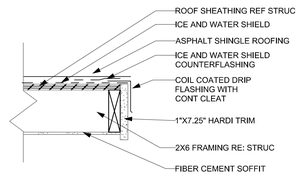

2 A5.01 SECTION DETAIL - EAVE
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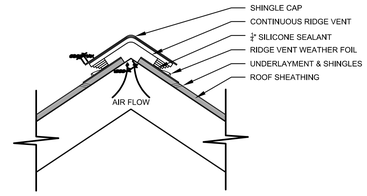

3 A5.01 SECTION DETAIL - RIDGE
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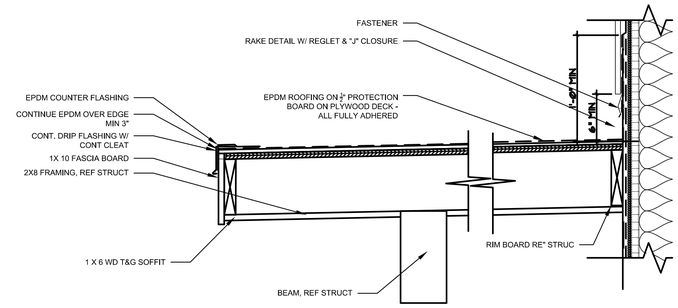

4 A5.01 SECTION DETAIL - COVERED WALKWAY
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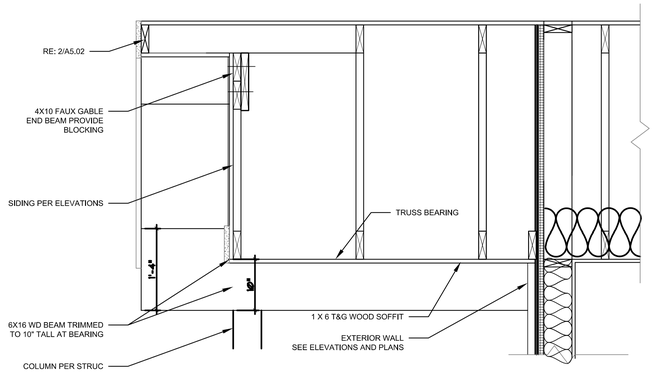

5 A5.01 SECTION DETAIL - GABLE END
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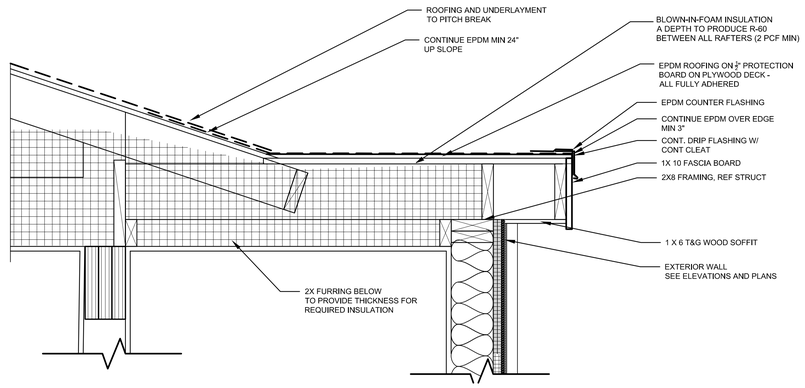

6 A5.01 STAIR ROOF - LOW SLOPE
SCALE: 1 1/2"=1'-0"

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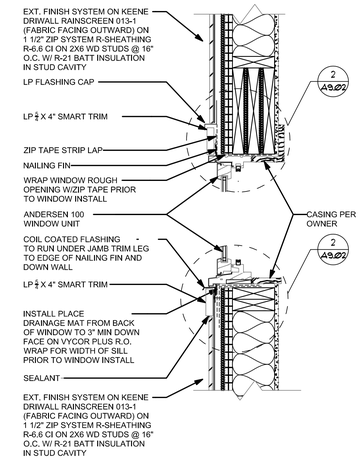
Project No:
2215

Sheet No:
A5.2



2 A5.03 WINDOW DETAIL - HEAD/SILL
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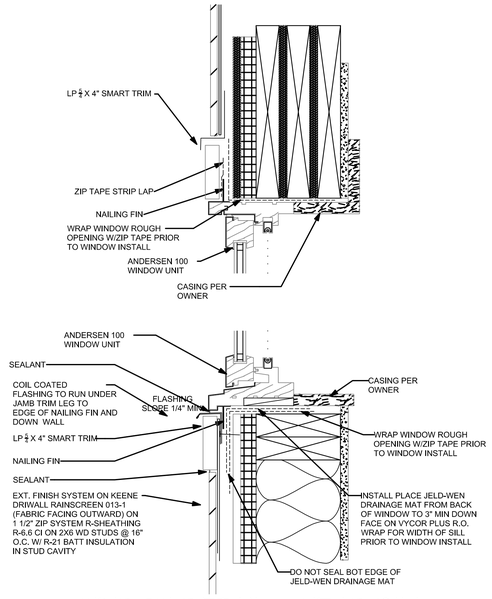

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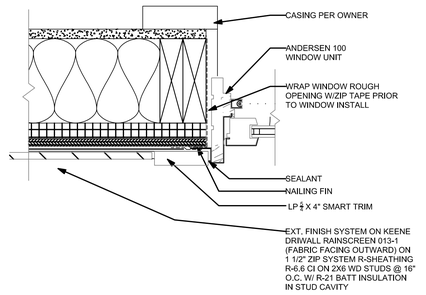

4 A5.03 WINDOW DETAIL - JAMB
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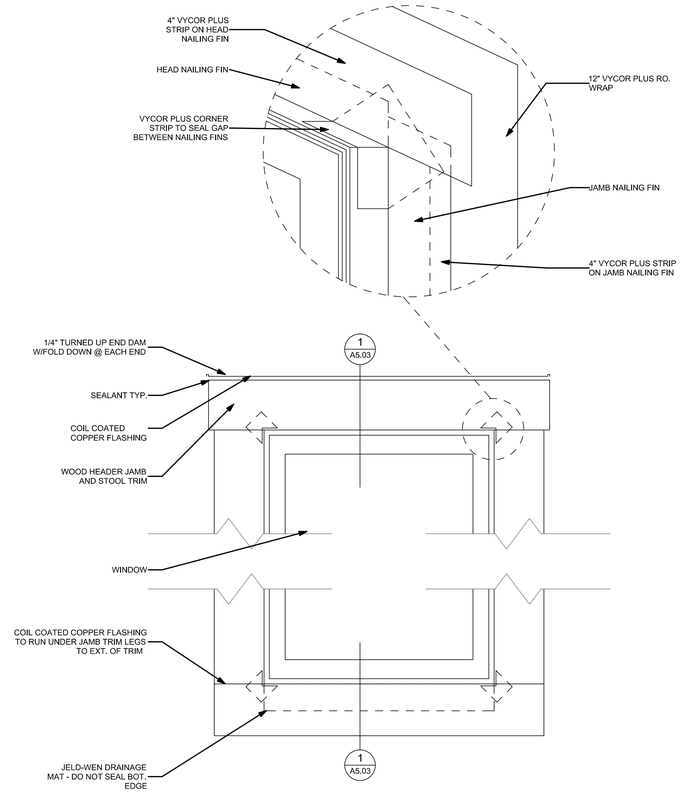

1 A5.03 WINDOW DETAIL - FLASHING
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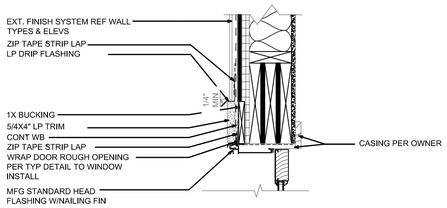
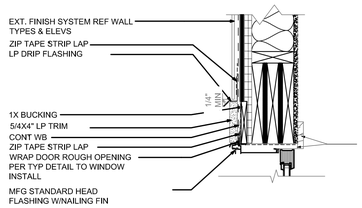


5 A5.03 DOOR DETAIL - INSWING HEAD TYP.
SCALE: 1 1/2"=1'-0"

EXTERIOR INTERIOR



6 A5.03 DOOR DETAIL - SLIDER HEAD TYP.
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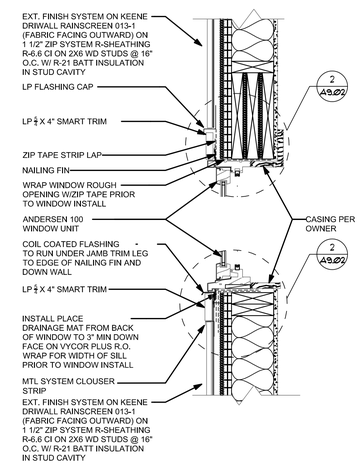

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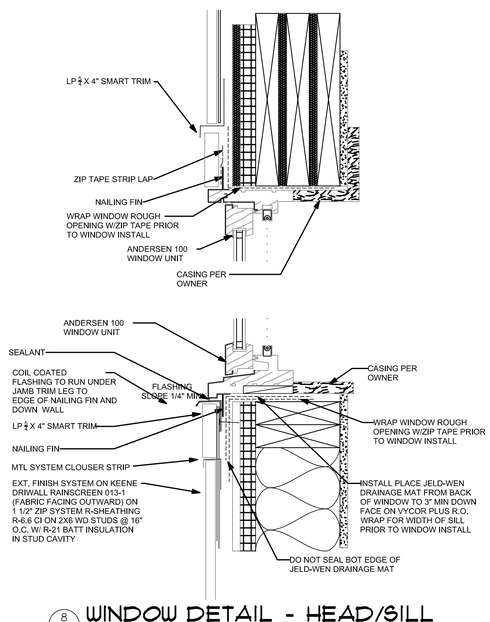

8 A5.03 WINDOW DETAIL - HEAD/SILL
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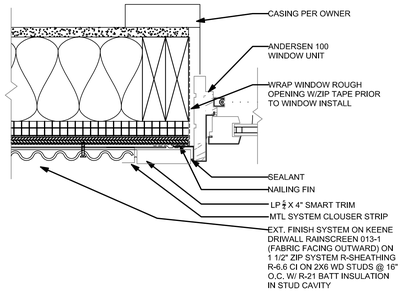

9 A5.03 WINDOW DETAIL - JAMB
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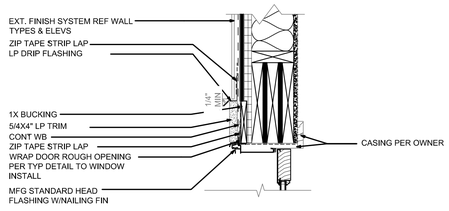
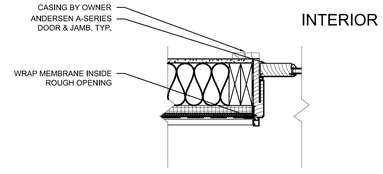
EXTERIOR INTERIOR



10 A5.03 DOOR DETAIL - INSWING HEAD TYP.
SCALE: 1 1/2"=1'-0"

INTERIOR



EXTERIOR

11 A5.03 DOOR DETAIL - INSWING JAMB, TYP.
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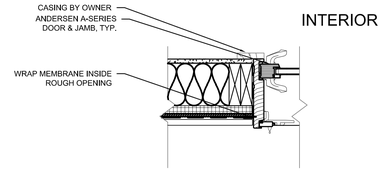
INTERIOR



EXTERIOR

12 A5.03 DOOR DETAIL - SLIDER JAMB, TYP.
SCALE: 1 1/2"=1'-0"

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Belden Place - Duplex Units
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20220609 Strut Coord
DRB-09/20/2024

Sheet Title:
Details

Project No:
2215

Sheet No:
A5.3

Minturn Planning Department
Minturn Town Center
302 Pine Street
Minturn, Colorado 81645

Minturn Planning Commission
Chair – Lynn Teach
Jeff Armistead
Michael Boyd
Amanda Mire
Eric Rippeth
Darell Wegert

Design Review Board Hearing

Final Plan Review for New Duplex Residence

0027-0029 Belden Way

Hearing Date:	October 23, 2024
File Name and Process:	Duplex Residence Final Plan Review
Owner/Applicant:	Alison Perry, Miners Base Camp LLC
Representative:	Greg Macik, TAB Associates, Inc.
Legal Description:	Subdivision: BELDEN PLACE PUD Lots: 8 and 9
Address:	0027-0029 Belden Way
Zoning:	South Town Character Area – Belden Place PUD Zone District
Staff Member:	Madison Harris, Planner I
Recommendation:	**Approval**

Staff Report

I. Summary of Request:

The Applicant, Alison Perry, requests Final Plan review of a nine bedroom, 5,717 (gross) square foot duplex structure located at 0027-0029 Belden Way in the South Town Belden Place PUD Zone District. The Applicant's representative, Greg Macik of TAB Associates Inc., has been proactive in meeting with Town staff prior to submitting plans for the new structure and has provided a relatively complete and thorough set of site, landscaping, and architectural plans.

Proposed Plans
The plans show a three-story with a basement duplex residence with a maximum building height - measured via a weighted height calculation approved in the Belden Place PUD Guide – of 27 feet and 4 9/16 inches, under the maximum allowable 28-foot limit within the South Town Belden Place PUD Zone District for duplex units.

Additionally, the massing, forms, and scale of the proposed structure, as well as proposed exterior materials, textures and detailing also appear to achieve the design objectives of Appendix B – *Design Guidelines and Standards*, Minturn Municipal Code.

Parking is adequate, with seven off-street spaces, with one unit having two spaces in the garage and two at surface level in front of the garage, and the other unit has one provided within the garage and two at surface level in front of the garage. The plans show the three levels plus a basement.

According to staff's analysis of development standards and dimensional limitations in Section III below the project appears to meet the Town's standards.

Overall, staff believes that the Applicants and their representative have provided a complete, detailed set of plans necessary to complete a thorough final plan review.

As a reminder, the Planning Commission has the option to review the proposal as a "conceptual" plan review if the Commission feels that the plans are *not* sufficient or are in need of revisions and additional review prior to final plan approval; or the Commission may take action to approve, approve with conditions, or deny the Final Plans.

Staff is **recommending approval**.

II. Summary of Process and Code Requirements:

These plans are being presented by the Applicant as "Final Plan" level of review for a duplex residential structure on two legally created lots within the Town of Minturn. This is a formal hearing providing the Applicant and staff the opportunity to discuss the proposal with the Planning Commission, acting as the Design Review Board, and to address the DRB's concerns or feedback regarding suggested revisions to the project.

If the DRB feels that the plans are complete, appropriate, and meet the intent and purposes of the Minturn Municipal Code, Chapter 16, the DRB has the option to take final action to approve the plans without conditions, or to approve with specific conditions and giving the Applicant and staff clear direction on any recommended revisions, additions or updates to the plans.
No variances are required or requested at this time.

Design Review Process
Appendix 'B' of the Minturn Municipal Code, Section 16-21-615 - *Design Review Applications*, subsection "d" below outlines the criteria and findings necessary for DRB review and approval of all new, major development proposals:

(d) Administrative procedure.

(1) Upon receipt of a completed and proper application, the application for Design Review will be scheduled for a public hearing. The hearing will be conducted in accordance with the procedures set forth in this Chapter.

(2) Criteria and findings. Before acting on a Design Review application, the Planning Commission, acting as the Design Review Board (DRB), shall consider the following factors with respect to the proposal:

a. The proposal's adherence to the Town's zoning regulations.
b. The proposal's adherence to the applicable goals and objectives of the Community Plan.
c. The proposal's adherence to the Design Standards.

(3) Necessary findings. The Design Review Board shall make the following findings before approving a Design Review application:

a. That the proposal is in conformance with the Town zoning regulations.
b. That the proposal helps achieve the goals and objectives of the Community Plan.
c. That the proposal complies with the Design Standards.

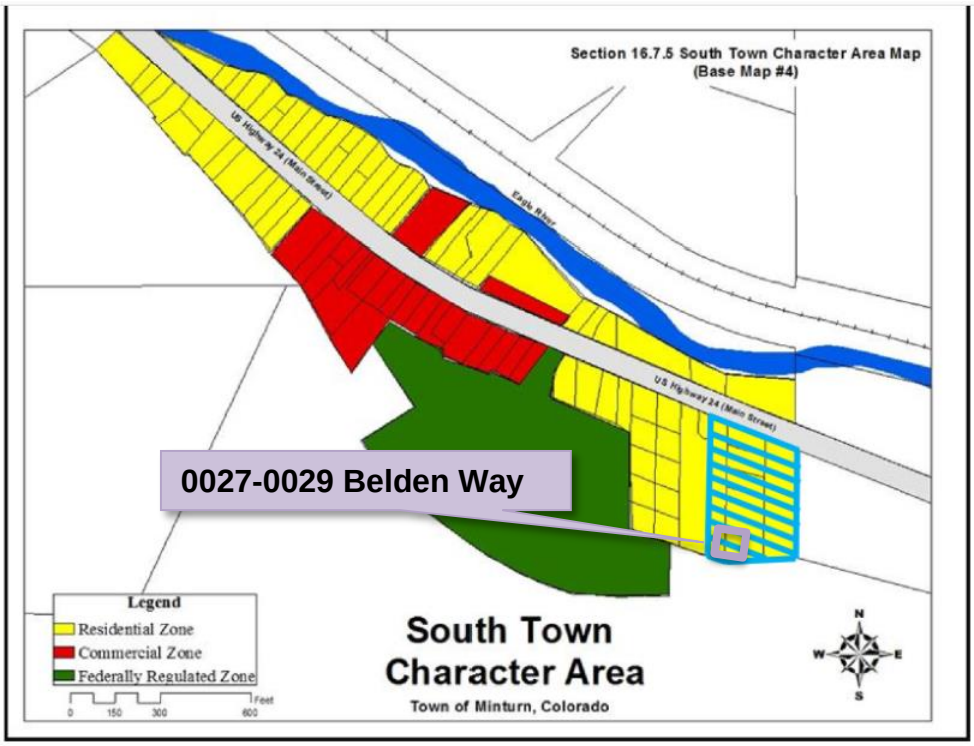
Staff suggests that the final plans for 0027-0029 Belden Way meet the required findings 'a,' 'b,' and 'c' or subparagraph 3 – *Necessary findings*.

III. <u>Zoning Analysis</u>:

Zoning

The subject property is located within the "South Town Character Area" Belden Place PUD Zone District

Figure 1: Game Creek Character Area Zoning Map



- PUD Overlay Zoning

Dimensional Limitations and Development Standards

The following table summarizes the lot, development and dimensional standards and limitations applicable to the subject property pursuant the approved Final Development Plan for the Belden Place PUD.

Regulation	Allowed/Required	Proposed/Existing
Minimum Lot Area:	3,453 sq. ft.	3,453 sq. ft. (.079 ac.)
Maximum Building Height:	28 feet	27 feet – 4 9/16 inches
Minimum Front Setback:	6 feet	6+ feet
Minimum Side Setback:	5 feet	5 feet
Minimum Rear Setback:	5 feet	5 feet
Maximum Lot Coverage:	65% (2,244.45 sq. ft.)	1,994 sq. ft. (57.75%) Proposed
Maximum Impervious Coverage:	65% (2,244.45 sq. ft.)	2,141 sq. ft. (62.00%) Proposed

Minimum Snow Storage Area:	5% of Lot Area (3,453 sq. ft. x .05 = 172.65 sq. ft.)	173 sq. ft.
Parking:	7 spaces	7 spaces

IV. Applicable Standards and Design Guideline Criteria:

Design
In addition to the development standards listed above, the following general design principles are provided for reference.

Final Site, Grading and Drainage Design
The Minturn Design Guidelines encourage designs that integrate or account for site topography and existing conditions, surrounding conditions, solar orientation, placement on lots relative to streets and natural features, snow storage and snow shed from roof structures.

Mass and Form
The following excerpt from the Design Guidelines is applicable to the proposed home design:

"c. Massing and Scale

> *"**A simple central form with additive features shall be designed. This style creates visual interest and is appropriate for the community due to its compatibility with existing structures. Buildings and improvements should complement, rather than overpower, the adjacent natural and built environment.** Homes are encouraged to be sheltering in nature, with consistent setbacks from the street with prominent porches or overhanging eaves.*
>
> *"Building mass, form, length and height shall be designed to provide variety and visual interest while maintaining a scale that is similar or compatible to adjacent structures."*
>
> *-Town of Minturn Design Guidelines*

Staff Response:
Staff believes that the design and scale of the proposed structure incorporates a simple central form with additive features and is complementary to adjacent residential structures and character on nearby parcels. Staff further suggests that the scale of the project is appropriate and will not overpower surrounding natural and built environments. Proposed roof forms and pitches, materials and textures are compatible and complementary to the surrounding built and natural environments.

V. Items of Note:

Items of Note
Staff has identified no items of note.

VI. Staff Recommendation:

Staff suggests that the Final Plans for 0027-0029 Belden Way generally **comply** with or exceed the applicable provisions and/or minimum standards of Chapter 16 and the Town of Minturn Design Standards (Appendix 'B') of the Minturn Town Code.

Staff is **recommending approval** of the plans.

Inter-Mountain ENGINEERING
Civil Engineers & Surveyors

October 17, 2024

Madison Harris
Town of Minturn Planner
PO Box 309
Minturn, CO 81645

Re: 0029 and 0027 Belden Way
Lots 8 and 9, Belden Place PUD
DRB Resubmittal Review
Project No. 24-0001

Dear Madison:

We reviewed the plans entitled *"Belden Place; Lot 8 – 0013 Beldan (sp) Way; Lot 9 – 0027 Beldan (sp) Way, Minturn Colorado"* prepared September 20, 2024, by TAB Associates (Plans) included in the revised DRB application for Lots 8 and 9, Minturn North PUD. Our review was for compliance with the engineering requirements of Section 16-21-615: Design Review applications of the Minturn Municipal Code (MMC).

MMC Section 16-21-615 Section C:

Section (C) (2) Boundary Survey:
Paragraphs a through e:
Sheet 3 of 5 of the *"Final Plat: Belden Place PUD"* prepared by Slagel Survey Services has been included in the submittal. Sheet 3 of 5 includes a note incorporating the complete *"Final Plat, Beden Place PUD"* by reference as part of the Application. The Plat and associated title commitment were reviewed by the Town and fulfill the requirements as the Boundary Survey for this application.

Paragraphs f through l:
Sheets C.110 and C.111 of the *"Belden Place PUD – Final Plan Submittal*" prepared by Timberline Engineering have been included in the application. A note is included on Sheet C.111 incorporating the complete *"Belden Place PUD – Final Plan Submittal"* by reference a part of the Application. These plans are the basis of the design and fulfil the requirements of paragraph f through i.

Madison Harris
Re: 0029 and 0027 Belden Way
Lots 8 and 9, Belden Place PUD
DRB Resubmittal Review
Project No. 24-0001

Section (C) (3) Site Plan:
Sheets C.1 and C.2 of the Plans "*Belden Place – Units 8-9 Duplex "* revised October 14, 2024, by Timberline Engineering presents the proposed site plan. These plans fulfil the Site Plan requirements of the MMC:

a. ~~Please add a note to the construction plans requiring copper water service lines extending from the curb stop into the building~~. ***Resolved***. *The revised plan notes Type K copper service lines are required.*
b. Sheet A3.1 provides Building height information for Planning Staff review.

Section (C) (4) Grading & Drainage Plan:
Sheets C.1 and C.2 of the Plans "*Belden Place – Units 8-9 Duplex "* prepared September 7, 2024, by Timberline Engineering presents the proposed site grading. site grading. These plans fulfil the Grading and Drainage Plan requirements of the MMC.

Review by Inter-Mountain Engineering is for general conformance with Minturn Municipal Code requirements and is not a peer review. Review by Inter-Mountain Engineering in no way relieves any responsibilities of design professionals associated with the project.
Please feel free to contact us if you have additional questions.

Respectfully,
Inter-Mountain Engineering (Town Engineer)

Jeffery M. Spanel PE

CC: Scot Hunn, Arnold Martinez

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner@minturn.org

Project Name:

Belden Place - Duplex Lots 8 AND 9

Project Location

Street Address: 0029 and 0027 Beldan Way

Zoning: PUD

Parcel Number(s): L10-210335113009

L11-210335113010

Application Request:

Design review for a duplex homes.

Applicant:

Name: Greg Macik, TAB Associates, Inc.

Mailing Address: 56 Edwards Village Blvd, Suite 210, Edwards, CO 81632

Phone: 970-766-1470 x107

Email: greg@tabassociates.com

Property Owner:

Name: Alison Perry, Miners Base Camp LLC

Mailing Address: PO Box 1134 Minturn, CO 81645

Phone: 970-306-2264

Email: perry@vailland.com

Required Information:

Lot Size: 3453 sf	Type of Residence (Single Family, ADU, Duplex) Duplex	# of Bedrooms 9	# On-site Parking Spaces 7
# of Stories: 3 + Basement	Snow storage sq ft: 173	Building Footprint sq ft: 1994	Total sq ft Impervious Surface: 2141

Signature:

Greg Macik

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

DESIGN REVIEW APPLICATION

SUBMITTAL CHECKLIST REQUIREMENTS
(TO BE INCLUDED WITH APPLICATION)

Applicant	Staff	
☐	☐	**Application Fee** (Non-Refundable application fee shall be collected) • Design Review Board - $200.00
☐	☐	**Letter of Intent** -- What is the purpose of the project including; • Relevant Background • Current Status of the Site • All Proposed Uses and Structures • How the Proposal Differs from what already exists • Information regarding Easements or Dedicated Tracts, etc.
☐	☐	**Vicinity Map** -- Directional Map indicating how to get to the Property involved in the request. • Zoning of Property
☐	☐	**Improvement Location Certificate of Survey (ILC or ILS)**

☐	☐	**Site Plan showing Precise Nature of the Proposed Use – To Scale**
		•
		• Scaled Drawings of Proposed Design of Structure
		  ○ Plan View and Sections
		• Building Heights – all 4 directions N/S/E/W
		• topography
		• Building Location
		• Setbacks
		• River or Creek Setbacks
		• Parking Plan
		• Traffic Circulation
		  ○ Location and Width of Existing and Proposed Access Points
		  ○ Location of Existing Driveways and Intersections
		• Landscaped Area – Plan
		• Approximate Location of Existing Wooded Areas and Rock Outcrops
		• Location and Type of Existing and Proposed Easements
		• Utility Easements
		• Drainage Features

☐	☐	**Preliminary Building Plans and Elevations** • Indicates Dimensions • General Appearance • Scale • Interior Plan for the Buildings

☐ ☐ **Elements needed on the Site Plan**

- Scale
- North Arrow
- Date Prepared
- Lot Dimensions, Area, Entire Site Acreage

☐ ☐ **Architecture Details – Materials Board**

- Windows – Placement and Color
- Doors – Placement and Color
- Siding – Type and Color
- Roof Material – Type and Color
- Paint Color

PLANNING COMMISSION
DESIGN REVIEW PROCESS

Applicants requesting a Design Review Board, Planning and Zoning Commission, and/or Town Council Review must submit to a pre-submittal conference and complete a formal application. The pre-submittal review process is completed within a period of 14 working days depending on the day of pre-submittal. The pre-submittal review provides valuable information regarding Town requirements for the formal application.

The Town Planner shall have the following powers and duties:

- **Zoning Compliance** – To review, consider, and approve, approve with conditions, or deny applications for building permits, limited use permits, conditional use permits, and temporary use permits based on compliance with this Section.
- **Process Applications** – To receive applications for development permits for processing pursuant to the terms of Section 16 of the Minturn Municipal Code.

Planning Commission as Design Review Board

Powers and Duties
The Planning Commission is hereby established as the Town of Minturn Design Review Board. The Design Review Board shall have the following powers and duties under the provisions of this Code.

1. To prepare, or cause to be prepared or amended, the Design Review Standards and Guidelines or any element or portion thereof, for adoption by the Town Council.

2. To hear, review, consider and approve, approve with conditions, or disapprove applications for Design Review Approval.

3. To hear and decide upon appeals on design review decisions made by the Zoning Administrator.

Board Procedure
The Town staff will forward applications (other than minor design applications), and recommendations, to the DRB.

The DRB shall review the application and supporting material submitted by the applicant, as well as the staff recommendation. After review, the DRB, through a formal motion, seconded and passed by a majority of the members present, shall take one of the following courses of action:

1. **Table the application**. The application may be tabled for a period not to exceed thirty (30) days if the application is incomplete or if the DRB determines that changes are required to bring the application into compliance with design standards and guidelines or other regulations of the Town. The Board may specify additional requirements for the applicant is to bring to the future meeting. These requirements may include additional information necessary to determine whether the application complies with all zoning, building, design codes adopted by the Town, and may include plans, reports, surveys or other documents completed by registered architects, surveyors, engineers or other professionals in order to indicate conformance with such codes. The DRB may also table the application if it determines that changes in the application are required which would bring the proposed project into compliance with zoning, building, design codes, and other regulations of the Town.

2. **Conceptual/Preliminary approval.** The DRB may grant conceptual approval to applicants who in a general fashion appear to meet design and other regulations of the Town but submit applications inadequate to warrant final approval. Conceptual approvals are also appropriate where a complete application has not been submitted, or where an applicant wishes to obtain a preliminary review of a sketch plan. A conceptual approval does not deem final approval of an application, nor does it deem that an application conforms to design or other regulations, nor shall it bind the DRB to grant final approval to a completed or final application.

3. **Disapproval of application.** If an application is found to conflict with the purposes and/or any one (1) or more of the design guidelines, codes or any other regulations of the Town, the DRB shall disapprove the application. Any disapproval shall be in writing and shall specifically describe the reasons upon which the disapproval is based.

4. **Approval of application.** If the application is complete and is found to comply with the design standards codes and other regulations of the Town, the DRB shall approve the project. The DRB shall keep a record of all such approvals, and the applicant should keep a copy of the approval. The DRB may approve an application with conditions or modifications. The DRB shall not approve an application that does not meet the requirements of the Town or any other provision required to ensure compliance with the design standards and guidelines, codes and other regulations of the Town.

If a motion for approval, for conceptual approval, or to table an application results in a tie vote, the motion will fail.

DESIGN REVIEW CRITERIA

1. SITE DESIGN

Site planning involves the design and location of buildings and other improvements on a property. General principles include the maximization of site attributes such as views and solar orientation while minimizing adverse impacts to adjacent properties and natural features. Design of the building(s) shall consider the following criteria:

a. Natural Features

(1) Topography

A building site that is flat or gently sloping at less than 10% shall comply with applicable minimum standards for setbacks as defined in Chapter 16.

A building site that slopes at greater than 10% is urged to consider “stepping” the structure rather than grading the site to allow for traditional building layout. The intent is to avoid large cuts and/or fills as well as retaining walls, and to avoid the need for additional erosion control measures.

Setbacks may be increased for lots that slope greater than 30%.

(2) Water Bodies

Setbacks from water bodies shall include consideration of the Eagle River, tributary creeks, ponds, and wetlands. In addition to the regulatory setbacks, the Town of Minturn encourages conformance with the Eagle River Watershed Plan and sensitive design to protect the riparian areas and to utilize the water bodies for passive recreational purposes. The Town discourages “turning your back” on the Eagle River, one of Minturn’s greatest assets.

Site grading and drainage plans shall be submitted with design review applications that are adjacent to or within fifty (50) feet of a water body.

b. Orientation

The orientation of improvements shall consider adjacent properties as well as snow storage, snow shedding, and solar orientation. Another important component of orientation is drainage impact to adjacent properties, water bodies and streets.

Snow Storage, Snow Shedding and Solar Orientation

The atmospheric and weather-related elements common of the Town of Minturn justify the added dimension of sitting improvements to minimize the impact of the environment.

Adequate snow storage area(s) or provisions for removal shall be provided. The total area may be broken up or provided as a whole. Location within the required setbacks shall be permitted provided it does not impede adequate and safe access to the structure(s). Landscape areas may also be used for snow storage purposes.

Snow shedding shall be considered in the use of material and pitch of the roof, as well as the location of windows, door and walkways. In no case shall snow shedding be permitted to occur onto an adjacent property.

Solar orientation shall be considered in the siting of the structures as well as in the landscaping of the lot or parcel. Orientation of the structure, as well as placement of trees, can be utilized to block prevailing winds in the winter and to provide shade in the summer. The structure should be placed on the lot in a manner that will not cast substan

shadows over adjacent properties. Walkway and driveway location shall consider snowmelt in de location. These considerations include locating driveways, walkways, and structures, so that they are sheltered from the wind, and oriented to the east or south, where possible, to aid quicker snow and ice melt.

The front of the structure and its primary entrance shall be oriented to the street.

c. Massing and Scale

A simple central form with additive features shall be designed. This style creates visual interest and is appropriate for the community due to its compatibility with existing structures.
Buildings and improvements should complement, rather than overpower, the adjacent natural and built environment. Homes are encouraged to be sheltering in nature, with consistent setbacks from the street with prominent porches or overhanging eaves.

Building mass, form, length and height shall be designed to provide variety and visual interest while maintaining a scale that is similar or compatible to adjacent structures.

2. ARCHITECTURAL ELEMENTS

a. Roof Pitch and Form

Roofs are a very prominent visual element and can be used to provide strong unifying characteristics between buildings. The use of consistent roof form, materials, slope and direction can create a cohesive appearance to a neighborhood even when the architectural styles vary. Roof pitch and form are an important element of building design in the Town.

The incorporation of dormers into the roof form can be utilized to provide individual identity and to create and delineate upper living areas or lofts. Dormer roofs shall be similar in slope and material with the primary roof form. See Illustration.

Roofs shall be designed with consideration to snow accumulation and shedding. Entryways, garages and pedestrian areas shall be protected from potential snow shedding.

Chimneys may also be utilized as a unifying element. The size, location, and shape of chimney can be mimicked to provide a common feature in adjacent structures that have different architectural styles.

b. Facade

Vast expanses of a blank facade are not considered appropriate in Minturn due the mass and scale of the existing buildings in the Town. Therefore, facades must be interrupted every 15' at minimum. This interruption can occur through the use of projections and recessions for doors and windows, balconies or porches or any other element that creates visual interest. The use of architectural elements such as horizontal and vertical architectural details and floor articulation (delineation of ‘floors’ in a building) can be utilized to create a vertical human scale to the structure.

Windows and doors offer the opportunity to provide individual character and refinement of scale by introducing openings and patterns on otherwise blank walls. Consideration should be given to locating doors and windows in order to establish symmetry on primary facades, while being responsive to interior functions and views. The location of windows and doors can also be utilized as a unifying element with adjacent structures.

In order to maintain a smaller scale and to avoid the use of vast expanses of large windows, window openings should be composed of multiple panes of glass that are consistent with the scale of the building. Mirrored or reflective glass is prohibited.

Shutters and window boxes are encouraged to create visual interest and to reinforce the Town ambiance.

c. Building Details

The requirement for a simple building form allows for the introduction of building details to create character and interest. These details may include elements such as accents to doors and windows, porches, gates, dormers and chimneys.

3. MATERIALS AND SCREENING

a. Materials

The use of building materials is essential to the design and appearance of a structure, therefore the use of materials is indicative of the adjacent community character. Materials shall be consistent with adjacent properties and the natural environment. The Town of Minturn does not seek to limit or prohibit the use of specific building materials

however the use of non-reflective materials are strongly encouraged. Highly reflective roofing m allowed.

The historic character of Minturn is exhibited in the use of wood siding and native stone, therefore the use of these particular materials are encouraged. Many modern equivalents can be found which mimic the natural materials, and the Design Review Board may approve such materials if their appearance is found to be compatible with adjacent material and consistent with the intent of these standards and guidelines.

b. Streetscape and Landscape Design

Small towns evoke many images, but one that appears to be consistent with many residents is the neighborliness of the area. Porches, plaza, parks and simply strolling down the street allow neighbors and visitors to meet and greet each other and to get to know one another. The Town encourages the man-made elements that promote these activities, and in some instances the Design Review Board shall require the provision of streetscape improvements to encourage and reinforce the small town atmosphere.

Porches and awnings are encouraged for all residential design as these elements create and encourage a human scale that is consistent with the small town image. Commercial structures, particularly those that are located in renovated residential units, shall maintain these elements and incorporate the use of pedestrian walkways, street furniture such as benches and trashcans where possible. Commercial developments that exceed 2500 square feet of gross leasable area shall be required to provide a plaza area that incorporates these elements.

Landscape standards are defined in Section 16.17.14, 15 and 16 and shall be reviewed with all applications for design review. Compliance with the minimum standards defined within those sections shall be required. The Design Review Board shall review the list of plant material to be utilized, particularly for determination of irrigation requirements. Exhibit B lists plant materials that are suitable for use in the Town, drought-resistant and therefore their use is encouraged. Other plant materials listed that require substantial water and therefore the Design Review Board may require the provision of an irrigation system and the provision of collateral to assure its completion.

c. Screening

Both residential and commercial areas within the Town shall be required to screen certain visually obtrusive areas, including, but not limited to, refuse storage, general storage, loading areas, mechanical equipment and parking areas.

The screening may occur with landscaping, compliant with Section 16.17.14. 15 and 16, or these uses may be screened with fencing or by containing the uses within a structure or parapet walls. Fences shall not exceed 3-feet in height for opaque fences and 4 feet in height for fences with you can see through. Higher fences may be used to screen the sides and rear of the lot but should not exceed 6 feet in height. In no case shall a fence or screening structure obstruct a driver's view of an intersection.

Additional information regarding the Design Review processes and guidelines including the Character Areas can be found in Chapter 16, Appendix B of the Minturn Town Code.

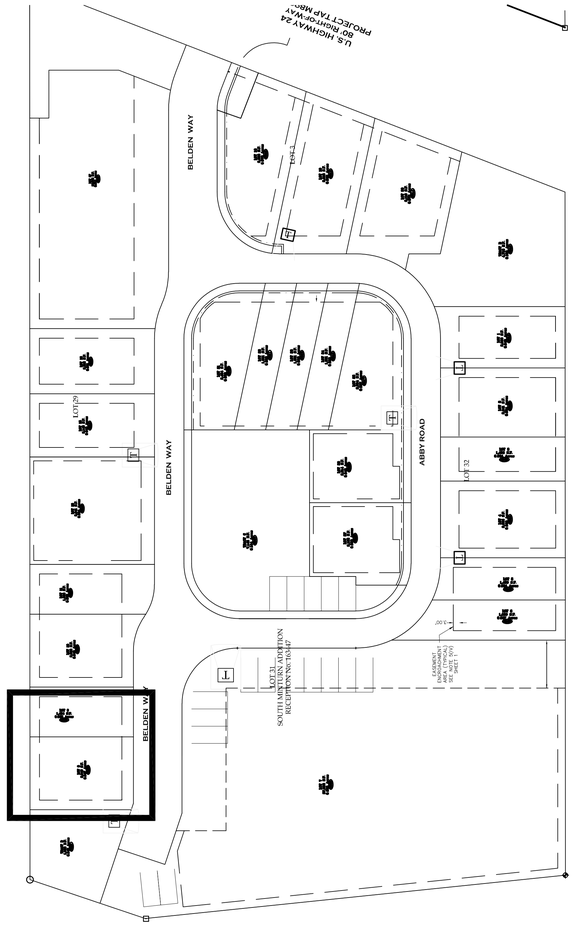
Belden Place

Lot 8 - 0029 Beldan Way

Lot 9 - 0027 Beldan Way

Duplex Residences

Minturn, Colorado 81645



Design Review Submittal

09/20/2024

A0.00	COVER SHEET
A0.02	PUD GUIDE INFORMATION
	FINAL PLAT
C1.110	SURVEY
C1.111	OVERALL DEVELOPMENT SITE PLAN
C.1	SITE PLAN & UTILITY PLAN
C.2	GRADING, DRAINAGE & EROSION CONTROL PLANS
C.2	DETAILS AND CROSS SECTION
A1.1	LANDSCAPE PLAN AND DETAILS
A2.1	GROUND AND BASEMENT FLOOR PLANS
A2.2	MAIN AND UPPER FLOOR PLANS
A2.3	ROOF PLAN
A3.1	EXTERIOR ELEVATIONS
A3.2	MATERIALS
A3.3	RENDERINGS
A4.1	SECTIONS
A5.1	DETAILS
A5.2	DETAILS
A5.3	DETAILS

Vicinity Map

TAB Associates

The Architectural Balance

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fax: (970) 765-1471
email: tab@vail.net
www.tabassociates.com

Civil Engineer:
Timberline Engineering
(970) 963 9889

Structural Engineer:
KRM Consultants, Inc.
(970) 949-9391

Seal

Belden Place - Duplex Units
Lots 8/ 0029 Beldan Way & 9 / 0027 Beldan Way
Minturn, Colorado 81645

Revisions:

Issue Dates:
20220609 Strust Coord
DRB-09/20/2024

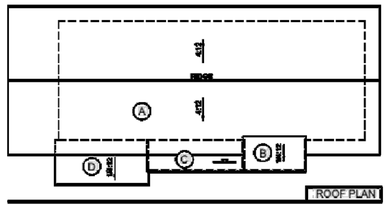
Sheet Title:
Cover

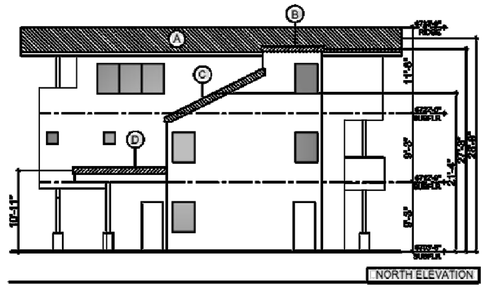
Project No:
2215

Sheet No:
A0.00

BELDEN PLACE PUD GUIDE INFORMATION
The following is an abrieviated verision of information found in the PUD guide.

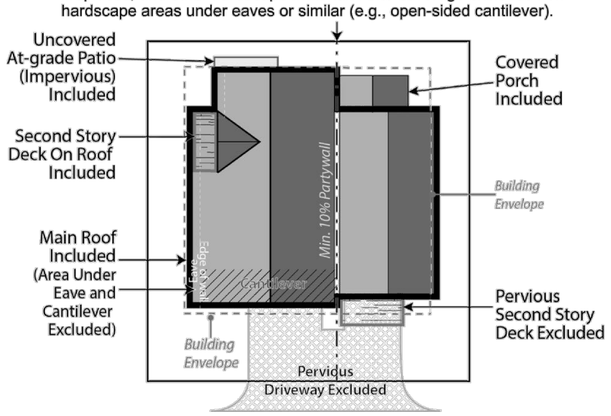
Building Height. Determining building height uses a weighted height calculation as measured from final/finished grade. Max heights - 28' for single famil and duplex, 35' for Row Houses and Flats.





ROOF MARK	ROOF AREA SQ	ROOF AREA %	AVG HEIGHT	WEIGHTED AVG
A	[illegible]	[illegible]	[illegible]	[illegible]
B	[illegible]	[illegible]	[illegible]	[illegible]
C	[illegible]	[illegible]	[illegible]	[illegible]
D	[illegible]	[illegible]	[illegible]	[illegible]
TOTAL:	[illegible]	100.0	=	[illegible] / 100 = [illegible] AVG ROOF HT

Site Coverage. Site coverage means the portion of a lot covered by materials forming any unbroken surface, impervious to water including, but not limited to: buildings, streets, slab on-grade patios, exterior fireplaces, and other hardscape materials. Site coverage excludes non-hardscape areas under eaves or similar (e.g., open-sided cantilever).



BUILDING PLACEMENT AND ENVELOPES
Residential building envelopes are necessary in order to maximize the buildability and economic viability of the lots while offering greenspace and or space between neighbors to the greatest extent possible. All portions of structure- including fireplaces, chimneys, window wells, eaves, overhangs, etc. must be contained within property lines; however, with the platted building envelope acting as building setbacks for each lot, encroachments are available for certain features.

The following encroachments are permitted beyond the platted building envelope:

Unenclosed or uncovered decks; deck supports; eaves up to 18" beyond the envelope; porches, patios and landings less than 30" above the surrounding natural or finished grade; window or light wells; heat or A/C units; residential solar alternative energy installations; fences; counterforts below grade; staircases (enclosed or otherwise); structures of less than 6" in height; landscaping and drainage features. No encroachment may be located within 24" from the property line or directly on top of in-ground utility easements. Underground parking elements and staircases may encroach within 12" of the most southern property line on Lot 7.

1. SINGLE-FAMILY DETACHED

a. Style
(1) Residences with the same architectural elevations and coloring shall not be placed adjacent to each other or directly across the street from one another.
(2) Each residential unit type shall have at least two (2) elevations to provide stylistic diversity. This may include:
i. Roof forms/lines and profiles
ii. Varied window and door styles
iii. Varied entry treatments and locations including porches, columns, etc.
iv. Two or three story homes
v. Second or third story decks or balconies

b. Building Form
(1) The mass of the residence should strongly reflect the architectural style and be scaled to provide visual interest and depth, reduce boxiness and achieve an articulated form on the front and sides of the homes.
(2) Roofs shall be designed and pitched accordingly in consideration of solar technology and/or drainage.
(3) Roof-top decks are permitted only on certain lots as established by developer and cannot be added on buildings not constructed with this initial feature.

2. DUPLEX/TRI-PLEX or MULTIFAMILY STRUCTURES

a. Style
(1) Structures shall have at least two (2) elevations to provide stylistic diversity.
(2) Units may be multi-stories.
(3) Units may be divided horizontally (townhomes) or vertically (flats).
(4) Second story decks or balconies permitted.
(5) Units have no minimum length of connection and may be joined via shared walls of the garage, external staircases, or main living area wall(s) or floors.

b. Building Form
(1) The mass of the residence should strongly reflect the architectural style and be scaled to provide visual interest and depth, reduce boxiness and achieve an articulated form on the front of the homes.
(2) Roofs shall be designed and pitched accordingly in consideration of solar technology and/or drainage.
(3) Roof-top decks are permitted only on certain lots as established by developer and cannot be added on buildings not constructed with this initial feature.

3. MATERIALS

a. Roofing materials are limited to the following:
(1) Artificial wood shingle (to mimic wood shake shingle). Treated wood shake shingles or any other combustible material is prohibited.
(2) Standing seam metal.
(3) Asphalt shingles.
(4) Imitation (composite or similar); or, real slate tiles.
(5) Non-reflective solar tiles that mimic the above-mentioned products
(6) Any other recommended FireWise materials similar to the above-mentioned products.

b. Siding materials are limited to the following:
(1) Metal
(2) Wood
(3) Composite siding
(4) Fiber cement board (commonly known as "Hardie Board")
(5) Stucco.
(6) Any other recommended FireWise materials similar to the above-mentioned products.
(7) All siding materials to have non-reflective finishes.

c. Doors and Windows:
(1) Structures with multiple garage doors must always have identical, matching doors.
(2) All replacement windows shall be consistent and match the aesthetic of previous windows unless otherwise approved by the design review board. Skylight or solar tubes permitted.
(3) Screen or storm doors, in addition to typical front doors are permitted. Screen or storm doors cannot replace front doors at any time.

d. Design Elements. This development may incorporate mountain appropriate design elements into the buildings, including, but not limited to, exposed heavy timber beams as accent elements or entry features, walls faced with wood, stone, faux stone or cultured stone, metal railings or accents. Stucco may only be utilized in small quantities on building facades and is not to be used as a primary material for home.

e. Building materials for residential exteriors shall include at least two (2) types of materials as part of the building façade.

I. LANDSCAPING – *See also PUD Landscaping Plan*
Shall not interfere with any drainage way, utility, pedestrian access, or entry into any structure. Landscaping shall not obscure windows, be installed under gas fireplace or dryer vents, nor shall any landscaping material overtake any yard, or spread into any common or neighboring yards.

Landscaping minimums:
1. At least one (1) tree per 1,200 sf of lot area and two (2) shrubs for all lots. *See also official Landscaping Plan for Belden Place.*
2. All landscaping proposed on the approved Landscaping Plan shall be installed initially with expectations for maintenance.
3. No exposed soil is permitted. Soil must be covered in groundcover that may consist of seed (includes wildflower seed), cobble, perennials, mulch, or similar.
4. All dead materials must be replaced during the same season death occurs.

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Civil Engineer:
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Structural Engineer:
KRM Consultants, Inc.
(970) 949-8381

Seal

Belden Place
Lots 8/ 0029 Beldan Way & 9 / 0027 Beldan Way
Minturn, Colorado 81645

Revisions:

Issue Dates:
20220609 Strust Coord
DRB-07/06/2024

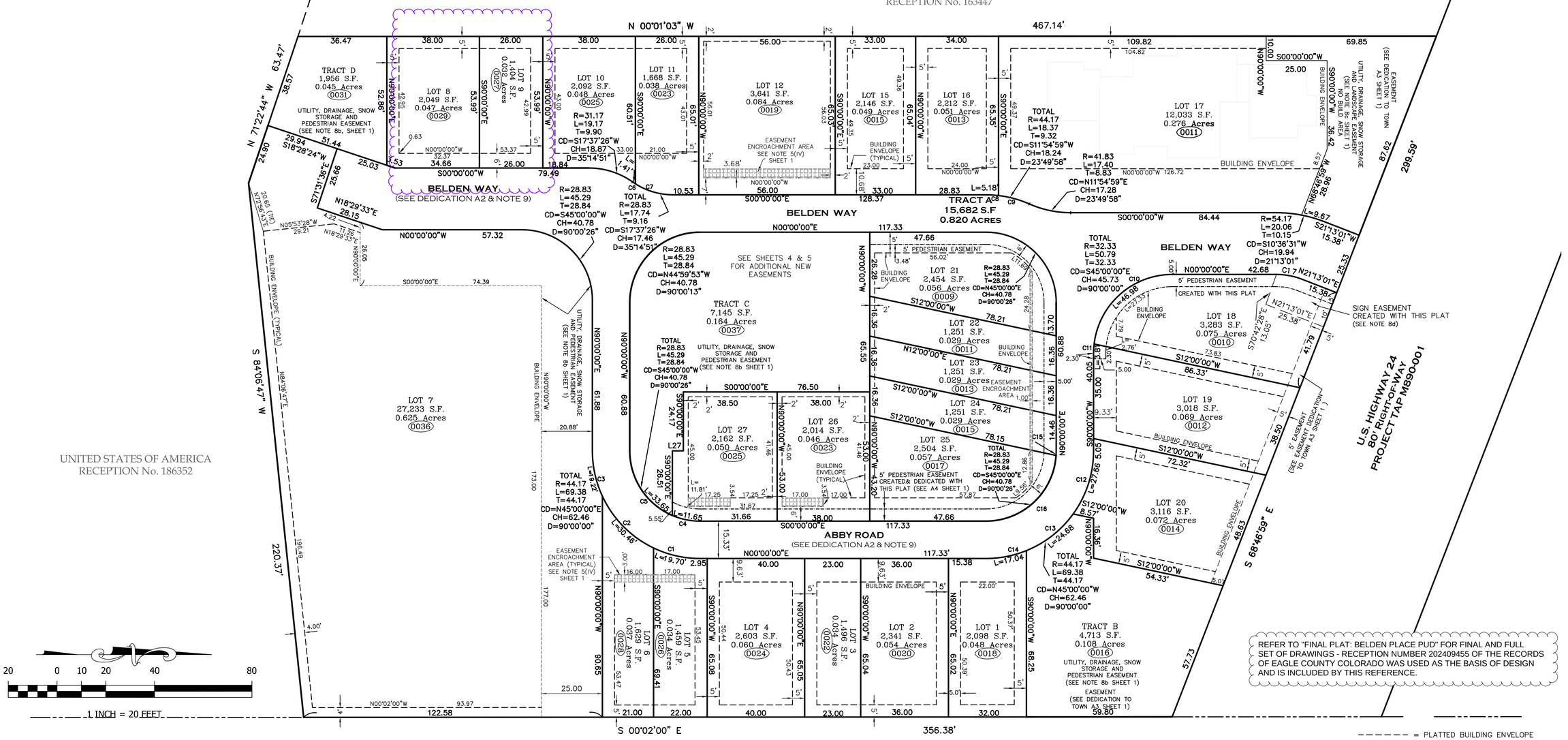
Sheet Title:
P.U.D. Information

Project No:
2215

Sheet No:
A0.02

FINAL PLAT
BELDEN PLACE, P.U.D.
Town of Minturn, County of Eagle, State of Colorado

SHEET 3 OF 5
SUBDIVISION



REFER TO "FINAL PLAT: BELDEN PLACE PUD" FOR FINAL AND FULL SET OF DRAWINGS - RECEPTION NUMBER 202409455 OF THE RECORDS OF EAGLE COUNTY COLORADO WAS USED AS THE BASIS OF DESIGN AND IS INCLUDED BY THIS REFERENCE.

= PLATTED BUILDING ENVELOPE
= PEDESTRIAN EASEMENT
= EASEMENT ENCROACHMENT AREA SEE NOTE 5(IV)

L27 = S00°00'00"W 4.50

CURVE TABLE

CURVE	LENGTH	RADIUS	Tangent	Chord	Chd Brng	Delta
C1	19.70	44.17	10.01	19.53	N12°46'33"E	25°33'06"
C2	30.46	44.17	15.86	29.86	N45°18'32"E	39°30'53"
C3	19.22	44.17	9.76	19.07	N77°31'59"E	24°56'01"
C4	11.65	28.83	5.91	11.57	N11°34'15"E	23°08'56"
C5	33.65	28.83	19.03	31.77	N56°34'28"E	66°51'30"
C6	1.41	28.83	0.71	1.41	N33°50'32"E	2°48'39"
C7	16.32	28.83	8.39	16.11	N16°13'06"E	32°26'12"
C8	5.18	44.17	2.59	5.18	S03°21'35"W	6°43'11"
C9	13.19	44.17	6.65	13.14	S15°16'34"W	17°06'47"
C10	46.98	32.33	28.73	42.95	S41°37'23"E	83°14'46"
C11	3.81	32.33	1.91	3.81	S86°37'23"E	6°45'14"
C12	27.66	44.17	14.30	27.21	N72°03'40"W	35°52'40"
C13	24.68	44.17	12.67	24.36	N38°06'40"W	32°01'20"
C14	17.04	44.17	8.63	16.93	N11°03'00"W	22°06'00"
C15	1.89	28.83	0.94	1.89	N88°07'42"W	3°45'03"
C16	43.41	28.83	27.01	39.42	N43°07'29"W	86°15'24"
C17	10.68	28.83	5.40	10.62	N10°36'31"E	21°13'28"

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVERED SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

PRELIMINARY

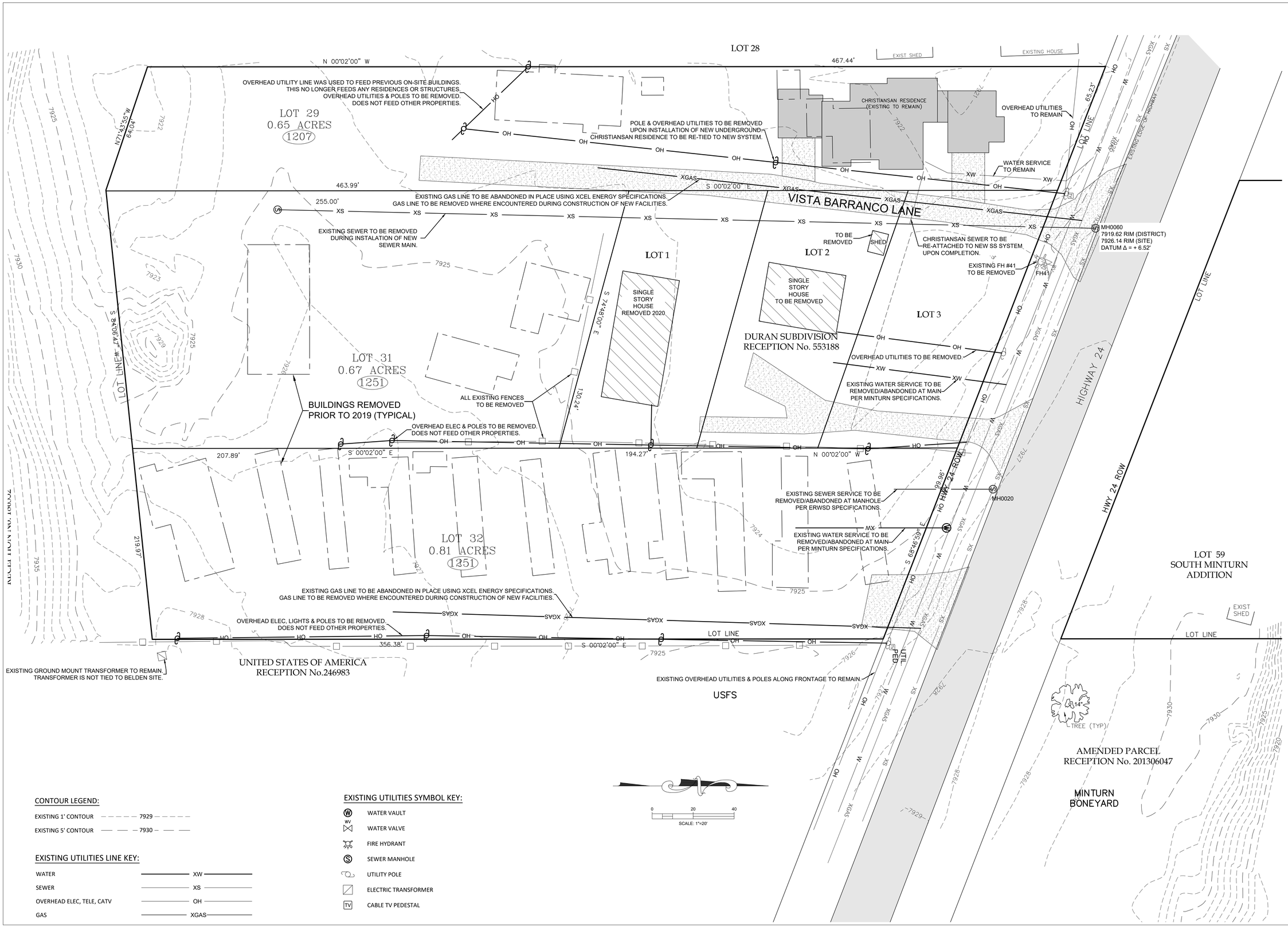
07-09-2024

Matthew S. Slagle PLS 34998
Professional Land Surveyor
State of Colorado

SLAGLE SURVEY SERVICES
800 Castle Drive - P.O. Box 751 Eagle, Colorado 81631
970.471.1499 Office matthew@slaglesurvey.com
www.SlagleSurvey.com

FINAL PLAT
BELDEN PLACE, P.U.D.
Town of Minturn, County of Eagle, State of Colorado

DRAWN BY: MSS	JOB NUMBER: 18029	DRAWING NAME: 18029_PUD-23.dwg
SHEET 3 OF 5		DATE: 11-11-2023



CONTOUR LEGEND:

EXISTING 1' CONTOUR — 7929 —

EXISTING 5' CONTOUR — 7930 —

EXISTING UTILITIES LINE KEY:

WATER	XW
SEWER	XS
OVERHEAD ELEC, TELE, CATV	OH
GAS	XGAS

EXISTING UTILITIES SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL

TIMBERLINE ENGINEERING llc CIVIL STRUCTURAL
218 E. Valley Rd. p 970.963.9869
SITE 104-PMB 177
Carbondale, Colorado 81623
timberlineengineering@gmail.com

COLORADO REGISTERED PROFESSIONAL ENGINEER DAVID JOHN ANDERSON 39276

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Belden Place - 12 Plex (Flats) Lot 7

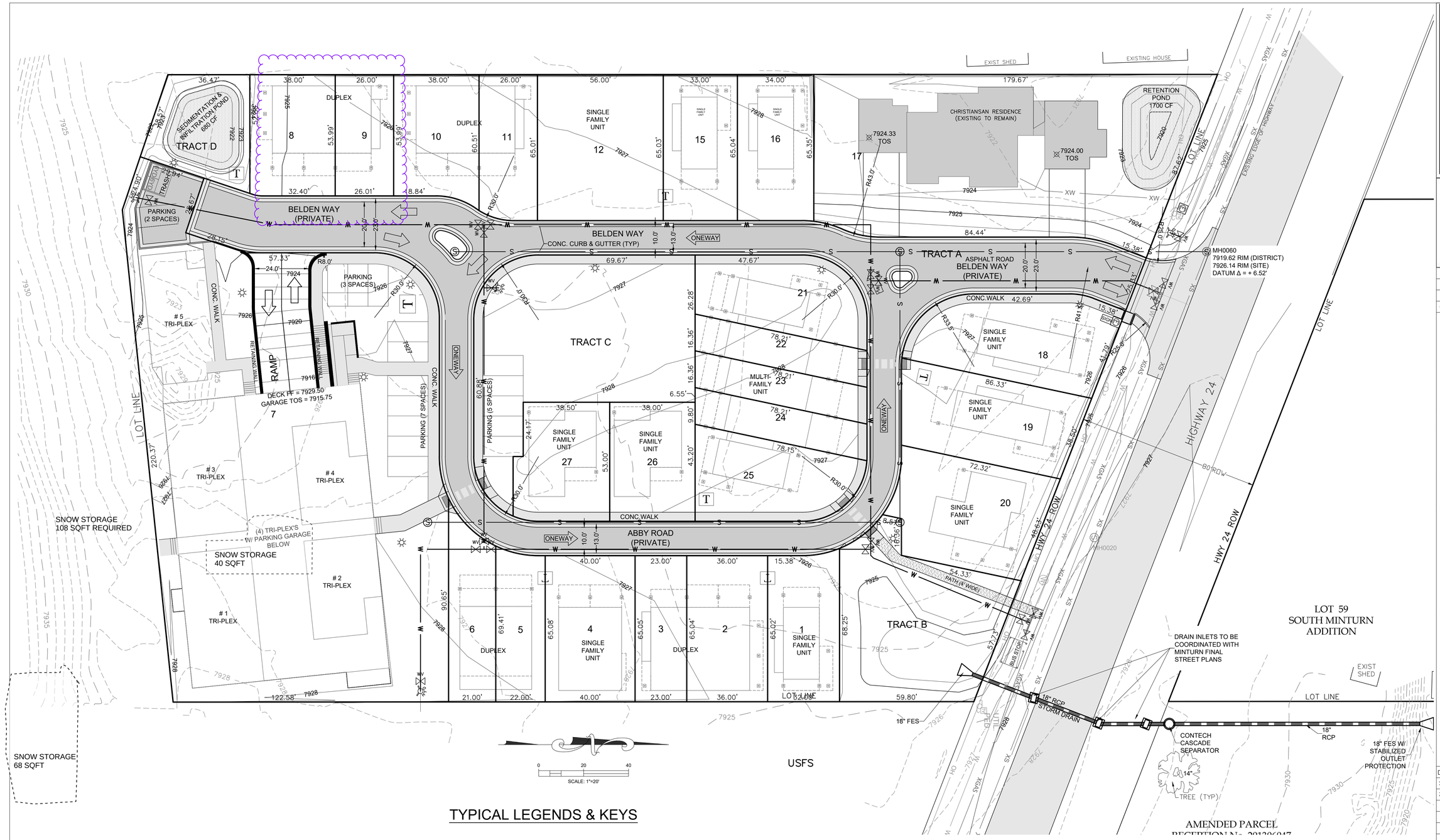
0036 Abby Road, Minturn, Colorado 81645

NOT FOR CONSTRUCTION

DATE	REVISION
2/15/22	Permit Set
7/29/24	Review comments 1

Title: EXISTING SITE & DEMOLITION PLAN

Sheet: C.110



TYPICAL LEGENDS & KEYS

AD	= AREA DRAIN
CFS	= CUBIC FEET PER SECOND
CONC	= CONCRETE
EC	= EDGE OF CONCRETE
EOA	= EDGE OF ASPHALT
EP	= EDGE OF PAVEMENT
EX	= EXISTING
FF	= FINISHED FLOOR
FG	= FINISHED GRADE
FL	= FLOW LINE
GD	= GRADE/GROUND
HP	= HIGH POINT
LP	= LOW POINT
TBC	= TOP BACK OF CURB
TD	= TRENCH DRAIN
TOS	= TOP OF SLAB
TOW	= TOP OF WALL
TYP	= TYPICAL
WH	= WALL HEIGHT
TOW	= TOP BACK OF WALK
EL	= ELEVATION
TOP	= TOP OF PIPE

CONTOUR LEGEND:

EXISTING 1' CONTOUR	7929
EXISTING 5' CONTOUR	7930
PROPOSED 1' CONTOUR	7929
PROPOSED 5' CONTOUR	7930

EXISTING UTILITIES LINE KEY:

WATER	XW
SEWER	XS
OVERHEAD ELEC, TELE, CATV	OH
GAS	XGAS

EXISTING UTILITIES SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL

PROPOSED UTILITY SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL
- ELECTRIC SPLICE VAULT
- STREET LIGHT

INDICATES DIRECTION OF TRAFFIC FLOW

LINE KEY:

WATER	W
SEWER	S

PARKING NOTES:

PARKING SPACES 9' X 18' MIN.

REFER TO "BELDEN PLACE PUD - FINAL PLAN SUBMITTAL" FOR FULL DEVELOPMENT SITE PLANE, PREPARED BY TIMBERLINE ENGINEERING DATE JULY 12, 2024, WAS USED AS THE BASIS OF DESIGN AND IS INCLUDED BY THE REFERENCE.

EARTHWORK:
5175 CYD CUT
8130 CYD FILL
2955 CYD NET <FILL>
(DOES NOT INCLUDE ONSITE HAUL-IN ±1000 CYD)

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Lot 7

0036 Abby Road, Minturn, Colorado 81645

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DATE	REVISION
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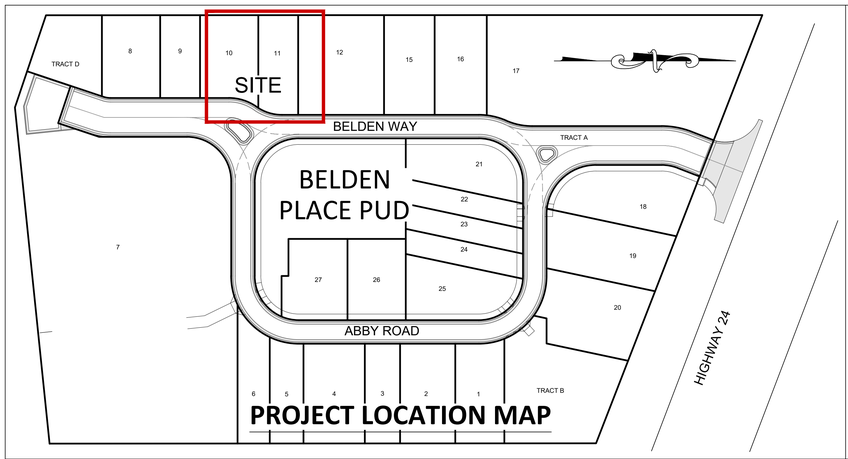
7/29/24	Review comments 1

Title: PROPOSED SITE PLAN

Sheet: C.111



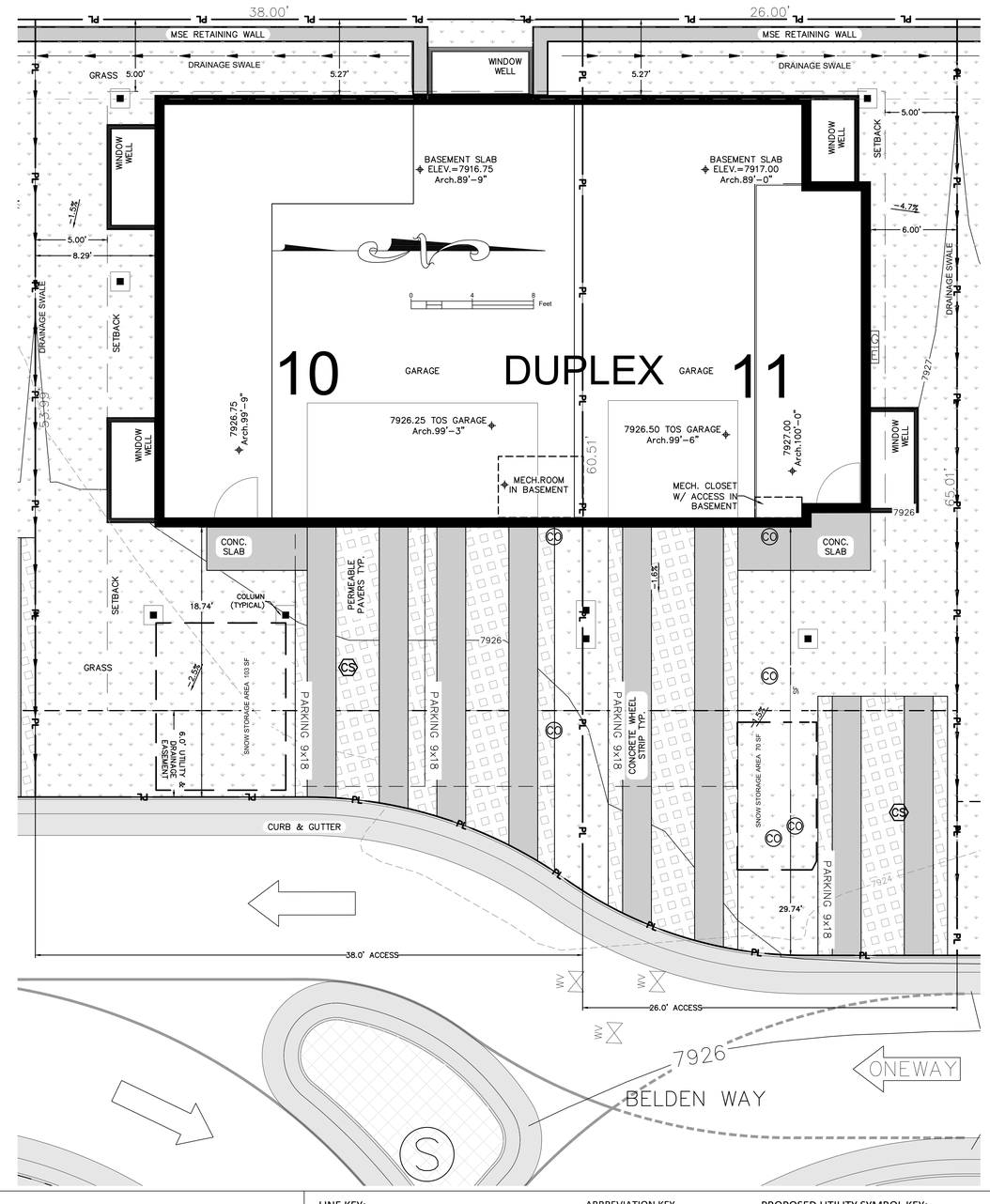
PROJECT LOCATION MAP

UNITS 10-11

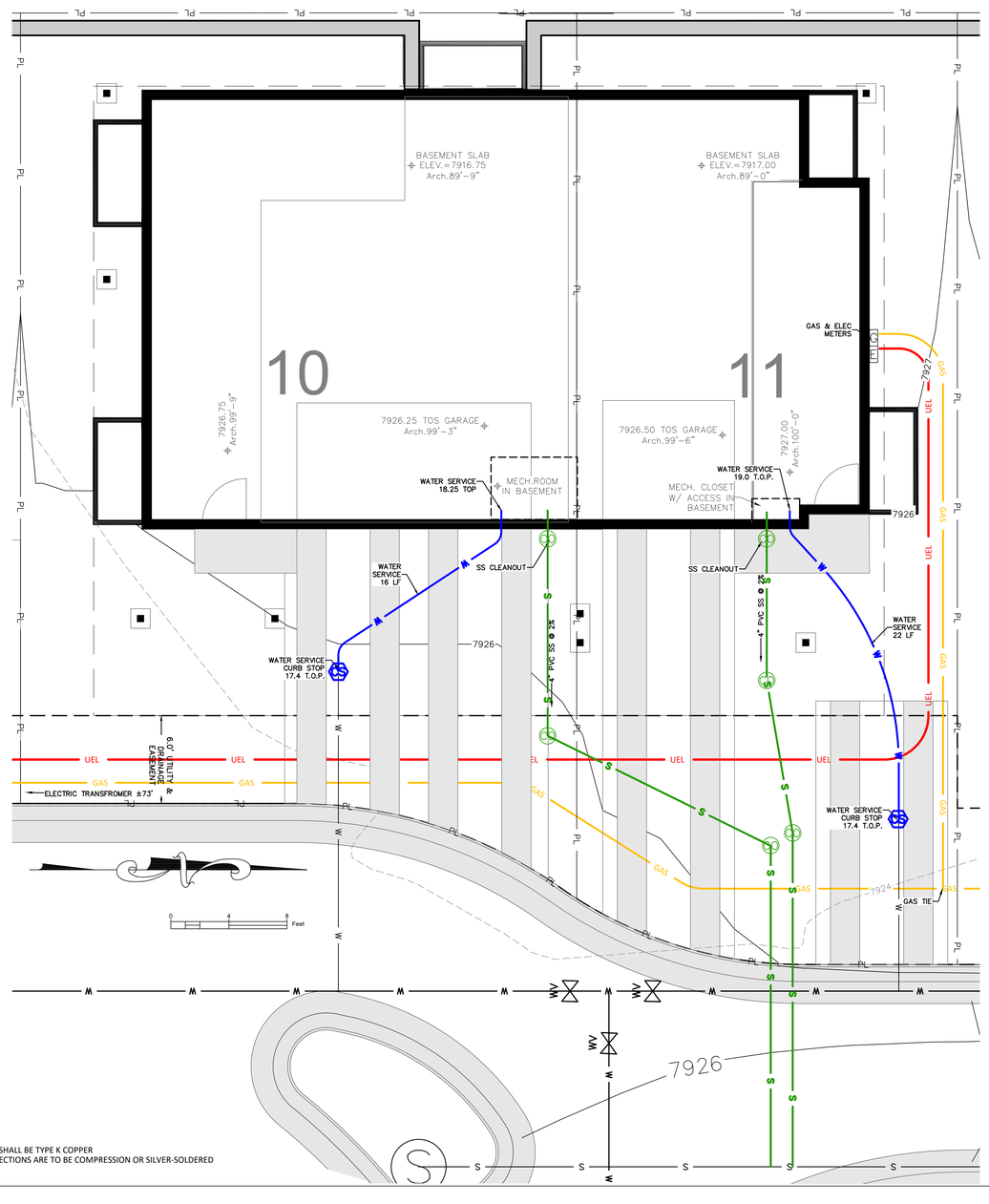
SHEET INDEX:

C.1 SITE PLAN & UTILITY PLAN
C.2 GRADING, DRAINAGE & EROSION CONTROL PLAN
C.3 DETAILS & CROSS SECTIONS

SITE PLAN



UTILITY PLAN



NOTES:
1. WATER SERVICE LINES SHALL BE TYPE K COPPER
2. WATER SERVICE CONNECTIONS ARE TO BE COMPRESSION OR SILVER-SOLDERED

LINE KEY:

WATER	W
SEWER	S
ELECTRIC	UEL
GAS	GAS
TELEPHONE	TEL
CATV	CTV
PROPERTY LINE	PL

CONTOUR LEGEND:

EXISTING 1' CONTOUR	7929
EXISTING 5' CONTOUR	7930
PROPOSED 1' CONTOUR	7929
PROPOSED 5' CONTOUR	7930

ABBREVIATION KEY

AD	= AREA DRAIN
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TYP	= TYPICAL
WH	= WALL HEIGHT
TOW	= TOP BACK OF WALK
EL	= ELEVATION
TOP	= TOP OF PIPE
WV	= WATER VALVE
WW	= WINDOW WELL

PROPOSED UTILITY SYMBOL KEY:

- WATER VAULT
- WATER VALVE
- FIRE HYDRANT
- SEWER MANHOLE
- UTILITY POLE
- ELECTRIC TRANSFORMER
- CABLE TV PEDESTAL
- ELECTRIC SPLICE VAULT
- WATER SERVICE CURB STOP
- SANITARY SEWER CLEANOUT
- STREET LIGHT

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8/25/24	DRB Coordination
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10/14/24	DRB updates

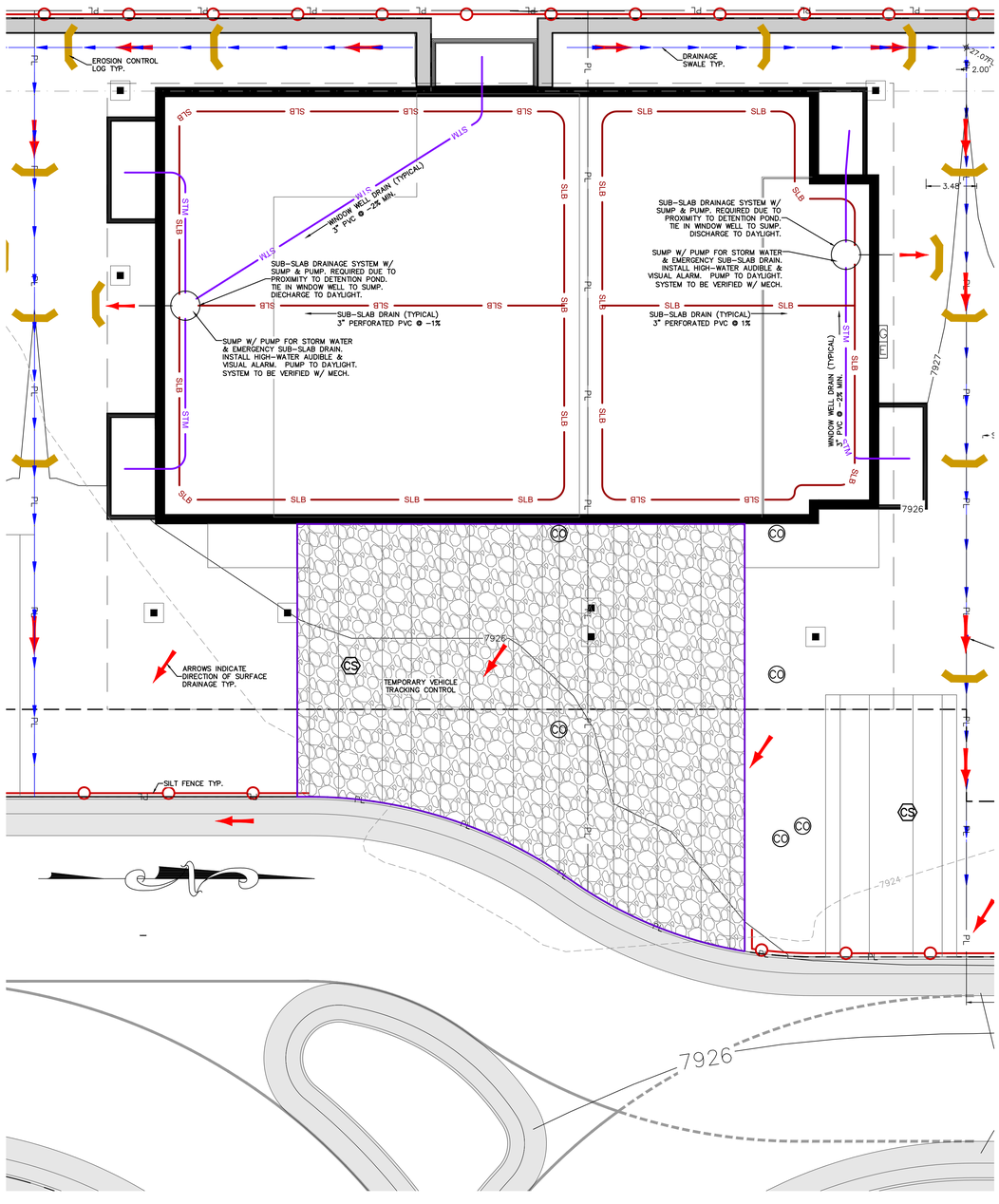
Title:

SITE PLAN & UTILITY PLAN

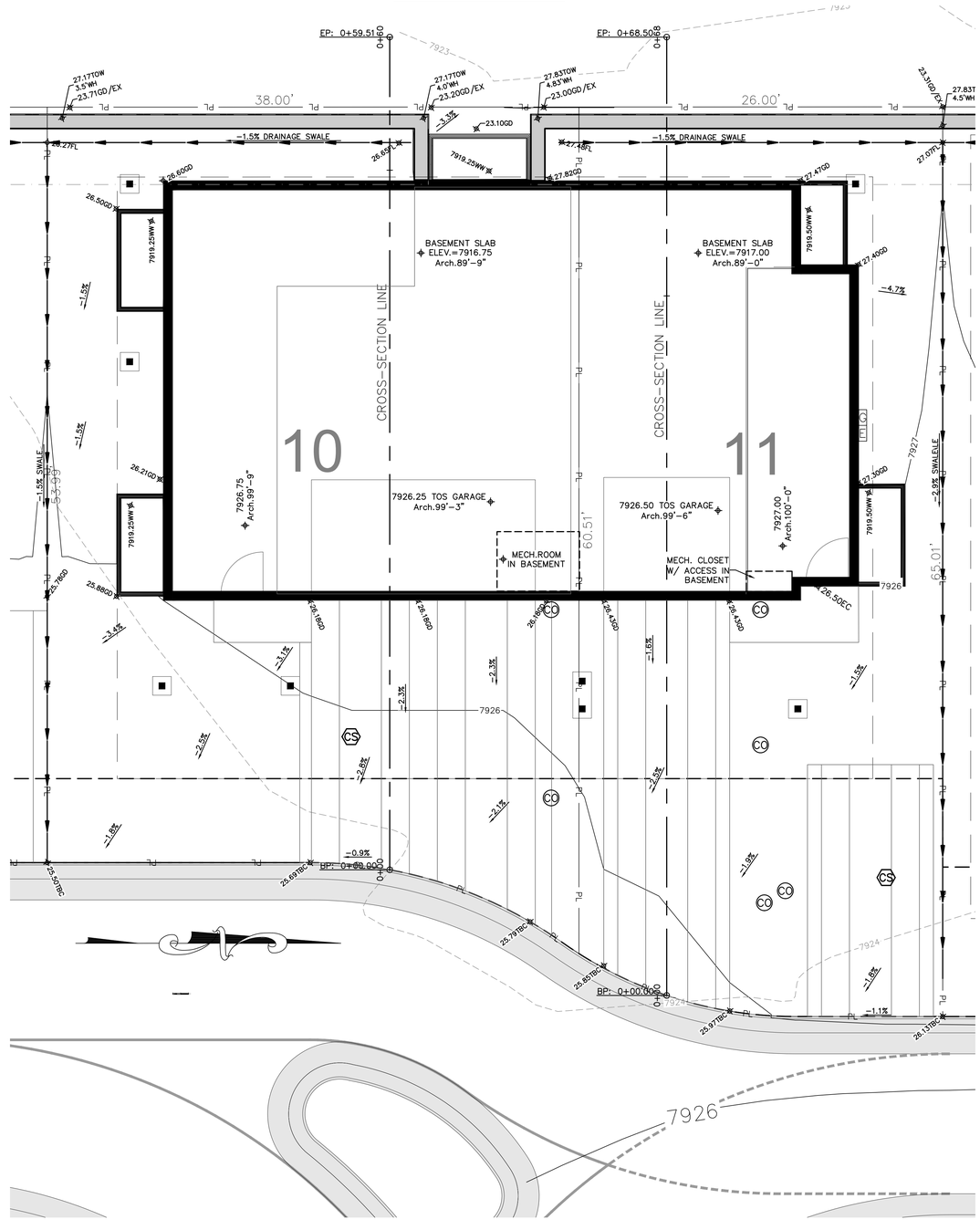
Sheet:

C.1

DRAINAGE & EROSION CONTROL PLAN



GRADING PLAN



LINE KEY:

WATER	W
SEWER	S
ELECTRIC	UEL
GAS	GAS
TELEPHONE	TEL
CATV	CTV
PROPERTY LINE	PL

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PROPOSED UTILITY SYMBOL KEY:

- WATER VAULT
- STREET LIGHT
- WATER VALVE
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- CABLE TV PEDESTAL
- ELECTRIC SPLICE VAULT
- WATER SERVICE CURB STOP
- SANITARY SEWER CLEANOUT

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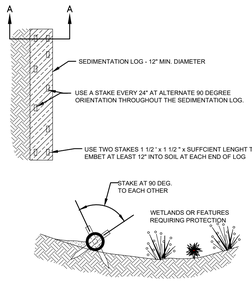
10/14/24	DRB updates

Title: GRADING, DRAINAGE & EROSION CONTROL PLANS

Sheet: C.2



SECTION A - A

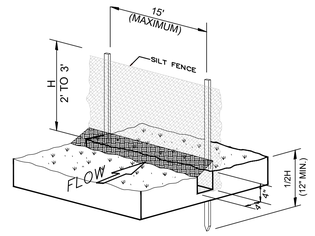
SEDIMENT CONTROL LOG INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
   - LOCATION AND LENGTH OF SEDIMENT CONTROL LOG.
2. SEDIMENT CONTROL LOGS INDICATED ON INITIAL SWMP PLAN SHALL BE INSTALLED PRIOR TO ANY LAND-DISTURBING ACTIVITIES.
3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2".

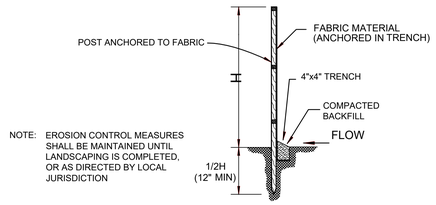
SEDIMENT CONTROL LOG MAINTENANCE NOTES

1. THE SWMP MANAGER SHALL INSPECT SEDIMENT CONTROL LOGS DAILY, DURING AND AFTER ANY STORM EVENT AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN ½ THE HEIGHT OF THE CREST OF LOG.
3. SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE COVERED WITH TOP SOIL, DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

EROSION CONTROL LOG DETAIL



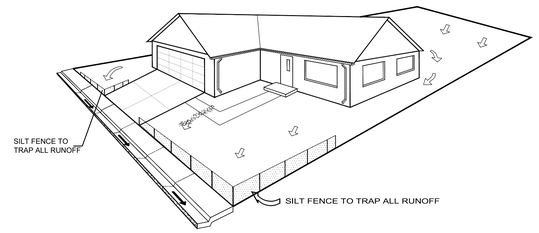
SILT FENCE INSTALLATION
-NTS-



NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL LANDSCAPING IS COMPLETED, OR AS DIRECTED BY LOCAL JURISDICTION

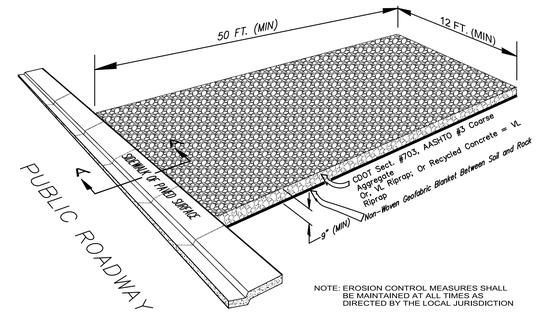
SECTION
-NTS-

SILT FENCE INSTALLATION DETAIL

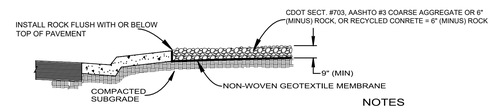


NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY LOCAL JURISDICTION

SILT FENCE PLACEMENT DETAIL



NOTE: EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE LOCAL JURISDICTION

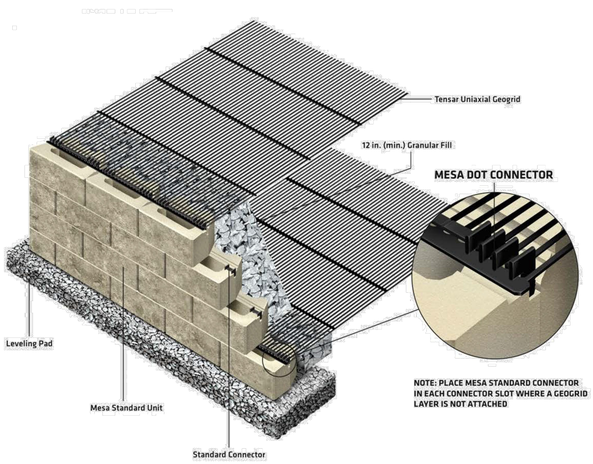


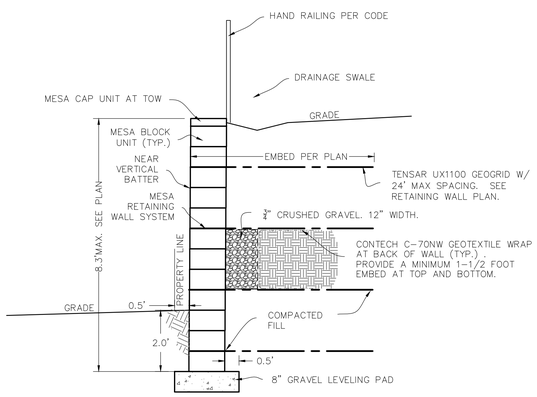
SECTION A-A
-NTS-

NOTES

1. ALL ROCK TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.
2. PUBLIC ROADWAY TO BE KEPT CLEAN AND FREE OF MUD, DIRT AND DEBRIS AT ALL TIMES.

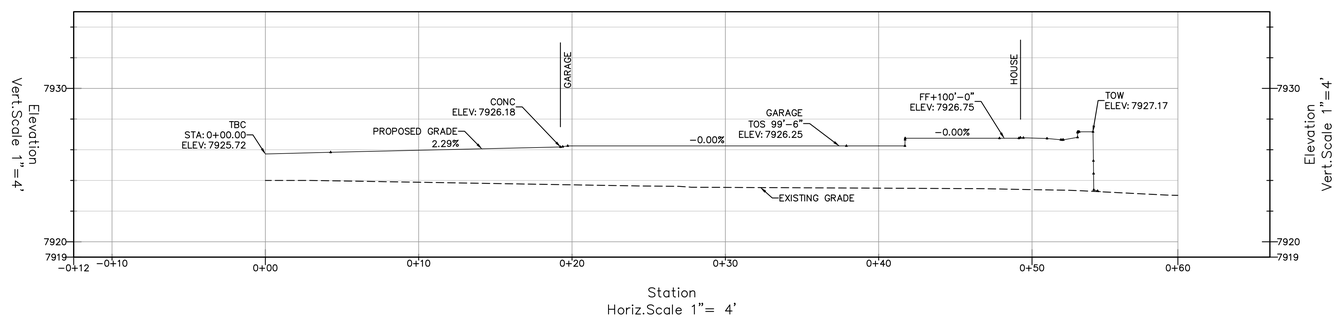
TEMPORARY VEHICLE TRACKING CONTROL DETAIL



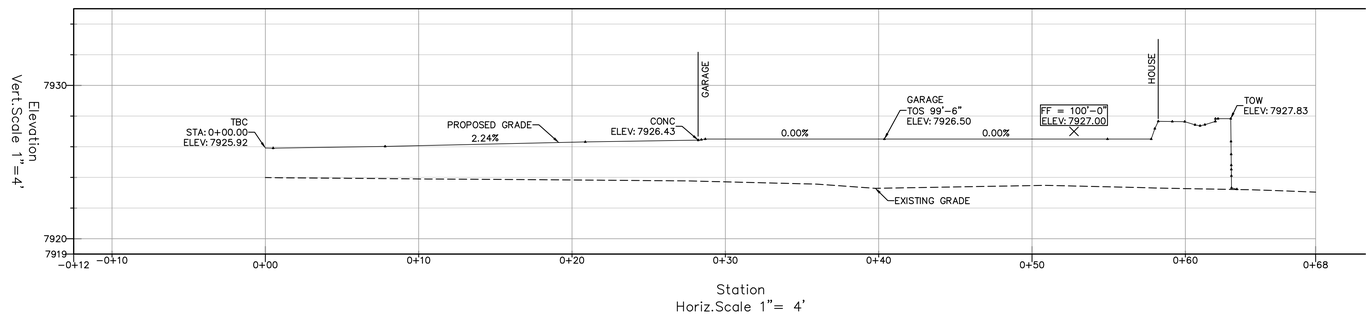


RETAINING WALL DETAIL

UNIT 10 SECTION



UNIT 11 SECTION



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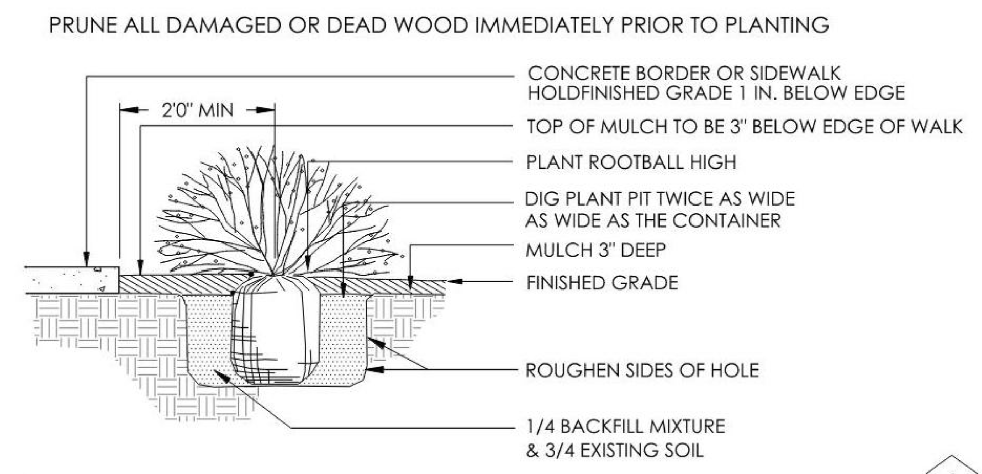
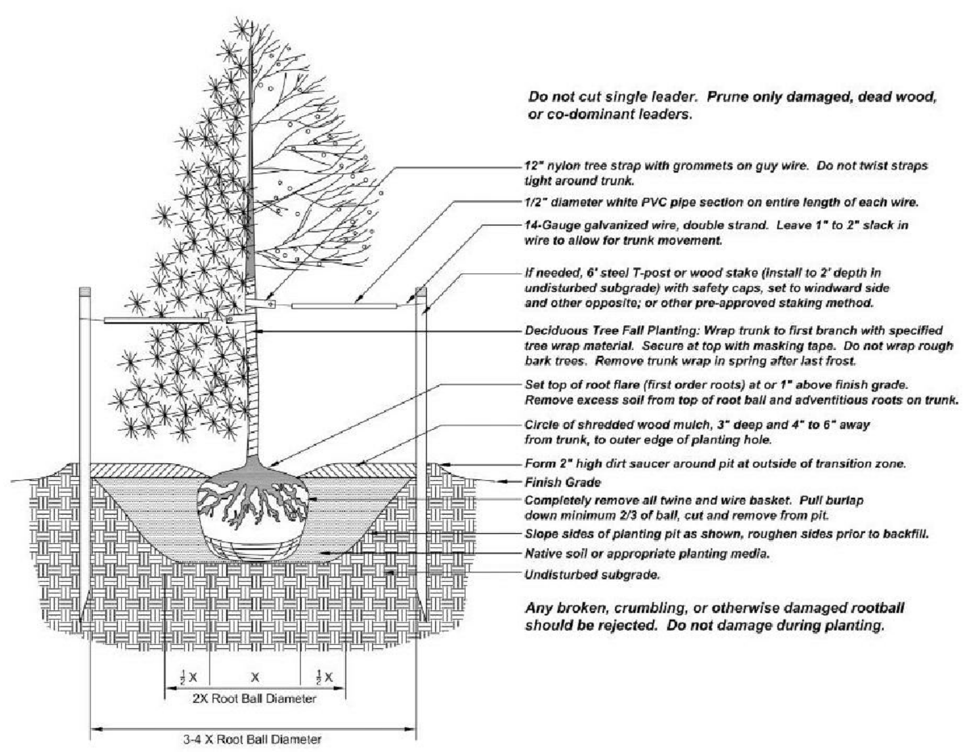
9/7/24	DRB Coordination
10/14/24	DRB updates

Title:
DETAILS & CROSS SECIONS

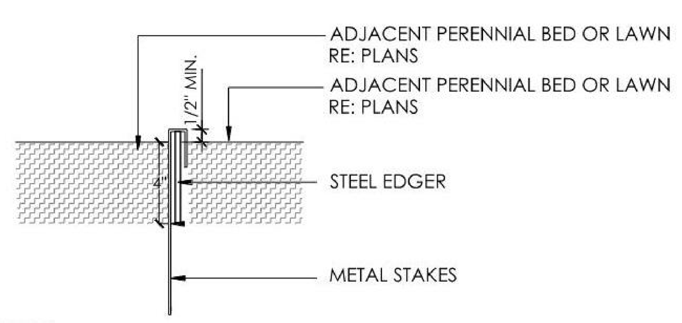
Sheet:
C.3



1 SHRUB PLANTING
SCALE: 3/4" = 1'-0"



3 TREE PLANTING
SCALE: N.T.S.



NOTES:
1. CONTRACTOR TO SUBMIT SAMPLE PRIOR TO ORDERING MATERIAL OR DELIVERING TO SITE.
2. NO EDGER REQUIRED WHEN MULCH IS ADJACENT TO PAVEMENT, BORDER, OR WALLS.
3. SET ALL EDGING 1/2" ABOVE FINISH GRADE AS SHOWN.
4. EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR, AND FLUSH W/ GRADES OF CONCRETE.
5. ALL JOINTS TO BE SECURELY STAKED.
6. CONTRACTOR SHALL CUT TOP EDGE(S) AS NEEDED TO BE PARALLEL WITH GRADE.

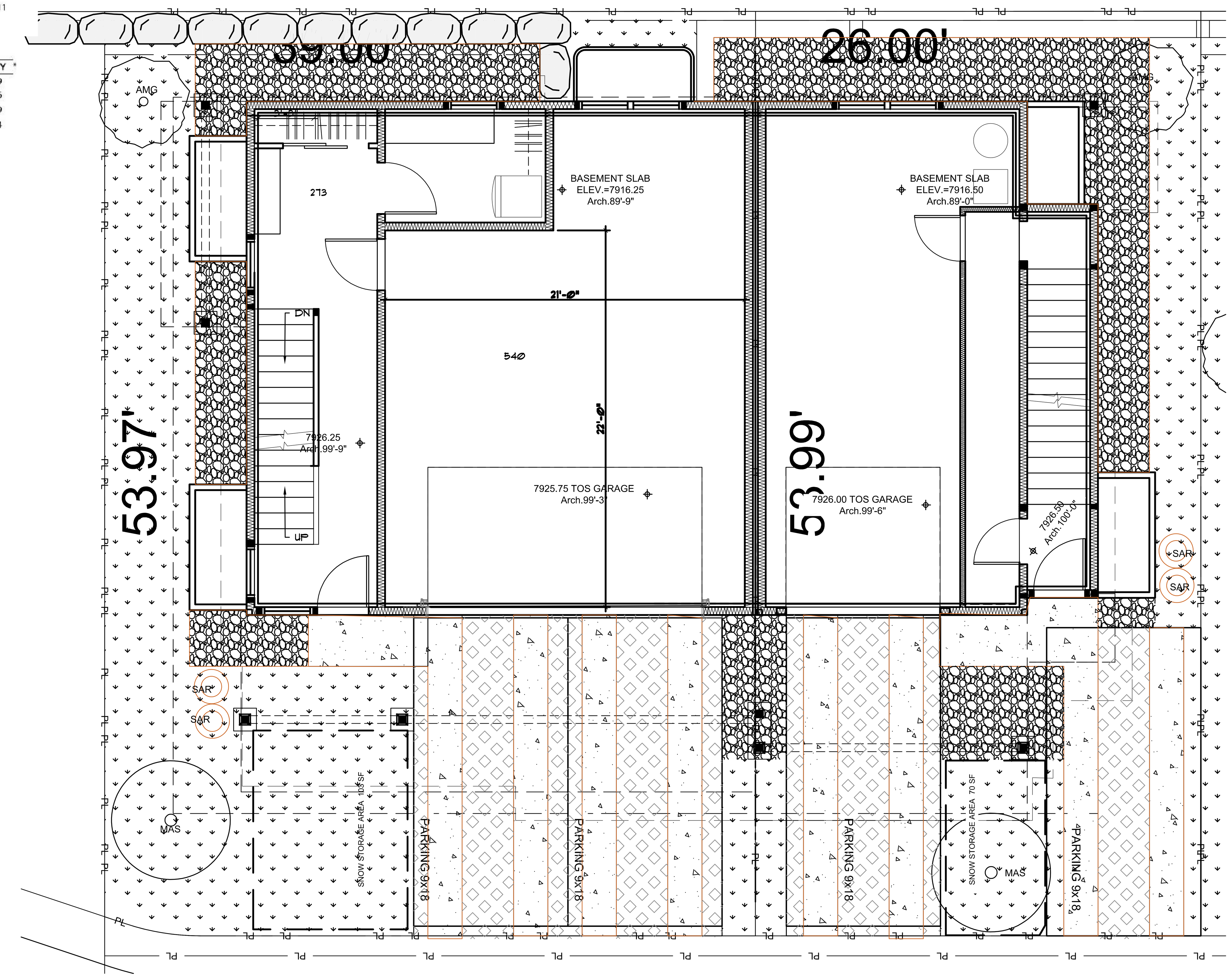
8 METAL EDGER
SCALE: 3/4" = 1'-0"

ORNAMENTAL TREES

ABB.	BOTANIC	COMMON	SPACING	SIZE	QTY
AMG	*Amelanchier x grandiflora*	Autumn Brilliance Serviceberry	as shown	8' clump	21
CMT	*Crataegus x mordenensis* 'Toba'	Toba Hawthorn	as shown	2" Cal	5
MAS	*Malus x* 'Spring Snow'	Spring Snow Crabapple	as shown	2" Cal	8
MAT	*Malus* 'Thunderchild'	Thunderchild Crabapple	as shown	2" Cal	5
QUG	*Quercus gambelii*	Gambel Oak	as shown	8' clump	11

DECIDUOUS SHRUBS

ABB.	BOTANIC	COMMON	SPACING	SIZE	QTY
SAR	*Salix repens*	Creeping Willow	as shown	5 Gal.	9
SOS	*Sorbaria sorbifolia*	Ash-leaf Spirea	as shown	5 Gal.	6
SPM	*Syringa patula* 'Miss Kim'	Miss Kim Lilac	as shown	5 Gal.	9
SYO	*Symphoricapos occidentalis*	Western Snowberry	as shown	5 Gal.	4



1 A1.1 ENLARGED LANDSCAPE PLAN
1/4"=1'-0"

NATIVE GRASS	
2' GRAVEL DRIP LINE MULCH	
CONC. PARKING STRIP	
PERMEABLE PAVERS	

SITE CALCULATIONS - 8-9	
SITE SQFT	3,453 SQFT
BUILDING COVERAGE	1,994 SQFT
IMPERVIOUS COVERAGE (Includes Building)	2,141 SQFT
SITE COVERAGE ALLOWED	70%
SITE COVERAGE	62%

GENERAL NOTES:

1. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS.
2. CONTRACTOR TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO BEFORE DIGGING, INCLUDING BUT NOT LIMITED TO, TRENCHING, SHRUB AND TREE PLANTING PITS. IF UTILITIES OCCUR WITHIN (3) THREE FEET OF PROPOSED FOOTINGS, THE CONTRACTOR SHALL REPORT SUCH CONDITIONS TO THE OWNER.
3. CONTRACTOR IS RESPONSIBLE FOR FULL ON-SITE INVESTIGATIONS AS NEEDED IN ORDER TO GAIN A FULL UNDERSTANDING OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. FAILURE TO INSPECT THE SITE PRIOR TO CONSTRUCTION SHALL NOT BE CAUSE FOR REQUESTING ADDITIONAL MONIES BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK.
5. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR FOR SAFETY PRECAUTIONS OR PROBLEMS UTILIZED IN CONNECTION WITH THE WORK, AND HE/SHE WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. VERIFY ALL CONDITIONS AT THE JOB SITE AND NOTIFY LANDSCAPE ARCHITECT AND THE OWNER'S REP. IMMEDIATELY OF ANY DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES PRIOR TO ANY DEMOLITION OR CONSTRUCTION.

SIGHT TRIANGLE NOTES:

PEDESTRIAN SIGHT TRIANGLES: NO ITEMS THAT ARE WIDER THAN 18" MAY BE TALLER THAN 30" WITHIN THE PEDESTRIAN SIGHT TRIANGLE.

CORNER SIGHT TRIANGLES: NO ITEMS TALLER THAN 30" MAY BE PLACED WITHIN THE CORNER SIGHT TRIANGLE, EXCEPT FOR TRAFFIC CONTROL DEVICES AND EQUIPMENT. TREES MUST BE LIMBED TO 8 FEET AT ADEQUATE MATURITY. TREES SHALL BE PLANTED A MINIMUM OF 10 FEET FROM LIGHT OR UTILITY POLES.

ROADWAY SIGHT TRIANGLES: NO ITEMS THAT ARE WIDER THAN 18" MAY BE TALLER THAN 30" WITHIN THE ROADWAY SIGHT TRIANGLE EXCEPT FOR STREET TREES AND TRAFFIC CONTROL DEVICES AND EQUIPMENT.

TREE PROTECTION ZONE (TPZ) NOTES:

1. CONTRACTOR SHALL VERIFY FINAL BOUNDARIES OF TPZ PRIOR TO COMMENCEMENT OF CONSTRUCTION/DEMOLITION ACTIVITIES. EXCESSIVE BRANCH PRUNING ON EXISTING TREES FOR CONSTRUCTION CLEARANCE WILL NOT BE PERMITTED. PRUNING FOR BUILDING CLEARANCE SHALL BE MINIMIZED. DUE TO SCOPE OF CONSTRUCTION AND SIZE OF EX. ROW TREES, USE CHAIN LINK FENCING TO ESTABLISH TPZ.
2. THE TREE LAWN WITHIN THE BOUNDARY OF THE TREE DRIPLINE SHALL NOT BE ROTOTILLED AT ANY TIME. ROTOTILLING IS ONLY PERMITTED IN AREAS OUTSIDE OF EXISTING TREE DRIPLINE WHERE CONCRETE & HARDSCAPE ARE REMOVED.

LANDSCAPE NOTES:

1. ALL NEW LANDSCAPE AND IRRIGATION SHALL BE UNDER WARRANTY FOR A PERIOD OF (1) ONE YEAR. THE WARRANTY PERIOD SHALL COMMENCE ONCE ALL PUNCH LIST ITEMS ARE SATISFACTORY COMPLETED AND A LETTER OF FINAL COMPLETION IS PROVIDED FROM THE OWNER'S REPRESENTATIVE. ALL LANDSCAPE AND IRRIGATION MAINTENANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1 YEAR AFTER THE FINAL COMPLETION IS PROVIDED IN WRITING.
2. PLANT MATERIAL AND BED LOCATIONS TO BE STAKED BY THE LANDSCAPE CONTRACTOR FOR REVIEW BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT. ALL ADJUSTMENTS SHALL BE MADE BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT DIG PLANT PITS UNTIL LOCATIONS ARE APPROVED.
3. ROUGH GRADING TO PLUS OR MINUS ONE TENTH OF A FOOT BY GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR TO PROVIDE FINISH GRADING IN ALL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR TO APPROVE ROUGH GRADES PRIOR TO MOBILIZATION. MOBILIZATION ON THE PART OF THE LANDSCAPE CONTRACTOR WILL INDICATE THAT ROUGH GRADING IS ACCEPTABLE TO THE LANDSCAPE CONTRACTOR, AND THEREFORE BE RESPONSIBLE FOR PROVIDING ALL FINISHED GRADES TO MEET THE CIVIL GRADING PLANS.
4. TREES AND SHRUBS WILL BE INSPECTED ON-SITE. LANDSCAPE PLANT MATERIALS MAY BE REJECTED AT ANY TIME DUE TO ISSUES OF QUALITY.
5. ALL NEW LANDSCAPE AREAS SHALL BE IRRIGATED BY A COMMERCIAL GRADE, FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. TREES, SHRUBS, AND DECORATIVE GRASSES SHALL BE IRRIGATED BY A SEPARATE ZONE FROM SOD/GRASS; THIS INCLUDES TREES PLANTED IN SOD/GRASS AREA. THE IRRIGATION SYSTEM IS TO HAVE A RAIN SENSOR SHUTOFF INSTALLED. IRRIGATION TO BE DESIGN/BUILD, CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ARCHITECT, LANDSCAPE ARCHITECT, AND MECHANICAL AND FOR GENERATION OF AN IRRIGATION PLAN FOR REVIEW WITH AS BUILT PLAN AS REQUIRED.
6. ALL PLANT MATERIAL SHALL MEET OR EXCEED CURRENT AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1 AND THE COLORADO NURSERY ACT AND ACCOMPANYING RULE AND REGULATIONS.
7. TRUNK-WRAP TAPE: TWO LAYERS OF CRINKLED PAPER CEMENTED TOGETHER WITH BITUMINOUS MATERIAL, 4 INCHES (102 MM) WIDE MIN.
8. WRAPPING TREE TRUNKS: WRAP TREES WITH TRUNK-WRAP TAPE. START AT BASE OF TRUNK AND SPIRAL COVER TRUNK TO HEIGHT OF FIRST BRANCHES. OVERLAP WRAP, EXPOSING HALF THE WIDTH, AND SECURELY ATTACH WITHOUT CAUSING GIRDLING. DO NOT USE STAPLES. INSPECT TREE TRUNKS FOR INJURY, IMPROPER PRUNING, AND INSECT INFESTATION AND TAKE CORRECTIVE MEASURES REQUIRED BEFORE WRAPPING. DO NOT WRAP ROUGH BARK, POPULUS OR GLEDITSIA TREES. REMOVE WRAP IN SPRING.
   - 8.1. NO TREE SHALL BE WRAPPED AFTER MAY 21 OR BEFORE NOVEMBER 1.
   - 8.2. ALL DECIDUOUS TREES SHALL BE WRAPPED BY NOV. 15. REMOVE TREE WRAP BY MAY 15.
   - 8.3. CONTRACTOR SHALL BE RESPONSIBLE FOR WRAPPING AND UNWRAPPING TREES DURING THE WARRANTY PERIOD.
9. FIBER MULCH AT PLANTING BEDS: ORGANIC MULCH FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF SHREDDED REDWOOD MULCH NOT LARGER THAN FOUR INCHES (4") IN LENGTH. SUBMIT 1.0 CF SAMPLE FOR APPROVAL.

SOIL PREPARATION:

SOIL SHALL BE AMENDED BASED ON THE SOIL TEST RECOMMENDATIONS (TO ADDRESS SPECIFIC DEFICIENCIES & ISSUES IN EXISTING SOIL). THE FOLLOWING INCLUDES THE SOIL TEST REQUIREMENTS AND RECOMMENDATIONS TO BE USED IN CONJUNCTION WITH THE SOIL TEST RESULTS:

1. SOIL ANALYSIS, BULK DENSITY TESTING AND REMEDIATION REQUIRED. SOIL ANALYSIS FROM A LOCAL ACCREDITED SOIL ANALYSIS LABORATORY WITH EXPERIENCE IN LOCAL URBAN SOILS SHALL BE REQUIRED WHEN PLANTS ARE TO BE INSTALLED IN GREEN SPACE. ALL SOIL REMEDIATION SHALL BE BASED ON THE SOIL ANALYSIS.
   - 1.1. MINIMUM SOIL ANALYSIS MUST DETERMINE SOIL TEXTURE AND STRUCTURE, PH BALANCE, SOIL SALINITY, FREE LIME, ORGANIC MATTER (OM) CONTENT, PLANT AVAILABLE NUTRIENTS AND COMPACTION.
   - 1.2. DEPTH OF LANDSCAPE SOIL ANALYSIS SHALL BE 24IN FOR TREES AND 8IN FOR ALL OTHER AREAS
   - 1.3. SOIL REMEDIATION REQUIRED BASED ON SOIL ANALYSIS.

2. COMPOSTED MATERIAL SHALL CONSIST OF AGED ORGANIC MATTER, FREE OF WEED OR OTHER NOXIOUS PLANT SEEDS, LUMPS, STONES, OR OTHER FOREIGN CONTAMINANTS HARMFUL TO PLANT LIFE, AND HAVING THE FOLLOWING CHARACTERISTICS BASED ON A NUTRIENT TEST PERFORMED NO LONGER THAN 3 MONTHS PRIOR TO ITS INCORPORATION INTO THE PROJECT:
   - 1.1. ORGANIC MATTER: 25% MINIMUM.
   - 1.2. SALT CONTENT: 5.0 MMHOS/CM MAXIMUM.
   - 1.3. PH: 8.5 MAXIMUM.
   - 1.4. CARBON TO NITROGEN RATIO OF 10:1 TO 20:1.
   - 1.5. PARTICLE SIZE NO PARTICLE SMALLER THAN SILT OR CLAY SIZE, OR LARGER THAN ½" DIAMETER
   - 1.6. ACCEPTABLE COMPOST PRODUCT: CLASS I COMPOST, SUCH AS ECOGRO OR BIO-COMP, AS PROVIDED BY A1 ORGANICS, EATON, CO, OR APPROVED EQUAL.

2. FINISH GRADE TO BE BELOW THE EDGE OF PAVEMENT PRIOR TO SODDING OR PLANTING:
   - 1.1. SEEDED/SODDED AREAS: ALLOW 1 INCH FOR SOD.
   - 1.2. PLANTED AREAS: ALLOW 3 INCHES FOR MULCH.

4. AFTER APPLYING SOIL CONDITIONER AND FERTILIZER, THOROUGHLY TILL AREA TO DEPTH OF 6" MINIMUM UNTIL SOIL IS WELL PULVERIZED AND THOROUGHLY MIXED.

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Belden Place - Duplex Units
Lots 8/ 0029 Beldan Way & 9 / 0027 Beldan Way
Minturn, Colorado 81645

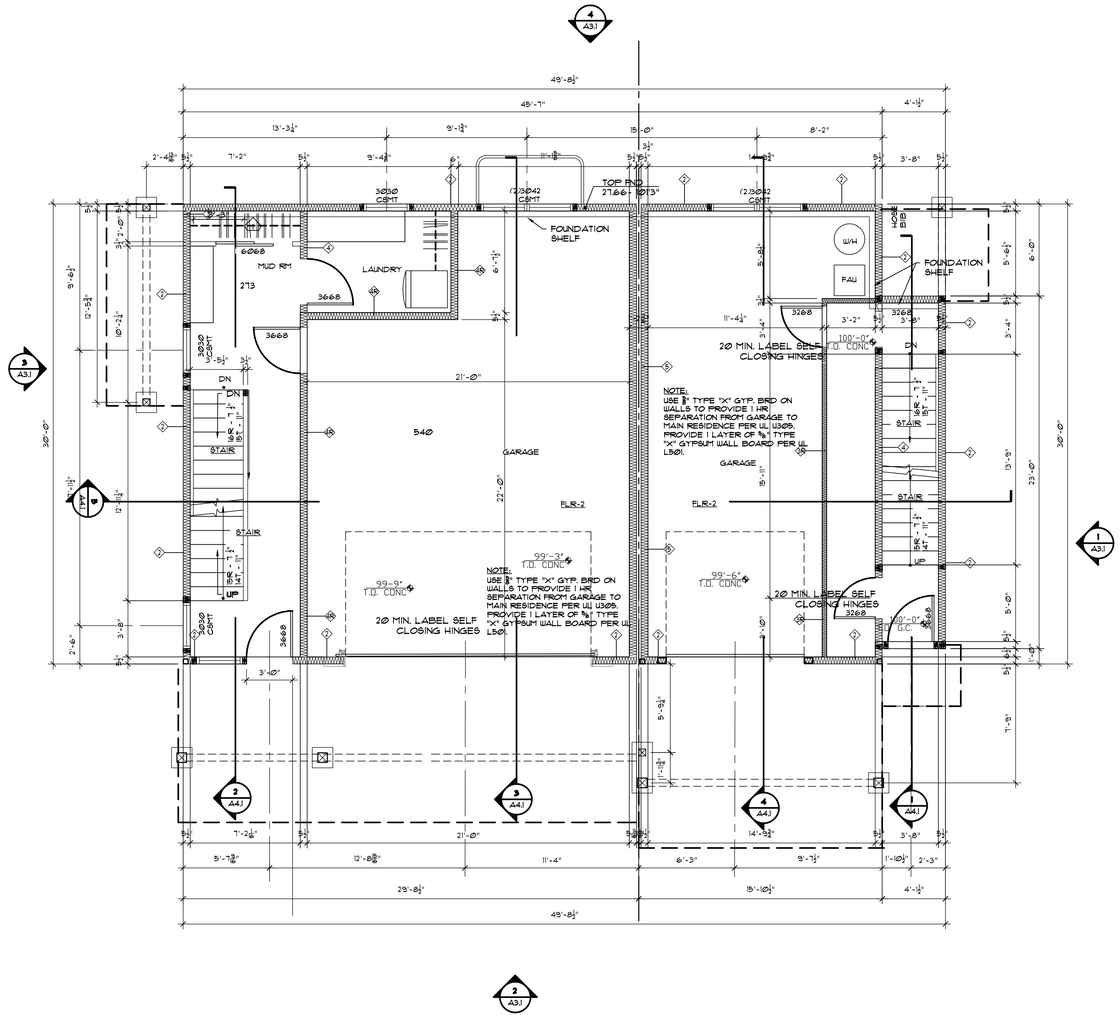
Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

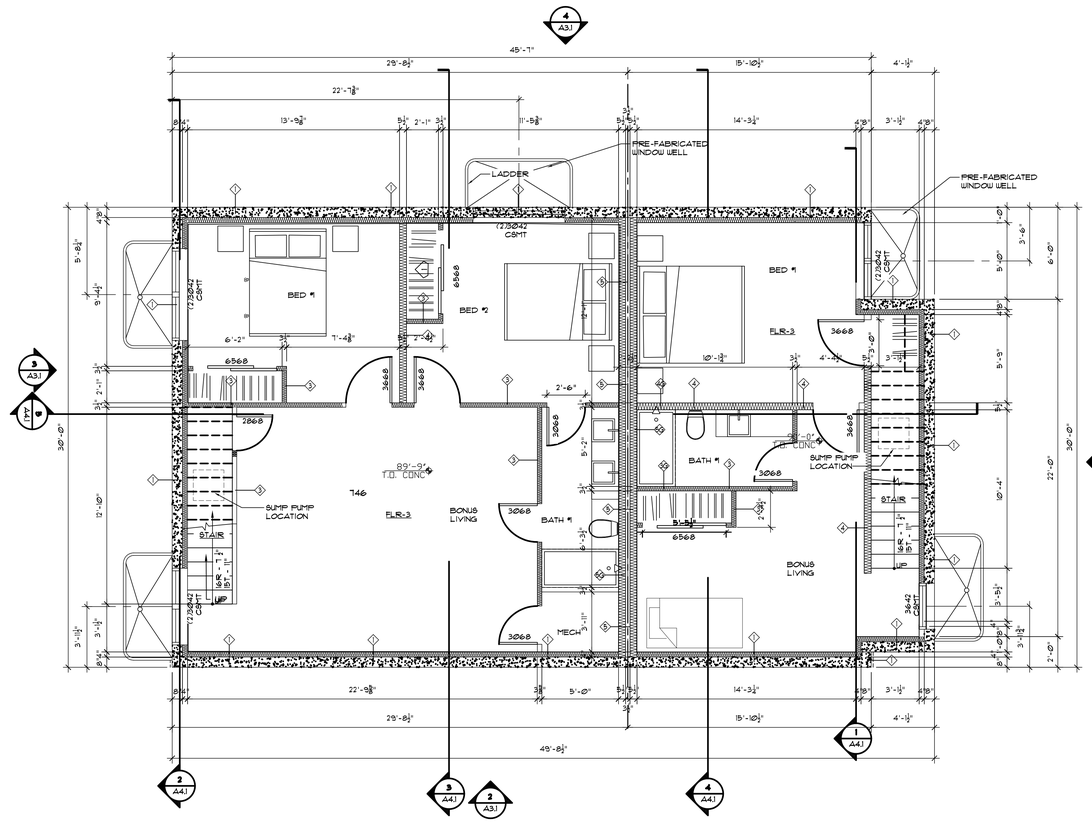
Sheet Title:
Landscape Plan

Project No:
2215

Sheet No:
A1.1



2 A2.1 LOWER LEVEL FLOOR PLAN
1/4"=1'-0"



1 A2.1 BASEMENT FLOOR PLAN
1/4"=1'-0"

0 2 4 8 16 32
SCALE: ¼"=1'-0"

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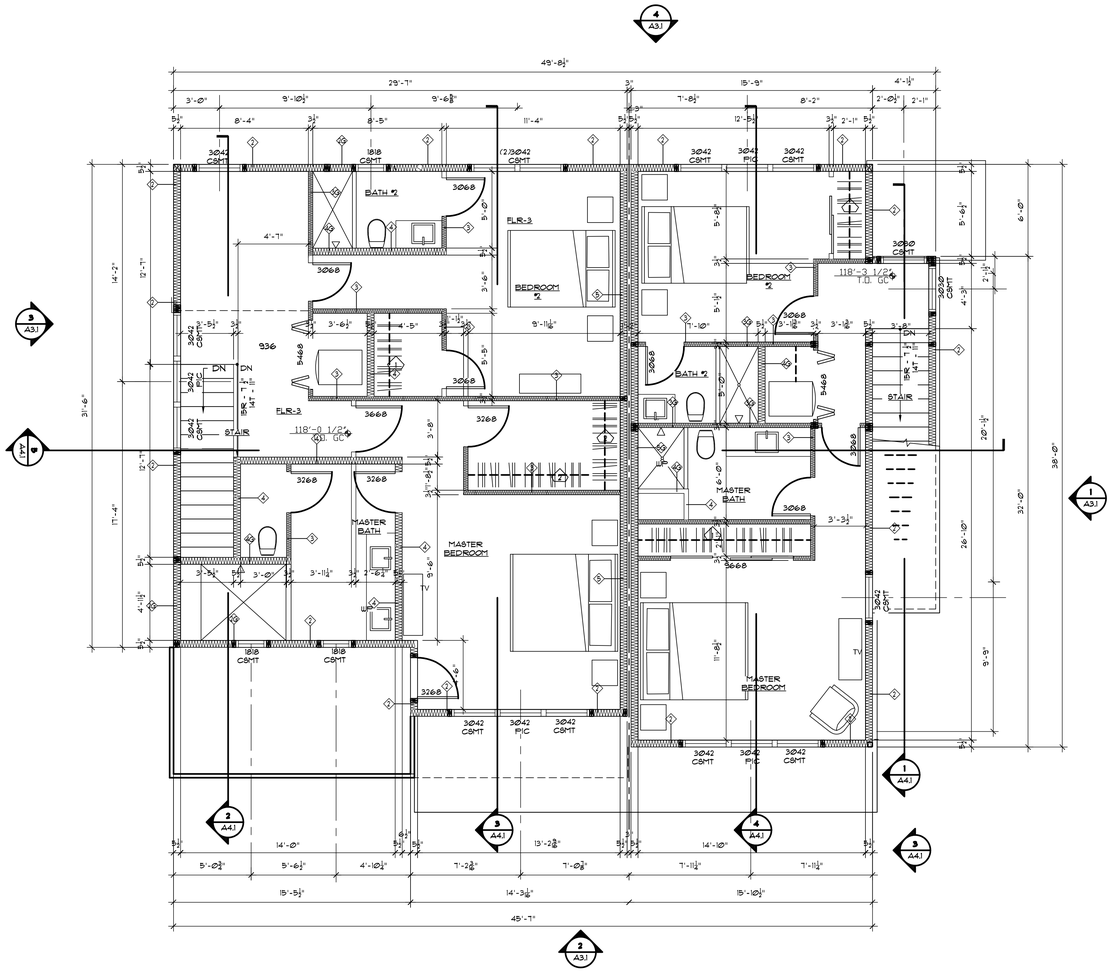
Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

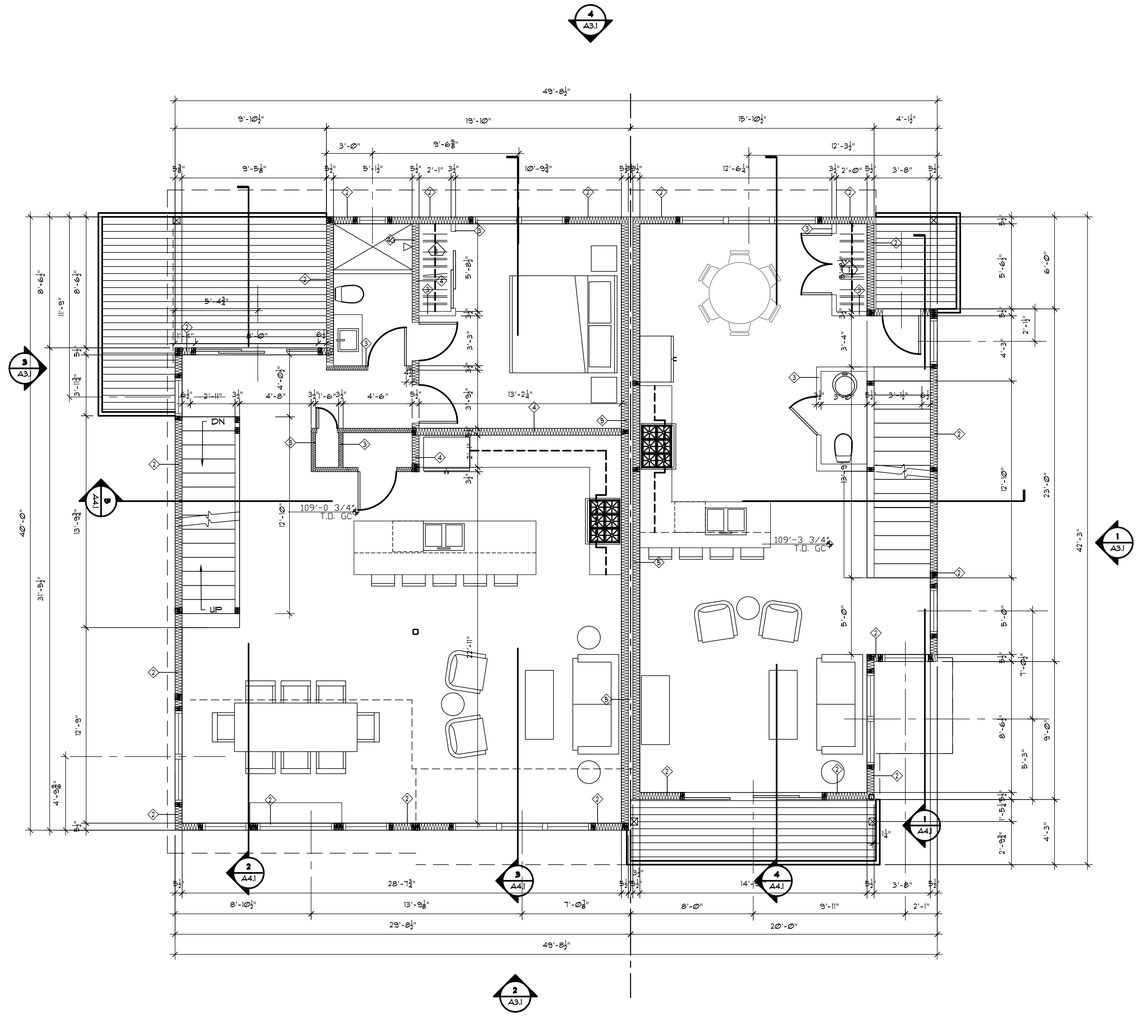
Sheet Title:
Ground and Basement Floor Plans

Project No:
2215

Sheet No:
A2.1



2 A2.2 UPPER LEVEL FLOOR PLAN
1/4"=1'-0"



1 A2.2 MAIN LEVEL FLOOR PLAN
1/4"=1'-0"

UNIT 8	SQ. FT
LIVING - BASEMENT	747
LIVING - LOWER	271
LIVING - MAIN	1,030
LIVING - UPPER	930
TOTAL LIVING	2,978
GARAGE	556
MECHANICAL	0
TOTAL	3,534

UNIT 9	SQ. FT
LIVING - BASEMENT	446
LIVING - LOWER	166
LIVING - MAIN	629
LIVING - UPPER	604
TOTAL LIVING	1,845
GARAGE	348
MECHANICAL	0
TOTAL	2,193
TOTAL	5,717

0 2 4 8 16 32

SCALE: ¼"=1'-0"

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Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

Sheet Title:
Main and Upper Floor Plans

Project No:
2215

Sheet No:
A2.2

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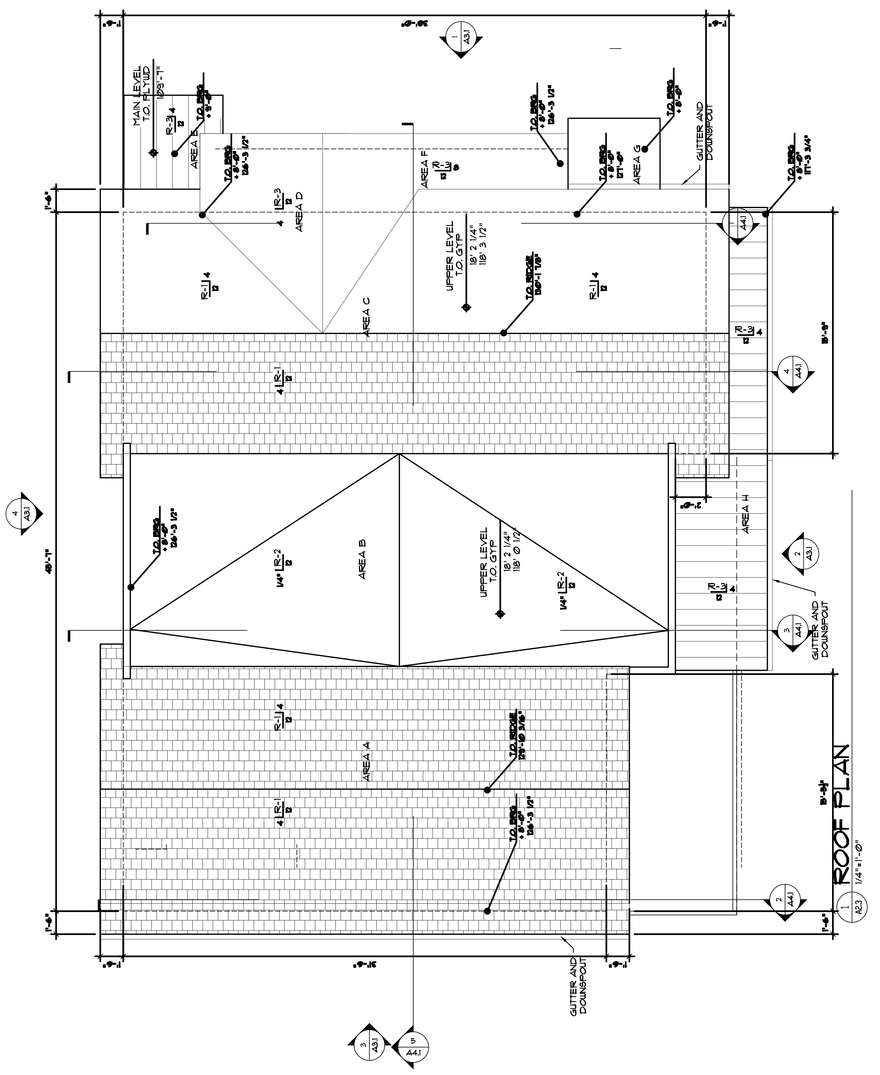
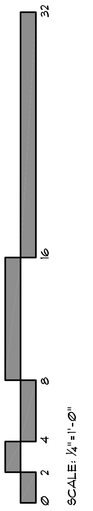
Revisions:

Issue Dates:
2022/2023 Street Coord
DRB-04/20/2023

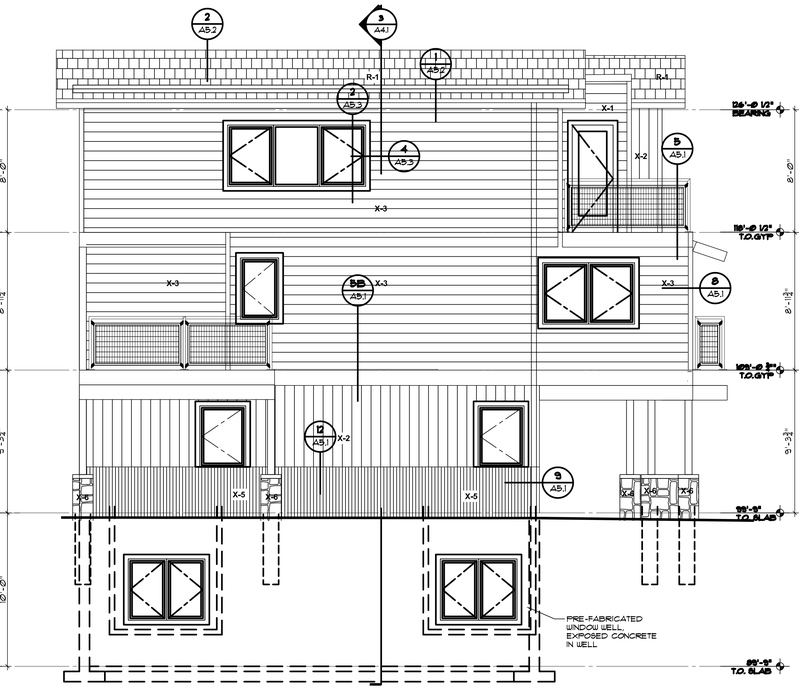
Sheet Title:
Roof Plan

Project No:
2215
Sheet No:
A2.3





4 A3.1 REAR ELEVATION
1/4"=1'-0"

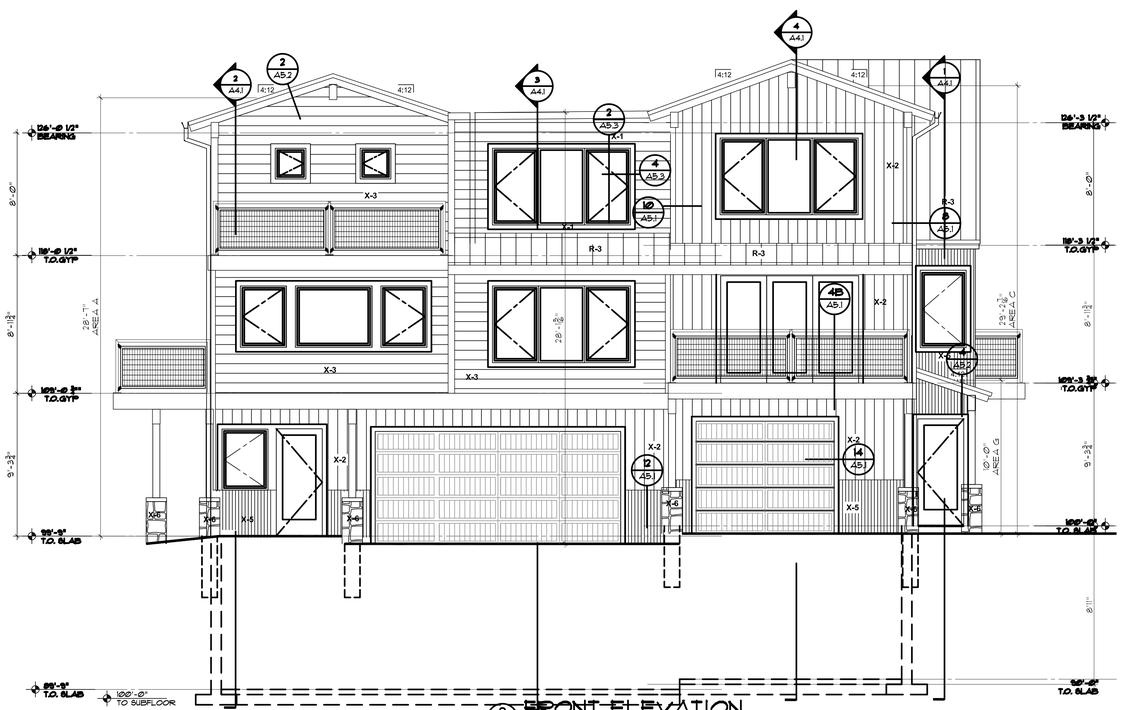


3 A3.1 LEFT SIDE ELEVATION
1/4"=1'-0"

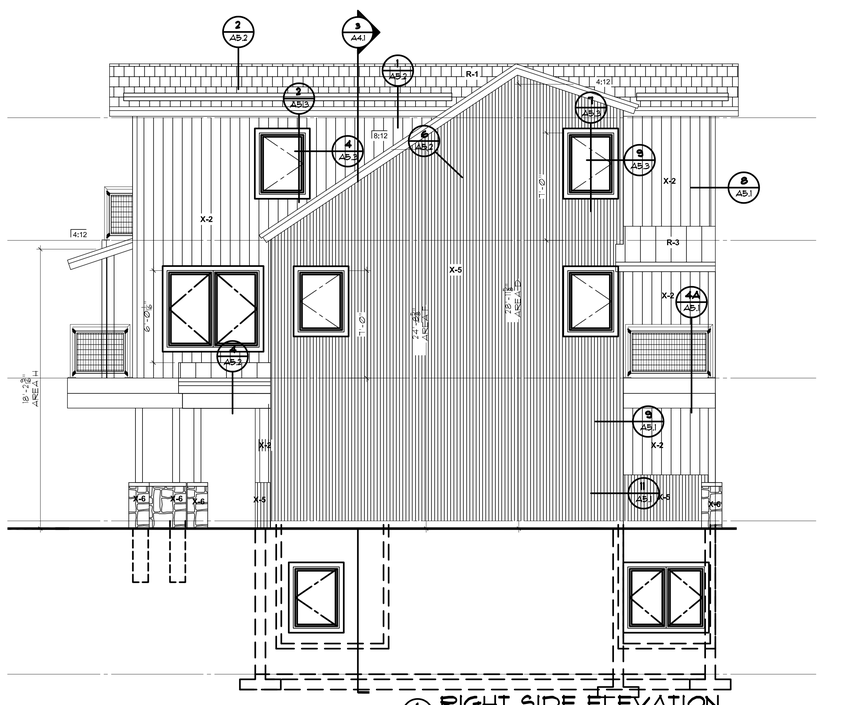
Roof Mark	Roof Area (SF)		Roof Area %		Avg Hgt (Ft)		Weighted Avg (Ft)	
A	535.40	/ by total	26.81	X	25.58	=	685.81	
B	501.20	/ by total	25.10	X	31.06	=	779.53	
C	620.00	/ by total	31.05	X	29.20	=	906.56	
D	72.00	/ by total	3.61	X	28.97	=	104.45	
E	38.40	/ by total	1.92	X	18.73	=	36.02	
F	83.00	/ by total	4.16	X	24.72	=	102.74	
G	27.70	/ by total	1.39	X	10.00	=	13.87	
H	119.30	/ by total	5.97	X	18.20	=	108.73	
	1997.00		100.00		186.46		2737.70	27.38
								27' 4 9/16"

MATERIAL LEGEND

R-1: ASPHALT SHINGLE ROOF
R-2: LOW SLOPE EPDM
R-3: STANDING SEAM METAL ROOFING
X-1 DIAMOND KOTE LP SMARTSIDE LAP SIDING
X-2 DIAMOND KOTE LP SMARTSIDE VERTICAL SIDING
X-3 DIAMOND KOTE LP SMARTSIDE LAP SIDING
X-4 HORIZONTAL CORRUGATED METAL SIDING
X-5 VERTICAL CORRUGATED METAL SIDING
X-6 STONE VENEER



2 A3.1 FRONT ELEVATION
1/4"=1'-0"



1 A3.1 RIGHT SIDE ELEVATION
1/4"=1'-0"

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Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

Sheet Title:
Exterior Elevations

Project No:
2215

Sheet No:
A3.1

LAP SIDING EXAMPLE
MATERIAL EXAMPLE ONLY
NOT FOR COLOR

X-1
1 A3.1 LAP SIDING

SIMILAR TO DIAMOND KOTE LP
8" LAP SIDING
COLOR: BOURDEUX

VERTICAL SIDING EXAMPLE
MATERIAL EXAMPLE ONLY
NOT FOR COLOR

X-2
2 A3.1 VERTICAL SIDING

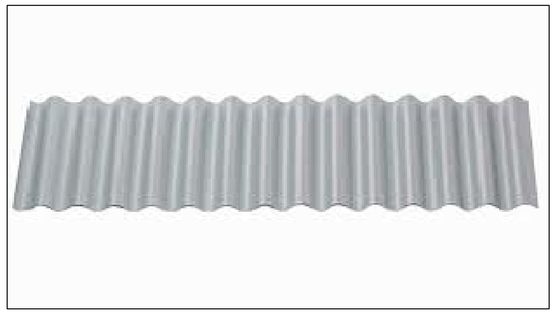
SIMILAR TO DIAMOND KOTE LP
VERTICAL GROOVE
COLOR: GRIZZLY

X-3
3 A3.1 LAP SIDING

SIMILAR TO DIAMOND KOTE LP
8" LAP SIDING
COLOR: WHITE

R-1
7 A3.1 ROOFING

SIMILAR GAF DESIGNER SHINGLES
WOODLAND "CASTLEWOOD GRAY"



X-4
4-5 A3.1 HORIZONTAL CORRUGATED PANELS
X-5
VERTICAL CORRUGATED PANELS

SIMILAR TO WESTERN STATES METAL
ROOFING - GALVANIZED $\frac{7}{8}$"
CORRUGATED PANELS

X-6
6 A3.1 STONE VENEER - THIN VENEER

SIMILAR TO GALLEGOS - #366
COURTLAND LOW RISE

R-3
7B A3.1 ROOFING

SIMILAR WESTERN STATES
2" STANDING SEAM - 12" WIDTH
COLOR: GALVANIZED TO MATCH
CORRUGATED PANELS

GENERATION LIGHTING

8637401-12: Medium One Light Outdoor Wall Lantern

Collection: Barn Light

Featured in the decorative Barn Light collection

1 A19 Medium 75 watt light bulb

Dark sky friendly. Designed to emit no light above the 90° horizontal plane. Photometry unavailable.

Easily converts to LED with optional replacement lamps

Meets Title 24 energy efficiency standards

UPC #:785652069352

Finish: Black (12)

Dimensions:

Diameter: 12"
Width: 12"
Height: 10 5/8"
Weight: 1.8 lbs.
Extends: 17 1/8"
Extends Max: 23 1/8"
Wire: 6 1/2" (color/Black/White)
Mounting Proc.: Cap Nuts
Connection: Mounted To Box

Bulbs:
1 - Medium A19 75w Max. 120v - Not included

Features:
- Dark sky friendly. Designed to emit no light above the 90° horizontal plane. Photometry unavailable.
- Easily converts to LED with optional replacement lamps
- Meets Title 24 energy efficiency standards
- Title 24 compliant if used with Joint Appendix (JA8) approved light bulbs listed in the California Energy Commission Appliance database.

Material List:
1 Body - Aluminum - Black

Safety Listing:
Safety Listed for Wet Locations

Instruction Sheets:
Trilingual (English, Spanish, and French) (990W8_37401-BRL)

Backplate / Canopy Details:

Type	Height / Length	Width	Depth	Diameter	Outlet Box Up	Outlet Box Down
Back Plate			1 1/4	5	4 1/8	6 1/2

Shipping Information:

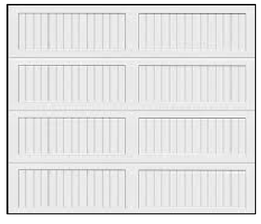
Package Type	Product #	Quantity	UPC	Length	Width	Height	Cube	Weight	Frt. Class	UPS Ship
Individual	8537401EN3-12	1	785652069352	16.75	14.58	13.25	1.873	4.1	250	Yes
NJ Pallet		45		48	40	77	85.556	184		No
NV Pallet		40		48	40	77	85.556	160		No

9 A3.1 LIGHT FIXTURE

SW 7069
Iron Ore
Interior / Exterior

PAINTED ITEMS:
SHERWIN WILLIAMS 7069 - IRON ORE
TRIM, WOOD BEAMS, GUTTERS AND
OTHER METALS

WINDOWS SIMILAR TO:
SIERRA PACIFIC "BLACK"
WOOD CLAD WINDOWS



8 A3.1 GARAGE DOOR

SIMILAR RAYNOR AP200 (RECESSED
RANCH PANEL PATTERN)
TEXTURED PANELS
COLOR: WALNUT

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Revisions:

Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

Sheet Title:
Materials

Project No:
2215

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A3.2

NE 3D

SE 3D

SW 3D

NW 3D

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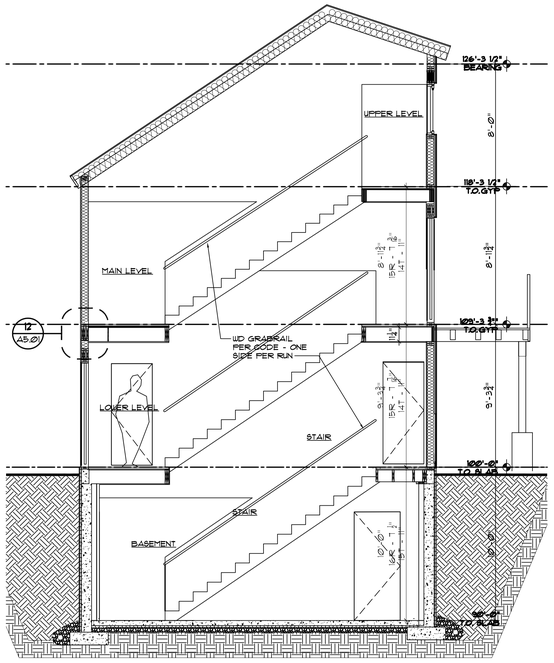
DRB-09/20/2024

Sheet Title:
Renderings

Project No:
2215

Sheet No:
A3.3

P:\2215 Belden Place Phase 2\01 Drawing Files\05 Construction Documents\Belden Place_Duplex Lots 8_9 10_11\DP 8_9\REVIT\2024 0924 - 8-9 - Twinnodon Cleanup.rvt
8/2/2024 9:49:35 AM



1 A4.1 SECTION 1
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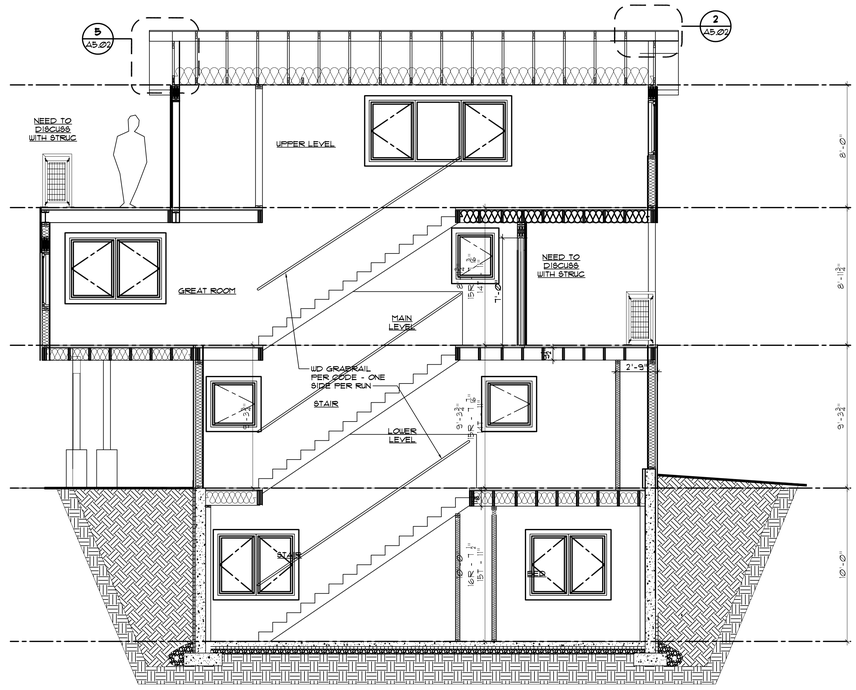

2 A4.1 SECTION 2
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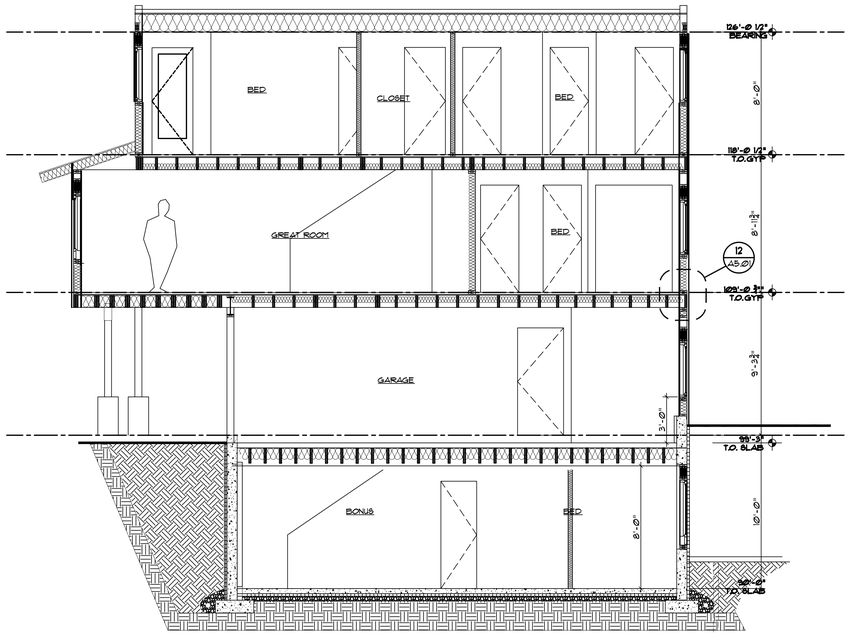

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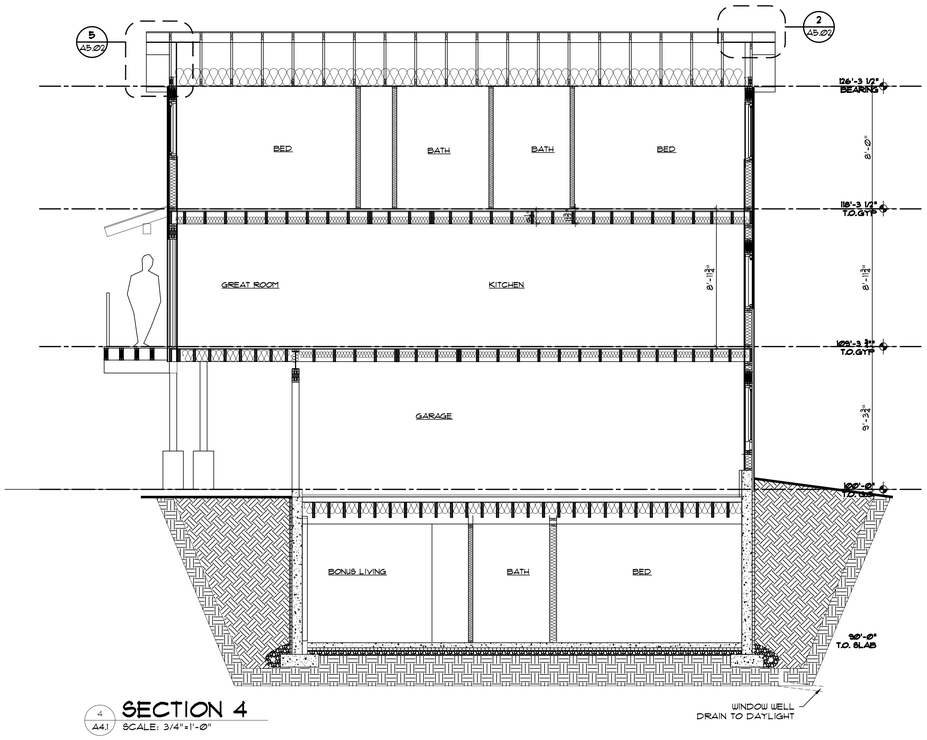

4 A4.1 SECTION 4
SCALE: 3/4"=1'-0"

5 A4.1 SECTION 5
SCALE: 3/4"=1'-0"

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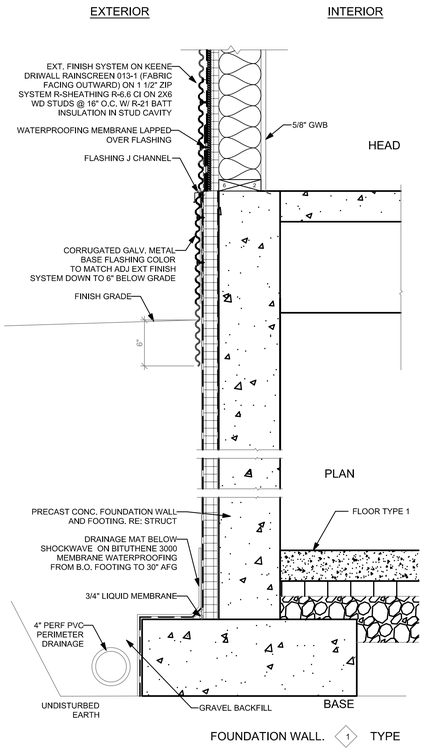
Sheet Title:
Building Sections

Project No:
2215

Sheet No:
A4.1



1 A5.01 SECTION DETAIL - CORRUGATED SIDING
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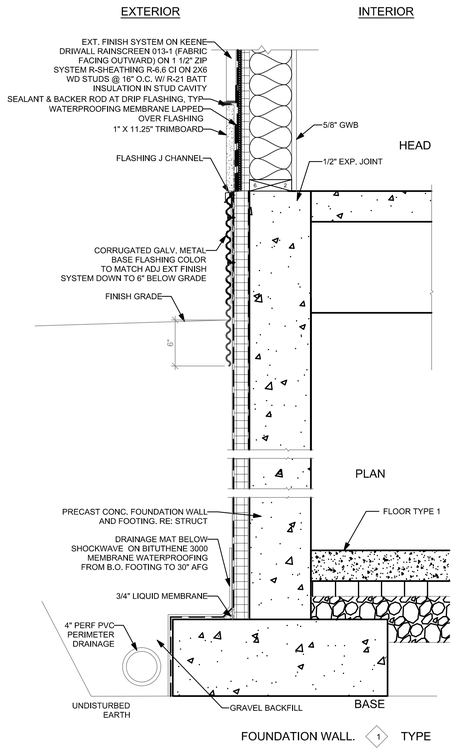

2 A5.01 SECTION DETAIL - WOOD SIDING
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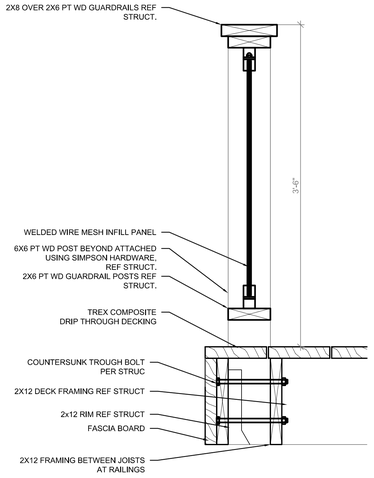

4A A5.01 DRIP THRU DECK RAILING
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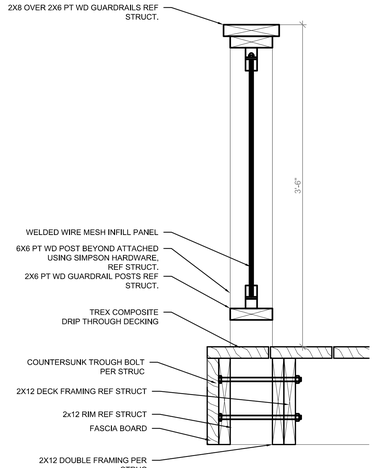

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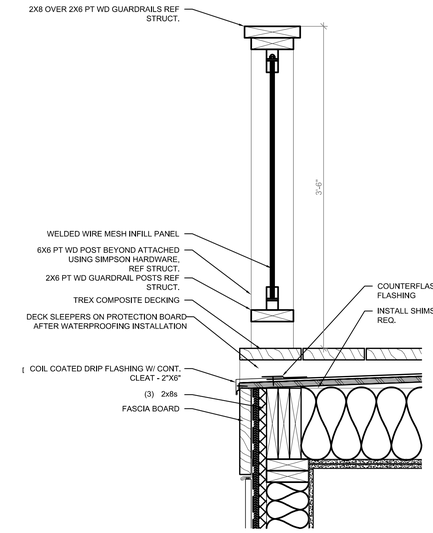

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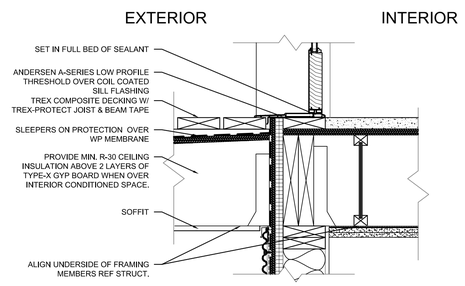

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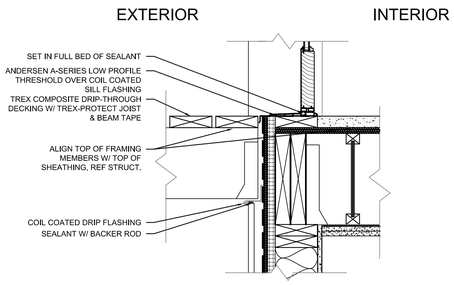

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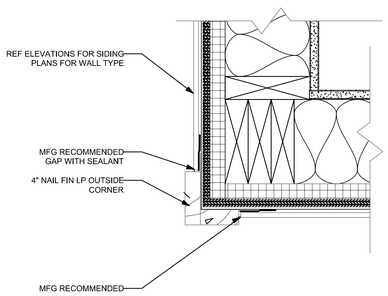

8 A5.01 PLAN DETAIL - CORNER TRIM
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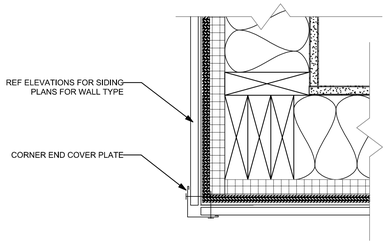

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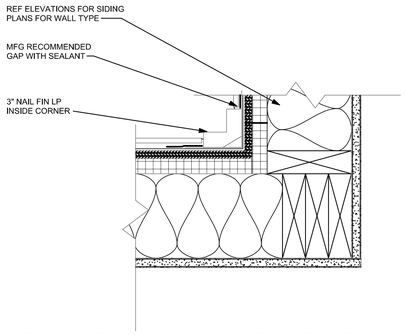

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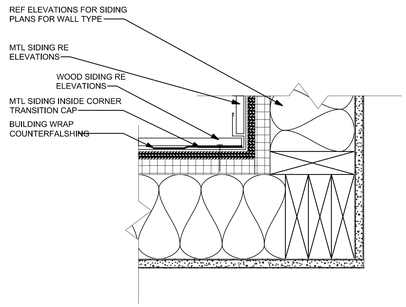

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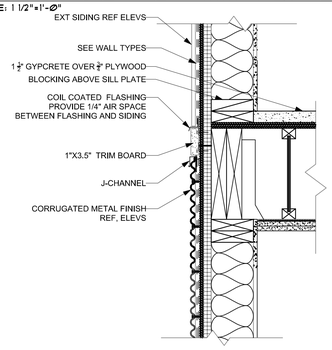

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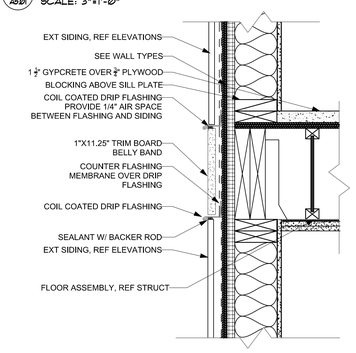

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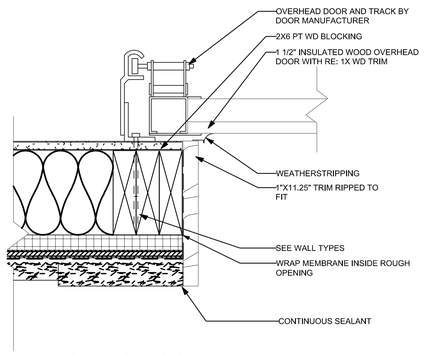

14 A5.01 PLAN DETAIL - GARAGE DOOR
SCALE: 3"=1'-0"

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Seal

Belden Place - Duplex Units
Lots 8/ 0029 Beldan Way & 9 / 0027 Beldan Way
Minturn, Colorado 81645

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Issue Dates:
20220509 Struct Coord
DRB-09/20/2024

Sheet Title:
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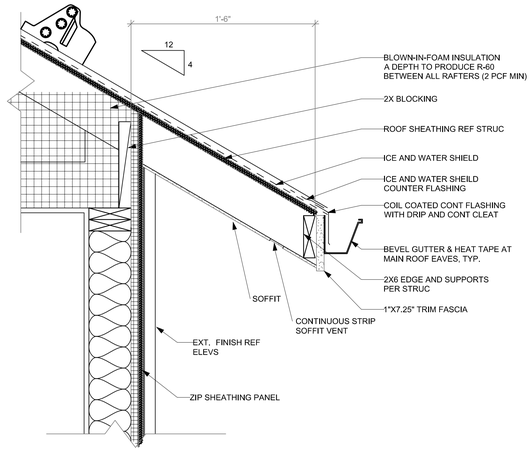
Project No:
2215

Sheet No:
A5.1



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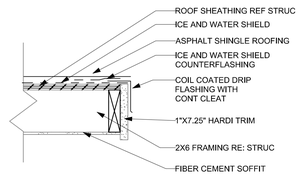

2 A5.01 SECTION DETAIL - EAVE
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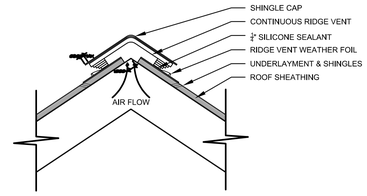

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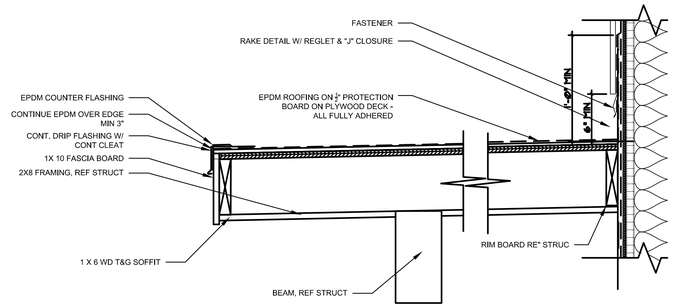

4 A5.01 SECTION DETAIL - COVERED WALKWAY
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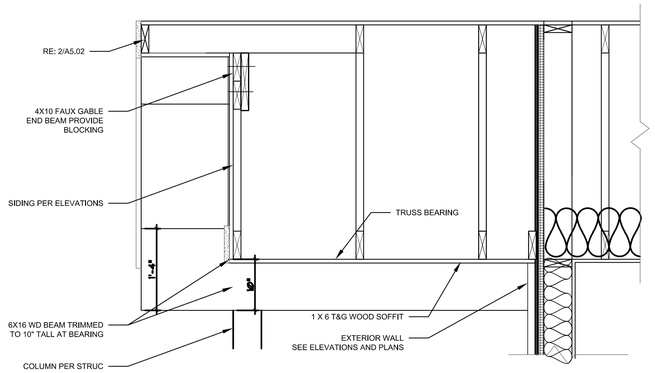

5 A5.01 SECTION DETAIL - GABLE END
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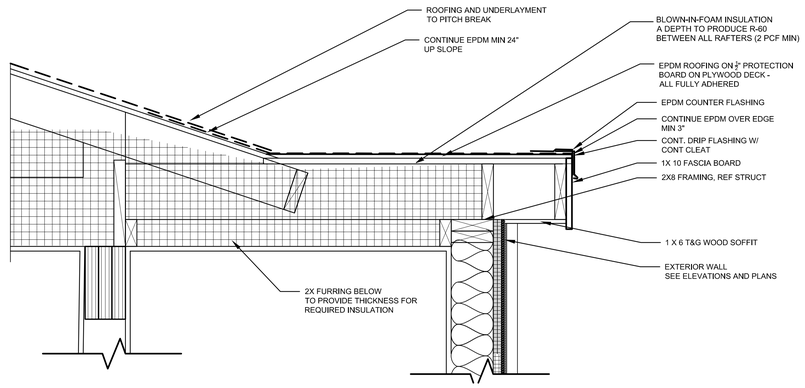

6 A5.01 STAIR ROOF - LOW SLOPE
SCALE: 1 1/2"=1'-0"

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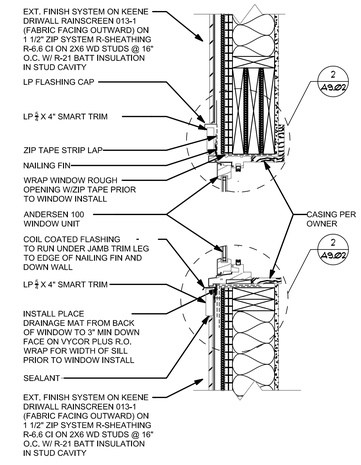
2215

Sheet No:
A5.2



2 A5.03 WINDOW DETAIL - HEAD/SILL
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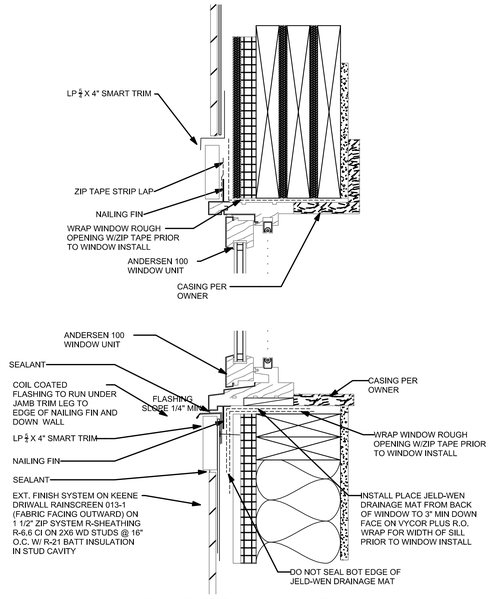

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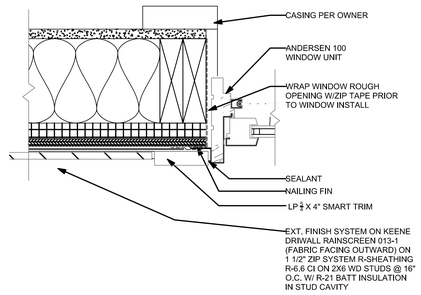

4 A5.03 WINDOW DETAIL - JAMB
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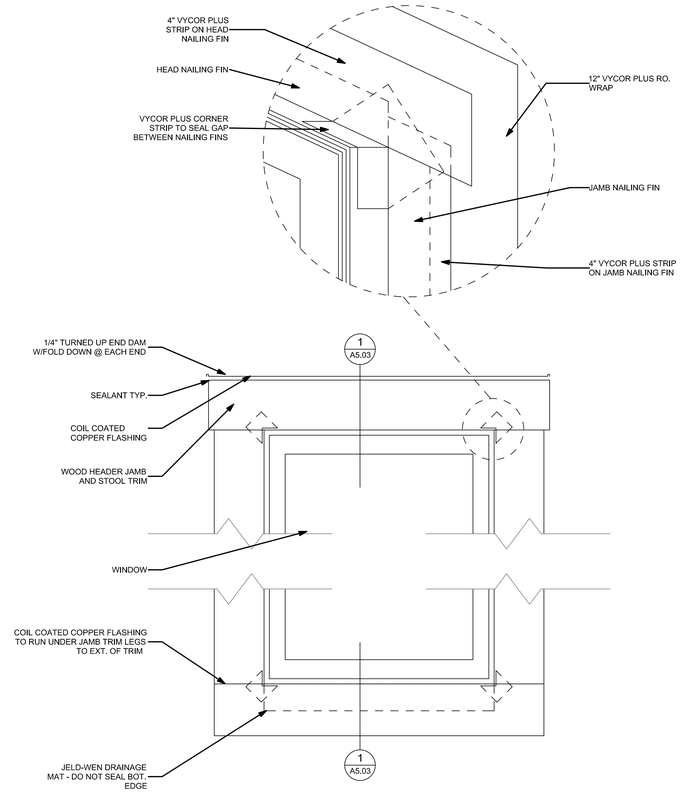

1 A5.03 WINDOW DETAIL - FLASHING
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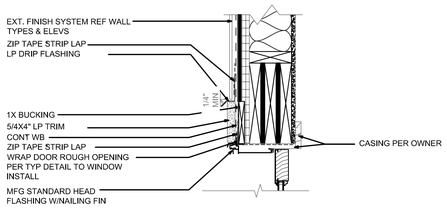
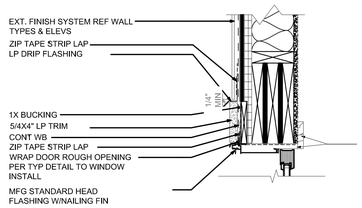
EXTERIOR INTERIOR



5 A5.03 DOOR DETAIL - INSWING HEAD TYP.
SCALE: 1 1/2"=1'-0"

EXTERIOR INTERIOR



6 A5.03 DOOR DETAIL - SLIDER HEAD TYP.
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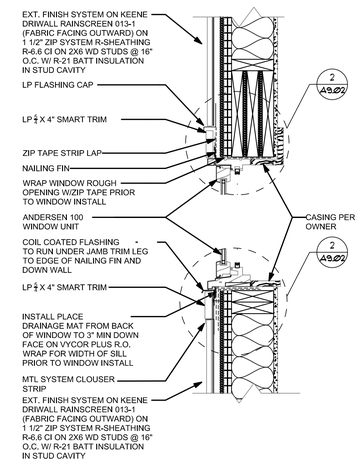

7 A5.03 WINDOW DETAIL - HEAD/SILL
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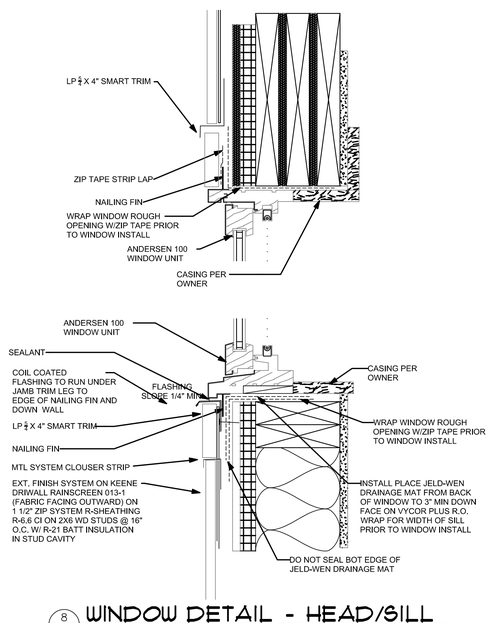

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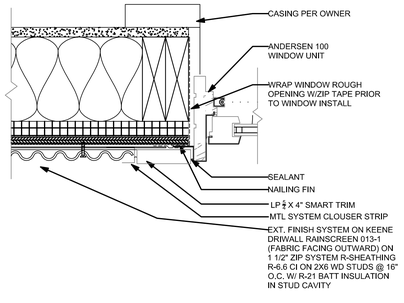
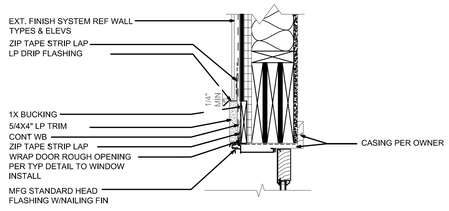


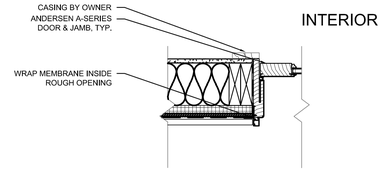
9 A5.03 WINDOW DETAIL - JAMB
SCALE: 3"=1'-0"

EXTERIOR INTERIOR



10 A5.03 DOOR DETAIL - INSWING HEAD TYP.
SCALE: 1 1/2"=1'-0"

INTERIOR



EXTERIOR

11 A5.03 DOOR DETAIL - INSWING JAMB, TYP.
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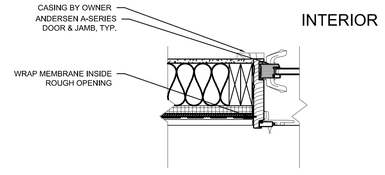
INTERIOR



EXTERIOR

12 A5.03 DOOR DETAIL - SLIDER JAMB, TYP.
SCALE: 1 1/2"=1'-0"

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2215

Sheet No:
A5.3

Minturn Forward Memo

TO:	Minturn Planning Commission
FROM:	Matt Farrar, Western Slope Consulting
DATE:	October 18, 2024
ATTACHMENTS:	Revised draft of Article 12: Development Impact Report

To assist the Planning Commission with their review of the revised draft of Article 12: Development Impact Report, this memo lists the key changes that have been made following the October 9 Planning Commission meeting.

1. Environmental Changed to Development

The language in Article 12 has been changed to refer to a Preliminary Development Assessment and Development Impact Report, instead of a Preliminary Environmental Assessment and Environmental Impact Report.

2. Minturn's Key Attributes

The initial draft of Article 12 defined "Minturn's environment" as the natural, cultural, social, and economic attributes of the Town. Given that the language in Article 12 has been changed to focus on a broader range of potential impacts from a proposed development, rather than just environmental impacts, "Minturn's environment" has been changed to "Minturn's key attributes."

The revised version of Article 12 defines the natural, cultural, social, economic, and human-made attributes of the Town as "Minturn's key attributes."

Section 16-12-20: Preliminary Development Assessment

- The following changes have been made to the list of items to be addressed via a Preliminary Development Assessment:
  - #2 has been modified to include "fins" as an example of environmentally sensitive areas. Please note that the terms "High-Priority Wildlife Habitat" and "Environmentally Sensitive Areas" will be defined in the Definitions section of the updated Code.
  - #3 has been modified to address any significant changes to existing vegetation.
  - #6 has been modified to include wildfire as a hazard.

- #15 has been modified to clarify that it is referring to permanent noise. Please note that "Permanent Noise" will be defined in the Definitions section and/or Noise Standards of the updated Code.

- Language has been added under Subsection 16-12-20(B) that requires an applicant to submit a brief description of impacts that their proposed development "will" or "could possibly" have. The intent of this requirement is to provide the Planning Director with general information about potential impacts so they can better determine if a Development Impact Report is needed.

Section 16-12-30: Development Impact Report

- A fiscal impact study has been added to Subsection 16-12-30(B) as a type of technical study that may be required to support a Development Impact Report.

ARTICLE 12: DEVELOPMENT IMPACT REPORT

Section 16-12-10: General Provisions

A. Purpose

The purpose of this Article is to:

1. Ensure that complete information on the impacts of any proposed development, which includes a land use change, zone change, or subdivision, is available as part of any formal review process.

2. Ensure the long-term protection of Minturn's natural, cultural, social, economic, and human-made attributes (i.e., key attributes) is considered in reviewing any proposed development and that decisions on such proposals take into account the relative merits of possible alternative actions.

3. Provide procedures for the review and evaluation of effects on Minturn's key attributes and potential effects on public and private infrastructure prior to the approval of a proposed development.

4. Provide mitigation options for impacts on public and private infrastructure.

B. Applicability

1. A Preliminary Development Assessment may be required by the Planning Director for any proposed development that potentially affects, to any significant degree, the quality of Minturn's key attributes.

2. If a Preliminary Development Assessment identifies potential effects on the quality of Minturn's key attributes, the Planning Director may require a Development Impact Report that addresses such impacts.

C. Exceptions

A Development Impact Report shall not be required for the following:

1. Any phase of an approved development for which a Development Impact Report was submitted, provided that no subsequent changes to the development have occurred or are proposed.

2. A development that, based on a Preliminary Development Assessment, is found to have an insignificant impact on Minturn's key attributes. The Planning Director is responsible for determining whether a proposed development has an insignificant impact. In making such determination, the Planning Director may consult with referral agencies and/or qualified professionals.

Section 16-12-20: PreliminaryDevelopment Assessment

A. Required Contents

A Preliminary Development Assessment must provide the Planning Director with adequate information to determine whether a proposed development will, will not, or could possibly affect Minturn's key attributes, either during construction or on a continuing basis. A Preliminary Development Assessment must include a statement of whether a proposed development "will," "will not," or "could possibly" affect Minturn's key attributes in each of the following ways:

1. Alter an ecological unit or landform, such as a ridgeline, saddle, draw, ravine, hillside, cliff, slope, creek, marsh, watercourse, or other natural landform feature.

2. Directly or indirectly affect high-priority wildlife habitat and/or environmentally sensitive areas (e.g., wetlands, fins, etc.).

3. Significantly alter or remove existing vegetation.

4. Affect the appearance or character of a significant scenic area or natural resource.

5. Involve buildings or other structures of a size, bulk, or scale in marked contrast to natural features or the human-made environment in the surrounding area.

6. Be in an area of natural hazard or potentially increase the risk of hazards such as wildfire, rock fall, avalanche, landslide, siltation, settlement, flood, or other landform change.

7. Be on a site that may be contaminated by current and/or historical uses. Potential contaminates include, but are not limited to, asbestos, petroleum, dry cleaning chemicals, radioactive materials, or lead.

8. Discharge toxic or thermally abnormal substances.

9. Involve the use of herbicides or pesticides.

10. Emit smoke, gas, steam, dust, or other particulate matter.

11. Involve any process that results in odor that is harmful to the rights of others to enjoy their property.

12. Require any waste treatment, cooling or settlement pond, and/or require the transportation of solid or liquid waste to a treatment or disposal site.

13. Discharge significant volumes of solid or liquid waste.

14. Increase the demand on existing or planned water systems (potable and non-potable), sewer systems, storm drainage systems, or other utility systems to a level that is likely to cause an adverse impact on the Town or the environment.

15. Involve any process that generates permanent noise that exceeds the Town's standards (refer to Section 16-#-##).

16. Displace a significant amount of, or significantly increase, the Town's population.

17. Alter a site that is identified in a plan adopted by the Town as desirable for recreational purposes or open space.

18. Alter local traffic patterns, increase traffic volumes and/or increase demands on public transit.

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19. Significantly affect the revenues and/or expenditures of the Town.

20. Increase the demand on public service providers to a level that is likely to cause an adverse impact on such providers.

21. Be part of a larger development that, at any future phase, may involve any of the impacts listed above.

B. Submittal Requirements

1. When required, an applicant is responsible for preparing and submitting a Preliminary Development Assessment as part of any land use and/or subdivision application for their project.

2. A brief description for each item that a proposed development "will" or "could possibly" affect must be included with a Preliminary Development Assessment. The purpose of such description is to provide general information about the potential impact(s) resulting from the proposed development.

Section 16-12-30:Development Impact Report

A. Preparation Requirements

A Development Impact Report and any technical studies and data must be prepared by a qualified professional(s). The qualifications of such professional(s) must be clearly stated in the Development Impact Report.

B. Technical Studies and Data for Report

1. A Development Impact Report must be supported by technical studies and data that address the potential impacts identified by the Preliminary Development Assessment for a proposed development. The data provided in these studies may need to address a range of topics, including, but not limited to the following:

   a. Hydrologic conditions, such as surface drainage and watershed characteristics, groundwater and soil permeability characteristics, and natural water features and characteristics.

   b. Atmospheric conditions, such as air-shed characteristics and potential emissions.

   c. Geologic conditions, such as landforms, slope, soil characteristics, and potential hazards.

   d. Biotic conditions, such as vegetative and wildlife habitat.

   e. Site contamination (i.e., information equivalent to that required for a Phase I Environmental Site Assessment).

   f. Noise levels and odor characteristics.

   g. Visual conditions such as view corridors and scenic values.

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h. Land use conditions, such as characteristics of uses, and compatibility with plans, policies, regulations, and/or standards adopted by the Town.

i. Circulation and transportation conditions, such as traffic volumes and patterns, public transit demands, and alternative transit systems.

j. Population characteristics, such as growth rates, residential densities, neighborhood patterns, and potential displacement of residents or businesses.

k. Fiscal impacts on the Town and other public service providers, such as changes in revenues (e.g., sales tax, property tax, etc.) and expenditures.

2. The technical studies prepared for a Development Impact Report must provide data that describe existing conditions and any potential changes or impacts resulting from a proposed development.

3. Technical studies and data prepared as a part of any other procedure or requirement of this Chapter or of any ordinances or federal, state, county or town regulations also may be used to support a Development Impact Report.

C. Report Requirements

1. A Development Impact Report must summarize the findings and recommendations of the technical and other supporting studies in terms that can be assessed and evaluated by Town staff, the Planning Commission, the Town Council, and the public.

2. Technical studies and data must be submitted as supporting documentation (e.g., exhibits) to a Development Impact Report.

D. Required Contents

1. A Development Impact Report must contain information and analysis, in sufficient detail and adequately supported by technical studies and data, to enable Town staff, the Planning Commission, and the Town Council to evaluate the impact(s) of a proposed development and the measures proposed to reduce or mitigate any harmful impacts.

2. A Development Impact Report must include the following:

a. A general statement identifying and describing the proposed development and its purpose.

b. Descriptive materials, maps, and plans showing the following information. The Planning Director may waive the requirement to submit certain materials, maps, and/or plans if an applicant has submitted these materials for the associated land use or subdivision application.

i. Site boundaries and boundaries of the area within which the impacts are likely to be significant.

ii. Present and proposed uses of the site.

DRAFT

iii. Present and proposed zoning of the site.

iv. Quantitative information relative to the proposed development including, but not limited to, site area, number of residential units, proposed height and bulk of buildings, building floor area in square feet, and other data that will contribute to a clear understanding of the scale of development.

v. A list of regulatory or review agencies and the specific regulations to which the proposed development will be subject to.

c. An inventory, that:

i. Provides reasonably complete information on existing conditions (prior to the proposed development) and that contains sufficient information to permit independent evaluation by reviewers of factors that could be affected by the proposed development.

ii. Includes maps, photographs, and/or other appropriate illustrative material.

iii. Identifies and categorizes areas based on the type of possible impact.

iv. Describes both the physical and biological natural setting and the human-made setting of the site and the surrounding area.

v. Includes a comprehensive, qualitative and quantitative analysis of any significant impact that the proposed development will have on Minturn's key attributes.

vi. Describes temporary effects that will prevail during construction and long-term effects that will prevail after completion.

vii. Describes both beneficial effects and detrimental effects. This analysis must consider primary effects and secondary effects on Minturn's key attributes.

d. An analysis that assesses each of the following in reasonable detail:

i. Adverse effects that cannot be avoided if the proposed development is implemented.

ii. Mitigating measures proposed to minimize impacts from the proposed development.

iii. Construction impacts and short-term effects of the proposed development that significantly reduce or enhance the state of Minturn's key attributes.

iv. Cumulative and long-term effects of the proposed development that significantly reduce or enhance the state of Minturn's key attributes.

v. Alternative designs considered for the proposed development.

DRAFT

vi. Irreversible environmental changes resulting from implementation of the proposed development.

vii. Population impacts of the proposed development.

viii. Fiscal impact of the proposed development on the Town and other public service providers.

E. Additional Requirements

The Planning Director may further prescribe the form and content of a Development Impact Report, setting forth in greater detail the factors to be considered and the manner in which the report shall be prepared, and may require submission of information in addition to that required in this Article.

F. Submittal Requirements

1. An applicant is responsible for preparing and submitting a Development Impact Report to the Planning Director prior to a determination of completeness on the associated land use or subdivision application.

2. Prior to the submittal of a Development Impact Report, the Planning Director shall determine, and inform the applicant of, the format (electronic or hard copy) and number of copies to be submitted.

G. Review

As part of the review process required for a land use or subdivision application:

1. The Planning Director may refer a Development Impact Report to county, state, or federal agencies, other appropriate entities, and/or qualified professionals from which comments are desired.

2. Town staff, the Planning Commission, and the Town Council, as applicable, will review a Development Impact Report and consider the comments and/or recommendations provided by any agencies, entities, and/or professionals that the Development Impact Report is referred to by the Planning Director.

DRAFT

To: Minturn Town Council
From: Michelle Metteer
Date: October 16, 2024
RE: Town Manager Update

Main Street Speed Limit Enforcement

Minturn continues to look for ways to improve the infrastructure on Main Street toward a corridor that naturally facilitates slower vehicular speeds. The bulb out infrastructure, in its presented form, was not conducive to Main Street businesses or parking in general, so all bulb outs have been removed and residents trying to enter Main Street from any side street are back to inching out onto Main Street from a side street, remaining hopeful not to be T-boned in the process. Complicating matters are Main Street drivers who speed.

One potential option for addressing speeding drivers on Main Street is the Local Agency Automated Vehicle Identification System (AVIS) program. I have included information on the VIS program as part of the Manager's report, but to summarize, the Town would work with CDOT and State Highway Patrol for approval to designate Main Street/HWY 24 as an AVI corridor which would require an Ordinance or Resolution of the Council. Upon approval, Minturn would work with CDOT for the implementation of the automated speed enforcement. Additionally, Minturn would secure a contract with a third-party vendor to manage the ticketing system. See the information flyer included for more information.

Water Fluoride Potable Water Additive

Not routinely, but has occurred, the State of Colorado inquires if Minturn's is interested in adding fluoride to our potable water system. I have rejected this concept but want to pass this along to the Council in the event I am not on the same page with the direct the leadership team would like to go regarding additives to the Town's potable water system. Please advise if Council feels otherwise and this can be added as a future Discussion/Direction agenda item.

Membrane Water treatment Plant Grant Funding

A review of all potential water treatment plant infrastructure grant applications by Sustainable Strategies has been submitted to the Town. Minturn has applied for one of the Bureau of Reclamation grants identified in the report and the grant application is included with this update for your review. The grant request is for $3M toward membrane water treatment plant construction. The Town should have the application results by March of 2025.

Minturn North Updates

I met with the construction team this week to discuss the Minturn North Fall project schedule and next steps. We covered the following topics:

- **Security fence & Snow Removal Plan**: Taylor St residents already ignore the current restrictions and walk through the opening of the fence at the 4th Street intersection creating a very dangerous situation whereby the public and large machinery are coming into conflict. I say this to indicate that it's unlikely Taylor residents will voluntarily follow any requests to stay out of the construction area and with massive holes in the project now, the fence will need to remain over the winter season. I am working with public works on the snow removal plan for Taylor St which I expect will include the purchasing of a second large blade for the front loader Michael Martinez operates. This is a $75k cost that will come out of the capital improvements line-item budget and was a long-term purchase needing to be made. I expect this purchase in the 2024 budget in preparation for this snow season.
- **Minturn Rd paving** – We have continued to wait on utility work in the road prior to paving the southern portion of Minturn Road. We are still waiting for Xcel Energy and Comcast. With this in

301 Boulder St #309 • Minturn, CO 81645 • www.minturn.org • info@minturn.org • 970-827-5645

mind, direction has been given to pave in the spring of 2025. This includes the remainder of the county-paid portion of the ECO Trail.

Local Agency Automated Vehicle Identification System (AVIS - CRS 42-4-110.5) Corridor Procedure for State and US Highways

Also referred to as Speed Safety Camera Corridors by FHWA

Release Version: September 2024 (9/30/2024)

Colorado Revised Statute 42-4-110.5 identifies automated vehicle identification systems (AVIS) as a statewide concern and an area where uniform state standards are necessary. This document serves as the Colorado Department of Transportation's (CDOT's) procedure for implementing AVIS for increased law enforcement by local agency jurisdictions on state or US highways.

Definitions:

- AVIS is a Colorado legal term for automated speed photo enforcement that also is synonymous with Speed Safety Cameras as used by the Federal Highway Administration (FHWA). (https://highways.dot.gov/safety/proven-safety-countermeasures)
- An AVIS is, as defined by C.R.S. 42-4-110.5, an automated vehicle identification (AVI) system; a machine used to automatically detect a violation of traffic regulations and simultaneously record a photograph of the vehicle and the license plate of the vehicle.
- An AVIS is a temporary, mobile, or permanent system used to detect speeding violations within a highway maintenance, repair, construction zone, school zone, next to a park, or within an AVI Corridor.
- An AVI Corridor is a designated street or portion of a street that a county or municipality, by ordinance or by a resolution of its governing body, defines as an AVI Corridor on which an AVI system may be located to detect violations of a county or municipal traffic regulation or a traffic violation under state law, specifically for speed violations.

Local agencies shall coordinate with CDOT to implement automated speed enforcement as designated by local agency ordinance per the current Model Traffic Code for all areas along state and US highways. Eligible areas for automated speed enforcement include:

- School zones;
- maintenance, repair or, work zones;
- by municipal parks; or
- within AVI corridors.

AVI Corridors must be approved by CDOT and Colorado State Patrol (CSP) per CRS 2-4-110.5.

Section 1: Overview of AVI Corridor Application (Appendix A):

Instructions and the application forms for a request for an AVI Corridor or multiple AVI Corridors on the state and US highways are available from your CDOT Region Traffic Office or on the CDOT Speed Management Website: https://www.codot.gov/safety/traffic-safety/operations/speed-management-program.

Local Agencies interested in implementing AVI Corridors on state or US highway facilities must complete the following steps:

1. Contact the CDOT Region Traffic Engineer, per Appendix B below, to coordinate with CDOT, CSP, and Local Agency Law Enforcement.
2. Review the AVIS application attached in Appendix A and gather the required data for a complete application.
3. Submit an AVIS application with complete checklists, required data, and the signatures of authorized city, town, or county officials, a CSP representative, a CDOT Region Traffic Engineer, and the CDOT State Traffic Engineer. CDOT will take care of the coordination with state agencies for approval.
4. Submit a CDOT special use permit request with the regional permit manager after approval of the AVIS application, if needed. A CDOT Special Use Permit is required unless another signed agreement (Senate Bill 8, Maintenance Agreement, Intergovernmental Agreement, etc.) specifically allows installation of new signs or cameras on state and US highways.

Once CDOT receives an AVI Corridor application, the Region, HQ, and CSP will review the application to confirm that an AVI Corridor is warranted. The review process will include review of the application for completeness, review of the special use permit application, and identifying other AVI Corridors that may overlap with other automated license plate reader systems including school zones, work zones, and radar speed feedback systems. This justification is crucial to ensure that AVI Corridors and AVIS units are implemented for safety and speeding reduction, not revenue generation.

Additional Guidelines:

- Local agency AVIS infrastructure cannot be installed on CDOT infrastructure or structures unless there is a signed agreement (Senate Bill 8, Maintenance Agreement, Intergovernmental Agreement, etc.) specifically allowing installation.
- A local agency cannot start the implementation of an AVI Corridor or deploy speed safety cameras on state and US highways until both the AVIS application and the special use permit are approved.
- Should operational, safety, or AVIS compliance issues arise from the AVI Corridor, the CDOT Region Traffic Engineer reserves the right to remove all equipment at the expense of the local agency within CDOT Right-Of-Way.
- Local Agencies are required to cover all ongoing costs of their AVIS implementations.

Please address any questions regarding these guidelines to the CDOT Region Traffic Engineer.

Appendix A: AVIS Corridor Implementation Application

Local Agency Contact Information:

(Please type or print all information except the signature of the representative authorized to sign for the town, city, or county)

Local Agency Name: _____

Local Agency Authorized Representative: _____

Local Agency Address: _____

Local Agency Website: _____

Representative Phone Number: _____

Representative Email: _____

Signature of the Local Agency Authorized Representative

_____

AVI Corridor Location: CDOT Region: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

AVI Corridor Request Checklist:

- **Notify CDOT by contacting the Region Traffic Engineer.**
- **Pass an AVI Corridor Ordinance or Resolution.**
- **Fill out and sign the AVI Corridor Application (include the ordinance/resolution).**
- **Prepare AVI Corridor Data Package.**
- **Submit the AVI Corridor application and Data to the Region Traffic Engineer. CDOT will coordinate with the State Traffic Engineer and CSP for application approval.**
- **Submit a Special Use Permit to the Region Permit Office, if required.**

If approved, the local agency is required to:

1. Continue coordination with all impacted law enforcement agencies and CDOT so implementations and changes to corridors can be made public.

2. Obtain any required electrical power service for permanent AVIS deployments. Local agencies are responsible for all ongoing costs associated with electrical power service.

3. Install CDOT standard traffic signs for AVI Corridors at appropriate locations and distances from AVIS (Speed Safety Cameras).

4. Track and post citation and revenue data on the local agency website by February 1st of the following year that the AVI Corridor has been in operation.

Roadway Information: *OTIS Link: https://dtdapps.coloradodot.info/otis

1. **Highway: _____ Mile Marker Start: _____ Mile Marker End: _____ Roadway Direction: _____**
2. **Highway: _____ Mile Marker Start:_____ Mile Marker End:_____ Roadway Direction: _____**
3. **Highway: _____ Mile Marker Start:_____ Mile Marker End: _____ Roadway Direction: _____**
4. **Highway: _____ Mile Marker Start:_____ Mile Marker End: _____ Roadway Direction: _____**

Application Required Documents:

☐ A copy of the approved Ordinance or Resolution for the designation of speed enforcement or an AVI Corridor on state or US highway that adheres to all current C.R.S. § 42-4-110.5 requirements, and any CDOT AVI Corridor rules (unless an AVI Corridor exists or is planned by ordinance pre-January 1st, 2025). Local agencies should plan for future revisions to their ordinance or resolution if state laws change.

- Per C.R.S. § 42-4-110.5, a data package in an easy-to-review PDF or Microsoft Excel format includes **one or more** of the following datasets gathered in the past five years.
  - ☐ Minimum three (3) years of recent corridor-related crash data before the date of request (included in data package);
  - ☐ Minimum of three (3) years of Citation Data for reckless and/or speeding (included in data package);
  - ☐ Minimum of three (3) years of record of Citizen Complaints (dates, milepost location, etc.) (included in data package); and/or
  - ☐ Results of at least one week of Speed Compliance Data gathered within the six (6) months before the date of AVI Corridor application submission to CDOT (included in data package).

- A written operations and maintenance plan that includes compliance with relevant requirements in C.R.S. 42-4-110.5 that include but are not limited to:
  - ☐ A plan for warning and citation administration, including hearings, adjudications, appeals, etc., including the beginning and ending of the warning period and the date when citations will start to be issued. Please note the requirements for notification and payment deadlines for citations in 42-4-110.5 to ensure your ordinances comply.
  - ☐ A visual representation of the location of the speed enforcement locations or AVI Corridor that includes the mile markers, proposed speed enforcement system locations, sign locations (is not fewer than 200' and not more than 500' from each camera location and 300' or less before the start of AVI Corridor), and with lettering that is at least four (4) inches for uppercase letters and two and nine-tenths inches high for lower case letters. All AVIS systems that also detect disobedience to a traffic control signal, another violation of Article 4, or a local traffic ordinance shall not be used unless the state, county, city, and county, or municipality using such system conspicuously posts a sign notifying the public that an AVIS is in use immediately ahead. See *Appendix B* of this document for sign standards for use on state or US highways.
  - ☐ A plan for the public outreach campaign that includes a public announcement on the county or municipal website at least thirty (30) days before the implementation of the speed enforcement warning period.
  - ☐ A schedule showing the thirty (30) day website announcement, thirty (30) days warning notice period, and the start of the violation period.
  - ☐ Scheduled dates for publishing reporting on the local agency website disclosing the number of citations, crash data, and revenue generated by the AVI Corridor, and use of the revenue.
  - ☐ Evidence that submitted plan complies with all requirements of an approved Special Use Permit for any permanent sign or camera locations.
  - ☐ Commitment, by way of signed letter of support from the town, city, or county, to continue coordination with all impacted law enforcement agencies and CDOT.
  - ☐ Evidence that a Special Permit application was submitted to the Region Permit Office, if required. A CDOT Special Use Permit is required unless there is another signed agreement (Senate Bill 8, Maintenance Agreement, Intergovernmental Agreement, etc.) specifically allowing installation of new signs or cameras on state and US highways.

CSP AND CDOT Approval Section:

Per Colorado Revised Statutes 42-4-110.5, the designation and operation of automated vehicle identification systems (AVIS) Corridors require CDOT and CSP approval.

CDOT Region Review and Approval **Date:**_____

CDOT Approving Region and Representative: _____

CDOT Region Traffic Engineer Signature: _____

Approved: ☐ Not-Approved: ☐

Justification Section:

CDOT HQ Review and Approval **Date:**_____

CDOT State Traffic Representative: _____

CDOT State Traffic Engineering Signature: _____

Approved: ☐ Not-Approved: ☐

Justification Section:

CSP Review and Approval **Date:**_____

CSP Representative: _____

CSP Signature: _____

Approved: ☐ Not-Approved: ☐

Justification Section:

Appendix B: Speed Safety Camera (AVIS) Resources

Part I: CDOT Region and Headquarters Resources

CDOT Traffic Engineer Office Contacts:

Region 1:
Alazar Tesfaye, P.E.
2829 W Howard Pl., Denver, CO 80204
Ph: 303-365-7318
Email: Alazar.Tesfaye@state.co.us

Region 2:
Jason Nelson, P.E.
5615 Wills Blvd., Pueblo, CO 81008
Ph: 719-546-5411
Email: Jason.Nelson@state.co.us

Region 3:
Zane Znamenacek, P.E.
222 South 6th St., Room 100, Grand Junction, CO 81501
Ph: 970-683-6275
Email: Zane.Znamenacek@state.co.us

Region 4:
Katrina Kloberdanz, P.E.
10601 W. 10th St., Greeley, CO 80634
Ph: 970-302-6724
Email: Katrina.Kloberdanz@state.co.us

Region 5:
Jennifer Allison, P.E.
3803 N. Main Ave., Suite 100, Durango, CO 81301
Ph: 970-385-1449
Email: Jennifer.Allison@state.co.us

CDOT Traffic Safety and Engineering Services

State Traffic Engineer
San Lee, P.E.
2829 W Howard Pl., Denver, CO 80204
Ph: 303-757-9345
Email: San.Lee@state.co.us

AVIS Program Manager
Benjamin Acimovic, P.E.
2829 W Howard Pl., Denver, CO 80204
Ph: 720-951-6151
Email: Benjamin.Acimovic@state.co.us

CDOT Utility Permit Program Office Contacts:

Region 1:
Jacquelyn Jobe
2829 W Howard Pl., Denver, CO 80204
Ph: 303-512-4272
Email: Jacquelyn.Jobe@state.co.us

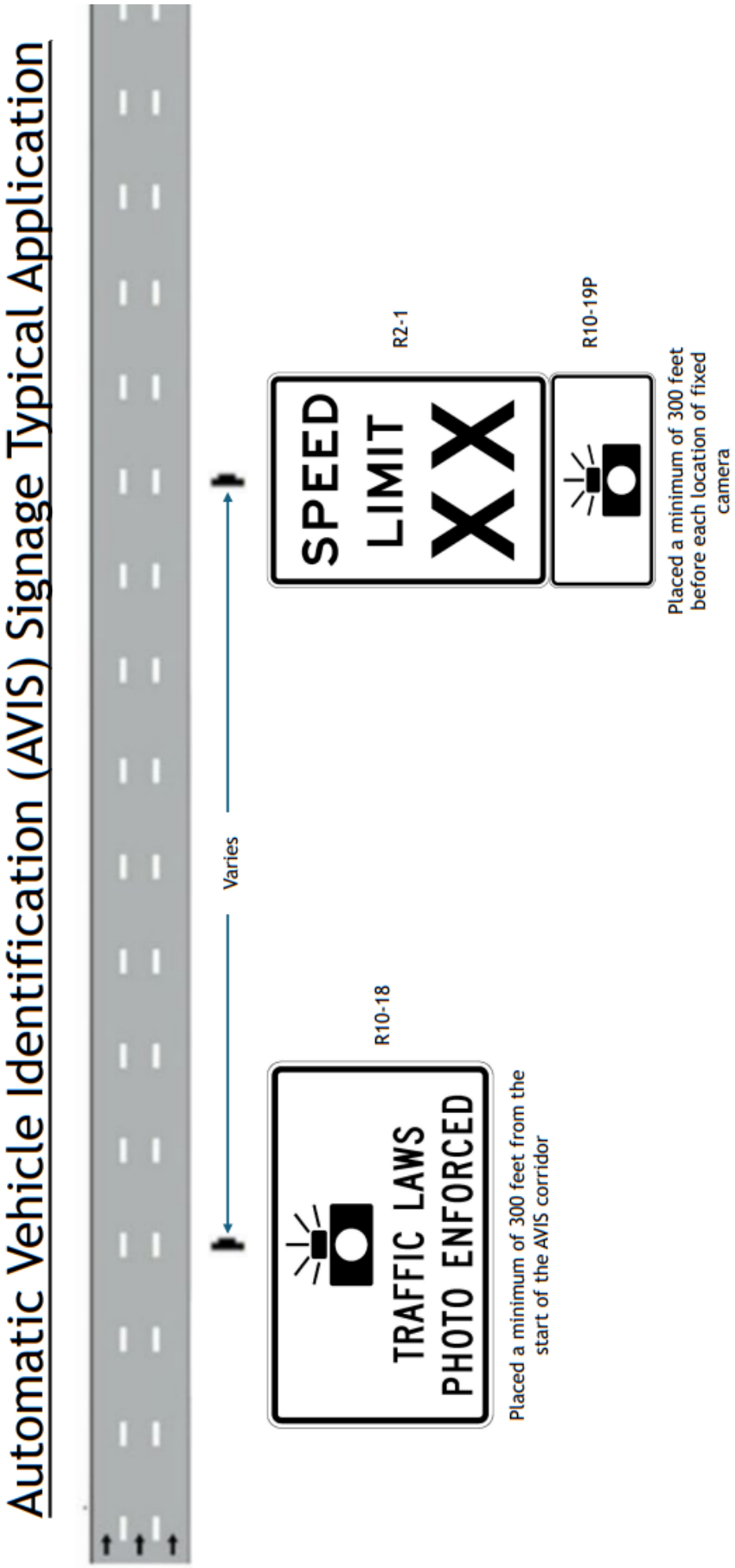
Region 2:
Adam Lancaster
5615 Wills Blvd., Pueblo, CO 81008
Ph: 719-562-554
Email: adam.lancaster@state.co.us

Region 3:
Joel Berschauer
222 South 6th St., Room 100, Grand Junction, CO 81501
Ph: 970-683-6288
Email: joel.berschauer@state.co.us

Region 4:
Dustin Steelman
10601 W. 10th St., Greeley, CO 80634
Ph: 970-373-7736
Email: dustin.steelman@state.co.us

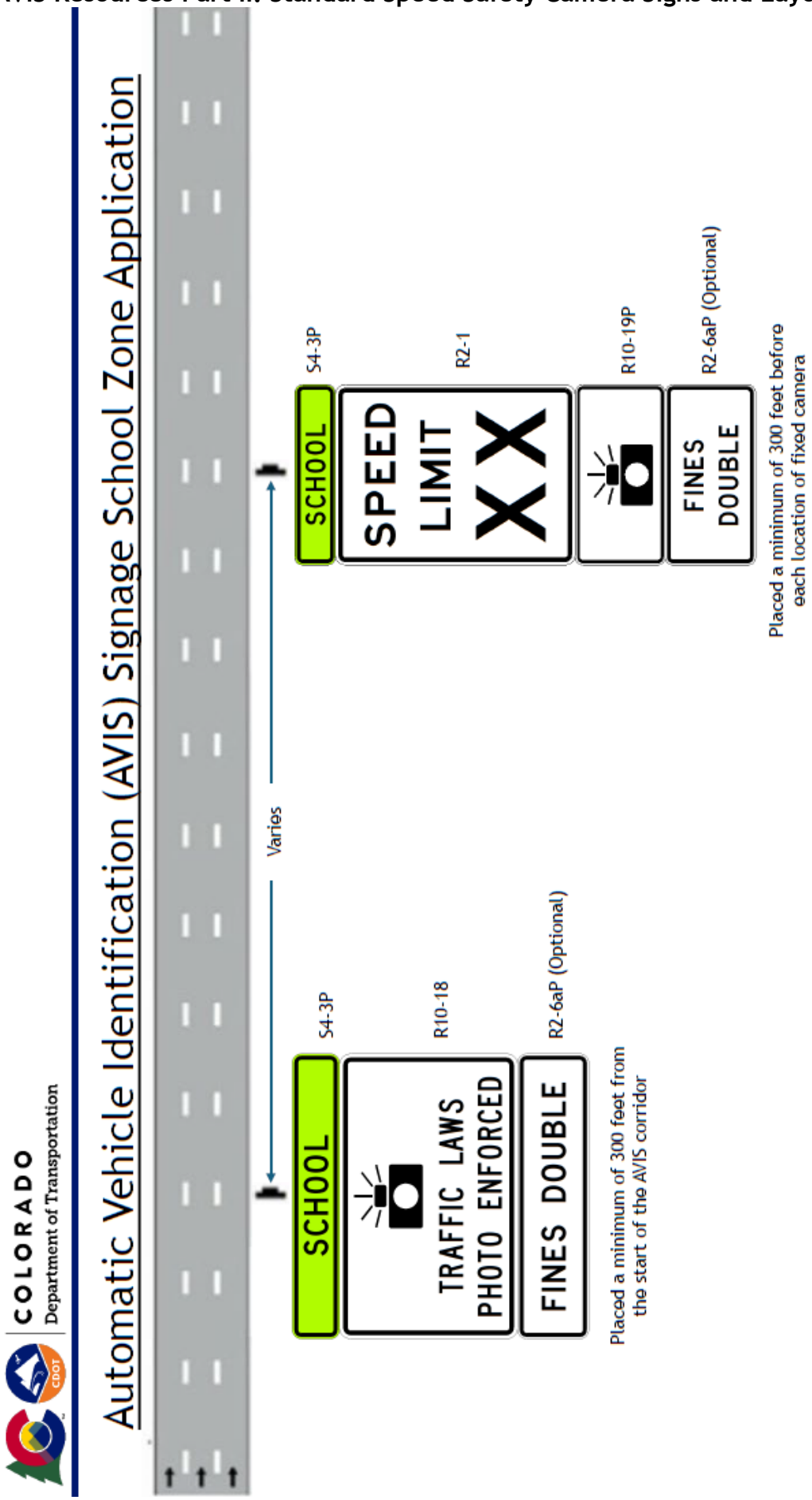
Region 5:
Randee Reider
3803 N. Main Ave., Suite 100, Durango, CO 81301
Ph: 970-385-8361
Email: randee.reider@state.co.us

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts:



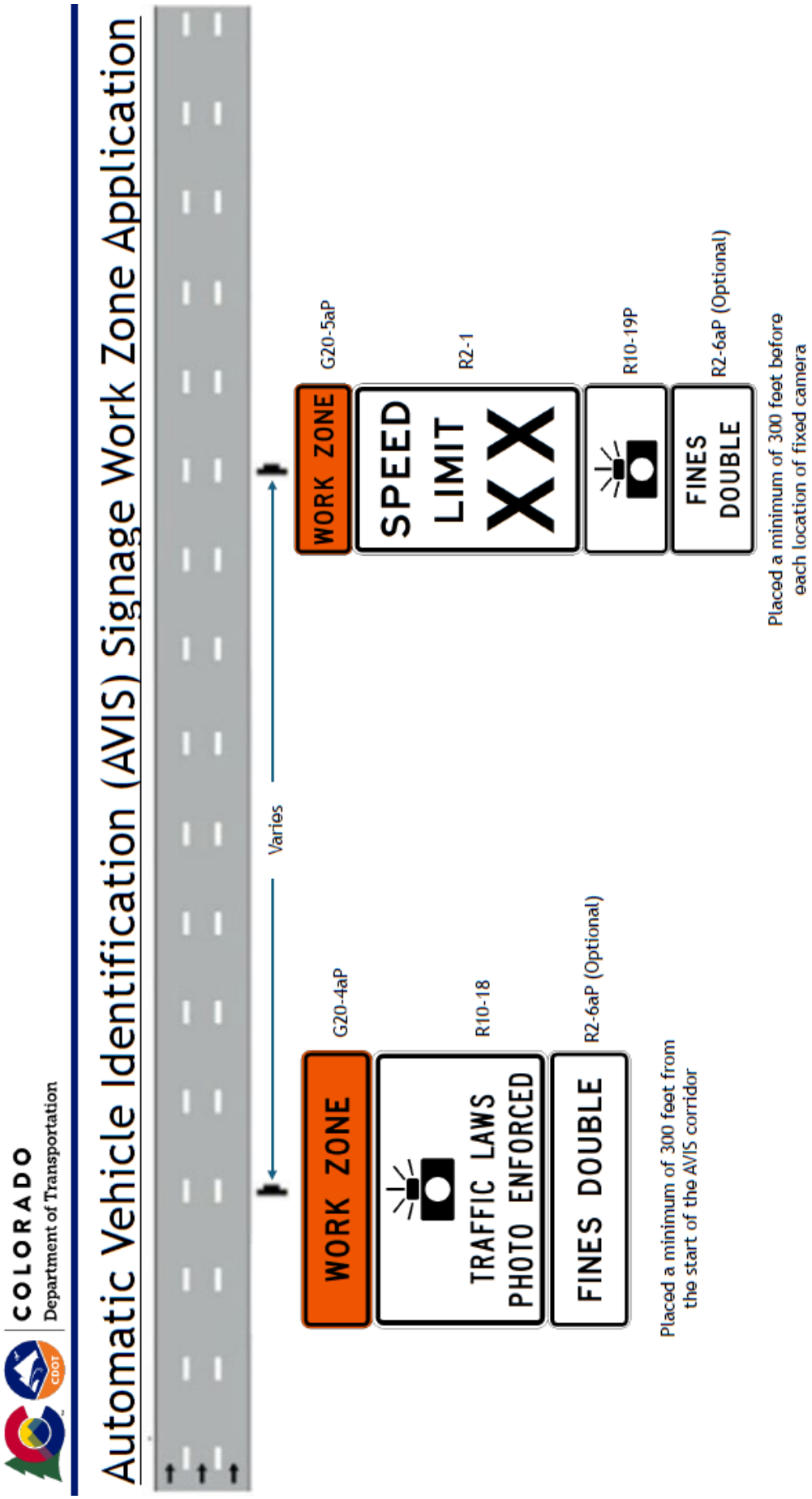
Note: CDOT recommends the placement of multiple R10-18 signs at strategic locations for longer AVI Corridors.

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts:



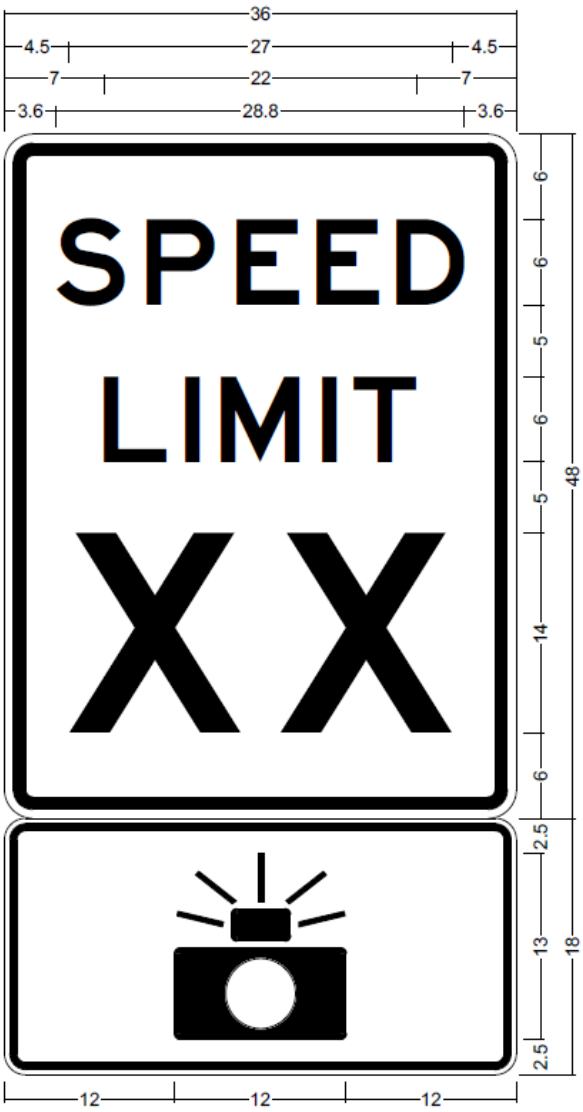
Note: CDOT recommends the placement of multiple R10-18 signs at strategic locations for longer AVI Corridors

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts:



Note: CDOT recommends the placement of multiple R10-18 signs at strategic locations for longer AVI Corridors

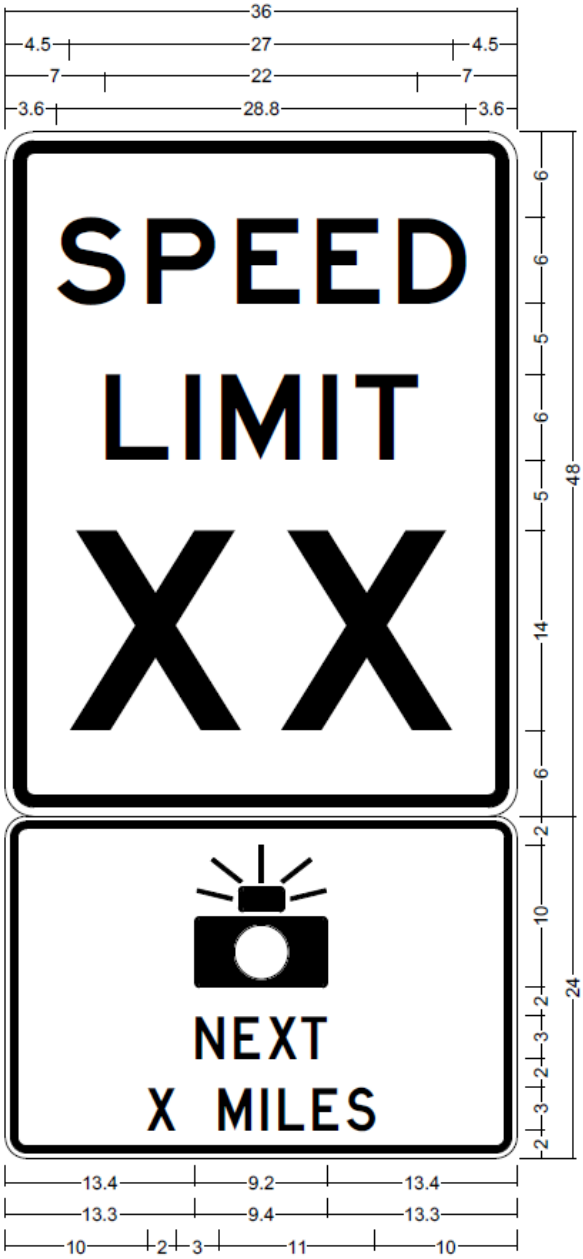
Resources Part II: Standard Speed Safety Camera Signs and Layouts (SignCAD Available by Request):



R2-1;
2.0" Radius, 0.9" Border, 0.6" Indent, Black on White;
"SPEED", E; "LIMIT", E; "XX", E;

R10-19P;
1.5" Radius, 0.5" Border, 0.4" Indent, Black on White;
Table of distances between letter and object lefts

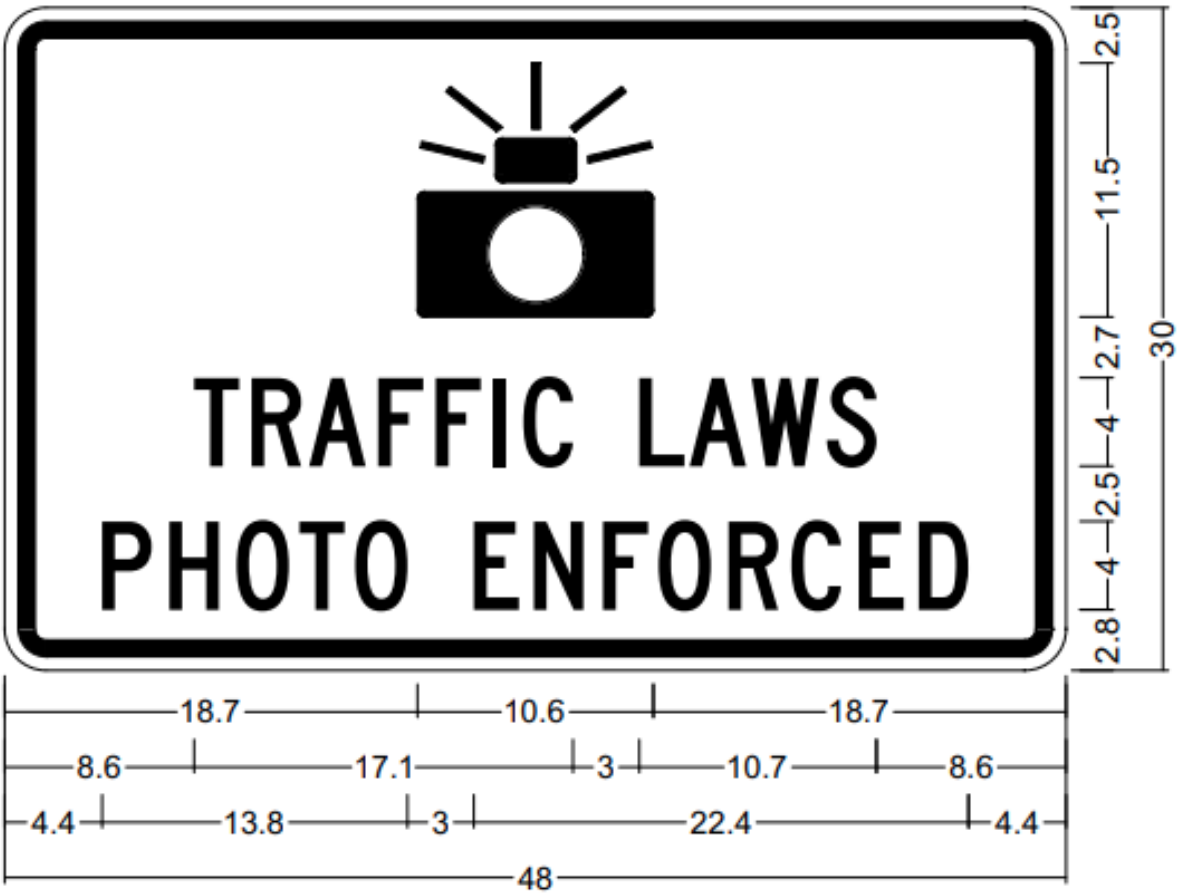
3.6	S 6.4	P 6.3	E 5.6	E 5.7	D 4.8	3.6
7.0	L 5.7	I 2.5	M 7.1	I 2.3	T 4.4	7.0
4.5	X 14.9	X 12.1	4.5			
12.0	12.0	12.0				



R2-1;
2.0" Radius, 0.9" Border, 0.6" Indent, Black on White;
"SPEED", E; "LIMIT", E; "XX", E;

R10-19qP;
1.5" Radius, 0.5" Border, 0.4" Indent, Black on White;
"NEXT", D; "X MILES", D;
Table of distances between letter and object lefts

3.6	S 6.4	P 6.3	E 5.6	E 5.7	D 4.8	3.6
7.0	L 5.7	I 2.5	M 7.1	I 2.3	T 4.4	7.0
4.5	X 14.9	X 12.1	4.5			
13.4	9.2	13.4				
13.3	N 2.8	E 2.3	X 2.4	T 1.9	13.3	
10.0	X 5.0	M 3.0	I 1.2	L 2.4	E 2.4	S 2.0	10.0



R10-18_48x30;

1.9" Radius, 0.8" Border, 0.6" Indent, Black on White;

"TRAFFIC", C 2K specified length; "LAWS", C 2K specified length;

"PHOTO", C 2K specified length;

"ENFORCED", C 2K specified length;

Table of distances between letter and object lefts

18.7	10.6	18.7

8.6	T 2.6	R 2.6	A 3.1	F 2.6	F 2.6	I 1.4	C 5.2	L 2.3	A 2.8	W 3.4	S 2.2	8.6

4.4	P 3.1	H 3.0	O 2.8	T 2.6	O 5.3	E 2.7	N 3.2	F 2.5	O 3.1	R 2.9	C 3.0	E 2.7	D 2.3	4.4

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts (SignCAD Available by Request):

G20-5aP_48x12;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
"WORK ZONE", D;
Table of distances between letter and object lefts

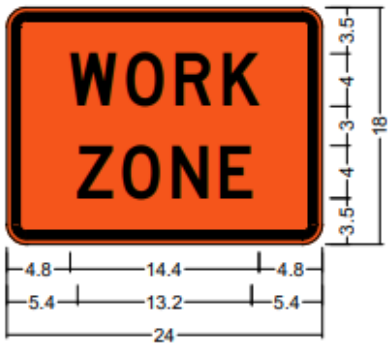
8.2	W 4.2	O 3.8	R 3.6	K 6.8	Z 3.4	O 3.8	N 3.6	E 2.4	8.2

G20-5aP_36x12;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
"WORK ZONE", D;
Table of distances between letter and object lefts

2.2	W 4.2	O 3.8	R 3.6	K 6.8	Z 3.4	O 3.8	N 3.6	E 2.4	2.2

G20-5aP_30x18;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
"WORK", D; "ZONE", D;
Table of distances between letter and object lefts

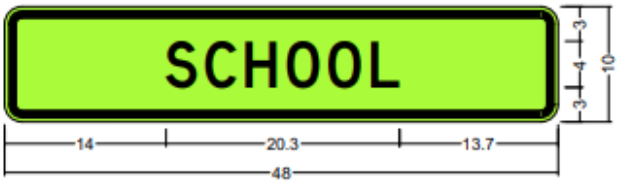
7.8	W 4.3	O 3.7	R 3.6	K 2.8	7.8
8.4	Z 3.4	O 3.8	N 3.6	E 2.4	8.4



G20-5aP_24x18;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Orange;
"WORK", D; "ZONE", D;
Table of distances between letter and object lefts

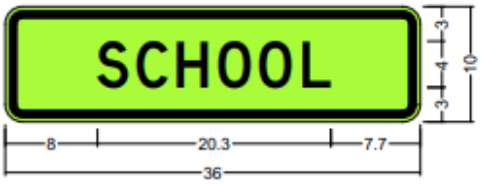
4.8	W 4.3	O 3.7	R 3.6	K 2.8	4.8
5.4	Z 3.4	O 3.8	N 3.6	E 2.4	5.4

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts (SignCAD Available by Request):



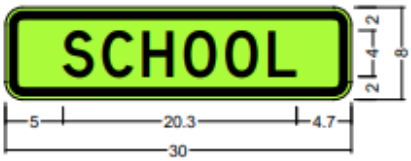
S4-3P_48x12;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Bright yellow green;
"SCHOOL", D;
Table of distances between letter and object lefts

	S	C	H	O	O	L	
14.0	3.4	3.5	3.6	3.6	3.7	2.5	13.7



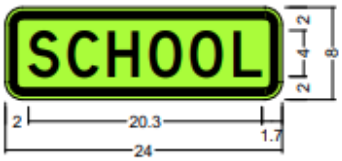
S4-3P_36x12;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Bright yellow green;
"SCHOOL", D;
Table of distances between letter and object lefts

	S	C	H	O	O	L	
8.0	3.4	3.5	3.6	3.6	3.7	2.5	7.7



S4-3P_30x8;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Bright yellow green;
"SCHOOL", D;
Table of distances between letter and object lefts

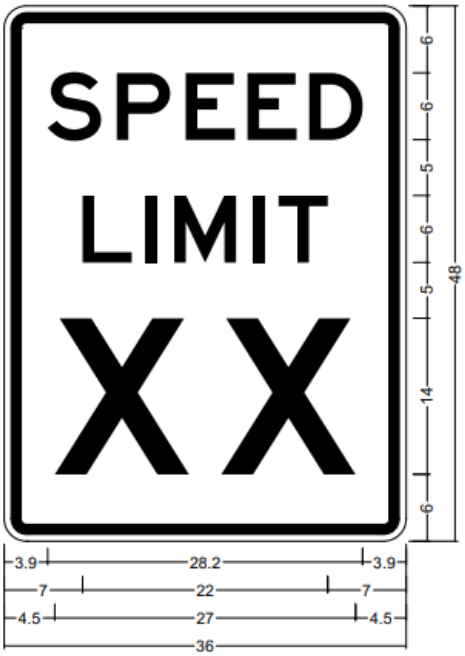
	S	C	H	O	O	L	
5.0	3.4	3.5	3.6	3.6	3.7	2.5	4.7



S4-3P_24x8;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on Bright yellow green;
"SCHOOL", D;
Table of distances between letter and object lefts

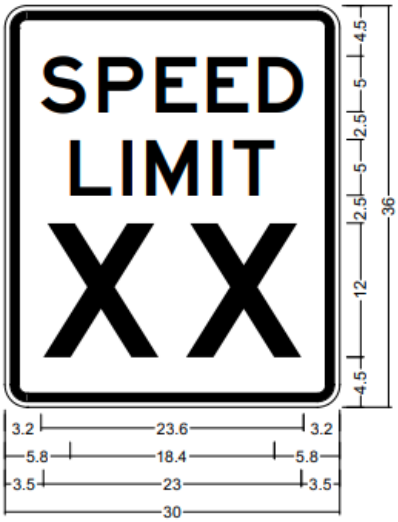
	S	C	H	O	O	L	
2.0	3.4	3.5	3.6	3.6	3.7	2.5	1.7

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts (SignCAD Available by Request):



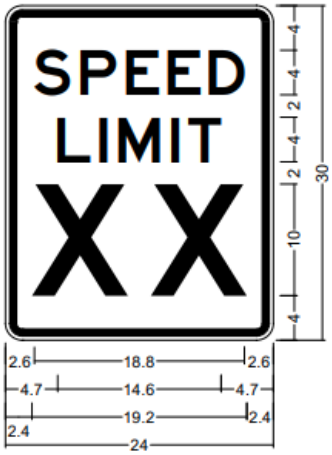
R2-1_36x48;
2.0" Radius, 0.9" Border, 0.6" Indent, Black on White;
"SPEED", E specified length;
"LIMIT", E specified length; "XX", E;
Table of distances between letter and object lefts

3.9	S 6.2	P 6.2	E 5.5	E 5.5	D 4.8	3.9
7.0	L 5.7	I 2.5	M 7.1	I 2.3	T 4.4	7.0
4.5	X 14.9	X 12.1	4.5			



R2-1_30x36;
2.0" Radius, 0.8" Border, 0.5" Indent, Black on White;
"SPEED", E specified length;
"LIMIT", E specified length; "XX", E;
Table of distances between letter and object lefts

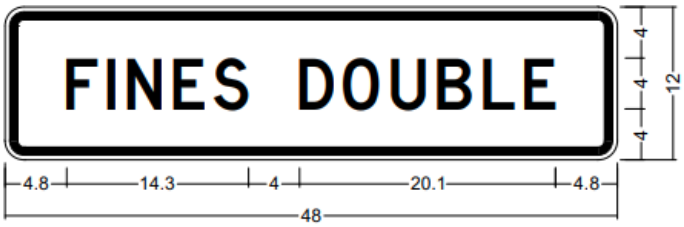
3.2	S 5.2	P 5.2	E 4.6	E 4.6	D 4.0	3.2
5.8	L 4.7	I 2.2	M 5.9	I 1.9	T 3.7	5.8
3.5	X 12.7	X 10.3	3.5			



R2-1_24x30;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
"SPEED", E specified length;
"LIMIT", E specified length;
"XX", E;
Table of distances between letter and object lefts

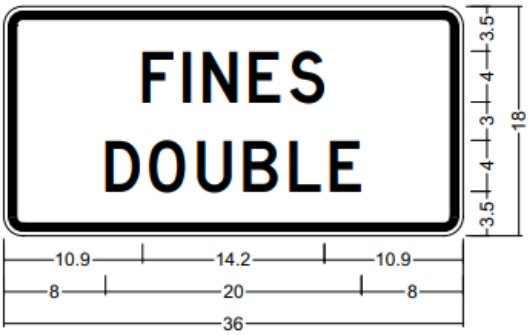
2.6	S 4.1	P 4.1	E 3.7	E 3.7	D 3.2	2.6
4.7	L 3.7	I 1.8	M 4.7	I 1.5	T 2.9	4.7
2.4	X 10.6	X 8.6	2.4			

AVIS Resources Part II: Standard Speed Safety Camera Signs and Layouts (SignCAD Available by Request):



R2-6aP_48x12;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
"FINES DOUBLE", D;
Table of distances between letter and object lefts

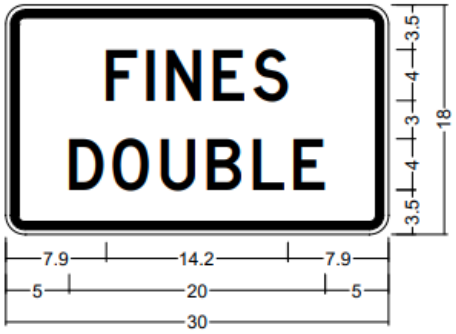
	F	I	N	E	S	D	O	U	B	L	E	
4.8	3.2	1.6	3.6	3.2	6.7	3.4	3.8	3.6	3.6	3.2	2.5	4.8



R2-6aP_36x18;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
"FINES", D; "DOUBLE", D;
Table of distances between letter and object lefts

	F	I	N	E	S		
10.9	3.2	1.5	3.7	3.1	2.7	10.9	

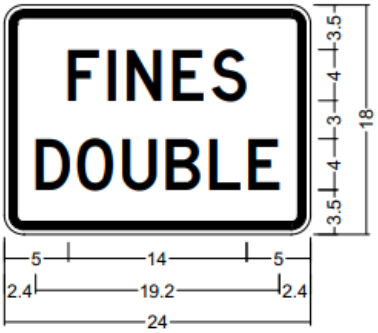
	D	O	U	B	L	E	
8.0	3.4	3.8	3.6	3.6	3.2	2.4	8.0



R2-6aP_30x18;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
"FINES", D; "DOUBLE", D;
Table of distances between letter and object lefts

	F	I	N	E	S		
7.9	3.2	1.5	3.7	3.1	2.7	7.9	

	D	O	U	B	L	E	
5.0	3.4	3.8	3.6	3.6	3.2	2.4	5.0



R2-6aP_24x18;
1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;
"FINES", D specified length;
"DOUBLE", D specified length;
Table of distances between letter and object lefts

	F	I	N	E	S		
5.0	3.1	1.5	3.6	3.1	2.7	5.0	

	D	O	U	B	L	E	
2.4	3.3	3.6	3.4	3.4	3.0	2.5	2.4

Resources Part III: Speed Safety Cameras Best Practices and Resources

Speed Safety Cameras: Federal Highway Administration: FHWA-SA-21-07:

- https://highways.dot.gov/safety/proven-safety-countermeasures/speed-safety-cameras
- https://www.towardzerodeaths.org/nhtsa-fhwa-speed-safety-camera/

Speed Safety Cameras: Governor's Highway Safety Association

- https://www.ghsa.org/state-laws/issues/speed%20and%20red%20light%20cameras

Setting Speeds:

- N.A.C.T.O.: https://nacto.org/program/setting-safer-speed-limits/
- WHO: https://www.who.int/publications/m/item/speed-management--a-road-safety-manual-for-decision-makers-and-practitioners. 2nd-edition
- F.H.W.A.: Setting Speed Limits for Safety | F.H.W.A. (dot.gov)

Application Questions:

Q: Do we need to apply to use AVIS on local roadways?
A: No. The application is only for state and US highways.

Q: Can we deploy speed safety cameras on interstate highways?
A: No. CRS 42-4-110.5 only allows CDOT or CSP to deploy speed safety cameras on interstate highways.

Q: Can we use the application for multiple corridors?
A: Yes. You can use one application for multiple corridors or one application per corridor.

Q: Do we need to apply if we are deploying AVIS in work zones, school zones, or next to municipal parks?
A: No. However, if permanent cameras or signs are deployed, the local agency shall submit a special use permit application to the region permit office.

Q: Can we use new or existing red-light running cameras for speed enforcement on AVI corridors?
A: Yes. Existing red light running cameras are already pre-approved. New red-light running cameras must be approved through a separate application process. Red-light running applications are available at the CDOT Region Traffic Office.

Q: When do we need to submit a special use permit application?
A: An approved special use permit is required for any AVIS implementation that requires permanent signage or camera locations unless there is another signed agreement (Senate Bill 8, Maintenance Agreement, Intergovernmental Agreement, etc.) explicitly allowing the installation of new signs or cameras on state and US highways.

Q: How do we submit the application?
A: Please submit your application via email to your region traffic engineer from the list in Appendix B: Speed Safety Camera (AVIS) Resources.

Q: Who can sign the application?
A: Only an authorized local agency representative who can legally sign documents can sign the application.

Q: Can the plan for warning and citation administration, including hearings, adjudications, appeals, etc., including the beginning and end of the warning period and the date when citations will start to be issued, be a high-level plan?
A: Yes, as long as it complies with 42-4-110.5.

Q: Does a local agency have to reapply yearly for an AVI corridor?
A: No. Unless an AVI corridor is decommissioned and removed, it is active indefinitely once a corridor is approved.

Q: What do we need to do if speed limits are changed?
A: At a minimum, CDOT recommends a new announcement on the local agency website and a new 30-day warning period.

Data Questions:

Q: What is the maximum age of data required by the application and statute?
A: Data collected for AVIS corridors must be under five (5) years old.

Q: Our segments vary in length. Does it matter where/how much we collect data?
A: No. CDOT recommends collecting data where the cameras or AVIS will most likely be deployed.

Q: Do we need all the listed data sets for an AVI corridor application?
A: No. Only one data set is required per 42-4-110.5.

Q: Is one week of speed data enough for the AVI corridor application?
A: Yes. CDOT recommends at least one week of data that includes weekends and weekdays. CDOT also recommends collecting data for 24-hour periods if possible.

Signage Questions

Q: How detailed does the visual representation need to be? Can it be created on GIS/PowerPoint to show aerial and high-level locations of the van/cameras, signs, and mile markers?
A: CDOT does not have any required formatting. An aerial view showing the locations of the van/cameras, signs, mile markers, and distances is adequate.

Q: Do we have to follow the CDOT sign standards for AVIS corridors on state and US highways?
A: Yes. CDOT sign standards were developed for statewide consistency on state and US highways.

Q: What exactly do we need for photo radar vans?
A: For typical implementations, one R2-1 with an R10-19P placed a minimum of 300' conspicuously before the photo radar van. The minimum dimensions of the lettering are at least four (4) inches for uppercase letters and two and nine-tenths inches high for lowercase letters. Please use the appropriate add-on sign placards for school and work zone corridors.

Q: Do we need to double the signs when a corridor changes from a state or US highway to a city, town or county roadway?
A: No. Please have one sign, a single R10-18, at the beginning of the corridor in either direction.

Q: How detailed does the maintenance plan for signs and equipment need to be?
A: The plan should detail how often permanent signs and cameras will be replaced. A simple statement that the local agency agrees to maintain AVIS and signage that follows its maintenance plan is enough.

Q: Do we need extra signage for streets joining into the enforced corridor?
A: 42-4-110.5 does not require extra signage for streets joining the enforced corridor. CDOT recommends adding signage to the corridor's major ingresses, but that is up to the local agency.

Public Outreach:

Q: Can we do a mass public outreach to capture all locations?
A: CRS 42-4-110.5 requires a public announcement on a local agency website before the agency implements any new AVIS on any roadway. CDOT recommends an announcement for all new corridors.

Q: Do we have to do it before every single deployment?
A: No. The statute website announcement before the first deployment or implementation in the corridor. CDOT recommends robust and frequent public outreach so the public is well informed.

Q: What must be posted on the website for AVIS corridor reporting?
A: 42-4-110.5 requires local agencies, CSP, or CDOT to report, at a minimum, the number of citations and revenue. Other agencies report the number of deployments, before and after safety statistics, where revenue goes, and the status of corridors. More outreach and transparency show better public acceptance and results.

Enforcement Location Questions:

Q: Does the warning period have to be for every van location in the same corridor? Vans are mobile and do not sit for 30 days straight, so it would take months to fulfill a 30-day warning.
A: 42-4-110.5 as follows: “(B) For the first thirty days after the system is installed or deployed, only warnings may be issued for violations of a county or municipal traffic regulation or traffic violation under state law detected by the system.” The local agency needs to determine how best to meet the statute.

Q: If CDOT requires removing the AVIS infrastructure on any state or US highway, can the local agency turn off the equipment within sixty (60) days and cover the cameras if removal is impossible within the time limit.
A: The local agency can turn off the equipment and cover signs and/or cameras until removal is completed. Written notification for the decommissioning and removal of signs and/or cameras can be submitted to the region's CDOT traffic office.

Colo. Rev. Stat. § 42-4-110.5

Section 42-4-110.5 - Automated vehicle identification systems - exceptions to liability - penalty - limits on use of photographs and video - rules - legislative declaration - definitions

(1) The general assembly hereby finds and declares that the enforcement of traffic laws through the use of automated vehicle identification systems under this section is a matter of statewide concern and is an area in which uniform state standards are necessary.

(1.1) As used in this section, unless the context otherwise requires:

(a)

(I) "Automated vehicle identification system" means a system whereby:

(A) A machine is used to automatically detect a violation of a traffic regulation and simultaneously record a photograph of the vehicle and the license plate of the vehicle; and

(B) A notice of violation or civil penalty assessment notice may be issued to the registered owner of the motor vehicle.

(II) "Automated vehicle identification system" includes a system used to detect a violation of part 11 of this article 4 or a local speed ordinance, a system used to detect violations of traffic restrictions imposed by traffic signals or traffic signs, and a system used to detect violations of bus lane or bicycle lane restrictions.

(b) "State", notwithstanding section 42-1-102 (95), means the state of Colorado acting through the Colorado state patrol in the department of public safety or the department of transportation.

(c) "State highway" means any highway that is owned by or maintained by the state. "State highway" does not include a public highway operated by a public highway authority in accordance with the "Public Highway Authority Law", part 5 of article 4 of title 43.

(1.4) Nothing in this section applies to the use of automated vehicle identification systems for the purpose of collecting tolls, fees, or civil penalties in accordance with part 5 of article 4 of title 43 and section 43-4-808.

(1.5) Except for the authorization contained in subsection (1.7) of this section, nothing in this section applies to a violation detected by an automated vehicle identification system for driving twenty-five miles per hour or more in excess of the reasonable and prudent speed or twenty-five miles per hour or more in excess of the maximum speed limit of seventy-five miles per hour detected by the use of an automated vehicle identification system.

(1.7) [Repealed by 2024 amendment]

(2)A county, city and county, or municipality may adopt an ordinance authorizing the use of an automated vehicle identification system to detect violations of traffic regulations adopted by the county, city and county, or municipality, or the state, a county, a city and county, or a municipality may utilize an automated vehicle identification system to detect traffic

violations under state law, subject to the following conditions and limitations and, as applicable, the requirements for state highways set forth in and any rules adopted by the department of transportation pursuant to subsection (2.5) of this section

(a)

(I) (Deleted by amendment, l. 2002, p. 570, § 1, effective May 24, 2002.)

(II) If the state, a county, a city and county, or a municipality detects any alleged violation of a county or municipal traffic regulation or a traffic violation under state law through the use of an automated vehicle identification system, then the state, county, city and county, or municipality shall issue, or cause its vendor to issue, to the registered owner of the motor vehicle involved in the alleged violation, by first-class mail, personal service, or by any mail delivery service offered by an entity other than the United States postal service that is equivalent to or superior to first-class mail with respect to delivery speed, reliability, and price, a notice of violation:

(A) Within thirty days after the alleged violation occurred if the motor vehicle involved in the alleged violation is registered in the state; or

(B) Within sixty days after the alleged violation occurred if the motor vehicle involved in the alleged violation is registered outside of the state.

(III) The notice of violation must contain:

(A) The name and address of the registered owner of the motor vehicle involved in the alleged violation;

(B) The license plate number of the motor vehicle involved in the alleged violation;

(C) The date, time, and location of the alleged violation;

(D) The amount of the civil penalty prescribed for the alleged violation;

(E) The deadline for payment of the prescribed civil penalty and for disputing the alleged violation; and

(F) Information on how the registered owner may either dispute the alleged violation in a hearing or pay the prescribed civil penalty.

(IV) If the state, a county, a city and county, or a municipality does not receive the prescribed civil penalty or a written notice requesting a hearing to dispute the alleged violation by the deadline stated on the notice of violation, which deadline must not be less than forty-five days after the issuance date on the notice of violation, the state, county, city and county, or municipality shall issue, or cause its vendor to issue, by first-class mail, personal service, or by any mail delivery service offered by an entity other than the United States postal service that is equivalent to or superior to first-class mail with respect to delivery speed, reliability, and price, a civil penalty assessment notice for the alleged violation to the registered owner of the motor vehicle involved in the alleged violation no later than thirty days after the deadline on the notice of violation.

(V) The civil penalty assessment notice must contain:

(A) The name and address of the registered owner of the motor vehicle involved in the alleged violation;

(B) The license plate of the motor vehicle involved in the alleged violation;

(C) The date, time, and location of the alleged violation;

(D) The amount of the civil penalty prescribed for the alleged violation;

(E) The deadline for payment of the prescribed civil penalty;

(F) Information on how to pay the prescribed civil penalty.

(VI) If the registered owner of the motor vehicle fails to request a hearing to dispute the alleged violation by the deadline stated in the notice of violation, the registered owner waives any right to contest the violation or the amount of the prescribed civil penalty.

(VII) If the registered owner of the motor vehicle fails to pay in full the prescribed civil penalty by the deadline stated in the civil penalty assessment notice, a final order of liability shall be entered against the registered owner of the vehicle.

(VIII) Final orders may be appealed as to matters of law and fact to the county court in the county where the alleged violation or the municipal court in the municipality where the alleged violation occurred. The registered owner of the motor vehicle may assert in an appeal that a notice of violation served by first-class mail or other mail delivery service was not actually delivered. The appeal shall be a de novo hearing.

(IX) the state, a county, a city and county, or a municipality shall not initiate or pursue a collection action against a registered owner of a motor vehicle for a debt resulting from an unpaid penalty assessed pursuant to this section unless the registered owner is personally served the notice of violation or the final order of liability.

(X) If the registered owner of a motor vehicle involved in a traffic violation under state law or under traffic regulations adopted by a county, city and county, or municipality is engaged in the business of leasing or renting motor vehicles, the registered owner remains liable for payment of the civil penalty even if the registered owner was not driving the motor vehicle but may obtain payment from the lessor or renter of the motor vehicle and forward the payment to the state or the county, city and county, or municipality imposing the civil penalty.

(b) Notwithstanding any other provision of the statutes to the contrary, the state, a county, a city and county, or a municipality shall not report to the department any conviction or entry of judgment against a defendant for violation of a county or municipal traffic regulation or a traffic violation under state law if the violation was detected through the use of an automated vehicle identification system.

(c) Repealed.

(d)

(I) The state, a county, a city and county, or a municipality shall not use an automated vehicle identification system to detect a violation of part 11 of this article 4 or a local speed ordinance unless there is posted an appropriate temporary or permanent sign in a conspicuous place not fewer than three hundred feet before the area in which the automated vehicle identification system is to be used notifying the public that an automated vehicle identification system is in use immediately ahead. The requirement of this subsection (2)(d)(I) shall not be deemed satisfied by the posting of a permanent sign or signs at the borders of a county, city and county, or municipality, nor by the posting of a permanent sign in an area in which an automated vehicle identification system is to be used, but this subsection (2)(d)(I) shall not be deemed a prohibition against the posting of such permanent signs.

(II) Except as provided in subsection (2)(d)(I) of this section, an automated vehicle identification system designed to detect disobedience to a traffic control signal or another violation of this article 4 or a local traffic ordinance shall not be used unless the state, county, city and county, or municipality using such system conspicuously posts a sign notifying the public that an automated vehicle identification system is in use immediately ahead. The sign shall:

(A) Be placed in a conspicuous location not fewer than two hundred feet nor more than five hundred feet before the automated vehicle identification system; and

(B) Use lettering that is at least four inches high for upper case letters and two and nine-tenths inches high for lower case letters.

(e)

(I) If the state, county, city and county, or municipality implements a new automated vehicle identification system after July 1, 2023, that is not a replacement of an automated vehicle identification system:

(A) The agency responsible for the automated vehicle identification system shall publicly announce the implementation of the system through its website for at least thirty days prior to the use of the system; and

(B) For the first thirty days after the system is installed or deployed, only warnings may be issued for violations of a county or municipal traffic regulation or traffic violation under state law detected by the system.

(II) A state, county, city and county, or municipality may conduct an extended public information campaign or warning period for systems installed or deployed either before or after July 1, 2023.

(f) [Deleted by 2023 amendment.]

(g)

(I) The state, a county, a city and county, or a municipality shall not issue a notice of violation or civil penalty assessment notice for a violation detected using an automated vehicle identification system unless the violation occurred within a school zone, as defined in section 42-4-615; within a residential neighborhood; within a maintenance,

construction, or repair zone designated pursuant to section 42-4-614; along a street that borders a municipal park; or along a street or portion of a street that a county, city and county, or municipality, by ordinance or by a resolution of its governing body, designates as an automated vehicle identification corridor, on which designated corridor the county, city and county, or municipality may locate an automated vehicle identification system to detect violations of a county, city and county, or municipal traffic regulation or a traffic violation under state law.

(A)

(B)

(C)

(I.3) Before a county, a city and county, or a municipality designates an automated vehicle identification corridor on a state highway, the county, city and county, or municipality shall notify the department of transportation. If a county, city and county, or municipality designates an automated vehicle identification corridor on a state highway by ordinance or resolution before January 1, 2025, it may proceed without having provided this notification to the department of transportation.

(I.4) After a county, city and county, or a municipality designates an automated vehicle identification corridor on a state highway, the county, city and county, or municipality shall coordinate with the department of transportation. Coordination must include demonstrating that the requirements set forth in subsection (2)(g)(I.7)(B) of this section have been met and, if needed, applying for a special use permit to install any devices or signage on department of transportation right-of-way if the segment of highway in question is maintained by the state. A county, city and county, or municipality shall alert the department of transportation when the automated vehicle identification corridor begins operations or permanently ceases operations on a state highway. The department of transportation shall notify the Colorado state patrol when a county, city and county, or municipality coordinates with the department of transportation to establish an automated vehicle identification corridor on a state highway.

(I.5) Before a county, city and county, or municipality begins the operation of an automated vehicle identification system in an automated vehicle identification corridor on a county road, the county, city and county, or municipality shall notify the Colorado state patrol.

(I.6) Before the state designates an automated vehicle identification corridor on a state highway located within the boundaries of a county, a city and county, or a municipality, and before the state begins operation of an automated vehicle identification corridor on a state highway, the state shall coordinate with the respective county, city and county, or municipality.

(I.7) Before the state, a county, city and county, or municipality begins operation of an automated vehicle identification system in an automated vehicle identification corridor, the state, county, city and county, or municipality must:

(A) Post a permanent sign in a conspicuous place not fewer than three hundred feet before the beginning of the corridor; and

(B) Post a permanent sign not fewer than three hundred feet before each static camera within the corridor thereafter or a temporary sign not fewer than three hundred feet before any mobile camera; except that, for an automated vehicle identification corridor on which an automated vehicle identification system is used on transit vehicles for the purpose of detecting unauthorized use of a transit-only lane, post permanent signs at one-half mile or more frequent intervals; and

(C) Illustrate, through data collected within the past five years, incidents of crashes, speeding, reckless driving, or community complaints on a street designated as an automated vehicle identification corridor unless the automated vehicle identification system will be used exclusively to detect unauthorized usage of one or more transit-only lanes.

(II) As used in this subsection (2)(g), unless the context otherwise requires, "residential neighborhood" means any block on which a majority of the improvements along both sides of the street are residential dwellings and the speed limit is thirty-five miles per hour or less.

(III) This subsection (2)(g) does not apply to an automated vehicle identification system designed to detect disobedience to a traffic control signal.

(IV) The state, a county, a city and county, or a municipality implementing an automated vehicle identification corridor pursuant to subsection (2)(g)(I) of this section shall publish a report on its website disclosing the number of citations and revenue generated by the automated vehicle identification corridor.

(V)

(A) Notwithstanding the provisions of subsection (2)(g)(I) of this section, the state may locate an automated vehicle identification system on a highway that is a part of the federal interstate highway system and may issue a notice of violation or a civil penalty assessment notice for a traffic violation under state law detected using the automated vehicle identification system.

(B) A county, a city and county, or a municipality shall not locate an automated vehicle identification system or create an automated vehicle identification corridor on any highway that is a part of the federal interstate highway system.

(h) the state, A county, a city and county, or a municipality shall not require a registered owner of a vehicle to disclose the identity of a driver of the vehicle who is detected through the use of an automated vehicle identification system. However, the registered owner may be required to submit evidence that the owner was not the driver at the time of the alleged violation.

(2.5)

(a) The state may use an automated vehicle identification system on any portion of a state highway. The department of transportation may promulgate rules to implement the provisions of this section relating to the use of automated vehicle identification systems by the department of transportation on state highways and prioritization for the use of automated vehicle identification systems by other entities on state highways, including but not limited to rules that:

(I) Specify prioritization criteria that the department of transportation will use to determine which entity is authorized to use an automated vehicle identification system if multiple entities seek authorization to use an automated vehicle identification system on the same portion of a state highway. The criteria must specify that the department of transportation must give preference to an entity that has the primary responsibility for regulation and enforcement of traffic restrictions on the portion of a state highway on which an automated vehicle identification system is to be used.

(II) Specify, consistent with the requirements of subsection (2)(a) of this section, the process that the state will use to notify a county, city and county, or municipality that the state will be using an automated vehicle identification system within its jurisdiction and the administrative and enforcement process that the department of transportation will use to administer, hear, and resolve a traffic violation detected through the use by the department of transportation of an automated vehicle identification system;

(III) Establish, subject to the caps set forth in subsections (4)(b) and (4.5) of this section and any other provision of law, the amount of civil penalties imposed for traffic violations detected through the use by the department of transportation of an automated vehicle identification system;

(IV) Establish an administrative hearing process that complies with subsections (2)(a)(IV) through (2)(a)(VIII) of this section, including the ability to retain and contract with impartial hearing officers and the ability for impartial hearing officers to issue final orders required by subsection (2)(a)(VII) of this section; and

(V) Provide, consistent with this section, any additional requirements, guidance, or clarification that the department of transportation deems necessary or appropriate to implement this section.

(b) It is the intent of the general assembly that the department of transportation consult with the Colorado state patrol when promulgating rules relating to the use of automated vehicle identification systems and before authorizing the use of an automated vehicle identification system by the state or a county, a city and county, or a municipality on any portion of a state highway. It is also the intent of the general assembly that the department of transportation consult with counties, city and counties, and municipalities when promulgating rules relating to the use of automated vehicle identification systems.

(c) The provisions of this subsection (2.5) do not apply to an automated vehicle identification system on a state highway that a county, city and county, or municipality has implemented or designated by ordinance or resolution before January 1, 2025, or before the department of transportation adopts rules pursuant to subsection (2.5)(a) of this

section, whichever occurs later. This subsection (2.5) does not require a county, city and county, or municipality to remove or stop the implementation of an automated vehicle identification system that was placed on any portion of a state highway or designated by ordinance or resolution before January 1, 2025, or before the department of transportation adopts rules pursuant to subsection (2.5)(a) of this section, whichever occurs later.

(3) The department has no authority to assess any points against a license under section 42-2-127 upon entry of a conviction or judgment for a violation of a county or municipal traffic regulation or a traffic violation under state law if the violation was detected through the use of an automated vehicle identification system. The department shall not keep any record of such violation in the official records maintained by the department under section 42-2-121.

(4)

(a) If the state, a county, a city and county, or a municipality detects a speeding violation of less than ten miles per hour over the reasonable and prudent speed under a county or municipal traffic regulation or under state law through the use of an automated vehicle identification system and the violation is the first violation by the registered owner that the state, county, city and county, or municipality has detected using an automated vehicle identification system, then the state, county, city and county, or municipality may mail the registered owner a warning regarding the violation, but the state, county, city and county, or municipality shall not impose any penalty or surcharge for such first violation.

(b)

(I) If the state, a county, a city and county, or a municipality detects a second or subsequent speeding violation under a county or municipal traffic regulation or under state law by the registered owner, or a first such violation by the registered owner, if the provisions of subsection (4)(a) of this section do not apply, through the use of an automated vehicle identification system, then, except as may be permitted in subsection (4)(b)(II) of this section, the maximum penalty that the state, county, city and county, or municipality may impose for such violation, including any surcharge, is forty dollars.

(II) If any violation described in subsection (4)(b)(I) of this section occurs within a school zone, as defined in section 42-4-615, the maximum penalty that may be imposed shall be doubled.

(III) Subsection (4)(b)(I) of this section does not apply within a maintenance, construction, or repair zone designated pursuant to section 42-4-614 or a school zone, as defined in section 42-4-615 (2).

(4.5)

(a) If the state, a county, a city and county, or a municipality detects a violation of a county, city and county, or municipal traffic regulation or traffic violation under state law for disobedience to a traffic control signal through the use of an automated vehicle identification system, the maximum civil penalty that the state, a county, a city and county, or a municipality may impose for such violation, including any surcharge, is seventy-five dollars.

(b) Subsection (4.5)(a) of this section does not apply within a maintenance, construction, or repair zone designated pursuant to section 42-4-614 or a school zone, as defined in section 42-4-615 (2).

(4.7) If a registered owner fails to pay a penalty imposed for a violation of a county or municipal traffic regulation or a traffic violation under state law detected using an automated vehicle identification system, the state, a county, a city and county, or a municipality shall not attempt to enforce such a penalty by immobilizing the registered owner's vehicle.

(5) If the state, a county, a city and county, or a municipality has established an automated vehicle identification system for the enforcement of county or municipal traffic regulations or state traffic laws, then no portion of any fine collected through the use of such system may be paid to the manufacturer or vendor of the automated vehicle identification system equipment. The compensation paid by the state, county, city and county, or municipality for such equipment shall be based upon the value of such equipment and the value of any services provided to the state, county, city and county, or municipality and may not be based upon the number of traffic citations issued or the revenue generated by such equipment or services.

(6) [Repealed by 2024 amendment]

(7) the state, county, city and county, or municipality and any vendor operating an automated vehicle identification system shall, unless otherwise provided in this section:

(a) Program the automated vehicle identification system to retain data only when a violation of a county or municipal traffic regulation or traffic violation under state law occurs;

(b) Treat all photographs and video collected by the automated motor vehicle identification system as confidential and exempt from disclosure and inspection pursuant to the "Colorado Open Records Act", part 2 of article 72 of title 24;

(c) Not use, disclose, sell, or permit access to photographs, video, or personal identifiable data collected by the automated motor vehicle identification system except to the extent necessary to operate the program, including for purposes of processing violations, for other law enforcement purposes, for transferring data to a new vendor or operating system, or, pursuant to a court order, for use in unrelated legal proceedings; and

(d) Destroy any photographs and video of a violation collected by the automated vehicle identification system within three years after the final disposition of the violation unless the photographs or video are maintained in a separate system for other purposes allowed by law.

(8) Notwithstanding any other provision of law, the aggregate amount of revenue, exclusive of court and operations costs, collected by the state as civil penalties for violations detected by automated vehicle identification systems must be credited to the state highway fund and used by the department only to fund road safety projects, as defined in section 43-4-803 (21), of the type described in section 43-4-803 (21)(b). The department shall prioritize

funding to those road safety projects with the highest potential to reduce vulnerable road user injuries and fatalities while taking into account the planning capacity of each region.

C.R.S. § 42-4-110.5

Amended by 2024 Ch. 432,§ 1, eff. 6/5/2024.
Amended by 2023 Ch. 354,§ 1, eff. 6/5/2023 except that subsection (3) takes effect 1/1/2024.
Amended by 2021 Ch. 460, § 16, eff. 1/1/2022.
L. 97: Entire section added, p. 1667, § 1, effective June 5. L. 99: (1.5) and (4.5) added and (2), (4), and (5) amended, p. 612, § 1, effective May 17. L. 2002: (2)(a), (2)(d), and (4.5) amended and (2)(f), (2)(g), and (4.7) added, pp. 570, 572, §§ 1, 2, effective May 24. L. 2004: (2)(d) amended, p. 351, § 1, effective August 4. L. 2008: (1.5) and (2)(g)(I) amended and (1.7) and (4)(b)(III) added, pp. 2080, 2081, §§ 4, 5, effective June 3. L. 2009: (2)(d) amended, (SB 09-222), ch. 629, p. 629, § 1, effective August 5. L. 2021: (2)(c) repealed, (HB 21-1314), ch. 3101, p. 3101, § 16, effective 1/1/2022.

Section 22 of chapter 460 (HB 21-1314), Session Laws of Colorado 2021, provides that the act changing this section applies to offenses committed and applications submitted on or after January 1, 2022.

Section 1 of chapter 412, Session Laws of Colorado 2008, provides that the act amending subsections (1.5) and (2)(g)(I) and enacting subsections (1.7) and (4)(b)(III) shall be known and may be cited as the "Charles Mather Highway Safety Act".

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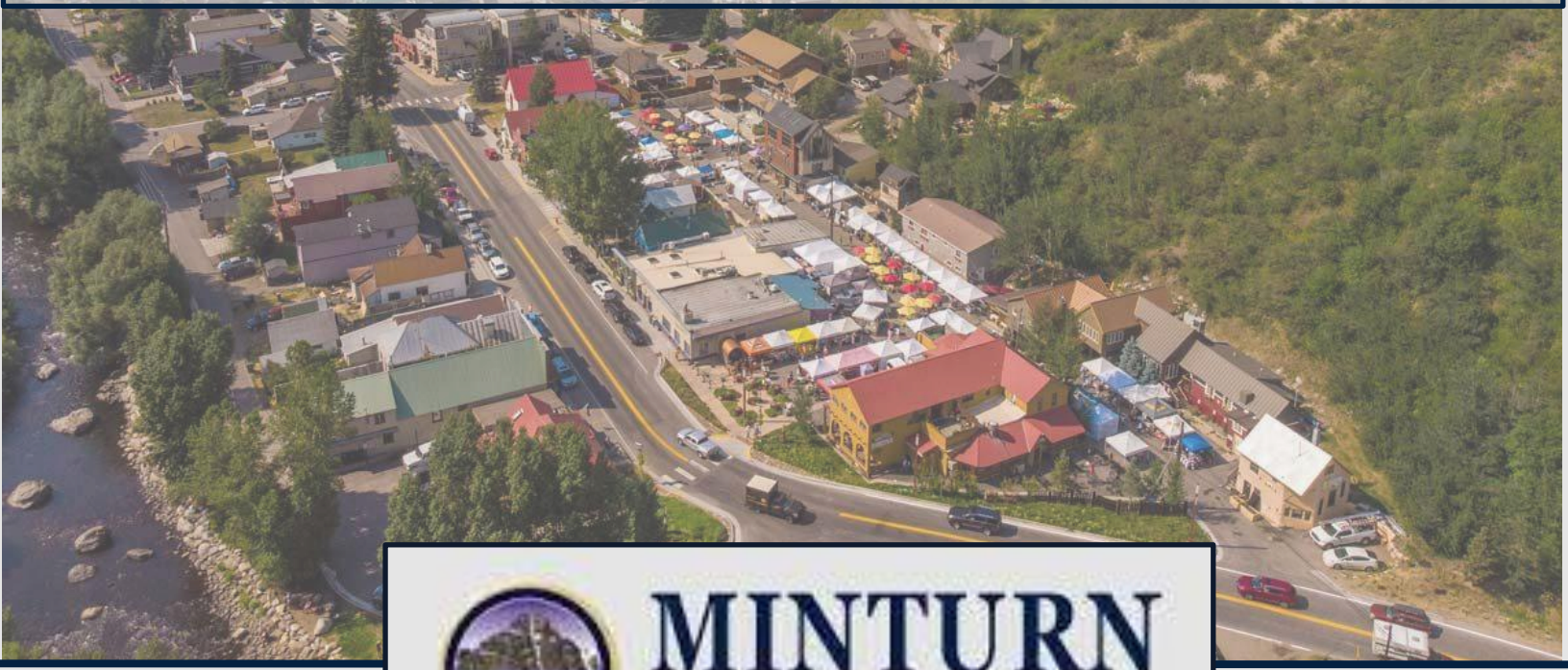
Part of Thomson Reuters

MINTURN WATER TREATMENT PLANT MODERNIZATION INITIATIVE



MINTURN
COLORADO

USBR WaterSMART Drought Response Program:
Drought Resiliency Projects for Fiscal Year 2025

Town of Minturn, Colorado
302 Pine Street, PO Box 309
Minturn, CO 81654

Project Manager:
Michelle Metteer, Town Manager
manager@minturn.org
(970) 445-2418

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Executive Summary

Date: October 2, 2024
Applicant Name: Town of Minturn, CO
Town: Minturn
County: Eagle
State: Colorado

Applicant Eligibility: The Town of Minturn, a unit of local government with water delivery authority in the State of Colorado, is eligible for this Drought Resilience funding as a ***Category A applicant***.

Task: The Town of Minturn, CO, seeks WaterSMART: Drought Resiliency Project funding to modernize its 60+-year-old water treatment plant (WTP) under ***Drought Resiliency Projects Task A: Increasing the Reliability of Water Supplies Through Infrastructure Improvements***.

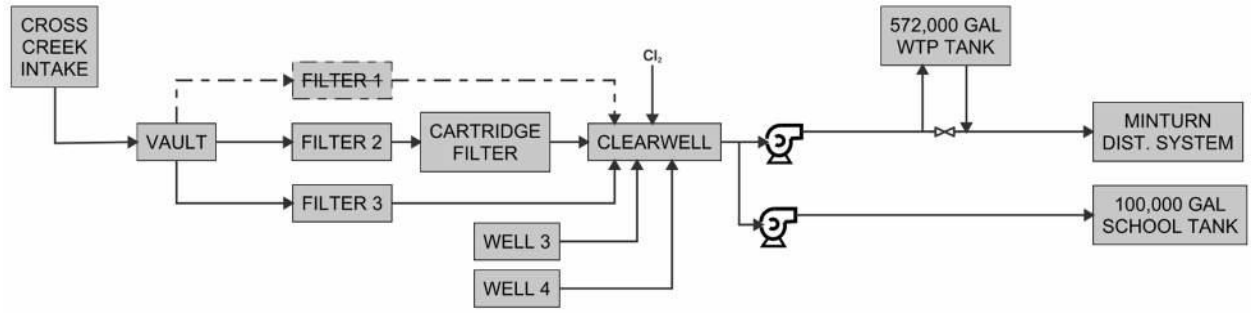
Funding Group: The Town of Minturn seeks WaterSMART funding under ***Funding Group II,*** with a request of $3 million for a project that will be completed within three years of award.

Project Summary: The Town of Minturn seeks $3 million in U.S. Bureau of Reclamation (USBR) WaterSMART Drought Resiliency funding with $10,103,325 in match to modernize and enhance the efficiency and capacity of its over 60-year-old water treatment plant. Minturn is a one-of-a-kind Rocky Mountain town in Eagle County, CO, with a vibrant sense of community. The Town of Minturn has been evaluating the best way to improve the reliability of water production at its existing slow sand direct filtration water treatment plant (WTP). The Town has completed an alternatives analysis to determine the best path forward to ensuring reliability of its water supplies amid worsening drought conditions. According to the Eagle County Community Resilience Plan, the County has experienced an estimated 6-8% decline in water supply since 1980, with drought conditions as recently as 2020 resulting in low streamflows and wildfires. By 2050, Colorado's average annual statewide temperature is projected to increase by 3.5°F to 6.5°F. Due to climate change, drought conditions vary yearly, and projections indicate that precipitation patterns will become more variable for Eagle County over the coming decades. This change and continual climactic variations add complexity to water supply, quality, and demand, affecting water operations in Minturn and presenting challenges related to inadequate streamflows to fulfill the Town's normal water consumption needs. The Town is now at 30% design and engineering for the construction of a new WTP with membrane filtration. Membranes represent best available filtration technology that offers an absolute barrier to particles and pathogens common in surface water while reducing the need for chemical use. This WTP modernization project is supported by recommendations in the 2023 WTP Alternatives Analysis Report, the Town of Minturn's 2019 Water System Capital Improvement Plan, the 2023 Imagine Minturn Community Plan, and the Eagle River Community Water Plan (CWP), among others.

Project Start & Completion Dates:
October 2025 - September 2028 (includes permitting and construction)

Located on Federal Land/Facility: N/A

Background: The Town of Minturn presently operates a direct filtration WTP and over 7 miles of potable water distribution piping. The WTP consists of an intake structure off of Cross Creek, two groundwater wells (Well 3 and 4), Filters 1 and 2, which are earthen pits located outdoors, Filter 3, which is a below-grade concrete tank located indoors, miscellaneous yard piping, and a 572,000-gallon unbaffled concrete storage tank. One slow sand filter (Filter 3) is capable of producing 60 gpm as well as one 1.0-micron cartridge filter (Harmsco PPFS-HC-170-1) that is fed by Filter 2 and is capable of producing 50 gpm of treated water. A process flow diagram of the existing process is presented below. Water treated through Filter #3, and the cartridge filter comes from a surface water diversion on Cross Creek. During spring runoff, turbidity increases in Cross Creek, and Filter 3 struggles to maintain turbidity compliance at higher solid loading levels. Filter 3 is subsequently taken offline for filter skimming (approx. 2-3 months). Groundwater is used as the source of supply during these events. Groundwater wells #3 and #4 provide water to the WTP clearwell where chlorine is applied for disinfection. Wells #3 and #4 can produce up to 80 gpm each (approx. 0.25 mgd).



Process Flow Diagram - Existing WTP Process

Minturn's Existing Slow Sand Filter (Filter 3)

Minturn assigns Single Family Equivalents Equivalent Residential Units (SFEs) to its customers and the Eagle River Water and Sanitation District (ERWSD) handles the billing for the Town,

which also provides records for SFE counts. Currently, there are approximately a total of 730 SFEs served by Minturn, 35.6 SFEs of which are in the Maloit Park Service Area and 693 SFEs in the Town Service Area. The primary water uses for WTP customers are commercial, mixed-use, and residential. No agricultural producers utilize water from the Minturn WTP. In 2023, approximately 134.6 acre-feet of drinking water was treated and distributed.

The Town is at a crossroads and has limited ability to meet additional demand with current water resources and treatment capacity. At over 60 years old, the existing plant struggles to meet Colorado Department of Public Health & Environment (CDPHE) regulations, limiting the quantity of water it can produce. While the Town has addressed the immediate need to bring the plant into compliance with CDPHE, the age and deficiencies at the plant have strained Minturn's water system. The Town installed a cartridge filter to treat surface water diverted from Cross Creek; it is limited to about 50 gallons per minute and is only used in emergencies. It does not provide adequate treatment during spring runoff when there's an abundance of turbidity in the Cross Creek surface water. Minturn is limited in its ability to produce water under its most constrained scenario due to removing two slow sand filters from service due to liner deficiencies. In a worst-case scenario where only one well is operational while Cross Creek is simultaneously experiencing high turbidity, the town cannot meet its average daily water demands.

The slow sand filtration used by the WTP is a biological process that is difficult to control and is not adaptable to changing circumstances. Rehabilitation of the filters carries significant risks that will not solve the underlying issues at the plant. The Town now seeks to replace the existing slow sand filter WTP with a new WTP with a membrane filtration system that will provide resiliency to the water supply, support long-term reliability for the water system, can be modified to adapt to more stringent water quality regulations and added water sources, and provides flexibility in treatment capacity to Minturn.

Minturn Water Supplies (2014-2023):

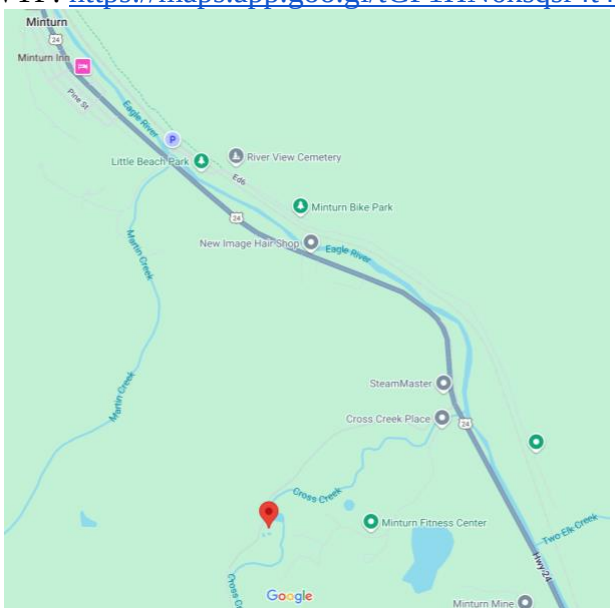
Year	Surface Water Total (acre-feet)*	Agency Groundwater (acre-feet)	Recycled M&I Water (acre-feet)	Other (acre-feet)	Total (acre-feet)
2014	75.7	82.7	0.0	0.0	148.4
2015	68.2	83.3	0.0	0.0	151.5
2016	47.8	142.7	0.0	0.0	190.5
2017	68.7	131.2	0.0	0.0	199.9
2018	106.6	77.0	0.0	0.0	183.6
2019	44.9	132.4	0.0	0.0	177.3

2020	28.6	113.4	0.0	0.0	142.0
2021	51.8	72.5	0.0	0.0	124.3
2022	52.7	106.9	0.0	0.0	159.6
2023	38.3	96.3	0.0	0.0	134.6
Total Average Annual Water Supply for 2014-2023 in AFY =					162.2

Average Annual Water Supply = 162.2 acre-feet (Divide Total Supplies for 2014-2023 above by 10)

Project Location

The Minturn Water Treatment Plant Modernization Initiative is located in Eagle County, Colorado approximately 2 miles south from Minturn's Main Street. The project latitude is [39.56509989203307 N] and longitude is [-106.4182376125237W]. The following link shows the location of the existing WTP: https://maps.app.goo.gl/tGP1HN6ksqsr4t4W9.



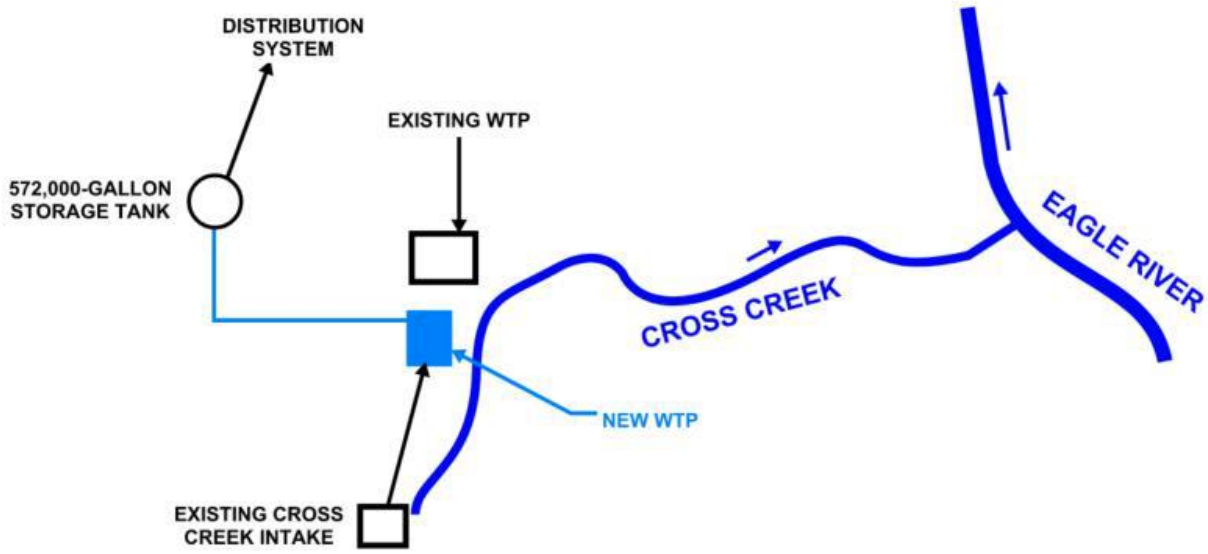
Minturn WTP Location Map

Watershed Area: Upper Eagle River: Cross Creek to Gore Creek:
https://waterplan.eagleriverco.org/reach_2.html

Project Description

The slow sand filtration WTP has served the Town for many years. However, several factors and indicators suggest this technology is dated, not sustainable, and does not reliably produce high-quality drinking water to meet CDPHE regulations and future growth. To address current and future water needs, the Town has completed a Treatment Process Alternatives Analysis as well as 30% design plans for a new membrane WTP. Minturn seeks $3 million in USBR WaterSMART funds with $10,103,325 million in match to complete the following scope of work for the establishment of a new membrane WTP to ensure efficient, manageable operations and reliable regulatory compliance:

- Install two (2) 0.3 mgd membrane skids to provide capacity to meet max day conditions equivalent to 729 SFEs
- Construct a new 3,200 sf building to house the membrane skids and requisite chemical storage systems
- Convert the existing sand filter #3 into residuals treatment for backwash waste
- Provide new diesel generator and electrical entry gear for the new building



Diagrammatic Overview of Proposed WTP

The treatment plant would include two (2) 0.3 mgd membrane skids. Membranes typically operate as a direct filtration process and can effectively operate with little to no pre-treatment, depending on the influent water quality parameters. Direct membrane filtration can effectively handle influent turbidity up to 20 NTU without the need for pre-treatment. Skids are highly automated, simplifying their operation compared to a conventional filtration treatment plant. The proposed two 0.3 mgd rated skids were selected to provide water at the design WTP capacity of 0.6 mgd. The proposed membrane skids can meet the demand of the existing Minturn distribution system with room to spare.

Direct filtration is proposed as Cross Creek water has little dissolved inorganic contaminants throughout much of the year and well usage is planned for periods of high TOC, which membranes struggle to remove without pre-treatment. This will help maintain water quality and capacity when the Cross Creek runoff is too turbid, causing the Town must use its wells, and adding pressure on a limited production capacity.

To achieve adequate disinfection of membrane-treated water with a residual of 1 mg/L chlorine, 80 minutes of disinfection contact time is required. This time is determined by dividing the CTrequired value (8) by the baffling factor (0.1). Under these conditions, the existing 572,000-gallon unbaffled storage tank provides ample contact time at the max design flow of 0.6 mgd. The use of membranes to treat surface water effectively allows the filtrate, or treated water, to have the same disinfection requirements of groundwater, which significantly simplifies the management of chlorine dosing and reporting.

Construction activities would include site civil work comprising filling in the existing slow sand filters that are out of service, new connective yard piping between the new WTP and the existing slow sand filter #3, and storage tank. A new pre-engineered metal building will provide superstructure to house the process treatment equipment, instrumentation, and analyzers which allow for process automation. The project will also include new electrical service from the existing overhead power lines to run a new pad mount transformer and a state-mandated diesel generator will be installed near the new WTP building in case of power failure.

Applicant Category and Eligibility of Applicant

The Town is a Category A applicant. The Town meets the requirements of a Category A applicant since it 1.) is municipality located in the State of Colorado; 2.) owns and manages Minturn's water utility; and 3.) possesses the authority to manage water resources within its jurisdiction.

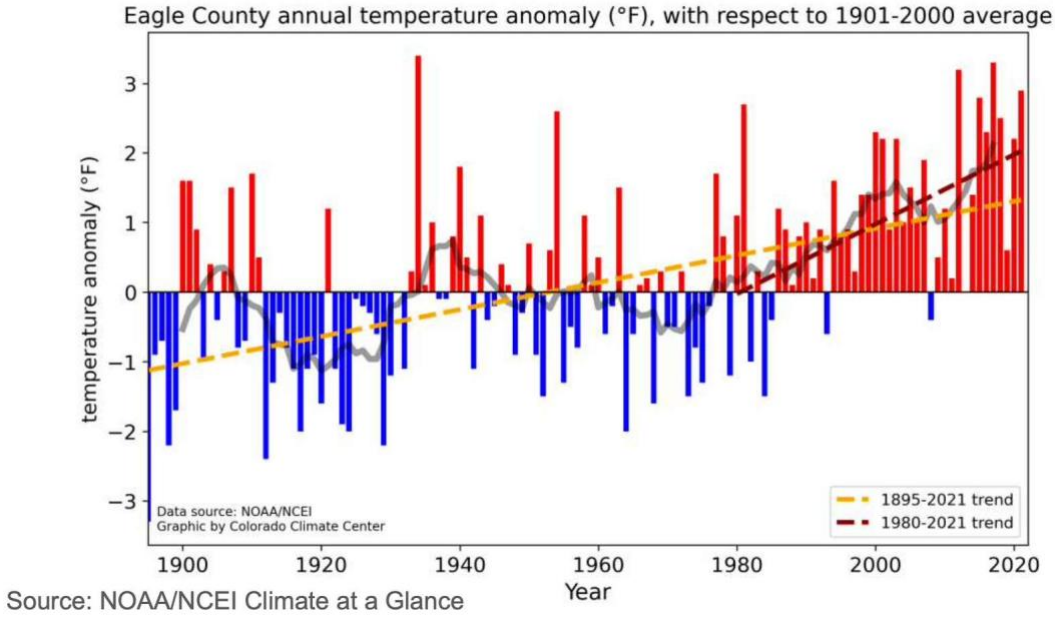
Evaluation Criteria

Evaluation Criterion A. Severity of Drought or Water Scarcity and Impacts

Drought Conditions in the Project Area: Drought conditions are the new normal in Colorado and throughout the West. According to the Eagle County Community Resilience Plan, the County has experienced an estimated 6-8% decline in water supply since 1980, with drought conditions as recently as 2002, 2012, and 2020 resulting in low streamflows and wildfires. Elevation, combined with mountain ranges, results in large statewide differences in yearly precipitation, temperature, humidity, and wind, among other variables. Minturn, with its rugged mountainous landscape, river

valleys, and dense forests, is particularly susceptible to substantial impacts during periods of drought and development conditions that have impacted water availability and flows. Upstream total maximum daily loads (TMDLs) and reservoirs have influenced changes in water flow. The frequency of the natural 1-in-4-year peak flood flow has significantly decreased compared to historical conditions due to water use and management. Peak flow magnitudes during typical and dry years have decreased by 24-30%, respectively. Total annual flow volumes in dry years have declined by 32%, based on findings from the Eagle River Water Plan.

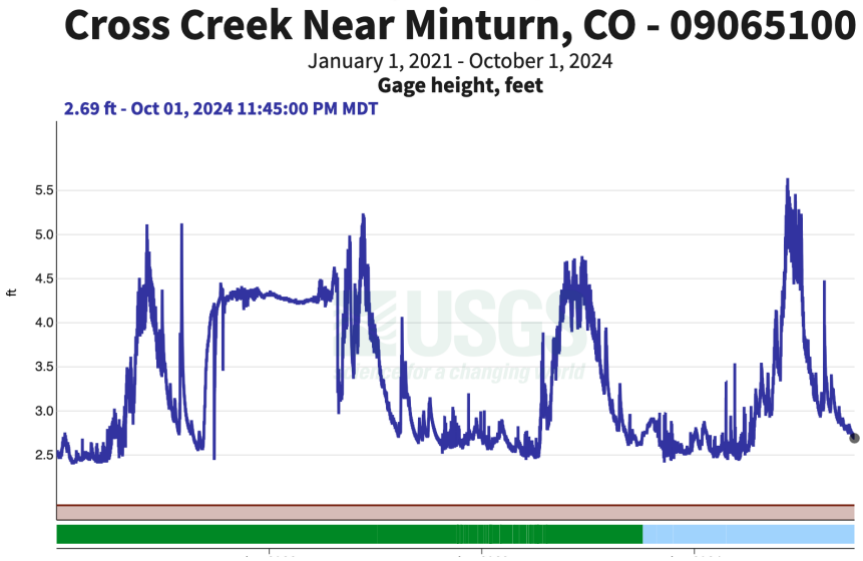
Temperatures in Colorado continue to increase, with a nearly 2-degree change over the average of 1900 to 2000. This has dramatically impacted the length and severity of drought periods. The General Manager for the Colorado River District, Andy Mueller, has noted that for every 1 degree Fahrenheit rise in temperature, streamflow in rivers is reduced by 3% to 9%, though recent studies show that 9% is the more accurate figure. Eagle County continues to experience a trend of high-temperature anomalies that have created and exacerbated drought conditions. The difference now is that even when the precipitation rate is normal or above normal, the higher temperatures cause the land to become "thirstier" and require greater amounts of water to sustain non-drought conditions. This has placed Colorado and many of the Western states in a constant state of drought for most of the 21st century, a 22-year-long "megadrought" that has surpassed the previous worst drought on record.



As record drought persists, West will have to live with less water (Vail Daily, 2022)

USGS findings for Cross Creek Near Minturn Gage height data from 2021 to the present reveal that the river experienced multiple instances of dropping below 2.5 ft. These occurrences had a significant impact on water availability, water quality, and treatment needs. The reduced water flow during these periods placed considerable strain on Minturn's water treatment facilities, exacerbating the challenges posed by the Town's already stressed water treatment capacities. This strain is particularly acute during times of drought and high water demand, as the decreased water availability limits the treatment capacity. Additionally, the low-flow conditions during these periods lead to higher pollutant concentrations, further burdening the Water Treatment Plant's

capacity. Lower river levels typically result in higher water temperatures due to shallower water, which has negative implications for the aquatic ecosystem and can promote the proliferation of harmful bacteria and algae, posing risks to drinking water safety.



USGS Gage Height Data for Cross Creek Near Minturn 1/1/2021 to 10/1/2024

Recognizing its capacity constraints, Minturn has had to limit development and existing customers are subject to water restrictions. This has prompted the Town to stop the issuance of new water tap permits to construction projects involving more than three single-family homes. That moratorium was first issued in 2020 and is ongoing.

Projected Increases in Drought Conditions/Water Scarcity: The Eagle County Community Resilience Plan found that by 2050, the average annual statewide temperature in Colorado is projected to increase by 3.5°F to 6.5°F. Due to climate change, drought conditions vary yearly, and projections indicate that precipitation patterns will become more variable for Eagle County over the coming decades. Rapid temperature escalation and continual climactic variations reduce water supplies, impair water quality, and increase potable water demand.

The slow melting of the snow in the high-country areas is crucial for maintaining consistent water flow in the mountain streams and rivers all year round. When a drought causes low snowpack, it leads to reduced streamflows. Inadequate streamflows will reduce the raw water available to meet the daily water use of Minturn. While drought is a natural phenomenon, its prolonged presence will require Minturn to diversify water sources and increase the Town's ability to process water with increased turbidity.

During the spring runoff, the raw water often becomes more turbid, leading to shorter filter run times. Historically, Minturn has not experienced turbidity levels exceeding 5 NTU in the water from Cross Creek during spring runoff. However, these conditions pose the highest challenges and coincide with the beginning of the high water demand season in Minturn. If there are disturbances in the Cross Creek watershed, such as a forest fire due to drought conditions, managing spring runoff conditions will become more difficult in the future.

Drought and Water Scarcity Impacts: Ongoing and potential drought and water scarcity impacts would further strain Minturn's already stressed and aging water treatment plant. At present, Minturn relies solely on water sourced from Cross Creek and groundwater wells and does not have a backup water source available. It is the intention of the Town to add redundancy and increase WTP capacity with a new source from the Eagle River as a later phase of development; however, the Town's location near the Eagle Mine Superfund Site has resulted in high metal levels in Eagle River waters, which would necessitate pretreatment. Additionally, the Town's water plant struggles to meet CDPHE regulations during spring runoff and is limited in the quantity of treated water it can produce. While currently able to meet demand, the Town has been forced to turn down both businesses and housing development which is further straining the Town's economy. Due to a lack of a reliable water supply, the Town has turned down a hotel development, multiple downtown commercial building sales with the potential to redevelop, and phase 2 of a workforce housing project.

This trend continues with a risk to new developments to the north and west parts of the town, which require an estimated 729 single-family equivalents (SFEs), and would provide additional housing for new residents and sources of revenue for the Town

Drought conditions would also negatively impact the Town's economy, particularly the tourism sector. As a small mountain town, Minturn's economy heavily depends on the recreation economy, including riverine activities like fishing and snow-based activities, including skiing and snowboarding, with the Vail Ski and Snowboard Academy located within the Town. These activities rely on a healthy, stable water supply and favorable weather conditions to maintain economic activity. Yet, in times of drought or water scarcity, snowfall is often reduced, resulting in smaller snowpacks and shorter seasons with limited numbers of open trails, directly reducing the number of visitors to the area and driving down sales and revenues at area businesses, including restaurants, shops, and lodging.

Other Water Related Impacts: The Town has worked through settlements and contracts on servicing and utilizing water. In recent years, the Town has settled disputes with Battle Mountain and Eagle River Water and Sanitation District (ERWSD) to reduce water-related conflicts. All parties have agreed to these conditions. The Town entered into an IGA with ERWSD in the spring of 2021 which allows for a regional water storage reservoir to be built by ERWSD and in exchange the Town will receive storage space in the reservoir for much needed augmentation water.
https://portal.laserfiche.com/Portal/DocView.aspx?id=9728&repo=r-6d769c14

Mintuan has also been supporting ERWSD's efforts to utilize historic Bolts Ditch as a means to gravity fill the future Bolts Reservoir:
https://portal.laserfiche.com/Portal/DocView.aspx?id=9950&repo=r-6d769c14;
https://www.vaildaily.com/news/eagle-county-bolts-ditch-water/

In 2024, the Town and Battle Mountain settled a years long dispute over the 2008 Annexation Agreement which was to provide a new water treatment plant and wastewater treatment plant. Although neither of those pieces of infrastructure are being provided through the settlement, the town hopes to sell parcels of land which are being conveyed and may help to bring town exceptionally high water utility rates for the residents and businesses.

https://portal.laserfiche.com/Portal/DocView.aspx?id=11126&repo=r-6d769c14

Evaluation Criterion B. Project Benefits

Sub-Criterion B.1. Project Benefits (Tasks A, B, D only)

The new water treatment plant (WTP) is anticipated to increase Minturn's water treatment capacity by 414.8% and will be capable of generating 672 AFY (0.6 million gallons per day), whereas the current WTP produces 162 AFY or 0.1 million gallons per day. This estimate was calculated based on the capacity of the lone remaining slow sand filter still in operation, which is limited to 60 gpm (or approximately 0.1 mgd). The 672 AFY is based on the assumption that the WTP will operate at maximum capacity throughout the year; however, WTPs typically adjust production to meet the system's demand. The demand aligns with the average annual supply, which is based on data collected from 2014 to 2023.

Total Project Water Yield in AFY	672
Average Annual Water Supply in AFY (From Table in *Section D.2.2.2. Technical Proposal*, Executive Summary)	162
Percentage Yield (Divide Total Project Water Yield by Average Annual Water Supply)	414.8%

Long-Term Resilience to Drought and Water Reliability Issues: The Minturn WTP Modernization Initiative is designed to significantly enhance the town's water treatment capabilities, which is crucial for building long-term resilience to drought and ensuring water reliability. By adopting an advanced membrane treatment system, this initiative addresses the challenge of increased NTU (Nephelometric Turbidity Units) in water sources, which can be a result of various factors including drought conditions that concentrate pollutants. The enhanced reliability and efficiency of the membrane treatment system mean that it can effectively remove more contaminants from the water, ensuring a consistent supply of clean, safe drinking water even under challenging conditions. This is particularly important in the context of climate change, where unpredictable weather patterns and extended periods of drought can compromise water quality and availability.

Membrane skids can also be successfully turned down to least 50% of their design flow rate, meaning that each skid could run as low as 0.15 mgd. This flexibility means that periods of low demand would not be a major issue. Further, membrane skids are highly resistant to complications associated with starting and stopping. In fact, a membrane skid may start and stop every 20 minutes as it goes through a short backwash cycle. However, membrane systems are designed for continuous operations, meaning both skids would need to run year-round, even during the winter when flows are minimal. In winter months, the two skids would operate in a cycle with one skid operating and one backwashing or primed to come online when the operating skid requires backwashing. This will ensure that both skids remain in continuous operation to reduce the likelihood of interruptions or failures.

This modernization initiative lays the groundwork for Minturn to adapt to future water demand and potential scarcity scenarios. By improving the treatment process, the town is better equipped to manage its water resources sustainably, ensuring that it can meet the needs of its population without over-relying on external water sources, which may also be under strain.

Project Useful Life: The useful life of the new membrane WTP is estimated to be 30 years. The skids include structural framing, supports, and valves that should last up to 30 years with proper maintenance. The membrane modules' expected lifespan, which comprises the skid, are approximately 7 to 10 years before needing to be replaced. The stated membrane replacement interval is typical and consistent with industry standards.

Benefits Associated with Additional Water Supplies: Minturn has had a strict water moratorium in place since 2020. Other than previously approved projects, development is allowed except for unless an existing lot has an allotted SFE or is on an empty lot where one SFE is allowable. The moratorium is in place since the community is at risk of running out of water, which is being exacerbated by increasing heat and growing irrigation needs.

Luckily, the Town has two pre-approved projects that will help support Minturn's current housing needs, the Minturn North project and the Maloit Park Workforce Housing Project. The Minturn North PUD encompasses approximately 12.581 acres stretching along the valley floor between existing Taylor Avenue and Minturn Road. The property is bifurcated by existing Fourth Street. The plan seeks to acknowledge the rich heritage of the Minturn area by providing an appropriately scaled built environment interconnected by low-impact infrastructure, appropriate drainage, cohesive streetscape, open space and community-focused play space. Resident lifestyle and service needs are fulfilled by the existing Town of Minturn commercial activities located a short walk or bike ride away. This proposal seeks to find common ground between future development, existing resident and stakeholder desires along with the need for a diverse, vibrant and eclectic Town of Minturn. The Minturn North Project includes a new 39 single-family residence neighborhood being developed by Resort Concepts. The Town of Minturn approved the Minturn North neighborhood plan on November 17, 2023. Resort Concepts purchased the property on December 12, 2023 and will be breaking ground in Spring 2024.

Minturn North Conceptual Plan

The Maloit Park Workforce Housing Project is a proposed subdivision located on approximately 19.1 acres of Tract A, a 46.9-acre parcel that was created by the 2011 Maloit Park Exemption Plat. The subdivision accommodates lots and tracts that will allow for a total of 137 housing units. This level of development was established in the 2011 Annexation Agreement that gave Eagle County School District (ECSD) the right to develop 120 housing units in addition to the 17 existing units. A combination of duplex lots and parcels for townhomes and multi-family development is proposed. The project is within the Maloit Park Character Area and is zoned mixed-use.

These projects sets the stage for a new chapter in Minturn's history, promising a harmonious blend of contemporary architecture and the pristine beauty of the Rocky Mountains and helping to combat a period of population decline due to the high cost of living. However, these new residents will require a stable, affordable source of water that Minturn now lacks. The community relies on one aging sand filter at an outdated and failing water plant. While Minturn has approved these developments, new and existing residents face an uncertain future without reliable water production. Minturn is currently declining at a rate of -2% annually, and its population has decreased by -8% since the most recent census, which recorded a population of 1,033 in 2020. At the same time, median household income in Minturn rose by over 14% from $90,521 to $103,333.

Outside of these two new developments, affordable housing badly needed by Minturn will not occur without the new water plant. Demand for housing is high and these projects illustrate how Minturn could provide affordable housing for residents, bringing down housing and cost of living for the badly cost-burdenerd community.

Project Supply Benefits: Providing adequate water supplies to the Town of Minturn is critical to buffering against water shortages and enhancing the resilience of the water system. Minturn's existing plant, at over 60-years-old has reached the end of its useful life, and due to limitations imposed by CDPHE, could face a worst-case scenario situation in which only one well is operational while Cross Creek is simultaneously experiencing high turbidity, leaving the town unable to meet its average daily water demands. The project will allow the town to lift the water moratorium it has been under since the spring of 2020 by ensuring reliable water production year-round and improving reliability for maintaining a constant maximum water storage supply. The system's resilience will be further buffered with the membrane plant which comes with replaceable parts in a timely manner, unlike slow sand filters, which can take months to return online due to bacteria regeneration. Given the costs and the risks of filter rehabilitation, the ability of membranes to manage a wide range of variable raw water parameters and the ability to easily expand plant capacity membranes are the most reliable technology to produce water for current and future conditions.

Sub-Criterion B.2. Project Benefits (Task C only)

This Minturn Water Treatment Plant Modernization Initiative is not a Task C project request.

Sub-Criterion B.3. Additional Project Benefits (All Tasks)

Sub-Criterion B.3.a. Climate Change

Upgrading the Minturn Water Treatment Plant (WTP) is crucial to prepare for and adapt to changing hazards, such as increasing drought and wildfire conditions. The Minturn WTP Modernization project aims to enhance drought resiliency and ensure that the Town has sufficient water supplies to address hazards, including wildfires. According to the USBR Water Reliability

in the West, 2021 SECURE Act Report, the Colorado River Basin has been experiencing consistent drought since 2000, with the period from 2000 through 2020 being the driest 21-year period in the Colorado River Basin in more than 100 years of record-keeping. As drought concerns become more prevalent in and around Minturn, it is essential for Minturn to upgrade its WTP to easily expand plant capacity to treat additional water from a new source, the Eagle River.

Wildfires have a range of both short- and long-term effects on watersheds, as per findings from the Water Research Foundation. In the event of a wildfire, these effects may alter source water quality and quantity enough to require utilities to adjust their treatment processes. Currently, the Town is limited to treated water from Cross Creek and two groundwater wells. Modernizing the WTP will also support risk reduction in times of flooding, when the turbidity of the Cross Creek may be high, by providing a backup source through the Eagle River. The new membrane plant brings Minturn one step closer to allowing for the treatment of a secondary water source (which a slow sand filter would be incapable of supporting). The town is currently seeking a 4.0 cfs water right on the Eagle River to create redundancy in the system by providing a secondary water source. The new membrane plant, with specific modifications, would be able to treat Eagle River water, whereas a slow sand filter could not. Therefore, ensuring redundancy in the water system is essential for adequate water supply and demand management measures and this expanded capacity could not be accomplished under present WTP conditions.

Sustainable Infrastructure: The Climate Action Collaborative completed a Water-Energy Nexus Report for the Town of Minturn to provide linkages between water and greenhouse gas emissions for the Town and offer tailored recommendations for water provider operations and customer water conservation strategies. This report found that between 2018 and 2022, emissions per kilogallon in Minturn ranged between 1.6 and 2.25 lbs CO2e. While slow sand filtration provides a less energy-intensive system than a membrane filtration WTP, the new plant will incorporate energy efficiency upgrades such as the installation of efficient technologies, including LED lighting, weatherizing the WTP building structure, and purchasing of energy-efficient all-electirc equipment, wherever possible. These upgrades will reduce associated operational emissions. Minturn is also considering utilizing energy generation from a future solar array to offset the energy consumption of water treatment operations.

Water Pollution Mitigation: The Minturn Water Treatment Plant Modernization Initiative has been designed to address the presence of water pollutants, particularly metals, in the Cross Creek River. Advanced membrane filtration systems achieve high removal efficiency while minimizing the use of chemicals, thereby effectively reducing the levels of pollutants in the water. This method is particularly effective because it targets a wide range of pollutants, ensuring a comprehensive purification process. The use of membranes to treat surface water effectively allows the filtrate, or treated water, to have the same disinfection requirements of groundwater, which significantly simplifies the management of chlorine dosing and reporting.

By minimizing chemical usage in the water treatment process, the project will contribute to the Town's overall goal of reducing water pollution. Traditional water treatment methods often rely heavily on chemicals, which can leave residual pollutants in the water and create additional environmental concerns. By limiting chemical use, the Minturn Water Treatment Plant not only addresses the existing pollution but also prevents the introduction of new pollutants, supporting

overall environmental sustainability. Combining high-efficiency pollutant removal with minimal chemical use promises to enhance the quality of water in the Cross Creek River.

Climate Change Resiliency: Improving the efficiency and capacity of the Minturn WTP is critical to ensuring climate change resilience. As drought and wildfire conditions become more frequent and intense, the Town will need to ensure it can provide an adequate, safe drinking water supply while also addressing its development needs and additional pressures on the water system. The proposed membrane skids can meet the demand of the existing Minturn distribution system with room to spare. Membrane filtration provides good resiliency and would, with proper operation, produce high-quality finished water. The new skids can also be monitored and controlled remotely, favoring Minturn's contract operations model and potentially limiting operational support and providing continuity during emergencies as operator involvement is expected to be less than a conventional treatment process.

Sub-Criterion B.3.b. Ecological Benefits

The enhanced water treatment capacity provided by the Minturn WTP Modernization Initiative will help to promote more sustainable and efficient water use practices, ensuring that the local ecosystem of Cross Creek is not over-extracted and degraded, especially in times of drought. The membrane filtration plant will have a higher water recovery rate, allowing for more efficient use of available water resources relative to the aging slow sand filtration plant. The membrane filtration plant will require fewer chemicals for disinfection, lowering the risk of chemical runoff and reducing potential harm to local ecosystems. As described above, the new plant will incorporate several energy efficiency measures designed to help reduce greenhouse gas emissions and mitigate climate impacts from plant operation as Minturn seeks to ensure that the Town remains an area of pristine wilderness.

The Town is dedicated to minimizing ecological impacts during the design and construction of the WTP. The new WTP will be constructed within the existing plant's footprint, repurposing infrastructure to support new membrane treatment and avoiding disruption to sensitive habitat and wildlife corridors. Erosion and sediment controls will be used to prevent runoff into waterways during construction to minimize impacts to soils and to avoid indirect water quality impacts to Cross Creek, located approximately 120 feet east of the project area. Wildlife-friendly fencing, noise, and light pollution controls will also be implemented to minimize project impacts and support wildlife protection. By prioritizing sustainability and ecological preservation, the project aims to protect Cross Creek in the Holy Cross Wilderness, which is home to a diverse range of aquatic and terrestrial species including 10 species listed, proposed, or candidates for listing under the Endangered Species Act (ESA) such as the Canada lynx, Mexican spotted owl, gray wolf, and yellow-billed cuckoo. The surrounding environment, from alpine meadows to dense forests, supports this diverse array of wildlife and will be further supported by the WTP modernization effort. The construction of the WTP, while near these important habitats, is not identified as critical habitat, according to the U.S. Fish and Wildlife Service (USFWS) Information Planning and Conservation (IPaC) System.

Sub-Criterion B.3.c. Other Benefits

In light of the costs and risks associated with filter rehabilitation, the use of membranes to handle a wide range of variable raw water conditions and to easily expand plant capacity makes

membranes the most reliable technology for producing water to meet both current and future demands. The anticipated expansion of the housing development in the northern region of the Town, coupled with the upcoming construction of additional housing for teachers, is expected to place additional strain on the water system, necessitating an increase to 729 single-family equivalents (SFEs). The proposed modernization of the water treatment plant (WTP), estimated at $13 million, will impose a significant financial burden on this small, rural community. Consequently, homeowners in Minturn may potentially face a substantial monthly rate increase of over $115.

Evaluation Criterion C. Planning and Preparedness

This WTP modernization project is supported by the Town of Minturn's 2019 Water System Capital Improvement Plan, the 2023 Imagine Minturn Community Plan, and the Eagle River Community Water Plan (CWP), and the WTP Alternatives Analysis Report completed in August 2023. The WTP Alternatives Analysis Report serves as the basis for this application and can be found attached as **Appendix C**. This Alternatives Analysis assessed the best path forward for improving the reliability of water production as the existing water treatment plant (WTP) is nearing the end of its serviceable life. A new WTP was proposed to replace the existing one which uses slow sand filtration to treat the surface water. Several alternative treatment process technologies are were considered by Minturn for the new WTP. The treatment technology alternatives under consideration included:

- Alternative A: Rehabilitation of existing slow sand direct filtration WTP
- Alternative B: Construction of new WTP using packaged conventional treatment units with dual-media filters
- Alternative C: Construction of a new WTP with membrane filtration with consideration for expansion and future preliminary treatment

The project team first went through a qualitative exercise to determine the top priorities for Minturn in the selection of the new treatment technology using criteria including resiliency (35%), operations and maintenance (26%), long-term reliability (22%), process modifiability (13%), and capacity flexibility (3%). Their relative importance was developed jointly by HDR and the Minturn Water Committee during a workshop on January 12th, 2023. The criteria below are listed in the order of importance to Minturn.

The Minturn Water Committee included Council members Gusty Kanakis and Lynn Feiger along with Town contract engineer Jeff Spanel, Town WTP operator John Volk and Town Manager Metteer.

The final score provides a qualitative ranking of the alternatives to showcase which treatment technology best meets the priorities of Minturn.

Criteria	Alternative A: Slow Sand Filtration	Alternative B: Packaged WTP	Alternative C: Membrane WTP
Resiliency (35%)	Moderate	Strong	Very Strong
Operations & Maintenance (26%)	Strong	Moderate	Moderate
Long Term Reliability (23%)	Strong	Strong	Strong
Process Modifiability (13%)	Very Low	Strong	Very Strong
Capacity Flexibility (3%)	Low	Moderate	Very Strong
FINAL SCORE	**56**	**64**	**75**

Based on the results of this alternative analysis, it was recommended that Minturn move forward with construction of a new membrane filtration plant. It resulted in the highest qualitative score and is recognized to best address Minturn's priorities for providing a resilient and reliable treatment system. While rehabilitation of the slow sand filters ultimately had the lowest cost of the alternatives, the drawbacks of continuing to rely on an aging technology and cutting off the option for adding Eagle River water in the future far outweigh the cost savings associated with the option. Membrane filtration allows Minturn to address the needs of its existing customers while leaving open the option for future development and water rights.

Evaluation Criterion D. Readiness to Proceed and Project Implementation

Project Schedule: Major Tasks/Milestones:

Major Tasks/Milestones	Planned Start Date	Planned Completion Date
Task 1: Project Management	November 2024	September 2028
Construction Management Contract Awarded	September 2025	
Kick Off Meeting	October 2025	
Oversight of Construction	October 2025	September 2028
Task 2: Environmental Compliance	October 2024	October 2025
NEPA Completed	October 2024	October 2025
Close Out Reporting	June 2028	September 2028
Task 3: Design and Engineering	November 2024	October 2025
60% Design	November 2024	April 2025
90% Design	April 2025	July 2025
100% Design	July 2025	October 2025
Task 4: Permitting	October 2024	May 2026
CDPHE Permit	July 2025	October 2025
Local Permits	October 2025	December 2025
Eagle County 1041 Permit	April 2025	January 2026
Army Corps 404 NWP Permit	April 2025	December 2025

Task 5: Bidding	October 2025	February 2026
Compile Bid Documents	October 2025	November 2025
Bid Released	December 2025	
Bid Awarded	February 2026	
Task 6: Construction	June 2026	September 2028
Ground Breaking	June 2026	
50% Construction	July 2026	January 2027
Construction Completed	January 2027	June 2028
Ribbon Cutting	July 2028	
Task 7: Project Close Out	July 2028	September 2028
Final Report	August 2028	September 2028

Permits and Approvals: The Town will need to obtain several permits before initiating construction and before the new water plant can be brought online. These include:

- **Environmental Protection Agency (EPA) NEPA Permit:** NEPA permitting is required as the project is anticipated to be classified as an Environmental Assessment (EA) due to increasing production capacity over 30%. Tribal consultation on the project is already underway and the Town anticipates completion of NEPA review by October 2025.
- **Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Division (WQCD) Plan and Construction Approval:** Minturn will apply for a CDPHE WQCD Permit upon completion of 90% of the design in July 2025 and anticipates approval by October 2025. The Town and engineering design firm are in consultation with CDPHE concerning the design and anticipate no issues with final approval.
- **Town of Minturn Building Permit:** The Town will apply for a building permit when the design is 100% completed in October 2025. Staff anticipates that the Town Board of Trustees will approve the building permit in December 2025.
- **Eagle County 1041:** Minturn will apply for an Eagle County 1041 Permit in April 2025. The Town anticipates being approved by the County Planning Commission by January 2026.
- **US Army Corps of Engineers 404 Nationwide Permit (NWP) Preconstruction Notice:** The Town will apply for a NWP permit at 60% design in April 2025. The Town has been in communication with the Corps of Engineers and anticipates approval of the permit by December 2025.

Engineering & Design Work: The Town of Minturn has procured HDR Engineering, Inc. through a competitive public bidding process. HDR has completed a project alternatives analysis and 30% design. The Town anticipates that 60% of the design will be completed by April 2025, 90% by July 2025, and 100% by October 2025. Staff, including the Town's Manager, has a bi-weekly meeting with HDR to address on-going concerns and keep the project moving forward. Design elements will be brought to Town Council at 60% and 90%, with final staff review and approval in September 2025.

Land Acquisition: No land needs to be purchased to implement the project.

Federal Lands & Facilities: Minturn's current and proposed water plants are sited on Town-owned land adjacent to the White River National Forest. The Forest Service's Vail Area Holly Cross Office is located just outside Minturn. Many Forest Service employees live within Minturn, and the two organizations have a supportive relationship. The Federal agency supports the new water plant, which will help provide water to suppress community fires before they become wildfires. Since the project is a municipal water supply project, the Forest Service will not contribute funding and is unable to support its completion.

New Policies or Administrative Actions Required: The Town is currently pursuing State Revolving Loan Funds and private loan funds for construction that will serve as the local match. The Town Council will need to approve the final loan before project construction can move forward in mid- 2026. The Town anticipates approving the final loan in Fall 2025 after the project is bid to ensure the correct amount of funding is available to move the project forward in June 2026.

Evaluation Criterion E. Presidential and Department of the Interior Priorities

Climate change and mitigating its impacts on the water supply and region drive the need for Minturn's new water plant. Due to a warming climate, the community will see an extended fire season, decreased snowfall, and increased severity of drought, creating conditions ripe for catastrophic wildfires and increasing pollutants in the water supply. Minturn is also keenly aware of climate change's impacts on Eagle County's water supply, as discussed in **Evaluation Criterion A. Severity of Drought or Water Scarcity and Impacts.** Peak flow magnitudes during typical and dry years have declined 24-30%, respectively. Total annual flow volumes in dry years declined 32% from previous years. Minturn is preparing for a hot, dryer, more fire-prone future. The new water plant will be able to process water with increased pollutants and can be modified to treat water from the Eagle River, increasing long-term resiliency with a second source of drinking water.

As discussed below in the section on disadvantaged communities, the region is at significant risk because of wildfire, flooding, and proximity to the Eagle River Mine Superfund Site. With elevated turbidity levels in Cross Creek, Minturn's drinking water is increasingly impacted by spring runoff. The existing slow sand plant struggles to meet the permit turbidity limits during high turbidity events, forcing the Town to utilize emergency well water.

Before climate change increased temperatures and reduced precipitation in the Colorado Rocky Mountains, Minturn's elevation (7,861 feet) insulated the community's watershed from the impacts of wildfire. According to the Eagle River Fire Protection District, the region sees fires burning hotter and faster; the greatest change in that regard is occurring in areas above 8,000 feet. An example of the growing risk to elevated communities' watersheds in the White River National Forest is the Grizzly Creek Fire in Glenwood Canyon.

2020 Grizzly Creek Fire

The Grizzly Creek wildfire was the largest and most expensive fire in the White River National Forest to date, consuming over 32,000 acres and burning from 5,700 feet to over 10,000 feet. The damage from the Grizzly Creek fire was directly responsible for the major debris flows in Glenwood Canyon in 2021.

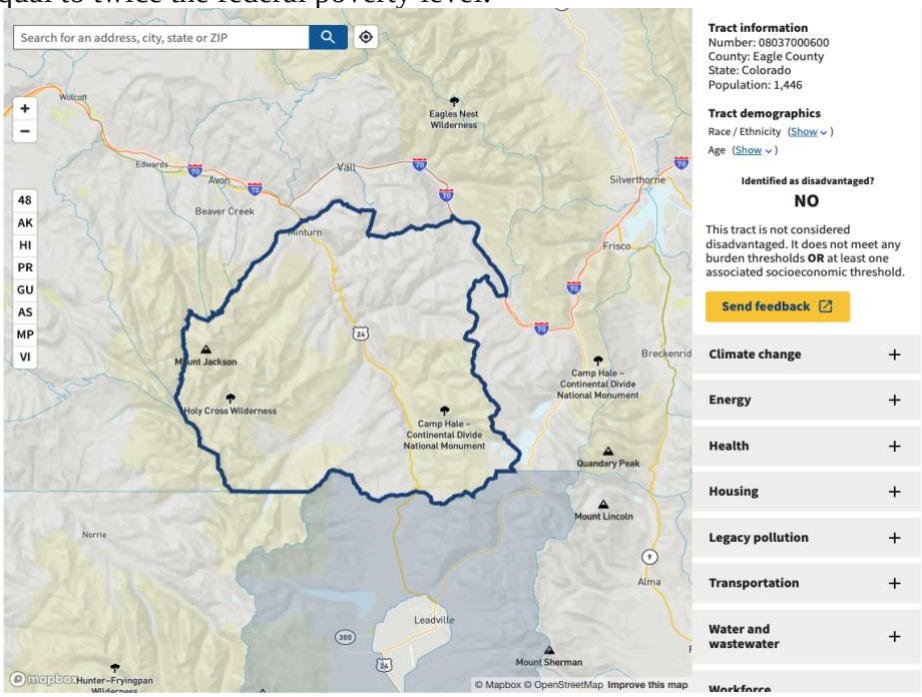
2021 Debris Flows

The Grizzly Creek Fire also burned the watershed for the City of Glenwood Springs and all municipalities that draw directly from the Colorado River. The City of Glenwood Springs had to build a new pre-treatment system and increased the community's use of a secondary water supply due to the fire.

Mintun is planning for a dryer, hotter, more fire-prone future today. The project builds resiliency in the community's water supply. The new water plant will meet the demand of existing customers and maintain treatment capacity during high turbidity events, such as spring runoff or future wildfires. The Town can add pretreatment trains to the plant, allowing future use of water from the Eagle River and a third water source for the community should the current water supply prove insufficient due to drought or untreatable due to a catastrophic wildfire.

Benefits for Disadvantaged Communities: Minturn (Census Tract 08037000600) is a small rural workforce community whose residents primarily serve the ski town of Vail. The proximity of the resort community increases residents' incomes but also exponentially raises housing prices, making the small community unaffordable. While the median household income is $103,333, residents struggle with the high cost of living since the average sales price of a residential home in 2023 was $1.35 million (REDFIN). The large gap between incomes and household expenses leaves residents struggling to pay for basic necessities and drives population decline. Since 2010, the population of Minturn has steadily declined by almost 15% (American Community Survey).

According to the White House Council on Environmental Quality's CEJST tool, Minturn residents, compared to other United States residents, are in the 99th percentile for expected population loss due to fatalities and injuries from natural hazards, the 92nd percentile for flooding, the 72nd for properties at risk from wildfires, and the 91st for homes without indoor kitchens or plumbing. The small rural community is highly vulnerable to natural hazards, and most residents lack the resources to recover following inevitable natural disasters. Latino households comprise 22% of the total population, and the community is in the 37th percentile for households that are less than or equal to twice the federal poverty level.



CEJST Map and Indicators

Income disparities and lack of housing affordability will cause large-scale displacement of residents following natural disasters. Residents who devote a significant portion of their income to housing have limited abilities to bolster their savings, leaving them with few choices following floods or fires. According to Minturn's Community Plan, over half of Minturn households are burdened with housing costs since they pay over 30% or more of their income towards housing (both renters and owners).

Pressure on housing prices also increases due to the lack of a resilient water supply. The Town has had a moratorium in place on water taps for new-build construction projects requiring more than three single-family equivalents since 2020 due to an inability to increase water production. Until Minturn is able to obtain additional potable water capacity and lift the existing water tap moratorium, significant new development is hindered, driving up housing costs and reducing affordability further.

The community also suffers from a legacy of pollution. Minturn ranks in the 86th percentile of communities within 5 kilometers of a listed Superfund or National Priorities List (NPL) site. The 235-acre Eagle Mine Superfund Site is located one mile from the Town, with the Eagle River

running through the site. Gold, silver, copper, and zinc mining and production occurred on the site at various times between the 1880s and 1984, leaving high levels of metals in soils, surface water, and groundwater. EPA placed the site on the NPL in 1986, and to date, cleanup has included the removal of contaminated soils and sediments, containment of mine seepage and runoff, monitoring of surface water, groundwater, pool water, and stream water, and land use controls.

While the CEJST Tool does not classify Minturn as a disadvantaged or historically underserved community, it is at extreme risk from natural disasters, including flooding and wildfire. These threats will make the production of drinking water more challenging and expensive for residents already struggling with basic household necessities. Minturn's new water treatment plant will be a lifeline for the community, allowing additional development, decreasing the cost of housing, increasing tax revenues, and providing safe and ample water for residents even as water grows harder to treat due to fires and flooding.

Tribal Benefits: The project does not serve or benefit a Federally Recognized Tribe.

Evaluation Criterion F. Nexus to Reclamation

The project does not have a nexus to a Reclamation Project.

Evaluation Criterion G. Stakeholder Support for Proposed Project

See **Appendix D** for letters of support from the following Stakeholders:

- Eagle River Fire Protection District
- Eagle River Coalition
- Eagle County School District
- Minturn Community Fund

Performance Measures

The project benefits will be assessed by quantifying the volume of water in acre-feet per year (AFY) to gauge the effectiveness of Task A: Drought Resiliency. This will help in evaluating the enhancements in the reliability of drinking water in Minturn. No grant funding is being requested for monitoring and data management, as the Town already keeps active records on AFY.

D.2.2.3. Budget Narrative

All costs associated with this WTP Modernization initiative are **construction costs**. Construction includes the following in alignment with the Section B of the SF424A:

Contractual Services: Construction Management, including construction oversight and inspection, is necessary to facilitate the successful implementation of this WTP modernization. Construction management was estimated at $250/hr x 4,800 hrs = $1.2 million.

Construction Materials & Equipment: The attached Opinion of Probable Cost, **(Appendix B)** provided to the Town by Glacier Construction, identifies all materials, supplies, and equipment needed for this project, estimated at $11,903,325.

The project budget includes $6 million in federal funding, including the $3 million requested from the USBR WaterSMART program and $3 million in congressionally-directed spending, EPA State and Tribal Assistance (STAG) funds. US EPA STAG funds require a $750,000 local match. In

addition, the Town plans to seek $1 million in Colorado Department of Local Affairs (DOLA) funds and apply for a $7 million loan to support construction activities, as depicted in the chart below.

Source	Federal	Non-Federal
WaterSMART Request	$3,000,000	
CDS funds	$3 million, including $1 million in FY23 funds; and $2 million in FY24 funds	$750,000
DOLA EIAF (Planned)		$1 million
SLFR or Private Loan (Planned)		$5,353,325
Total	$6,000,000	$7,103,325

D.2.2.4. Environmental and Cultural Resources Compliance

Will the proposed project impact the surrounding environment (e.g., soil [dust], air, water [quality and quantity], animal habitat)? Please briefly describe all earth-disturbing work and any work that will affect the air, water, or animal habitat in the project area. Please also explain the impacts of such work on the surrounding environment and any steps that could be taken to minimize the impacts, as well as any other past, present, or reasonably foreseeable future developments that you are aware of that will affect these same resources in the surrounding area.

All work, including earth-disturbing work, will occur within the existing Minturn Water Treatment Plant (WTP) property, which has been previously disturbed. As such, project impacts to the surrounding environment will be minimal. As discussed below under the discussion of threatened and endangered species, the area where the most ground disturbing activities will occur is where the existing filter ponds are, which will be filled and the new WTP will be constructed on top.

Earth-disturbing work within the WTP property will include some grading, excavation for the removal of existing pipe, filling of the existing filter ponds, and removal of sand, gravel, and PVC underdrain piping. Excavation will extend at least 3 feet in depth. Some soil will be removed from around the filter ponds and replaced with structural fill. While the project will include vegetation removal of grasses, forbs, and some shrubs, no tree removal will occur. These activities will temporarily disturb soils and subject them to erosion. During grading and excavating activities, erosion and sediment control measures will be implemented to minimize impacts to soils and to avoid indirect water quality impacts to Cross Creek, located approximately 120 feet east of the project area.

The new WTP will utilize the existing Cross Creek surface water intake. Compliance with all existing permit requirements for that intake will be maintained with the new WTP.

While the project will add additional impervious surface (3,200 square feet associated with the WTP building) within the project area, the development of the existing WTP has left the project area largely devoid of environmental resources. Reasonable measures have been taken to avoid environmental resource features within the project area (i.e., wetlands, trees, etc.), which could provide habitat for wildlife. The WTP design includes stormwater management measures.

Construction-related emissions from equipment and machinery and earthmoving activities would result in particulate matter from fugitive dust. Best management practices (BMPs) would be implemented during construction to reduce vehicle idle time, to ensure vehicles are well-maintained, to utilize dust reduction methods, and to utilize vehicles and machinery that comply with EPA emission standards.

With respect to other past, present, and reasonably foreseeable future developments near the project area, there is new residential development proposed in subdivisions approximately 1-2 miles away and a 250-acre expansion of the Beaver Creek Resort that was completed approximately two years ago. The Beaver Creek Expansion occurred over seven miles away from the project area and therefore did not affect the same resources. The proposed new residential development would be anticipated to impact surrounding air quality similar to the proposed WTP. Air emissions would increase temporarily during construction activities but will be below *de minimis* thresholds.

Are you aware of any species listed or proposed to be listed as a Federal threatened or endangered species, or designated critical habitat in the project area? If so, would they be affected by any activities associated with the proposed project?

According to the U.S. Fish and Wildlife Service (USFWS) Information Planning and Conservation (IPaC) System, 10 species listed, proposed, or candidate for listing under the Endangered Species Act (ESA) have the potential to occur within, or be impacted by, a project at this location (USFWS 2024a). Species include: Canada lynx (*Lynx canadensis*; Threatened), gray wolf (*Canis lupus*; Experimental Population), Mexican spotted owl (*Strix occidentalis lucida*; Threatened), yellow-billed cuckoo (*Coccyzus americanus*; Threatened), bonytail (*Gila elegans*; Endangered), Colorado pikeminnow (*Ptychocheilus Lucius*; Endangered), humpback chub (*Gila cypha*; Threatened), razorback sucker (*Xyrauchen texanus*; Endangered), monarch butterfly (*Danaus Plexippus*; Candidate), and the Ute ladies'-tresses (*Spiranthes diluvialis*; Threatened). There is no critical habitat within the project area.

Of these species, based on the habitat within and adjacent to the project area, the Canada lynx, gray wolf, Mexican spotted owl, and monarch butterfly have the potential to occur within or adjacent to the project area. The project will occur entirely within the Minturn WTP site and given the existing facilities on the site, there is limited habitat for species within the project area. While trees do occur within the project area, tree removal will not occur as part of the project. The area where the most ground disturbing activities will occur is where the existing filter ponds are, which will be filled and the new WTP will be constructed on top. The existing filter pond area is currently fenced off by a chain link fence and, combined with the lack of vegetation within that area, does not offer suitable habitat for any of the listed species. Other impacts, such as the increase of noise

during project construction, may have an effect on listed species with the potential to occur within or around the project area. However, impacts will be temporary and limited to the duration of construction activities.

Are there wetlands or other surface waters inside the project boundaries that potentially fall under CWA jurisdiction as "Waters of the United States"? If so, please describe and estimate any impacts the proposed project may have.

One potential jurisdictional Waters of the U.S. (WOTUS) feature, Cross Creek, flows adjacent to the project area, approximately 120 feet east of the project boundary. The USFWS National Wetland Inventory (NWI) identifies palustrine scrub/shrub deciduous wetlands adjacent to Cross Creek, which approach the project boundaries in some areas (USFWS, 2024b). A site visit was conducted in September 2022 to document biological resources in and surrounding the project area, including wetlands. Several wetland areas were delineated adjacent to the project area including one large wetland between the project area and Cross Creek, similar to what is shown on the NWI mapping. The results of this delineation were utilized by the project team in order to avoid impacts to wetlands during project activities. All delineated wetlands have been avoided by the current design; therefore, no direct impacts to wetlands will occur with construction of the new WTP. Indirect impacts to adjacent wetlands will be avoided through the implementation of erosion and sediment control measures and other BMPs.

When was the water delivery system constructed?

The slow-sand water filtration and treatment plant was constructed in 1965. The original outdoor filters were built in 1965, and the indoor slow-sand filter was added in the 1990s.

Will the proposed project result in any modification of or effect to, individual features of an irrigation system (e.g. headgates, canals, or flumes)? If so, state when those features were constructed and describe the nature and timing of any extensive alterations or modifications to those features completed previously.

No modifications to irrigation systems are anticipated as a result of this project.

Are any buildings, structures, or features in the project area listed or eligible for listing on the National Register of Historic Places?

A review of the Colorado Office of Archaeology and Historic Preservation (OAHP) Compass database did not identify previously listed or eligible historic resources within or intersecting the project area (Colorado OAHP, 2024). While the existing water treatment plant is approximately 60 years old, no information was found indicating that this site has been previously evaluated for National Register of Historic Places (NRHP) eligibility.

Are there any known archaeological sites in the proposed project area?

Based on an archaeological review of the OAHP Compass database, two previously evaluated archaeological sites were identified within or intersecting the project area (Colorado OAHP, 2024). Both sites were determined Officially Not Eligible for listing on the National Register of Historic Places in 2020.

Will the proposed project have an adverse and disproportionate effect on communities with environmental justice concerns (as discussed in E.O. 14096)?

Based on a review of the U.S. Census Bureau's American Community Survey 2022 5-year data

for the census track and block group that covers the project area, there are no environmental justice populations present (U.S. Census Bureau, 2022).

Will the proposed project limit access to, and ceremonial use of, Indian sacred sites or result in other impacts on tribal lands?

A review of Indian sacred sites and tribal lands was conducted in accordance with the *National Register Bulletin No. 38: Guidelines for Evaluating and Documenting Traditional Cultural Properties* (National Park Service, 1998) and the "Fundamentals for Managing the Cultural Heritage Program: Traditional Cultural Places and Indian Sacred Sites" (Bureau of Land Management, 2024). There are no Indian sacred sites or tribal lands within or adjacent to the project area.

Will the proposed project contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area?

Noxious weed species documented near the project location include dalmatian toadflax (*Linaria dalmatica*), Canada thistle (*Cirsium arvense*), oxeye daisy (*Leucanthemum vulgare*), and scentless chamomile (*Tripleurospermum inodorum*) (near US 24) (University of Georgia, 2024). Additionally, during a site visit conducted in September 2022, common mullein (*Verbascum thapsus*), musk thistle (*Carduus nutans*), and hairy willow herb (*Epilobium hirsutum*) were observed near the project area. The implementation of BMPs to be used throughout the duration of the project will prevent the introduction or spread of noxious weeds within the project area.

References

Bureau of Land Management, 2004. "Fundamentals for Managing the Cultural Heritage Program: Traditional Cultural Places & Indian Sacred Sites." Available at: https://www.ntc.blm.gov/krc/system/files?file=legacy/uploads/18293/GuidetoTCPs%26SacredSites.pdf.Accessed October 4, 2024.

Colorado Office of Archaeology and Historic Preservation, 2024. COMPASS database. Available at: https://gis.colorado.gov/compass/. Accessed on October 4, 2024.

National Park Service, 1998. *National Register Bulletin No. 38: Guidelines for Evaluating and Documenting Traditional Cultural Properties*. Washington D.C.: National Park Service – United States Department of the Interior.

University of Georgia, 2024. "EDDMapS -- Early Detection and Distribution Mapping System." Available at: https://www.eddmaps.org/. Accessed October 2024.

U.S. Census Bureau, 2022. Hispanic or Latino Origin by Race. Available at: https://data.census.gov/table/ACSDT5Y2022.B03002?q=b03002&g=1500000US080370006001. Accessed October 4, 2024.

USFWS, 2024a. "IPaC- Information for Planning and Consultation," United States Fish and Wildlife Service. Available at: http://ecos.fws.gov/ipac/. Accessed October 2024.

USFWS, 2024b. "National Wetlands Inventory: Wetlands Mapper." Available at: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. Accessed October

2024.

D.2.2.5. Required Permits or Approvals

The Town will need to obtain several permits and approvals before initiating construction and before the new water plant can be brought online, consistent with local, state, and federal requirements. These include:

- **Environmental Protection Agency (EPA) NEPA Permit:** NEPA permitting is required as the project is anticipated to be classified as an Environmental Assessment (EA) due to increasing production capacity over 30%. Tribal consultation on the project is already underway and the Town anticipates completion of NEPA review by October 2025. **Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Division (WQCD) Plan and Construction Approval:** Minturn will apply for a CDPHE WQCD Permit upon completion of 90% of the design in July 2025 and anticipates approval by October 2025. The Town and engineering design firm are in consultation with CDPHE concerning the design and anticipate no issues with final approval.
- **Town of Minturn Building Permit:** The Town will apply for a building permit when the design is 100% completed in October 2025. Staff anticipates that the Town Board of Trustees will approve the building permit in December 2025.
- **Eagle County 1041:** Minturn will apply for an Eagle County 1041 Permit in April 2025. The Town anticipates being approved by the County Planning Commission by January 2026.
- **United States Forest Service (USFS) Special Use Permit (SUP):** The Town will apply for a USFS SUP permit in October 2025 upon completion of design. Minturn anticipates having approval by May 2026. The Town has been in close communication with the Forest Service and anticipates no issues with approval.
- **US Army Corps of Engineers 404 Nationwide Permit (NWP) Preconstruction Notice:** The Town will apply for a NWP permit at 60% design in April 2025. The Town has been in communication with the Corps of Engineers and anticipates approval of the permit by December 2025.

D.2.2.6. Overlap or Duplication of Effort Statement

Minturn affirms that no overlap exists between the proposed project and any other active or anticipated proposals or projects in terms of activities, costs, or commitment of key personnel.

D.2.2.7. Conflict of Interest Disclosure Statement

Minturn affirms that there is no actual or potential conflict of interest with any employees of Minturn as it relates to this application.

D.2.2.8. Uniform Audit Reporting Statement

Minturn is not required to submit a Single Audit report in Fiscal Year 2023 as federal funding did not exceed $750,000.

D.2.2.9. Disclosure of Lobbying

Minturn has submitted a completed and signed SF-LLL: Disclosure of Lobbying Activities form.

EAGLE RIVER COALITION

Protecting Our Local Watersheds

October 3, 2024

Maria Camille Calimlim Touton
Commissioner, U.S. Bureau of Reclamation
1849 C Street NW
Washington, DC 20240

Subject: Support for the Town of Minturn's Water Treatment Modernization Initiative

Dear Commissioner Calimlim Touton,

On behalf of the Eagle River Coalition, I write to express our strong support for the Town of Minturn's *"Minturn Water Treatment Modernization Initiative,"* which is seeking U.S. Bureau of Reclamation (USBR) WaterSMART Drought Resiliency funding. With USBR support, the Town will modernize its 60+ year-old water treatment facility by building a new plant with membrane filtration and associated water utility improvements. This facility is critical to meeting the Town's current and future water needs and increasing the reliability of water supplies for this small, rural community.

Eagle River Coalition advocates for the health of the Upper Colorado and Eagle River watersheds through research, education, and restoration projects. We protect and enhance the natural, scenic, and economic values that our rivers and tributaries provide to the residents, visitors, and wildlife of Eagle County. We support the Water Treatment Plant Modernization project because improvements to the WTP are critical to not only improving water infrastructure and reliability to protect the well-being of Minturn residents, but a new membrane treatment plant will support water resilience and reliability. This goal aligns with the completed Eagle River Community Water Plan objective: Meet projected municipal water demands of expected population growth in Eagle County given the uncertainty of a changing climate.

Thank you for considering the *Minturn Water Treatment Plan Modernization Initiative. P*lease do not hesitate to contact me directly if you wish to discuss this. We also thank you for considering the Town of Minturn's funding request.

Sincerely,

James Dilzell

Executive Director, Eagle River Coalition

October 2, 2024

Maria Camille Calimlim Touton
Commissioner
U.S. Bureau of Reclamation
1849 C Street NW
Washington, DC 20240

Subject: Support for the Town of Minturn's Water Treatment Modernization Initiative

Dear Commissioner Calimlim Touton,

On behalf of the Eagle River Fire Protection District, I write to express our strong support for the Town of Minturn's *"Minturn Water Treatment Modernization Initiative,"* which is seeking U.S. Bureau of Reclamation (USBR) WaterSMART Drought Resiliency funding. With USBR support, the Town will modernize its 60+ year-old water treatment facility by building a new plant with membrane filtration and associated water utility improvements. This facility is critical to meeting the Town's current and future water needs and increasing the reliability of water supplies for this small, rural community.

The Eagle River Fire Protection District supports Minturn's Water Treatment Plant Modernization project for the following reasons:

1. Enhanced Fire Safety: Modernizing the water treatment plant ensures a reliable water supply, crucial for firefighting operations, especially in emergencies. Our region is seeing fires that burn hotter and faster, and the greatest change in that regard is occurring in areas above 8,000 feet.

2. Improved Water Quality: Upgrading the plant will enhance the quality of water available to residents, reducing health risks and ensuring safe drinking water.

3. Infrastructure Reliability: The current plant, built in the 1960s, is outdated. Modernization will prevent potential failures and ensure consistent water service.

4. Economic Benefits: A modern water treatment facility can attract new businesses and residents, boost the local economy, and provide financial stability.

Post Office Box 2942 • 1050 Edwards Access Road • Edwards, Colorado 81632-2942
Phone: 970-748-9665 • Fax: 970-949-7965

5. Environmental Protection: Upgrading to more efficient technology will reduce environmental impact, ensuring sustainable water management practices.

Thank you for considering the *Minturn Water Treatment Modernization Initiative Project.* Please do not hesitate to contact me directly if you wish to discuss this. We also thank you for considering the Town of Minturn's funding request.

Sincerely,

Karl Bauer, Fire Chief
M.S., CFO, EFO

Post Office Box 2942 • 1050 Edwards Access Road • Edwards, Colorado 81632-2942
Phone: 970-748-9665 • Fax: 970-949-7965

Sandra Farrell, C.P.A.
Chief Operating Officer
sandra.farrell@eagleschools.net

EAGLE COUNTY SCHOOLS

October 4, 2024

Maria Camille Calimlim Touton
Commissioner
U.S. Bureau of Reclamation
1849 C Street NW
Washington, DC 20240

Re: Support for the Town of Minturn's Water Treatment Modernization Initiative

Dear Commissioner Calimlim Touton,

On behalf of the Eagle County School District RE50J, I write to express our strong support for the Town of Minturn's "Minturn Water Treatment Modernization Initiative," which is seeking U.S. Bureau of Reclamation (USBR) WaterSMART Drought Resiliency funding. With USBR support, the Town will modernize its 60+ year-old water treatment facility by building a new plant with membrane filtration and associated water utility improvements. This facility is critical to meeting the Town's current and future water needs and increasing the reliability of water supplies for this small, rural community.

Eagle County School District (ECSD) provides PK-12 public education to approximately 6,500 children in Eagle County. This includes Vail Ski and Snowboard Academy (VSSA) located in Maloit Park, Minturn and currently has over two-hundred students attending it. VSSA is a unique public school that allows serious winter sports athletes the opportunity of training and competition in their sport at Ski and Snowboard Club Vail (SSCV) in a challenging, college-preparatory academic environment. Maloit Park, which features 10 kilometers of Nordic trails, is built and maintained by SSCV. First opened in 2011, the SSCV Nordic Center has quickly become the setting for world-class training and competition as a FIS-homologated site that has played host to numerous high-level events, such as NCAA Regionals. The trails also provide a great venue for the community to enjoy the outdoor sports of Nordic skiing and snowshoeing. Other outdoor activities occur year-round on the multiple trails and throughout the open space.

ECSD supports the Minturn's Waer Treatment Modernization Initiative. Maloit Park has a small ECSD mobile home park that currently provides housing opportunities for sixteen families The district is also moving forward with housing development that will provide an additional 120 housing units for teachers and district employees over the next few years. Having access to safe drinking water for residents is a priority. The concern about the capacity to meet future development exists for the district even though these 120 units were secured prior to the moratorium. ECSD is relying on these homes to be affordable to help attract and retain staff. The fear of having significant rate increases will impact the affordability of these units. The financial impact to improve the water treatment plant is very significant so any additional resources accessible to the Town of Minturn will be beneficial to current and future residents.

pho: 970 328-6321 fax: 970 328-1024
948 Chambers Ave • PO Box 740 • Eagle, CO 81631

Sandra Farrell, C.P.A.
Chief Operating Officer
sandra.farrell@eagleschools.net

EAGLE COUNTY SCHOOLS

Thank you for considering the Minturn Water Treatment Plan Modernization Initiative. Please do not hesitate to contact me directly if you wish to discuss this. We also thank you for considering the Town of Minturn's funding request.

Regards

Sandra Farrell

Sandra Farrell
Chief Operating Officer
Eagle County School District

pc: ECSD Business Services

pho: 970 328-6321 fax: 970 328-1024
948 Chambers Ave • PO Box 740 • Eagle, CO 81631

October 2, 2024

Maria Camille Calimlim Touton
Commissioner
U.S. Bureau of Reclamation
1849 C Street NW
Washington, DC 20240

Subject: Support for the Town of Minturn's Water Treatment Modernization Initiative

Dear Commissioner Calimlim Touton,

On behalf of the Minturn Community Fund, I write to express our strong support for the Town of Minturn's *"Water Treatment Modernization Initiative,"* which is seeking U.S. Bureau of Reclamation (USBR) WaterSMART Drought Resiliency funding. With USBR support, the Town will modernize its 60+ year-old water treatment facility by building a new plant with membrane filtration and associated water utility improvements. This facility is critical to meeting the Town's current and future water needs and increasing the reliability of water supplies for this small, rural community.

The Minturn Community Fund (MCF) is a non-profit organization that was founded over 20 years ago and exists to connect the people, enhance the lives, and preserve the culture of Minturn. We have partnered with the Town since our inception and value the many collaborative projects, programs, and initiatives we have tackled together. The MCF supports this *Water Treatment Modernization Initiative* because improvements to the WTP are essential to improving water infrastructure and reliability to protect the well-being of Minturn residents. Without federal funding support, the high cost of modernizing Minturn's water infrastructure will put a significant strain on our neighbors, with homeowners facing a monthly rate increase of more than $115. Keeping Minturn an affordable place to reside and raise a family is a vital piece of "enhancing the lives" of our community.

Thank you for considering the Town of Minturn's *Water Treatment Modernization Initiative.* On behalf of the entire MCF Board, please give Minturn's application the highest consideration.

Please do not hesitate to contact me directly if you wish to discuss this further.
Sincerely,

Diana Scherr, President of the Board
970-376-4445 cell

OM

Expiration Date: 11/30/2025

Application for Federal Assistance SF-424

* 1. Type of Submission:	* 2. Type of Application:	* If Revision, select appropriate letter(s):
☐ Preapplication	☒ New	
☒ Application	☐ Continuation	* Other (Specify):
☐ Changed/Corrected Application	☐ Revision	

* 3. Date Received:	4. Applicant Identifier:
10/07/2024	

5a. Federal Entity Identifier:	5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:	7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: Town of Minturn, Colorado

* b. Employer/Taxpayer Identification Number (EIN/TIN):	* c. UEI:
84-6000697	R179TJG2WPX4

d. Address:

* Street1:	302 Pine Street
Street2:	#309
* City:	Minturn
County/Parish:	Eagle
* State:	CO: Colorado
Province:	
* Country:	USA: UNITED STATES
* Zip / Postal Code:	81645-5016

e. Organizational Unit:

Department Name:	Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:		* First Name:	Michelle
Middle Name:			
* Last Name:	Metteer		
Suffix:			

Title: Town Manager

Organizational Affiliation:

Town of Minturn, Colorado

* Telephone Number:	970-827-5645x8	Fax Number:	

* Email: manager@minturn.org

Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

C: City or Township Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Bureau of Reclamation

11. Catalog of Federal Domestic Assistance Number:

15.514

CFDA Title:

Reclamation States Emergency Drought Relief

*** 12. Funding Opportunity Number:**

R25AS00013

* Title:

WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025

13. Competition Identification Number:

R25AS00013

Title:

WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment | Delete Attachment | View Attachment

*** 15. Descriptive Title of Applicant's Project:**

Minturn Water Treatment Plant (WTP) Modernization Initiative

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant CO002 * b. Program/Project CO002

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date: 10/01/2025 * b. End Date: 09/30/2028

18. Estimated Funding ($):

* a. Federal	6,000,000.00
* b. Applicant	750,000.00
* c. State	1,000,000.00
* d. Local	0.00
* e. Other	5,353,325.00
* f. Program Income	0.00
* g. TOTAL	13,103,325.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment | Delete Attachment | View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 18, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name: Madison

Middle Name:

* Last Name: Harris

Suffix:

* Title: Planner

* Telephone Number: 370-445-2429 Fax Number:

* Email: planner1@minturn.org

* Signature of Authorized Representative: Madison Harris * Date Signed: 10/07/2024

BUDGET INFORMATION - Non-Construction Programs

OMB Number: 4040-0006
Expiration Date: 02/28/2025

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025	15.514	$	$	$ 6,000,000.00	$ 7,103,325.00	$ 13,103,325.00
2.						
3.						
4.						
5. Totals		$	$	$ 6,000,000.00	$ 7,103,325.00	$ 13,103,325.00

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SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY (1) WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025	(2)	(3)	(4)	Total (5)
a. Personnel	$	$	$	$	$
b. Fringe Benefits					
c. Travel					
d. Equipment					
e. Supplies					
f. Contractual					
g. Construction	13,103,325.00				13,103,325.00
h. Other					
i. Total Direct Charges (sum of 6a-6h)	13,103,325.00				$ 13,103,325.00
j. Indirect Charges					$
k. TOTALS (sum of 6i and 6j)	$ 13,103,325.00	$	$	$	$ 13,103,325.00
7. Program Income	$	$	$	$	$

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SECTION C - NON-FEDERAL RESOURCES

(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e)TOTALS
8. WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025	$ 750,000.00	$ 1,000,000.00	$ 5,353,325.00	$ 7,103,325.00
9.				
10.				
11.				
12. TOTAL (sum of lines 8-11)	$ 750,000.00	$ 1,000,000.00	$ 5,353,325.00	$ 7,103,325.00

SECTION D - FORECASTED CASH NEEDS

	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	$ 2,000,000.00	$ 500,000.00	$ 500,000.00	$ 500,000.00	$ 500,000.00
14. Non-Federal	$ 2,364,000.00	591,000.00	591,000.00	591,000.00	591,000.00
15. TOTAL (sum of lines 13 and 14)	$ 4,364,000.00	$ 1,091,000.00	$ 1,091,000.00	$ 1,091,000.00	$ 1,091,000.00

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT

(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)			
	(b)First	(c) Second	(d) Third	(e) Fourth
16. WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025	$ 2,000,000.00	$ 2,000,000.00	$	$
17.				
18.				
19.				
20. TOTAL (sum of lines 16 - 19)	$ 2,000,000.00	$ 2,000,000.00	$	$

SECTION F - OTHER BUDGET INFORMATION

21. Direct Charges:

22. Indirect Charges:

23. Remarks:

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OMB
Expiration Date: 02/28/2025

ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.

2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.

4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.

5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).

6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C.§§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.

10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is $10,000 or more.

11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.

13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593(identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).

14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.

15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.

16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.

17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
Madison Harris	Planner
APPLICANT ORGANIZATION	DATE SUBMITTED
Town of Minturn, Colorado	10/07/2024

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BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	$	$	$
2. Land, structures, rights-of-way, appraisals, etc.	$	$	$
3. Relocation expenses and payments	$	$	$
4. Architectural and engineering fees	$	$	$
5. Other architectural and engineering fees	$	$	$
6. Project inspection fees	$	$	$
7. Site work	$	$	$
8. Demolition and removal	$	$	$
9. Construction	$ 13,103,325.00	$	$ 13,103,325.00
10. Equipment	$	$	$
11. Miscellaneous	$	$	$
12. SUBTOTAL *(sum of lines 1-11)*	$ 13,103,325.00	$	$ 13,103,325.00
13. Contingencies	$	$	$
14. SUBTOTAL	$ 13,103,325.00	$	$ 13,103,325.00
15. Project (program) income	$	$	$
16. TOTAL PROJECT COSTS *(subtract #15 from #14)*	$ 13,103,325.00	$	$ 13,103,325.00

FEDERAL FUNDING

17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.	Enter eligible costs from line 16c Multiply X %	$ 0.00

ASSURANCES - CONSTRUCTION PROGRAMS

OMB Number: 4040-0009
Expiration Date: 02/28/2025

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant:, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progressive reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards of merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
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SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL	TITLE
Madison Harris	Planner
APPLICANT ORGANIZATION	DATE SUBMITTED
Town of Minturn, Colorado	10/07/2024

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Project Narrative File(s)

*** Mandatory Project Narrative File Filename:** 1238-Technical Proposal_FINAL.pdf

Add Mandatory Project Narrative File | Delete Mandatory Project Narrative File | View Mandatory Project Narrative File

To add more Project Narrative File attachments, please use the attachment buttons below.

Add Optional Project Narrative File | Delete Optional Project Narrative File | View Optional Project Narrative File

The following attachment is not included in this view since it is not a read-only PDF file.

The agency will receive all application forms and attachments without any data loss.

ProjectNarrativeAttachments_1_2-Attachments-1238-Technical Proposal_FINAL.pdf

Tracking Number:GRANT14273918 Funding Opportunity Number:R25AS00013 Received Date:Oct 07, 2024 03:53:19 PM EDT

Budget Narrative File(s)

*** Mandatory Budget Narrative Filename:** 1234-Attachment A - Budget Detail and Narrative.xl

Add Mandatory Budget Narrative | Delete Mandatory Budget Narrative | View Mandatory Budget Narrative

To add more Budget Narrative attachments, please use the attachment buttons below.

Add Optional Budget Narrative | Delete Optional Budget Narrative | View Optional Budget Narrative

The following attachment is not included in this view since it is not a read-only PDF file.

The agency will receive all application forms and attachments without any data loss.

BudgetNarrativeAttachments_1_2-Attachments-1234-Attachment A - Budget D

etail and Narrative.xlsx

Tracking Number:GRANT14273918 Funding Opportunity Number:R25AS00013 Received Date:Oct 07, 2024 03:53:19 PM EDT

ATTACHMENTS FORM

Instructions: On this form, you will attach the various files that make up your grant application. Please consult with the appropriate Agency Guidelines for more information about each needed file. Please remember that any files you attach must be in the document format and named as specified in the Guidelines.

Important: Please attach your files in the proper sequence. See the appropriate Agency Guidelines for details.

1) Please attach Attachment 1	1235-Appendix B_WaterSMART_Mi	Add Attachment	Delete Attachment	View Attachment
2) Please attach Attachment 2	1236-Appendix C_WaterSMART_Mi	Add Attachment	Delete Attachment	View Attachment
3) Please attach Attachment 3	1237-Appendix D _WaterSMART_M	Add Attachment	Delete Attachment	View Attachment
4) Please attach Attachment 4		Add Attachment	Delete Attachment	View Attachment
5) Please attach Attachment 5		Add Attachment	Delete Attachment	View Attachment
6) Please attach Attachment 6		Add Attachment	Delete Attachment	View Attachment
7) Please attach Attachment 7		Add Attachment	Delete Attachment	View Attachment
8) Please attach Attachment 8		Add Attachment	Delete Attachment	View Attachment
9) Please attach Attachment 9		Add Attachment	Delete Attachment	View Attachment
10) Please attach Attachment 10		Add Attachment	Delete Attachment	View Attachment
11) Please attach Attachment 11		Add Attachment	Delete Attachment	View Attachment
12) Please attach Attachment 12		Add Attachment	Delete Attachment	View Attachment
13) Please attach Attachment 13		Add Attachment	Delete Attachment	View Attachment
14) Please attach Attachment 14		Add Attachment	Delete Attachment	View Attachment
15) Please attach Attachment 15		Add Attachment	Delete Attachment	View Attachment

Town of Minturn, CO WTP
30% OPC

THIS IS AN EXAMPLE BID PRICE BASED ON THE AUG 2024 30% DRAWINGS FOR WORK BEGINING IMMEDIATLEY. RECOMMEND THE TOWN CONSIDER **$12M TO $14M FOR PLANNING PURPOSES.**

			12.50%	1.00%	0.1500%	0.000%	0.000%	0.300%	0.300%	
		$ 10,242,477.91	$ 1,463,211.13	$ 118,418.71	$ 17,762.81	$ -	$ -	$ 30,727.43	$ 30,727.43	$ 11,903,325.41
BID ITEM DESCRIPTION	**QUANTITY**	**ESTIMATED COST**	**OH&P**	**BONDS**	**BLDR RISK**	**BLDG PERMIT**	**EXCISE TAX**	**PROCORE**	**WARR WORK**	**EXTENDED PRICE**
01 - General Conditions	1	$ 810,341.32	$ 115,763.05	$ 9,368.78	$ 1,405.32	$ -	$ -	$ 2,431.02	$ 2,431.02	$ 941,740.51
02 - Existing Conditions	1	$ 58,501.31	$ 8,357.33	$ 676.36	$ 101.45	$ -	$ -	$ 175.50	$ 175.50	$ 67,987.47
03 - Concrete	1	$ 562,071.51	$ 80,295.93	$ 6,498.41	$ 974.76	$ -	$ -	$ 1,686.21	$ 1,686.21	$ 653,213.04
04 - Masonry	1	$ 177,390.94	$ 25,341.56	$ 2,050.91	$ 307.64	$ -	$ -	$ 532.17	$ 532.17	$ 206,155.39
05 - Metals	1	$ 40,964.10	$ 5,852.01	$ 473.61	$ 71.04	$ -	$ -	$ 122.89	$ 122.89	$ 47,606.55
06 - Woods and Plastics	1	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
07 - Thermal and Moisture	1	$ 31,264.12	$ 4,466.30	$ 361.46	$ 54.22	$ -	$ -	$ 93.79	$ 93.79	$ 36,333.69
08 - Openings	1	$ 110,958.52	$ 15,851.22	$ 1,282.85	$ 192.43	$ -	$ -	$ 332.88	$ 332.88	$ 128,950.76
09 - Finishes	1	$ 126,261.78	$ 18,037.40	$ 1,459.78	$ 218.97	$ -	$ -	$ 378.79	$ 378.79	$ 146,735.49
10 - Specialties	1	$ 4,813.83	$ 687.69	$ 55.66	$ 8.35	$ -	$ -	$ 14.44	$ 14.44	$ 5,594.41
12 - Furnishings	1	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
13 - Special Construction	1	$ 871,615.89	$ 124,516.56	$ 10,077.21	$ 1,511.58	$ -	$ -	$ 2,614.85	$ 2,614.85	$ 1,012,950.94
21 - Fire Suppression	1	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
22 - Plumbing	1	$ 418,222.00	$ 59,746.00	$ 4,835.29	$ 725.29	$ -	$ -	$ 1,254.67	$ 1,254.67	$ 486,037.91
23 - HVAC	1	$ 306,000.00	$ 43,714.29	$ 3,537.83	$ 530.67	$ -	$ -	$ 918.00	$ 918.00	$ 355,618.79
26 - Electrical	1	$ 3,129,963.03	$ 447,137.58	$ 36,187.16	$ 5,428.07	$ -	$ -	$ 9,389.89	$ 9,389.89	$ 3,637,495.62
31 - Earthwork	1	$ 1,042,132.45	$ 148,876.06	$ 12,048.64	$ 1,807.30	$ -	$ -	$ 3,126.40	$ 3,126.40	$ 1,211,117.25
32 - Exterior Improvments	1	$ 62,636.49	$ 8,948.07	$ 724.17	$ 108.63	$ -	$ -	$ 187.91	$ 187.91	$ 72,793.18
33 - Utilites	1	$ 408,692.75	$ 58,384.68	$ 4,725.11	$ 708.77	$ -	$ -	$ 1,226.08	$ 1,226.08	$ 474,963.46
35 - Waterways & Marine	1	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
40 - Process Piping	1	$ 390,799.39	$ 55,828.48	$ 4,518.24	$ 677.74	$ -	$ -	$ 1,172.40	$ 1,172.40	$ 454,168.65
41 - Material Processing & Handling Equip	1	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
43 - Process Gas & Liquid Handling, Purification, Stora	1	$ 322,152.97	$ 46,021.85	$ 3,724.58	$ 558.69	$ -	$ -	$ 966.46	$ 966.46	$ 374,391.01
46 - Water & Wastewater Equipment	1	$ 1,367,695.50	$ 195,385.07	$ 15,812.65	$ 2,371.90	$ -	$ -	$ 4,103.09	$ 4,103.09	$ 1,589,471.30

Tracking Number:GRANT14273918 Funding Opportunity Number:R25AS00013 Received Date:Oct 07, 2024 03:53:19 PM EDT

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
1	BE	01 - General Conditions	PM/PE	01 - General Requirements	PROJECT MANAGER	HR	1200				100.47		$ -	$ -	$ -	$ -	$ 120,566	$ 120,566
2	BE	01 - General Conditions	PM/PE	01 - General Requirements	PROJECT ENGINEER	HR	1200				85.27		$ -	$ -	$ -	$ -	$ 102,323	$ 102,323
3	BE	01 - General Conditions	Supervision	01 - General Requirements	GENERAL SUPERVISION	HR	2400				115.01		$ -	$ -	$ -	$ -	$ 276,034	$ 276,034
4	BE	01 - General Conditions	Supervision	01 - General Requirements	CELL PHONES SUPT'S X MO's	EA	14		25.00		80.00		$ -	$ -	$ 350	$ -	$ 1,120	$ 1,470
5	BE	01 - General Conditions	Supervision	01 - General Requirements	PICKUPS	MO	14		850.00				$ -	$ -	$ 11,900	$ -	$ -	$ 11,900
6	BE	01 - General Conditions	Supervision	01 - General Requirements	PICKUP FUEL	WK	60		150.00				$ -	$ -	$ 9,000	$ -	$ -	$ 9,000
7	BE	01 - General Conditions	Supervision	01 - General Requirements	PROJECT COORDINATOR - CERTIFIED PAYROLL REPORTING	HR	480				45.50		$ -	$ -	$ -	$ -	$ 21,840	$ 21,840
8	BE	01 - General Conditions	Office & Furnishings	01 - General Requirements	COMPUTER EQUIPMENT	MO	14		75.00				$ -	$ -	$ 1,050	$ -	$ -	$ 1,050
9	BE	01 - General Conditions	Office & Furnishings	01 - General Requirements	FIELD OFFICE CONSUMABLES	WK	60	20.00					$ -	$ 1,200	$ -	$ -	$ -	$ 1,200
10	BE	01 - General Conditions	Office & Furnishings	01 - General Requirements	OFFICE TRAILERS	MO	14	50.00			4000.00	28.00	$ 1,999	$ 700	$ -	$ -	$ 56,000	$ 58,699
11	BE	01 - General Conditions	Office & Furnishings	01 - General Requirements	OFFICE WATER COOLER	MO	14				125.00		$ -	$ -	$ -	$ -	$ 1,750	$ 1,750
12	BE	01 - General Conditions	Office & Furnishings	01 - General Requirements	POSTAGE AND OVERNIGHT	WK	60	25.00					$ -	$ 1,500	$ -	$ -	$ -	$ 1,500
13	BE	01 - General Conditions	Office & Furnishings	01 - General Requirements	TOOL TRAILERS	MO	14		2000.00				$ -	$ -	$ 28,000	$ -	$ -	$ 28,000
14	BE	01 - General Conditions	Temp. Utilities	01 - General Requirements	INTERNET HOT SPOT	MO	14				90.00		$ -	$ -	$ -	$ -	$ 1,260	$ 1,260
15	BE	01 - General Conditions	Temp. Utilities	01 - General Requirements	TEMP POWER (HOOKUP)	LS	1			2000.00			$ -	$ -	$ -	$ 2,000	$ -	$ 2,000
16	BE	01 - General Conditions	Temp. Utilities	01 - General Requirements	TEMP POWER (MNTHLY CHARGES)	MO	14				500.00		$ -	$ -	$ -	$ -	$ 7,000	$ 7,000
17	BE	01 - General Conditions	Travel	01 - General Requirements	SUPT PER DIEM	MO	14				3000.00		$ -	$ -	$ -	$ -	$ 42,000	$ 42,000
18	BE	01 - General Conditions	Safety/Security	01 - General Requirements	TRAFFIC CONTROL	WK	4	50.00	150.00	250.00		32.00	$ 2,285	$ 200	$ 600	$ 1,000	$ -	$ 4,085
19	BE	01 - General Conditions	Safety/Security	01 - General Requirements	PROJECT SPECIFIC TRAINIING	HR	210			7.00	1.00	210.00	$ 14,996	$ -	$ -	$ 1,470	$ 210	$ 16,676
20	BE	01 - General Conditions	Safety/Security	01 - General Requirements	ONSITE SAFETY ORIENTATION	HR	210					210.00	$ 14,996	$ -	$ -	$ -	$ -	$ 14,996
21	BE	01 - General Conditions	Fire Control	01 - General Requirements	FIRE EXTINGUSHERS	EA	8	100.00				8.00	$ 571	$ 800	$ -	$ -	$ -	$ 1,371
22	BE	01 - General Conditions	Photos/Videos	01 - General Requirements	INTERNAL PHOTOGRAPHS	MO	14	30.00			20.00	28.00	$ 1,999	$ 420	$ -	$ -	$ 280	$ 2,699
23	BE	01 - General Conditions	Driver	01 - General Requirements	RUNNER/WAREHOUSEMAN	HR	240		20.00		5.00	240.00	$ 17,138	$ -	$ 4,800	$ -	$ 1,200	$ 23,138
24	BE	01 - General Conditions	Site	01 - General Requirements	DUMPSTER	EA	16				600.00		$ -	$ -	$ -	$ -	$ 9,600	$ 9,600
25	BE	01 - General Conditions	Site	01 - General Requirements	FINAL CLEANING	HR	16	2.00				16.00	$ 1,143	$ 32	$ -	$ -	$ -	$ 1,175
26	BE	01 - General Conditions	Site	01 - General Requirements	SANOLET EXPENSE	MO	22			150.00	75.00		$ -	$ -	$ -	$ 3,300	$ 1,650	$ 4,950
27	BE	01 - General Conditions	Engineering/Layout	01 - General Requirements	FIELD ENGINEERING	HR	240	3.00				240.00	$ 17,138	$ 720	$ -	$ -	$ -	$ 17,858
28	BE	01 - General Conditions	Engineering/Layout	01 - General Requirements	TOTAL STATION	MO	4		750.00				$ -	$ -	$ 3,000	$ -	$ -	$ 3,000
29	BE	01 - General Conditions	Tools	01 - General Requirements	FORKLIFT	MO	8		2400.00		500.00		$ -	$ -	$ 19,200	$ -	$ 4,000	$ 23,200
30	BE												$ -	$ -	$ -	$ -	$ -	$ -
31	BE												$ -	$ -	$ -	$ -	$ -	$ -
32	BE	02 - Existing Conditions	DEMO SITE	02 - Existing Conditions	DEMO CHAIN LINK FENCE 6FT H	LF	655					98.25	$ 7,016	$ -	$ -	$ -	$ -	$ 7,016
33	BE	02 - Existing Conditions	DEMO SITE	02 - Existing Conditions	DEMO / ABANDON 15" CMP	LF	100	1.00				15.00	$ 1,071	$ 100	$ -	$ -	$ -	$ 1,171
34	BE	02 - Existing Conditions	DEMO SITE	02 - Existing Conditions	DEMO PVC UNDERDRAIN PIPING	LF	600					90.00	$ 6,427	$ -	$ -	$ -	$ -	$ 6,427
35	BE	02 - Existing Conditions	DEMO SITE	02 - Existing Conditions	EQUIP EXCAVATOR PC350	MO	0.42		11000.00		3500.00		$ -	$ -	$ 4,620	$ -	$ 1,470	$ 6,090
36	BE	02 - Existing Conditions	DEMO SITE	02 - Existing Conditions	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	0.42		8200.00		3500.00		$ -	$ -	$ 3,444	$ -	$ 1,470	$ 4,914
37	BE	02 - Existing Conditions	DEMO SITE	02 - Existing Conditions	DUMPSTER W/ DEMO	EA	4				600.00		$ -	$ -	$ -	$ -	$ 2,400	$ 2,400

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
38	BE												$ -	$ -	$ -	$ -	$ -	$ -
39	BE	02 - Existing Conditions	EXIST FLR BLDG	02 - Existing Conditions	DEMO DI PIPE, FTG, VALVE, SUPTS	LF	70	3.00				105.00	$ 7,498	$ 210	$ -	$ -	$ -	$ 7,708
40	BE	02 - Existing Conditions	EXIST FLR BLDG	02 - Existing Conditions	DEMO PARSHAL FLUME	EA	1	350.00	1500.00	7500.00	250.00	160.00	$ 11,426	$ 350	$ 1,500	$ 7,500	$ 250	$ 21,026
41	BE	02 - Existing Conditions	EXIST FLR BLDG	40 - Process Integration	DI BLIND FLANGE 8	EA	3	409.00				3.00	$ 214	$ 1,227	$ -	$ -	$ -	$ 1,441
42	BE	02 - Existing Conditions	EXIST FLR BLDG	40 - Process Integration	NBG KIT SS 8	EA	3	60.00				1.80	$ 129	$ 180	$ -	$ -	$ -	$ 309
43	BE												$ -	$ -	$ -	$ -	$ -	$ -
44	BE												$ -	$ -	$ -	$ -	$ -	$ -
45	BE	03 - Concrete	CONCRETE	03 - Concrete	MEMBRANE TREATMENT BUILDNG CONCRETE	LS	1	110215.00		6552.00		1904.00	$ 135,964	$ 110,215	$ -	$ 6,552	$ -	$ 252,731
46	BE	03 - Concrete	CONCRETE	03 - Concrete	MEMBRANE TREATMENT REBAR F & I	TN	33	2200.00		1000.00		49.50	$ 3,535	$ 72,600	$ -	$ 33,000	$ -	$ 109,135
47	BE	03 - Concrete	CONCRETE	03 - Concrete	SITE CONCRETE: STOOPS & GEN PAD	LS	1	13808.00		819.00		251.00	$ 17,924	$ 13,808	$ -	$ 819	$ -	$ 32,551
48	BE	03 - Concrete	CONCRETE	03 - Concrete	SITE REBAR	TN	4	2200.00		1000.00		6.00	$ 428	$ 8,800	$ -	$ 4,000	$ -	$ 13,228
49	BE	03 - Concrete	CONCRETE	03 - Concrete	EQUIP EXCAVATOR PC351	MO	2		11000.00		3500.00		$ -	$ -	$ 22,000	$ -	$ 7,000	$ 29,000
50	BE	03 - Concrete	CONCRETE	03 - Concrete	FORMOWRK FREIGHT	EA	4			450.00		16.00	$ 1,143	$ -	$ -	$ 1,800	$ -	$ 2,943
51	BE	03 - Concrete	CONCRETE	03 - Concrete	EQUIP AIR COMPRESSOR 175 CFM	MO	3		935.00		150.00		$ -	$ -	$ 2,805	$ -	$ 450	$ 3,255
52	BE	03 - Concrete	CONCRETE	03 - Concrete	CONCRETE BUCKETS	MO	3		150.00				$ -	$ -	$ 450	$ -	$ -	$ 450
53	BE	03 - Concrete	CONCRETE	03 - Concrete	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	1		8200.00		3500.00		$ -	$ -	$ 8,200	$ -	$ 3,500	$ 11,700
54	BE	03 - Concrete	CONCRETE	03 - Concrete	GENERATORS HI CYCLE	MO	3		250.00				$ -	$ -	$ 750	$ -	$ -	$ 750
55	BE	03 - Concrete	CONCRETE	03 - Concrete	VIBRATORS	MO	3		450.00				$ -	$ -	$ 1,350	$ -	$ -	$ 1,350
56	BE	03 - Concrete	CONCRETE	03 - Concrete	FIELD ENGINEERING	MO	3	250.00				120.00	$ 8,569	$ 750	$ -	$ -	$ -	$ 9,319
57	BE	03 - Concrete	CONCRETE	03 - Concrete	LEVELS	MO	3		300.00				$ -	$ -	$ 900	$ -	$ -	$ 900
58	BE	03 - Concrete	CONCRETE	03 - Concrete	OXYGEN AND ACETYLENE	MO	3	150.00					$ -	$ 450	$ -	$ -	$ -	$ 450
59	BE	03 - Concrete	CONCRETE	03 - Concrete	WELDING MACHINE	MO	3	50.00	350.00				$ -	$ 150	$ 1,050	$ -	$ -	$ 1,200
60	BE	03 - Concrete	CONCRETE	03 - Concrete	EQUIP SKID LOADER TRACKED	MO	3		3500.00		1250.00		$ -	$ -	$ 10,500	$ -	$ 3,750	$ 14,250
61	BE												$ -	$ -	$ -	$ -	$ -	$ -
62	BE	03 - Concrete	ENCASE PROCESS	03 - Concrete	PIPE ENCASEMENT CONCRETE	CY	39	300.00				48.75	$ 3,481	$ 11,700	$ -	$ -	$ -	$ 15,181
63	BE	03 - Concrete	ENCASE PROCESS	03 - Concrete	PIPE ENCASEMENT FORMWORK	SF	1163	3.00				232.60	$ 16,610	$ 3,489	$ -	$ -	$ -	$ 20,099
64	BE	03 - Concrete	ENCASE PROCESS	03 - Concrete	PIPE ENCASEMENT SUPPORTS	EA	24	200.00				72.00	$ 5,141	$ 4,800	$ -	$ -	$ -	$ 9,941
65	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI PIPE RJ 8	LF	100	70.00				18.00	$ 1,285	$ 7,000	$ -	$ -	$ -	$ 8,285
66	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI MJ 90 8	EA	4	456.00				4.00	$ 286	$ 1,824	$ -	$ -	$ -	$ 2,110
67	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI MJ SOLID SLEEVE 8	EA	3	450.00				9.00	$ 643	$ 1,350	$ -	$ -	$ -	$ 1,993
68	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI PIPE FXPE 8 X 10' 0"	EA	3	1551.00				18.00	$ 1,285	$ 4,653	$ -	$ -	$ -	$ 5,938
69	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI MEGALUG W/ ACC 8	EA	14	577.00				14.00	$ 1,000	$ 8,078	$ -	$ -	$ -	$ 9,078
70	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI PIPE RJ 4	LF	100	72.00				12.00	$ 857	$ 7,200	$ -	$ -	$ -	$ 8,057
71	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI MJ 90 4	EA	5	189.00				5.00	$ 357	$ 945	$ -	$ -	$ -	$ 1,302
72	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI MJ SOLID SLEEVE 4	EA	3	168.00				9.00	$ 643	$ 504	$ -	$ -	$ -	$ 1,147
73	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI PIPE FXPE 4 X 10' 0"	EA	3	917.00				15.00	$ 1,071	$ 2,751	$ -	$ -	$ -	$ 3,822
74	BE	40 - Process Piping	ENCASE PROCESS	40 - Process Integration	DI MEGALUG W/ ACC 4	EA	16	263.00				16.00	$ 1,143	$ 4,208	$ -	$ -	$ -	$ 5,351

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
75	BE												$ -	$ -	$ -	$ -	$ -	$ -
76	BE	03 - Concrete	WEATHER PROTECTION	03 - Concrete	WINTER CONDITIONS W/ CONCRETE	MO	2.5	2000.00				240.00	$ 17,138	$ 5,000	$ -	$ -	$ -	$ 22,138
77	BE	03 - Concrete	WEATHER PROTECTION	03 - Concrete	EQUIP GROUND HEATER 500K BTU	MO	1		8000.00		3500.00		$ -	$ -	$ 8,000	$ -	$ 3,500	$ 11,500
78	BE												$ -	$ -	$ -	$ -	$ -	$ -
79	BE	04 - Masonry	MASONRY	04 - Masonry	SUB MASONRY SUBCONTRACTOR	LS	1						$ -	$ -	$ -	$ -	$ -	$ -
80	BE	04 - Masonry	MASONRY	04 - Masonry	CMU 8IN	SF	2958			45.00	1.35		$ -	$ -	$ -	$ 133,110	$ 3,993	$ 137,103
81	BE	04 - Masonry	MASONRY	04 - Masonry	MASONRY REINF STEEL	TN	3.88	2200.00				11.64	$ 831	$ 8,536	$ -	$ -	$ -	$ 9,367
82	BE	04 - Masonry	MASONRY	04 - Masonry	TEMP SHORE OPENING	EA	12	65.00				48.00	$ 3,428	$ 780	$ -	$ -	$ -	$ 4,208
83	BE	04 - Masonry	MASONRY	04 - Masonry	EQUIP FORCED AIR HEATER 400K BTU	MO	2	500.00	5000.00		5000.00	80.00	$ 5,713	$ 1,000	$ 10,000	$ -	$ 10,000	$ 26,713
84	BE												$ -	$ -	$ -	$ -	$ -	$ -
85	BE	05 - Metals	METALS	05 - Metals	ALUM 2 LINE RAIL W/ TOE	LF	70	65.00				70.00	$ 4,999	$ 4,550	$ -	$ -	$ -	$ 9,549
86	BE	05 - Metals	METALS	05 - Metals	ALUM LADDER 12FT H	EA	1	4500.00				8.00	$ 571	$ 4,500	$ -	$ -	$ -	$ 5,071
87	BE	05 - Metals	METALS	05 - Metals	BOLLARD 6 X 8FT	EA	15	750.00	350.00		85.00	120.00	$ 8,569	$ 11,250	$ 5,250	$ -	$ 1,275	$ 26,344
88	BE												$ -	$ -	$ -	$ -	$ -	$ -
89	BE	07 - Thermal and Moisture	INSU	07 - Thermal and Moisture Protection	RIGID POLY INSU 2IN	SF	2816	2.35				70.40	$ 5,027	$ 6,618	$ -	$ -	$ -	$ 11,645
90	BE	07 - Thermal and Moisture	INSU	07 - Thermal and Moisture Protection	FDN DAMPROOFING	SF	1496	1.90				37.40	$ 2,671	$ 2,842	$ -	$ -	$ -	$ 5,513
91	BE	07 - Thermal and Moisture	INSU	07 - Thermal and Moisture Protection	CEIL BATTS @ OPS, ELEC, MECH	SF	735	1.50				73.50	$ 5,249	$ 1,103	$ -	$ -	$ -	$ 6,351
92	BE	07 - Thermal and Moisture	CAULKING	07 - Thermal and Moisture Protection	SEALANT / SEAL @ MAS/PEMB	LF	100	8.00				15.00	$ 1,071	$ 800	$ -	$ -	$ -	$ 1,871
93	BE	07 - Thermal and Moisture	CAULKING	07 - Thermal and Moisture Protection	MISC CAULK OPENINGS & PENETRATIONS	LF	897	0.85				56.06	$ 4,003	$ 762	$ -	$ -	$ -	$ 4,766
94	BE	07 - Thermal and Moisture	CAULKING	07 - Thermal and Moisture Protection	MISC CAULK MAS CJS	LF	152	2.00				11.40	$ 814	$ 304	$ -	$ -	$ -	$ 1,118
95	BE												$ -	$ -	$ -	$ -	$ -	$ -
96	BE	08 - Openings	DOORS	08 - Openings	DOUBLE HM DOOR	EA	6	4250.00				144.00	$ 10,283	$ 25,500	$ -	$ -	$ -	$ 35,783
97	BE	08 - Openings	DOORS	08 - Openings	SINGLE HM DOOR	EA	8	3500.00				160.00	$ 11,426	$ 28,000	$ -	$ -	$ -	$ 39,426
98	BE	08 - Openings	DOORS	08 - Openings	OH DOOR EMO 14X12	EA	1			20000.00			$ -	$ -	$ -	$ 20,000	$ -	$ 20,000
99	BE	08 - Openings	DOORS	08 - Openings	WINDOWS ~4X4	EA	7			2250.00			$ -	$ -	$ -	$ 15,750	$ -	$ 15,750
100	BE												$ -	$ -	$ -	$ -	$ -	$ -
101	BE	09 - Finishes	FRAMING	09 - Finishes	METAL FRAME STUD WALL 12FT H	SF	936	1.50				60.84	$ 4,345	$ 1,404	$ -	$ -	$ -	$ 5,749
102	BE	09 - Finishes	FRAMING	09 - Finishes	METAL CEIL JOIST 12IN??	SF	765	3.75				76.50	$ 5,463	$ 2,869	$ -	$ -	$ -	$ 8,332
103	BE	09 - Finishes	FRAMING	09 - Finishes	PLYWOOD 3/4	SF	1612	1.75				80.60	$ 5,756	$ 2,821	$ -	$ -	$ -	$ 8,577
104	BE	09 - Finishes	DRYWALL	09 - Finishes	GYP BD HANG TAPE FINISH	SF	1251	5.00				281.48	$ 20,100	$ 6,255	$ -	$ -	$ -	$ 26,355
105	BE												$ -	$ -	$ -	$ -	$ -	$ -
106	BE	09 - Finishes	COATINGS	09 - Finishes	SUB COATINGS SUBCONTRACTOR	LS	1			75000.00	2250.00		$ -	$ -	$ -	$ 75,000	$ 2,250	$ 77,250
107	BE												$ -	$ -	$ -	$ -	$ -	$ -
108	BE	10 - Specialties	SPECIALTIES	10 - Specialties	FIRE EXTINGUISHER W/ BRACKET	EA	8	200.00				16.00	$ 1,143	$ 1,600	$ -	$ -	$ -	$ 2,743
109	BE	10 - Specialties	SPECIALTIES	10 - Specialties	MISC PROCESS ID / SIGNAGE	LS	1	1500.00				8.00	$ 571	$ 1,500	$ -	$ -	$ -	$ 2,071
110	BE												$ -	$ -	$ -	$ -	$ -	$ -
111	BE	13 - Special Construction	PEMB	13 - Special Construction	SUB PRE ENGNINEERED METAL BUILDING SUBCONTRACTOR	LS	1			792385.00	15847.70		$ -	$ -	$ -	$ 792,385	$ 15,848	$ 808,233

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												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
112	BE	13 - Special Construction	PEMB	13 - Special Construction	COLUMN ANCHORS	EA	64	50.00				64.00	$ 4,570	$ 3,200	$ -	$ -	$ -	$ 7,770
113	BE	13 - Special Construction	PEMB	13 - Special Construction	CF METAL FRAME WALL F/ WAINSCOT	SF	1046	1.50				104.60	$ 7,469	$ 1,569	$ -	$ -	$ -	$ 9,038
114	BE	13 - Special Construction	PEMB	13 - Special Construction	PLYWOOD 3/4 PT	SF	1046	2.25				52.30	$ 3,735	$ 2,354	$ -	$ -	$ -	$ 6,088
115	BE	13 - Special Construction	PEMB	13 - Special Construction	ROOFING FELT 30LB	SF	1046	0.25				10.46	$ 747	$ 262	$ -	$ -	$ -	$ 1,008
116	BE	13 - Special Construction	PEMB	13 - Special Construction	VERSETTA STONE STARTER STRIP	LF	300	4.00				15.00	$ 1,071	$ 1,200	$ -	$ -	$ -	$ 2,271
117	BE	13 - Special Construction	PEMB	13 - Special Construction	VERSETTA STONE SIDING	SF	1046	32.00				52.30	$ 3,735	$ 33,472	$ -	$ -	$ -	$ 37,207
118	BE												$ -	$ -	$ -	$ -	$ -	$ -
119	BE	22 - Plumbing	PLUMBING	22 - Plumbing	SUB PLUMBING SUBCONTRACTOR	LS	1			354200.00	3542.00		$ -	$ -	$ -	$ 354,200	$ 3,542	$ 357,742
120	BE	22 - Plumbing	PLUMBING	22 - Plumbing	FD-1 FLOOR DRAIN MATERIAL	LS	1			60480.00			$ -	$ -	$ -	$ 60,480	$ -	$ 60,480
121	BE												$ -	$ -	$ -	$ -	$ -	$ -
122	BE	23 - HVAC	HVAC	23 - Heating, Ventilating, and Air-Conditior	SUB HVAC SUBCONTRACTOR	LS	1			300000.00	6000.00		$ -	$ -	$ -	$ 300,000	$ 6,000	$ 306,000
123	BE												$ -	$ -	$ -	$ -	$ -	$ -
124	BE	26 - Electrical	ELECTRICAL	26 - Electrical	SUB ELECTRICAL SUBCONTRACTOR	LS	1			3057553.00	30575.53		$ -	$ -	$ -	$ 3,057,553	$ 30,576	$ 3,088,129
125	BE	26 - Electrical	ELECTRICAL	26 - Electrical	TRENCH AND BACKFILL ELEC DUCT BANK	LF	340					85.00	$ 6,070	$ -	$ -	$ -	$ -	$ 6,070
126	BE	26 - Electrical	ELECTRICAL	26 - Electrical	IMPORT BASE CLASS 6	CY	10	61.50				10.00	$ 714	$ 615	$ -	$ -	$ -	$ 1,329
127	BE	26 - Electrical	ELECTRICAL	26 - Electrical	DUCT BANK CONCRETE	CY	20	300.00				15.00	$ 1,071	$ 6,000	$ -	$ -	$ -	$ 7,071
128	BE	26 - Electrical	ELECTRICAL	26 - Electrical	DUCT BANK FORMWORK	SF	680	2.00				85.00	$ 6,070	$ 1,360	$ -	$ -	$ -	$ 7,430
129	BE	26 - Electrical	ELECTRICAL	26 - Electrical	DUCT BANK REBAR AND ACC	TN	2	2300.00				60.00	$ 4,285	$ 4,600	$ -	$ -	$ -	$ 8,885
130	BE	26 - Electrical	ELECTRICAL	26 - Electrical	EQUIP SKID LOADER TRACKED	MO	0.5		3500.00		1250.00		$ -	$ -	$ 1,750	$ -	$ 625	$ 2,375
131	BE	26 - Electrical	ELECTRICAL	26 - Electrical	EQUIP MINI-EXCAVATOR W/ BLADE	MO	0.75		3500.00		1000.00		$ -	$ -	$ 2,625	$ -	$ 750	$ 3,375
132	BE	26 - Electrical	ELECTRICAL	26 - Electrical	EQUIP COMPACTOR TRENCH 24	MO	0.5		2310.00		350.00		$ -	$ -	$ 1,155	$ -	$ 175	$ 1,330
133	BE	26 - Electrical	ELECTRICAL	26 - Electrical	EQUIP COMPACTOR JUMPIN JACK	MO	0.5		585.00		200.00		$ -	$ -	$ 293	$ -	$ 100	$ 393
134	BE	26 - Electrical	ELECTRICAL	26 - Electrical	EQUIP WATER TRUCK 2000GAL	MO	0.5		3370.00		1500.00		$ -	$ -	$ 1,685	$ -	$ 750	$ 2,435
135	BE	26 - Electrical	ELECTRICAL	26 - Electrical	STARTUP AND TRAINING	LS	1					16.00	$ 1,143	$ -	$ -	$ -	$ -	$ 1,143
136	BE												$ -	$ -	$ -	$ -	$ -	$ -
137	BE												$ -	$ -	$ -	$ -	$ -	$ -
138	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	EXCAVATE TO HAUL / STOCKPILE	LCY	8438					506.28	$ 36,153	$ -	$ -	$ -	$ -	$ 36,153
139	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	BLASTING F/ LARGE BOULDERS???	LS	1				25000.00		$ -	$ -	$ -	$ -	$ 25,000	$ 25,000
140	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	SAFETY FENCE & T POSTS	LF	250	2.00				12.50	$ 893	$ 500	$ -	$ -	$ -	$ 1,393
141	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	PRECOMPACT BASE OF FILLS	SY	2223					33.35	$ 2,381	$ -	$ -	$ -	$ -	$ 2,381
142	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	IMPORT DRAIN ROCK	CY	741	71.00				185.25	$ 13,229	$ 52,611	$ -	$ -	$ -	$ 65,840
143	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	EQUIP EXCAVATOR PC355	MO	1.15		11000.00		3500.00		$ -	$ -	$ 12,650	$ -	$ 4,025	$ 16,675
144	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	1.15		8200.00		3500.00		$ -	$ -	$ 9,430	$ -	$ 4,025	$ 13,455
145	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	EQUIP WATER TRUCK 2000GAL	MO	1.15		3370.00		750.00		$ -	$ -	$ 3,876	$ -	$ 863	$ 4,738
146	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	EQUIP SKID LOADER TRACKED	MO	1.15		3500.00		1250.00		$ -	$ -	$ 4,025	$ -	$ 1,438	$ 5,463
147	BE	31 - Earthwork	EXCAVATE	31 - Earthwork	EQUIP COMPACTOR ROLLER 66	MO	0.25		4645.00		1750.00		$ -	$ -	$ 1,161	$ -	$ 438	$ 1,599
148	BE												$ -	$ -	$ -	$ -	$ -	$ -

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
149	BE	31 - Earthwork	EXPORT	31 - Earthwork	LOAD TRUCKS	LCY	8438					109.69	$ 7,833	$ -	$ -	$ -	$ -	$ 7,833
150	BE	31 - Earthwork	EXPORT	31 - Earthwork	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	0.69		8200.00		3500.00		$ -	$ -	$ 5,658	$ -	$ 2,415	$ 8,073
151	BE	31 - Earthwork	EXPORT	31 - Earthwork	EQUIP HAUL TRUCK SEMI	TPS	563			125.00			$ -	$ -	$ -	$ 70,375	$ -	$ 70,375
152	BE	31 - Earthwork	EXPORT	31 - Earthwork	DISPOSAL FEES F/ SAND/COBBLES	CY	8438				5.00		$ -	$ -	$ -	$ -	$ 42,190	$ 42,190
153	BE												$ -	$ -	$ -	$ -	$ -	$ -
154	BE	31 - Earthwork	BACKFILL	31 - Earthwork	BACKFILL	CY	9435					1226.55	$ 87,587	$ -	$ -	$ -	$ -	$ 87,587
155	BE	31 - Earthwork	BACKFILL	31 - Earthwork	IMPORT STRUCTURAL FILL	CY	9435	40.00					$ -	$ 377,400	$ -	$ -	$ -	$ 377,400
156	BE	31 - Earthwork	BACKFILL	31 - Earthwork	EQUIP EXCAVATOR PC352	MO	1.5		11000.00		3500.00		$ -	$ -	$ 16,500	$ -	$ 5,250	$ 21,750
157	BE	31 - Earthwork	BACKFILL	31 - Earthwork	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	1.5		8200.00		3500.00		$ -	$ -	$ 12,300	$ -	$ 5,250	$ 17,550
158	BE	31 - Earthwork	BACKFILL	31 - Earthwork	EQUIP WATER TRUCK 2000GAL	MO	1.5		3370.00		1500.00		$ -	$ -	$ 5,055	$ -	$ 2,250	$ 7,305
159	BE	31 - Earthwork	BACKFILL	31 - Earthwork	EQUIP SKID LOADER TRACKED	MO	1.5		3500.00		1250.00		$ -	$ -	$ 5,250	$ -	$ 1,875	$ 7,125
160	BE	31 - Earthwork	BACKFILL	31 - Earthwork	EQUIP COMPACTOR ROLLER 66	MO	1.5		4645.00		1750.00		$ -	$ -	$ 6,968	$ -	$ 2,625	$ 9,593
161	BE	31 - Earthwork	BACKFILL	31 - Earthwork	EQUIP COMPACTOR TRENCH 24	MO	1.5		2310.00		350.00		$ -	$ -	$ 3,465	$ -	$ 525	$ 3,990
162	BE												$ -	$ -	$ -	$ -	$ -	$ -
163	BE	31 - Earthwork	GENERAL EARTHWORK	31 - Earthwork	EQUIPMENT DELIVERY / PICKUP	EA	16			250.00			$ -	$ -	$ -	$ 4,000	$ -	$ 4,000
164	BE	31 - Earthwork	GENERAL EARTHWORK	31 - Earthwork	EQUIPMENT DELIVERY / PICKUP (LOWBOY)	HRS	80			175.00			$ -	$ -	$ -	$ 14,000	$ -	$ 14,000
165	BE	31 - Earthwork	GENERAL EARTHWORK	31 - Earthwork									$ -	$ -	$ -	$ -	$ -	$ -
166	BE	31 - Earthwork	GENERAL EARTHWORK	31 - Earthwork	WINTER CONDITIONS W/ BACKFILL	MO	1	1000.00				96.00	$ 6,855	$ 1,000	$ -	$ -	$ -	$ 7,855
167	BE	31 - Earthwork	GENERAL EARTHWORK	31 - Earthwork	EQUIP GROUND HEATER 500K BTU	MO	1		8000.00		3500.00		$ -	$ -	$ 8,000	$ -	$ 3,500	$ 11,500
168	BE												$ -	$ -	$ -	$ -	$ -	$ -
169	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING DEVELOPMENT	LS	1					80.00	$ 5,713	$ -	$ -	$ -	$ -	$ 5,713
170	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING SUMPS	EA	6					72.00	$ 5,141	$ -	$ -	$ -	$ -	$ 5,141
171	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DRAINAGE TRENCHES	LF	600					48.00	$ 3,428	$ -	$ -	$ -	$ -	$ 3,428
172	BE	31 - Earthwork	DEWATERING	31 - Earthwork	FILTER FABRIC	SY	800	1.30				40.00	$ 2,856	$ 1,040	$ -	$ -	$ -	$ 3,896
173	BE	31 - Earthwork	DEWATERING	31 - Earthwork	IMPORT DRAIN ROCK	CY	115	71.00				18.40	$ 1,314	$ 8,165	$ -	$ -	$ -	$ 9,479
174	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING WELL PIPE SLOTTED	EA	2	400.00				16.00	$ 1,143	$ 800	$ -	$ -	$ -	$ 1,943
175	BE	31 - Earthwork	DEWATERING	31 - Earthwork	EQUIP EXCAVATOR PC353	MO	0.5		11000.00		3500.00		$ -	$ -	$ 5,500	$ -	$ 1,750	$ 7,250
176	BE	31 - Earthwork	DEWATERING	31 - Earthwork	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	0.5		8200.00		3500.00		$ -	$ -	$ 4,100	$ -	$ 1,750	$ 5,850
177	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING MAINTENANCE	MO	3					72.00	$ 5,141	$ -	$ -	$ -	$ -	$ 5,141
178	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING PUMPS & HOSES	MO	3		7000.00				$ -	$ -	$ 21,000	$ -	$ -	$ 21,000
179	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING DISCH PERMIT	LS	1				1500.00		$ -	$ -	$ -	$ -	$ 1,500	$ 1,500
180	BE	31 - Earthwork	DEWATERING	31 - Earthwork	MONITORING AND REPORTING	MO	3				100.00	12.00	$ 857	$ -	$ -	$ -	$ 300	$ 1,157
181	BE	31 - Earthwork	DEWATERING	31 - Earthwork	EQUIP GENERATOR 50KW (24/7)	MO	9		2090.00		2880.00		$ -	$ -	$ 18,810	$ -	$ 25,920	$ 44,730
182	BE	31 - Earthwork	DEWATERING	31 - Earthwork	EQUIP GENERATOR 50KW (STANDBY)	MO	3		2090.00				$ -	$ -	$ 6,270	$ -	$ -	$ 6,270
183	BE	31 - Earthwork	DEWATERING	31 - Earthwork	POWER MONITOR / TATTLE TALE	LS	1				3000.00		$ -	$ -	$ -	$ -	$ 3,000	$ 3,000
184	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING MISC	LS	1	500.00					$ -	$ 500	$ -	$ -	$ -	$ 500
185	BE	31 - Earthwork	DEWATERING	31 - Earthwork	DEWATERING CLARIFIER / SEDIMENT BAGS	LS	1	1500.00				16.00	$ 1,143	$ 1,500	$ -	$ -	$ -	$ 2,643

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
186	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC PIPE B&SP 6	LF	440	13.00				44.00	$ 3,142	$ 5,720	$ -	$ -	$ -	$ 8,862
187	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC 45 6	EA	6	40.00				4.50	$ 321	$ 240	$ -	$ -	$ -	$ 561
188	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC TEE 6	EA	7	62.00				5.25	$ 375	$ 434	$ -	$ -	$ -	$ 809
189	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC CAP 6	EA	2	19.00				1.50	$ 107	$ 38	$ -	$ -	$ -	$ 145
190	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC FLANGE VAN STONE 6	EA	2	44.00				1.50	$ 107	$ 88	$ -	$ -	$ -	$ 195
191	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC RED 6x3	EA	6	88.00				3.00	$ 214	$ 528	$ -	$ -	$ -	$ 742
192	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC PIPE 3	LF	140	7.00				42.00	$ 2,999	$ 980	$ -	$ -	$ -	$ 3,979
193	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC CPLG 3	EA	7	4.00				2.10	$ 150	$ 28	$ -	$ -	$ -	$ 178
194	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC 45 3	EA	16	9.00				4.80	$ 343	$ 144	$ -	$ -	$ -	$ 487
195	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC MALE ADAPTER 3	EA	6	6.00				1.80	$ 129	$ 36	$ -	$ -	$ -	$ 165
196	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC HOSE ADAPTER 3	EA	6	60.00				1.80	$ 129	$ 360	$ -	$ -	$ -	$ 489
197	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC FEMALE ADAPTER 3	EA	6	18.00				1.80	$ 129	$ 108	$ -	$ -	$ -	$ 237
198	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC BALL CHECK T 3	EA	6	521.00				3.00	$ 214	$ 3,126	$ -	$ -	$ -	$ 3,340
199	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC BV T 3	EA	6	360.00				1.80	$ 129	$ 2,160	$ -	$ -	$ -	$ 2,289
200	BE	31 - Earthwork	DEWATERING	31 - Earthwork	PVC CEMENT AND PRIMER	QT	4	80.00					$ -	$ 320	$ -	$ -	$ -	$ 320
201	BE												$ -	$ -	$ -	$ -	$ -	$ -
202	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	IMPORT GRAVEL BASE	CY	568	61.50				62.48	$ 4,462	$ 34,932	$ -	$ -	$ -	$ 39,394
203	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	PRECOMPACT BASE OF FILLS	SY	5166					51.66	$ 3,689	$ -	$ -	$ -	$ -	$ 3,689
204	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	FINE GRADE SITE	SY	5166					129.15	$ 9,223	$ -	$ -	$ -	$ -	$ 9,223
205	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	0.375		8200.00		3500.00		$ -	$ -	$ 3,075	$ -	$ 1,313	$ 4,388
206	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	EQUIP WATER TRUCK 2000GAL	MO	0.375		3370.00		1500.00		$ -	$ -	$ 1,264	$ -	$ 563	$ 1,826
207	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	EQUIP SKID LOADER TRACKED	MO	0.375		3500.00		1250.00		$ -	$ -	$ 1,313	$ -	$ 469	$ 1,781
208	BE	32 - Exterior Improvments	GRADE & BASE SITE	32 - Exterior Improvements	EQUIP COMPACTOR ROLLER 66 SMOOTH DRUM	MO	0.375		4480.00		1750.00		$ -	$ -	$ 1,680	$ -	$ 656	$ 2,336
209	BE												$ -	$ -	$ -	$ -	$ -	$ -
210	BE	31 - Earthwork	EROSION CONTROL	31 - Earthwork	SWMPP PERMIT FEES	LS	1				1250.00	18.00	$ 1,285	$ -	$ -	$ -	$ 1,250	$ 2,535
211	BE	31 - Earthwork	EROSION CONTROL	31 - Earthwork	BMP MAINTENANCE	MO	6	100.00				120.00	$ 8,569	$ 600	$ -	$ -	$ -	$ 9,169
212	BE	31 - Earthwork	EROSION CONTROL	31 - Earthwork	IP INLET PROTECTION	EA	6	100.00				12.00	$ 857	$ 600	$ -	$ -	$ -	$ 1,457
213	BE	31 - Earthwork	EROSION CONTROL	31 - Earthwork	SF SILT FENCE	LF	1200	0.40				60.00	$ 4,285	$ 480	$ -	$ -	$ -	$ 4,765
214	BE	31 - Earthwork	EROSION CONTROL	31 - Earthwork	EQUIP MINI EX	MO	0.25		3500.00		1000.00		$ -	$ -	$ 875	$ -	$ 250	$ 1,125
215	BE	31 - Earthwork	EROSION CONTROL	31 - Earthwork	CWA CONCRETE WASHOUT	LS	1	250.00				8.00	$ 571	$ 250	$ -	$ -	$ -	$ 821
216	BE												$ -	$ -	$ -	$ -	$ -	$ -
217	BE												$ -	$ -	$ -	$ -	$ -	$ -
218	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	EQUIP EXCAVATOR PC354	MO	2.5		11000.00		3500.00		$ -	$ -	$ 27,500	$ -	$ 8,750	$ 36,250
219	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	EQUIP WHEEL LOADER 4.5 CY W/ FORKS	MO	2.5		8200.00		3500.00		$ -	$ -	$ 20,500	$ -	$ 8,750	$ 29,250
220	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	EQUIP WATER TRUCK 2000GAL	MO	2.5		3370.00		1500.00		$ -	$ -	$ 8,425	$ -	$ 3,750	$ 12,175
221	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	EQUIP COMPACTOR JUMPIN JACK	MO	2.5		585.00		200.00		$ -	$ -	$ 1,463	$ -	$ 500	$ 1,963
222	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	EQUIP COMPACTOR TRENCH 24	MO	2.5		2310.00		350.00		$ -	$ -	$ 5,775	$ -	$ 875	$ 6,650

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
223	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	PRESSURE TEST PIPING	EA	12	65.00				72.00	$ 5,141	$ 780	$ -	$ -	$ -	$ 5,921
224	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	FLUSH AND DISINFECT	EA	6	50.00				24.00	$ 1,714	$ 300	$ -	$ -	$ -	$ 2,014
225	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	EQUIP FUSION MACHINE	MO	1		1200.00		500.00		$ -	$ -	$ 1,200	$ -	$ 500	$ 1,700
226	BE	33 - Utilites	GENERAL YARD PIPE	33 - Utilities	PVC CEMEENT AND PRIMER	QT	3	82.00					$ -	$ 246	$ -	$ -	$ -	$ 246
227	BE												$ -	$ -	$ -	$ -	$ -	$ -
228	BE	33 - Utilites	PRECAST DRAIN/ MH	33 - Utilities	PRECAST MH 48IN	VF	8	700.00				16.00	$ 1,143	$ 5,600	$ -	$ -	$ -	$ 6,743
229	BE	33 - Utilites	PRECAST DRAIN/ MH	33 - Utilities	PRECAST MH RING AND COVER 24	EA	1	300.00				2.00	$ 143	$ 300	$ -	$ -	$ -	$ 443
230	BE	33 - Utilites	PRECAST DRAIN/ MH	33 - Utilities	IMPORT BASE CLASS 6	CY	9	60.00				2.25	$ 161	$ 540	$ -	$ -	$ -	$ 701
231	BE	33 - Utilites	PRECAST DRAIN/ MH	33 - Utilities	PRECAST MH RAMNEK	LF	60	3.00				3.00	$ 214	$ 180	$ -	$ -	$ -	$ 394
232	BE												$ -	$ -	$ -	$ -	$ -	$ -
233	BE	33 - Utilites	6IN SS	33 - Utilities	CI PIPE B&SP 6	LF	50	57.00				7.50	$ 536	$ 2,850	$ -	$ -	$ -	$ 3,386
234	BE	33 - Utilites	6IN SS	33 - Utilities	CI HUBBED 1/8 BEND 6	EA	1	83.00				1.00	$ 71	$ 83	$ -	$ -	$ -	$ 154
235	BE	33 - Utilites	6IN SS	33 - Utilities	CI HUBBED 1/16 BEND 6	EA	1	73.00				1.00	$ 71	$ 73	$ -	$ -	$ -	$ 144
236	BE	33 - Utilites	6IN SS	33 - Utilities	FERNCO CPLG 6	EA	2	35.00				1.50	$ 107	$ 70	$ -	$ -	$ -	$ 177
237	BE	33 - Utilites	6IN SS	33 - Utilities	GROUT PIPE IN MH	EA	1	15.00				1.00	$ 71	$ 15	$ -	$ -	$ -	$ 86
238	BE	33 - Utilites	6IN SS	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	50					11.00	$ 786	$ -	$ -	$ -	$ -	$ 786
239	BE	33 - Utilites	6IN SS	33 - Utilities	IMPORT PIPE BEDDING	CY	17	40.00					$ -	$ 680	$ -	$ -	$ -	$ 680
240	BE	33 - Utilites	6IN SS	33 - Utilities	PIPE WRAP 4 - 12IN	LF	50	2.50				1.25	$ 89	$ 125	$ -	$ -	$ -	$ 214
241	BE	33 - Utilites	6IN SS	33 - Utilities	TRACER WIRE	LF	50	1.50				1.25	$ 89	$ 75	$ -	$ -	$ -	$ 164
242	BE	33 - Utilites	6IN SS	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200
243	BE	33 - Utilites	6IN SS	33 - Utilities	UG DET WARNING TAPE	LF	50	0.10				1.50	$ 107	$ 5	$ -	$ -	$ -	$ 112
244	BE												$ -	$ -	$ -	$ -	$ -	$ -
245	BE	33 - Utilites	8IN RW	33 - Utilities	DI PIPE RJ 8	LF	220	70.00				39.60	$ 2,828	$ 15,400	$ -	$ -	$ -	$ 18,228
246	BE	33 - Utilites	8IN RW	33 - Utilities	DI PIPE RJ 12	EA	20	109.00				4.40	$ 314	$ 2,180	$ -	$ -	$ -	$ 2,494
247	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ SOLID SLEEVE 8	EA	2	450.00				6.00	$ 428	$ 900	$ -	$ -	$ -	$ 1,328
248	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ 90 8	EA	1	456.00				1.00	$ 71	$ 456	$ -	$ -	$ -	$ 527
249	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ 45 8	EA	2	365.00				2.00	$ 143	$ 730	$ -	$ -	$ -	$ 873
250	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ WYE 12	EA	1	2326.00				3.50	$ 250	$ 2,326	$ -	$ -	$ -	$ 2,576
251	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ SOLID SLEEVE 12	EA	2	225.00				8.00	$ 571	$ 450	$ -	$ -	$ -	$ 1,021
252	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ CAP 12	EA							$ -	$ -	$ -	$ -	$ -	$ -
253	BE	33 - Utilites	8IN RW	33 - Utilities	DI MJ RED 12 X 8	EA	1	450.00				1.50	$ 107	$ 450	$ -	$ -	$ -	$ 557
254	BE	33 - Utilites	8IN RW	33 - Utilities	DI MEGALUG W/ ACC 8	EA	9	577.00				9.00	$ 643	$ 5,193	$ -	$ -	$ -	$ 5,836
255	BE	33 - Utilites	8IN RW	33 - Utilities	DI MEGALUG W/ ACC 12	EA	8	1031.00				8.00	$ 571	$ 8,248	$ -	$ -	$ -	$ 8,819
256	BE	33 - Utilites	8IN RW	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
257	BE	33 - Utilites	8IN RW	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
258	BE	33 - Utilites	8IN RW	33 - Utilities	CROSS EXISTING	EA	2					6.00	$ 428	$ -	$ -	$ -	$ -	$ 428
259	BE	33 - Utilites	8IN RW	33 - Utilities	SUPPORT EXISTING	EA	2	75.00				6.00	$ 428	$ 150	$ -	$ -	$ -	$ 578

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
260	BE	33 - Utilites	8IN RW	33 - Utilities	VALVE MJ GATE 12	EA	1	5095.00				4.00	$ 286	$ 5,095	$ -	$ -	$ -	$ 5,381
261	BE	33 - Utilites	8IN RW	33 - Utilities	VALVE BOX COMPLETE 7FT BURY	EA	1	322.00				4.00	$ 286	$ 322	$ -	$ -	$ -	$ 608
262	BE	33 - Utilites	8IN RW	33 - Utilities	VALVE STEM EXENSION	EA	1	445.00				1.00	$ 71	$ 445	$ -	$ -	$ -	$ 516
263	BE	33 - Utilites	8IN RW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	152					33.44	$ 2,388	$ -	$ -	$ -	$ -	$ 2,388
264	BE	33 - Utilites	8IN RW	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	60					16.80	$ 1,200	$ -	$ -	$ -	$ -	$ 1,200
265	BE	33 - Utilites	8IN RW	33 - Utilities	IMPORT PIPE BEDDING	CY	75	40.00					$ -	$ 3,000	$ -	$ -	$ -	$ 3,000
266	BE	33 - Utilites	8IN RW	33 - Utilities	PIPE WRAP 4 - 12IN	LF	212	2.50				5.30	$ 378	$ 530	$ -	$ -	$ -	$ 908
267	BE	33 - Utilites	8IN RW	33 - Utilities	TRACER WIRE	LF	212	1.50				5.30	$ 378	$ 318	$ -	$ -	$ -	$ 696
268	BE	33 - Utilites	8IN RW	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200
269	BE	33 - Utilites	8IN RW	33 - Utilities	UG DET WARNING TAPE	LF	212	0.10				6.36	$ 454	$ 21	$ -	$ -	$ -	$ 475
270	BE												$ -	$ -	$ -	$ -	$ -	$ -
271	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	HDPE PIPE 3IN	LF	120	7.50				9.60	$ 686	$ 900	$ -	$ -	$ -	$ 1,586
272	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	HEAT FUSION BUTT JOINTS	EA	10					10.00	$ 714	$ -	$ -	$ -	$ -	$ 714
273	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	HDPE 45 BEND 3"	EA	1	17.00				1.00	$ 71	$ 17	$ -	$ -	$ -	$ 88
274	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	HDPE 22.5 BEND 3	EA	1	43.00				1.00	$ 71	$ 43	$ -	$ -	$ -	$ 114
275	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	HDPE 11.25 BEND 3	EA	1	64.00				1.00	$ 71	$ 64	$ -	$ -	$ -	$ 135
276	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	HDPE X CI ADAPTER 3	EA	1	51.00				1.00	$ 71	$ 51	$ -	$ -	$ -	$ 122
277	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	DI MJ CAP 3	EA	1	69.00				0.50	$ 36	$ 69	$ -	$ -	$ -	$ 105
278	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	DI MEGALUG W/ ACC 3	EA	1	87.00				0.50	$ 36	$ 87	$ -	$ -	$ -	$ 123
279	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
280	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
281	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	CROSS EXISTING	EA	1					3.00	$ 214	$ -	$ -	$ -	$ -	$ 214
282	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	SUPPORT EXISTING	EA	1	75.00				3.00	$ 214	$ 75	$ -	$ -	$ -	$ 289
283	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	70					15.40	$ 1,100	$ -	$ -	$ -	$ -	$ 1,100
284	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	43					12.04	$ 860	$ -	$ -	$ -	$ -	$ 860
285	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	IMPORT PIPE BEDDING	CY	30	40.00					$ -	$ 1,200	$ -	$ -	$ -	$ 1,200
286	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	TRACER WIRE	LF	113	1.50				2.83	$ 202	$ 170	$ -	$ -	$ -	$ 371
287	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200
288	BE	33 - Utilites	3IN WELL 3 RW	33 - Utilities	UG DET WARNING TAPE	LF	113	0.10				3.39	$ 242	$ 11	$ -	$ -	$ -	$ 253
289	BE												$ -	$ -	$ -	$ -	$ -	$ -
290	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	HDPE PIPE 3IN	LF	400	7.50				32.00	$ 2,285	$ 3,000	$ -	$ -	$ -	$ 5,285
291	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	HEAT FUSION BUTT JOINTS	EA	10					10.00	$ 714	$ -	$ -	$ -	$ -	$ 714
292	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	HDPE 90 BEND 3"	EA	2	20.00				2.00	$ 143	$ 40	$ -	$ -	$ -	$ 183
293	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	HDPE 45 BEND 3"	EA	4	17.00				4.00	$ 286	$ 68	$ -	$ -	$ -	$ 354
294	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	HDPE 22.5 BEND 3	EA	2	43.00				2.00	$ 143	$ 86	$ -	$ -	$ -	$ 229
295	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	HDPE X CI ADAPTER 3	EA	1	51.00				1.00	$ 71	$ 51	$ -	$ -	$ -	$ 122
296	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	DI MJ 90 4	EA	1	189.00				1.00	$ 71	$ 189	$ -	$ -	$ -	$ 260

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
297	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	DI MJ SOLID SLEEVE 4	EA	1	168.00				3.00	$ 214	$ 168	$ -	$ -	$ -	$ 382
298	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	DI MEGALUG W/ ACC 4	EA	5	263.00				5.00	$ 357	$ 1,315	$ -	$ -	$ -	$ 1,672
299	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	DI MJ RED 4 X 3	EA	1	163.00				0.75	$ 54	$ 163	$ -	$ -	$ -	$ 217
300	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	DI MEGALUG W/ ACC 3	EA	2	87.00				1.00	$ 71	$ 174	$ -	$ -	$ -	$ 245
301	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
302	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
303	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	CROSS EXISTING	EA	6					18.00	$ 1,285	$ -	$ -	$ -	$ -	$ 1,285
304	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	SUPPORT EXISTING	EA	6	75.00				18.00	$ 1,285	$ 450	$ -	$ -	$ -	$ 1,735
305	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	50					11.00	$ 786	$ -	$ -	$ -	$ -	$ 786
306	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	316					88.48	$ 6,318	$ -	$ -	$ -	$ -	$ 6,318
307	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	IMPORT PIPE BEDDING	CY	85	40.00					$ -	$ 3,400	$ -	$ -	$ -	$ 3,400
308	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	TRACER WIRE	LF	366	1.50				9.15	$ 653	$ 549	$ -	$ -	$ -	$ 1,202
309	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200
310	BE	33 - Utilites	3IN WELL 4 RW	33 - Utilities	UG DET WARNING TAPE	LF	366	0.10				10.98	$ 784	$ 37	$ -	$ -	$ -	$ 821
311	BE												$ -	$ -	$ -	$ -	$ -	$ -
312	BE	33 - Utilites	3IN RCY	33 - Utilities	HDPE PIPE 3IN	LF	160	7.50				12.80	$ 914	$ 1,200	$ -	$ -	$ -	$ 2,114
313	BE	33 - Utilites	3IN RCY	33 - Utilities	HEAT FUSION BUTT JOINTS	EA	12					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
314	BE	33 - Utilites	3IN RCY	33 - Utilities	HDPE 90 BEND 3"	EA	3	20.00				3.00	$ 214	$ 60	$ -	$ -	$ -	$ 274
315	BE	33 - Utilites	3IN RCY	33 - Utilities	HDPE 45 BEND 3"	EA	4	17.00				4.00	$ 286	$ 68	$ -	$ -	$ -	$ 354
316	BE	33 - Utilites	3IN RCY	33 - Utilities	HDPE X CI ADAPTER 3	EA	2	51.00				2.00	$ 143	$ 102	$ -	$ -	$ -	$ 245
317	BE	33 - Utilites	3IN RCY	33 - Utilities	DI MJ RED 6 X 3	EA	1	213.00				0.75	$ 54	$ 213	$ -	$ -	$ -	$ 267
318	BE	33 - Utilites	3IN RCY	33 - Utilities	DI MEGALUG W/ ACC 6	EA	3	369.00				3.00	$ 214	$ 1,107	$ -	$ -	$ -	$ 1,321
319	BE	33 - Utilites	3IN RCY	33 - Utilities	DI MEGALUG W/ ACC 3	EA	2	87.00				1.00	$ 71	$ 174	$ -	$ -	$ -	$ 245
320	BE	33 - Utilites	3IN RCY	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
321	BE	33 - Utilites	3IN RCY	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
322	BE	33 - Utilites	3IN RCY	33 - Utilities	CROSS EXISTING	EA	3					9.00	$ 643	$ -	$ -	$ -	$ -	$ 643
323	BE	33 - Utilites	3IN RCY	33 - Utilities	SUPPORT EXISTING	EA	3	75.00				9.00	$ 643	$ 225	$ -	$ -	$ -	$ 868
324	BE	33 - Utilites	3IN RCY	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	75					16.50	$ 1,178	$ -	$ -	$ -	$ -	$ 1,178
325	BE	33 - Utilites	3IN RCY	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	50					14.00	$ 1,000	$ -	$ -	$ -	$ -	$ 1,000
326	BE	33 - Utilites	3IN RCY	33 - Utilities	IMPORT PIPE BEDDING	CY	28	40.00					$ -	$ 1,120	$ -	$ -	$ -	$ 1,120
327	BE	33 - Utilites	3IN RCY	33 - Utilities	TRACER WIRE	LF	125	1.50				3.13	$ 223	$ 188	$ -	$ -	$ -	$ 411
328	BE	33 - Utilites	3IN RCY	33 - Utilities	TRACER WIRE RISER BOX	EA	2	93.00				3.00	$ 214	$ 186	$ -	$ -	$ -	$ 400
329	BE	33 - Utilites	3IN RCY	33 - Utilities	UG DET WARNING TAPE	LF	125	0.10				3.75	$ 268	$ 13	$ -	$ -	$ -	$ 280
330	BE												$ -	$ -	$ -	$ -	$ -	$ -
331	BE	33 - Utilites	2IN PW	33 - Utilities	CTS PE PIPE 2	LF	160	4.40				12.80	$ 914	$ 704	$ -	$ -	$ -	$ 1,618
332	BE	33 - Utilites	2IN PW	33 - Utilities	CTS COMPRESSION CPLG 2	EA	1	180.00				1.00	$ 71	$ 180	$ -	$ -	$ -	$ 251
333	BE	33 - Utilites	2IN PW	33 - Utilities	CTS COMPRESSION 90 BEND 2	EA	1	508.00				1.00	$ 71	$ 508	$ -	$ -	$ -	$ 579

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
334	BE	33 - Utilites	2IN PW	33 - Utilities	CTS COMPRESSION MPT ADPTR 2	EA	1	348.00				1.00	$ 71	$ 348	$ -	$ -	$ -	$ 419
335	BE	33 - Utilites	2IN PW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	138					30.36	$ 2,168	$ -	$ -	$ -	$ -	$ 2,168
336	BE	33 - Utilites	2IN PW	33 - Utilities	IMPORT PIPE BEDDING	CY	31	40.00					$ -	$ 1,240	$ -	$ -	$ -	$ 1,240
337	BE	33 - Utilites	2IN PW	33 - Utilities	TRACER WIRE	LF	138	1.50				3.45	$ 246	$ 207	$ -	$ -	$ -	$ 453
338	BE	33 - Utilites	2IN PW	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200
339	BE	33 - Utilites	2IN PW	33 - Utilities	UG DET WARNING TAPE	LF	138	0.10				4.14	$ 296	$ 14	$ -	$ -	$ -	$ 309
340	BE												$ -	$ -	$ -	$ -	$ -	$ -
341	BE	33 - Utilites	8IN FW	33 - Utilities	DI PIPE RJ 8	LF	300	70.00				54.00	$ 3,856	$ 21,000	$ -	$ -	$ -	$ 24,856
342	BE	33 - Utilites	8IN FW	33 - Utilities	DI PIPE RJ 12	LF	20	109.00				4.40	$ 314	$ 2,180	$ -	$ -	$ -	$ 2,494
343	BE	33 - Utilites	8IN FW	33 - Utilities	DI MJ SOLID SLEEVE 8	EA	2	450.00				6.00	$ 428	$ 900	$ -	$ -	$ -	$ 1,328
344	BE	33 - Utilites	8IN FW	33 - Utilities	DI MJ 90 8	EA	1	456.00				1.00	$ 71	$ 456	$ -	$ -	$ -	$ 527
345	BE	33 - Utilites	8IN FW	33 - Utilities	DI MJ 45 8	EA	6	365.00				6.00	$ 428	$ 2,190	$ -	$ -	$ -	$ 2,618
346	BE	33 - Utilites	8IN FW	33 - Utilities	DI MJ TEE 12 X 8	EA	1	1030.00				2.50	$ 179	$ 1,030	$ -	$ -	$ -	$ 1,209
347	BE	33 - Utilites	8IN FW	33 - Utilities	DI MJ SOLID SLEEVE 12	EA	2	225.00				8.00	$ 571	$ 450	$ -	$ -	$ -	$ 1,021
348	BE	33 - Utilites	8IN FW	33 - Utilities	DI MEGALUG W/ ACC 8	EA	20	577.00				20.00	$ 1,428	$ 11,540	$ -	$ -	$ -	$ 12,968
349	BE	33 - Utilites	8IN FW	33 - Utilities	DI MEGALUG W/ ACC 12	EA	7	1031.00				7.00	$ 500	$ 7,217	$ -	$ -	$ -	$ 7,717
350	BE	33 - Utilites	8IN FW	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
351	BE	33 - Utilites	8IN FW	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
352	BE	33 - Utilites	8IN FW	33 - Utilities	CROSS EXISTING	EA	5					15.00	$ 1,071	$ -	$ -	$ -	$ -	$ 1,071
353	BE	33 - Utilites	8IN FW	33 - Utilities	SUPPORT EXISTING	EA	5	75.00				15.00	$ 1,071	$ 375	$ -	$ -	$ -	$ 1,446
354	BE	33 - Utilites	8IN FW	33 - Utilities	VALVE MJ GATE 8	EA	1	2583.00				3.00	$ 214	$ 2,583	$ -	$ -	$ -	$ 2,797
355	BE	33 - Utilites	8IN FW	33 - Utilities	VALVE BOX COMPLETE 7FT BURY	EA	1	322.00				4.00	$ 286	$ 322	$ -	$ -	$ -	$ 608
356	BE	33 - Utilites	8IN FW	33 - Utilities	VALVE STEM EXENSION	EA	1	445.00				1.00	$ 71	$ 445	$ -	$ -	$ -	$ 516
357	BE	33 - Utilites	8IN FW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	82					18.04	$ 1,288	$ -	$ -	$ -	$ -	$ 1,288
358	BE	33 - Utilites	8IN FW	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	200					56.00	$ 3,999	$ -	$ -	$ -	$ -	$ 3,999
359	BE	33 - Utilites	8IN FW	33 - Utilities	IMPORT PIPE BEDDING	CY	100	40.00					$ -	$ 4,000	$ -	$ -	$ -	$ 4,000
360	BE	33 - Utilites	8IN FW	33 - Utilities	PIPE WRAP 4 - 12IN	LF	282	2.50				7.05	$ 503	$ 705	$ -	$ -	$ -	$ 1,208
361	BE	33 - Utilites	8IN FW	33 - Utilities	TRACER WIRE	LF	282	1.50				7.05	$ 503	$ 423	$ -	$ -	$ -	$ 926
362	BE	33 - Utilites	8IN FW	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200
363	BE	33 - Utilites	8IN FW	33 - Utilities	UG DET WARNING TAPE	LF	282	0.10				8.46	$ 604	$ 28	$ -	$ -	$ -	$ 632
364	BE												$ -	$ -	$ -	$ -	$ -	$ -
365	BE	33 - Utilites	8IN BWW	33 - Utilities	DI PIPE RJ 8	LF	100	70.00				18.00	$ 1,285	$ 7,000	$ -	$ -	$ -	$ 8,285
366	BE	33 - Utilites	8IN BWW	33 - Utilities	DI MJ SOLID SLEEVE 8	EA	2	450.00				6.00	$ 428	$ 900	$ -	$ -	$ -	$ 1,328
367	BE	33 - Utilites	8IN BWW	33 - Utilities	DI MJ 90 8	EA	1	456.00				1.00	$ 71	$ 456	$ -	$ -	$ -	$ 527
368	BE	33 - Utilites	8IN BWW	33 - Utilities	DI MJ 45 8	EA	2	365.00				2.00	$ 143	$ 730	$ -	$ -	$ -	$ 873
369	BE	33 - Utilites	8IN BWW	33 - Utilities	DI MEGALUG W/ ACC 6	EA	10	369.00				10.00	$ 714	$ 3,690	$ -	$ -	$ -	$ 4,404
370	BE	33 - Utilites	8IN BWW	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
371	BE	33 - Utilites	8IN BWW	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
372	BE	33 - Utilites	8IN BWW	33 - Utilities	CROSS EXISTING	EA	3					9.00	$ 643	$ -	$ -	$ -	$ -	$ 643
373	BE	33 - Utilites	8IN BWW	33 - Utilities	SUPPORT EXISTING	EA	3	75.00				9.00	$ 643	$ 225	$ -	$ -	$ -	$ 868
374	BE	33 - Utilites	8IN BWW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	42					9.24	$ 660	$ -	$ -	$ -	$ -	$ 660
375	BE	33 - Utilites	8IN BWW	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	50					14.00	$ 1,000	$ -	$ -	$ -	$ -	$ 1,000
376	BE	33 - Utilites	8IN BWW	33 - Utilities	IMPORT PIPE BEDDING	CY	31	40.00					$ -	$ 1,240	$ -	$ -	$ -	$ 1,240
377	BE	33 - Utilites	8IN BWW	33 - Utilities	PIPE WRAP 4 - 12IN	LF	92	2.50				2.30	$ 164	$ 230	$ -	$ -	$ -	$ 394
378	BE	33 - Utilites	8IN BWW	33 - Utilities	TRACER WIRE	LF	92	1.50				2.30	$ 164	$ 138	$ -	$ -	$ -	$ 302
379	BE	33 - Utilites	8IN BWW	33 - Utilities	TRACER WIRE RISER BOX	EA	2	93.00				3.00	$ 214	$ 186	$ -	$ -	$ -	$ 400
380	BE	33 - Utilites	8IN BWW	33 - Utilities	UG DET WARNING TAPE	LF	92	0.10				2.76	$ 197	$ 9	$ -	$ -	$ -	$ 206
381	BE												$ -	$ -	$ -	$ -	$ -	$ -
382	BE	33 - Utilites	6IN PW	33 - Utilities	DI PIPE RJ 8	LF	20	70.00				3.60	$ 257	$ 1,400	$ -	$ -	$ -	$ 1,657
383	BE	33 - Utilites	6IN PW	33 - Utilities	DI PIPE RJ 6	LF	140	54.00				21.00	$ 1,500	$ 7,560	$ -	$ -	$ -	$ 9,060
384	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ SOLID SLEEVE 6	EA	1	280.00				3.00	$ 214	$ 280	$ -	$ -	$ -	$ 494
385	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ 90 8	EA	1	456.00				1.00	$ 71	$ 456	$ -	$ -	$ -	$ 527
386	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ 45 6	EA	2	250.00				2.00	$ 143	$ 500	$ -	$ -	$ -	$ 643
387	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ CAP 8	EA	1	206.00				0.75	$ 54	$ 206	$ -	$ -	$ -	$ 260
388	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ RED 8 X 6	EA	1	262.00				1.00	$ 71	$ 262	$ -	$ -	$ -	$ 333
389	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ PLUG 6 TAPT 2IN	EA	1	202.00				0.75	$ 54	$ 202	$ -	$ -	$ -	$ 256
390	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ TEE 6	EA	1	443.00				1.50	$ 107	$ 443	$ -	$ -	$ -	$ 550
391	BE	33 - Utilites	6IN PW	33 - Utilities	DI MEGALUG W/ ACC 8	EA	4	577.00				4.00	$ 286	$ 2,308	$ -	$ -	$ -	$ 2,594
392	BE	33 - Utilites	6IN PW	33 - Utilities	DI MEGALUG W/ ACC 6	EA	11	369.00				11.00	$ 786	$ 4,059	$ -	$ -	$ -	$ 4,845
393	BE	33 - Utilites	6IN PW	33 - Utilities	DI MJ ACC KIT 6	EA	1	65.00				0.75	$ 54	$ 65	$ -	$ -	$ -	$ 119
394	BE	33 - Utilites	6IN PW	33 - Utilities	TIE TO EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
395	BE	33 - Utilites	6IN PW	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
396	BE	33 - Utilites	6IN PW	33 - Utilities	CROSS EXISTING	EA	2					6.00	$ 428	$ -	$ -	$ -	$ -	$ 428
397	BE	33 - Utilites	6IN PW	33 - Utilities	SUPPORT EXISTING	EA	2	75.00				6.00	$ 428	$ 150	$ -	$ -	$ -	$ 578
398	BE	33 - Utilites	6IN PW	33 - Utilities	FIRE HYDRANT 6IN X 7FT	EA	1	6429.00				4.00	$ 286	$ 6,429	$ -	$ -	$ -	$ 6,715
399	BE	33 - Utilites	6IN PW	33 - Utilities	VALVE MJ GATE 8	EA	1	2583.00				3.00	$ 214	$ 2,583	$ -	$ -	$ -	$ 2,797
400	BE	33 - Utilites	6IN PW	33 - Utilities	VALVE BOX COMPLETE 7FT BURY	EA	1	322.00				4.00	$ 286	$ 322	$ -	$ -	$ -	$ 608
401	BE	33 - Utilites	6IN PW	33 - Utilities	VALVE STEM EXENSION	EA	1	445.00				1.00	$ 71	$ 445	$ -	$ -	$ -	$ 516
402	BE	33 - Utilites	6IN PW	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	40					8.80	$ 628	$ -	$ -	$ -	$ -	$ 628
403	BE	33 - Utilites	6IN PW	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	100					28.00	$ 1,999	$ -	$ -	$ -	$ -	$ 1,999
404	BE	33 - Utilites	6IN PW	33 - Utilities	IMPORT PIPE BEDDING	CY	52	40.00					$ -	$ 2,080	$ -	$ -	$ -	$ 2,080
405	BE	33 - Utilites	6IN PW	33 - Utilities	PIPE WRAP 4 - 12IN	LF	140	2.50				3.50	$ 250	$ 350	$ -	$ -	$ -	$ 600
406	BE	33 - Utilites	6IN PW	33 - Utilities	TRACER WIRE	LF	140	1.50				3.50	$ 250	$ 210	$ -	$ -	$ -	$ 460
407	BE	33 - Utilites	6IN PW	33 - Utilities	TRACER WIRE RISER BOX	EA	1	93.00				1.50	$ 107	$ 93	$ -	$ -	$ -	$ 200

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
408	BE	33 - Utilites	6IN PW	33 - Utilities	UG DET WARNING TAPE	LF	140	0.10				4.20	$ 300	$ 14	$ -	$ -	$ -	$ 314
409	BE												$ -	$ -	$ -	$ -	$ -	$ -
410	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PRECAST MH 48IN	VF	8	700.00				16.00	$ 1,143	$ 5,600	$ -	$ -	$ -	$ 6,743
411	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PRECAST MH RING AND COVER 24	EA	1	300.00				2.00	$ 143	$ 300	$ -	$ -	$ -	$ 443
412	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	IMPORT BASE CLASS 6	CY	9	60.00				2.25	$ 161	$ 540	$ -	$ -	$ -	$ 701
413	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PRECAST MH RAMNEK	LF	60	3.00				3.00	$ 214	$ 180	$ -	$ -	$ -	$ 394
414	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	CONC MH BASE	LS	1	1500.00				16.00	$ 1,143	$ 1,500	$ -	$ -	$ -	$ 2,643
415	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	TAPPING SERVICE 1IN ON 12IN DIP WITH CORP	EA	1	250.00			2000.00	4.00	$ 286	$ 250	$ -	$ -	$ 2,000	$ 2,536
416	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	BRONZE BV THD 1	EA	1	60.00				0.25	$ 18	$ 60	$ -	$ -	$ -	$ 78
417	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	BRASS BUSH THD 1 X 1/2	EA	1	8.00				0.25	$ 18	$ 8	$ -	$ -	$ -	$ 26
418	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PE TUBING REINF 1/2 ID	LF	300	4.30				24.00	$ 1,714	$ 1,290	$ -	$ -	$ -	$ 3,004
419	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PVC80 TUBE ADPTR MPT X INS 1/2	EA	2	8.00				0.42	$ 30	$ 16	$ -	$ -	$ -	$ 46
420	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PVC80 PIPE 6	LF	240	44.10				36.00	$ 2,571	$ 10,584	$ -	$ -	$ -	$ 13,155
421	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PVC80 CPLG 6	EA	12	90.00				6.00	$ 428	$ 1,080	$ -	$ -	$ -	$ 1,508
422	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PVC80 45 6	EA	2	135.00				2.00	$ 143	$ 270	$ -	$ -	$ -	$ 413
423	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	PVC80 22.5 6	EA	4	135.00				4.00	$ 286	$ 540	$ -	$ -	$ -	$ 826
424	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	FERNCO CPLG 6	EA	2	35.00				1.50	$ 107	$ 70	$ -	$ -	$ -	$ 177
425	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	GROUT PIPE IN MH	EA	1	15.00				1.00	$ 71	$ 15	$ -	$ -	$ -	$ 86
426	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	POTHOLE EXISTING	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
427	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	CROSS EXISTING	EA	7					21.00	$ 1,500	$ -	$ -	$ -	$ -	$ 1,500
428	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	SUPPORT EXISTING	EA	7	75.00				21.00	$ 1,500	$ 525	$ -	$ -	$ -	$ 2,025
429	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	TRENCH AND BACKFILL 4-6	LF	40					8.80	$ 628	$ -	$ -	$ -	$ -	$ 628
430	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	TRENCH AND BACKFILL 6-8	LF	187					52.36	$ 3,739	$ -	$ -	$ -	$ -	$ 3,739
431	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	IMPORT PIPE BEDDING	CY	77	40.00					$ -	$ 3,080	$ -	$ -	$ -	$ 3,080
432	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	TRACER WIRE	LF	227	1.50				5.68	$ 405	$ 341	$ -	$ -	$ -	$ 746
433	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	TRACER WIRE RISER BOX	EA	2	93.00				3.00	$ 214	$ 186	$ -	$ -	$ -	$ 400
434	BE	33 - Utilites	1/2IN SAMPLE	33 - Utilities	UG DET WARNING TAPE	LF	227	0.10				6.81	$ 486	$ 23	$ -	$ -	$ -	$ 509
435	BE												$ -	$ -	$ -	$ -	$ -	$ -
436	BE												$ -	$ -	$ -	$ -	$ -	$ -
437	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	PVC CEMEENT AND PRIMER	QT	6	82.00					$ -	$ 492	$ -	$ -	$ -	$ 492
438	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	PIPE TAP / SADDLE	EA	2	175.00					$ -	$ 350	$ -	$ -	$ -	$ 350
439	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	CHEM FEED TO INJ POINT	EA	7	650.00				140.00	$ 9,997	$ 4,550	$ -	$ -	$ -	$ 14,547
440	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	EQUIP BOOM LIFT 45 FT	MO	1		5000.00		1000.00		$ -	$ -	$ 5,000	$ -	$ 1,000	$ 6,000
441	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	INST TUBING / SAMPLE LINE	EA	6	350.00				60.00	$ 4,285	$ 2,100	$ -	$ -	$ -	$ 6,385
442	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	TANK INST MOUNTING	EA	8	75.00				16.00	$ 1,143	$ 600	$ -	$ -	$ -	$ 1,743
443	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	PRESSURE TEST PIPING	EA	28	35.00				112.00	$ 7,998	$ 980	$ -	$ -	$ -	$ 8,978
444	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	FLUSH AND DISINFECT	EA	5	50.00				20.00	$ 1,428	$ 250	$ -	$ -	$ -	$ 1,678

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
445	BE	40 - Process Piping	GENERAL PROCESS PIPE	40 - Process Integration	PS PIPE SUPPORT DESIGN	LS	1				5500.00		$ -	$ -	$ -	$ -	$ 5,500	$ 5,500
446	BE												$ -	$ -	$ -	$ -	$ -	$ -
447	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 8 X 1' 0"	EA	1	654.00				0.75	$ 54	$ 654	$ -	$ -	$ -	$ 708
448	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 8 X 2' 0"	EA	1	784.00				1.00	$ 71	$ 784	$ -	$ -	$ -	$ 855
449	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXPE 8 X 2' 0"	EA	2	511.00				5.00	$ 357	$ 1,022	$ -	$ -	$ -	$ 1,379
450	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI MEGAFLANGE 8	EA	2	501.00				2.00	$ 143	$ 1,002	$ -	$ -	$ -	$ 1,145
451	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 8 X 2' 6"	EA	1	844.00				1.25	$ 89	$ 844	$ -	$ -	$ -	$ 933
452	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 8 X 7' 0"	EA	4	1477.00				14.00	$ 1,000	$ 5,908	$ -	$ -	$ -	$ 6,908
453	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG 90 8	EA	2	878.00				2.00	$ 143	$ 1,756	$ -	$ -	$ -	$ 1,899
454	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG TEE 8	EA	4	1309.00				6.00	$ 428	$ 5,236	$ -	$ -	$ -	$ 5,664
455	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG RED CON 8 X 3	EA	1	565.00				1.00	$ 71	$ 565	$ -	$ -	$ -	$ 636
456	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG RED CON 8 X 6	EA	2	602.00				2.00	$ 143	$ 1,204	$ -	$ -	$ -	$ 1,347
457	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 6 X 3' 0"	EA	2	630.00				4.00	$ 286	$ 1,260	$ -	$ -	$ -	$ 1,546
458	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 4 X 3' 0"	EA	2	511.00				4.00	$ 286	$ 1,022	$ -	$ -	$ -	$ 1,308
459	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 4 X 7' 0"	EA	1	823.00				3.00	$ 214	$ 823	$ -	$ -	$ -	$ 1,037
460	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 3 X 5' 0"	EA	2	1063.00				4.00	$ 286	$ 2,126	$ -	$ -	$ -	$ 2,412
461	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 3 X 18' 0"	EA	1	3207.00				6.50	$ 464	$ 3,207	$ -	$ -	$ -	$ 3,671
462	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXF 3 X 12' 0"	EA	2	2218.00				10.00	$ 714	$ 4,436	$ -	$ -	$ -	$ 5,150
463	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXPE 3 X 10' 0"	EA	1	1763.00				5.00	$ 357	$ 1,763	$ -	$ -	$ -	$ 2,120
464	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG TEE 8 X 4	EA	4	1218.00				6.00	$ 428	$ 4,872	$ -	$ -	$ -	$ 5,300
465	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG 90 3	EA	5	225.00				2.50	$ 179	$ 1,125	$ -	$ -	$ -	$ 1,304
466	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI MEGAFLANGE 3	EA	2	87.00				1.00	$ 71	$ 174	$ -	$ -	$ -	$ 245
467	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI PIPE FXPE 3 X 5' 0"	EA	1	1063.00				2.00	$ 143	$ 1,063	$ -	$ -	$ -	$ 1,206
468	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI FLG 90 4	EA	2	348.00				2.00	$ 143	$ 696	$ -	$ -	$ -	$ 839
469	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI BLIND FLANGE 8	EA	2	409.00				2.00	$ 143	$ 818	$ -	$ -	$ -	$ 961
470	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	VALVE FLANGE BFV 3	EA	2	1143.00				2.00	$ 143	$ 2,286	$ -	$ -	$ -	$ 2,429
471	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	DI BLIND FLANGE 3	EA	2	95.00				1.00	$ 71	$ 190	$ -	$ -	$ -	$ 261
472	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	VALVE FLANGE BFV 8	EA	3	3386.00				6.00	$ 428	$ 10,158	$ -	$ -	$ -	$ 10,586
473	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	VALVE FLANGE BFV 6	EA	2	2829.00				3.50	$ 250	$ 5,658	$ -	$ -	$ -	$ 5,908
474	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	INST MAG METER 3	EA	1					1.00	$ 71	$ -	$ -	$ -	$ -	$ 71
475	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	VALVE FLANGE BFV 4	EA	1	1886.00				1.50	$ 107	$ 1,886	$ -	$ -	$ -	$ 1,993
476	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	NBG KIT SS 8	EA	30	60.00				18.00	$ 1,285	$ 1,800	$ -	$ -	$ -	$ 3,085
477	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	NBG KIT SS 6	EA	4	68.00				2.00	$ 143	$ 272	$ -	$ -	$ -	$ 415
478	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	NBG KIT SS 4	EA	9	43.00				3.60	$ 257	$ 387	$ -	$ -	$ -	$ 644
479	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	NBG KIT SS 3	EA	16	29.00				3.36	$ 240	$ 464	$ -	$ -	$ -	$ 704
480	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	PS KNEE BRACE W/ U BOLT HDG 3IN PIPE 16IN REACH	EA	7	715.00				21.00	$ 1,500	$ 5,005	$ -	$ -	$ -	$ 6,505
481	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 8 X 1' 6"	EA	4	250.00				12.00	$ 857	$ 1,000	$ -	$ -	$ -	$ 1,857

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
482	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 8 X 7' 0"	EA	3	727.00				13.50	$ 964	$ 2,181	$ -	$ -	$ -	$ 3,145
483	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 6 X 7' 0"	EA	2	727.00				9.00	$ 643	$ 1,454	$ -	$ -	$ -	$ 2,097
484	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	PS ANCHOR	EA	64	15.00				3.20	$ 229	$ 960	$ -	$ -	$ -	$ 1,189
485	BE	40 - Process Piping	RW & RCY TO MEM SKIDS	40 - Process Integration	PS GROUT PIPE STAND	EA	11	10.00				5.50	$ 393	$ 110	$ -	$ -	$ -	$ 503
486	BE												$ -	$ -	$ -	$ -	$ -	$ -
487	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI PIPE FXF 8 X 7' 0"	EA	6	1477.00				21.00	$ 1,500	$ 8,862	$ -	$ -	$ -	$ 10,362
488	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI PIPE FXF 8 X 10' 0"	EA	8	1824.00				48.00	$ 3,428	$ 14,592	$ -	$ -	$ -	$ 18,020
489	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI FLG TEE 8	EA	4	1309.00				6.00	$ 428	$ 5,236	$ -	$ -	$ -	$ 5,664
490	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI BLIND FLANGE 8	EA	4	409.00				4.00	$ 286	$ 1,636	$ -	$ -	$ -	$ 1,922
491	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI FLG 90 8	EA	5	878.00				5.00	$ 357	$ 4,390	$ -	$ -	$ -	$ 4,747
492	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	VALVE FLANGE BFV 8	EA	1	3386.00				2.00	$ 143	$ 3,386	$ -	$ -	$ -	$ 3,529
493	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI PIPE FXPE 8 X 10' 0"	EA	2	1551.00				12.00	$ 857	$ 3,102	$ -	$ -	$ -	$ 3,959
494	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI MEGAFLANGE 8	EA	2	501.00				2.00	$ 143	$ 1,002	$ -	$ -	$ -	$ 1,145
495	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	NBG KIT SS 8	EA	36	60.00				21.60	$ 1,542	$ 2,160	$ -	$ -	$ -	$ 3,702
496	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 8 X 7' 0"	EA	14	727.00				63.00	$ 4,499	$ 10,178	$ -	$ -	$ -	$ 14,677
497	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	PS ANCHOR	EA	56	15.00				2.80	$ 200	$ 840	$ -	$ -	$ -	$ 1,040
498	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	PS GROUT PIPE STAND	EA	14	10.00				7.00	$ 500	$ 140	$ -	$ -	$ -	$ 640
499	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	NBG KIT SS 6	EA	12	68.00				6.00	$ 428	$ 816	$ -	$ -	$ -	$ 1,244
500	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	EXP JOINT FLANGED W/ REST 8	EA	1	5429.00				2.50	$ 179	$ 5,429	$ -	$ -	$ -	$ 5,608
501	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	VALVE FLANGE BFV 6	EA	4	2829.00				7.00	$ 500	$ 11,316	$ -	$ -	$ -	$ 11,816
502	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI FLG RED CON 8 X 6	EA	4	602.00				4.00	$ 286	$ 2,408	$ -	$ -	$ -	$ 2,694
503	BE	40 - Process Piping	BWW & FLT FM MEM SKIDS	40 - Process Integration	DI PIPE FXF 6 X 3' 0"	EA	4	630.00				8.00	$ 571	$ 2,520	$ -	$ -	$ -	$ 3,091
504	BE												$ -	$ -	$ -	$ -	$ -	$ -
505	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PVC80 PIPE 3	LF	40	15.10				8.40	$ 600	$ 604	$ -	$ -	$ -	$ 1,204
506	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PVC80 CPLG 3	EA	2	22.00				0.42	$ 30	$ 44	$ -	$ -	$ -	$ 74
507	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PVC80 90 3	EA	3	27.00				0.63	$ 45	$ 81	$ -	$ -	$ -	$ 126
508	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PVC80 FLANGE VAN STONE 4 SPIG	EA	2	39.00				0.60	$ 43	$ 78	$ -	$ -	$ -	$ 121
509	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PVC80 RED CPLG 4X3	EA	2	47.00				0.50	$ 36	$ 94	$ -	$ -	$ -	$ 130
510	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PVC80 FLANGE VAN STONE 3	EA	10	26.30				2.10	$ 150	$ 263	$ -	$ -	$ -	$ 413
511	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	NBG KIT SS 4	EA	2	43.00				0.80	$ 57	$ 86	$ -	$ -	$ -	$ 143
512	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	NBG KIT SS 3	EA	10	29.00				2.10	$ 150	$ 290	$ -	$ -	$ -	$ 440
513	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PS STRUT SLOTTED SS 1-5/8	LF	20	13.00				3.00	$ 214	$ 260	$ -	$ -	$ -	$ 474
514	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PS STRUT POST BASE SS	EA	2	75.00				2.00	$ 143	$ 150	$ -	$ -	$ -	$ 293
515	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PS 2PC STUT CLAMP SS 3	EA	6	5.20				1.26	$ 90	$ 31	$ -	$ -	$ -	$ 121
516	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PS STRUT MISC FTG / HARDWARE	LS	1	100.00					$ -	$ 100	$ -	$ -	$ -	$ 100
517	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PS ANCHOR	EA	8	15.00				0.40	$ 29	$ 120	$ -	$ -	$ -	$ 149
518	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	PS GROUT PIPE STAND	EA	2	10.00				1.00	$ 71	$ 20	$ -	$ -	$ -	$ 91

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
519	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	VALVE FLANGE BFV 3	EA	2	1143.00				2.00	$ 143	$ 2,286	$ -	$ -	$ -	$ 2,429
520	BE	40 - Process Piping	GW LINES TO FLT TNK	40 - Process Integration	INST MAG METER 3	EA	2					2.00	$ 143	$ -	$ -	$ -	$ -	$ 143
521	BE												$ -	$ -	$ -	$ -	$ -	$ -
522	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	EXP JOINT FLANGED W/ REST 8	EA	1	5429.00				2.50	$ 179	$ 5,429	$ -	$ -	$ -	$ 5,608
523	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI MEGAFLANGE 8	EA	2	501.00				2.00	$ 143	$ 1,002.00	$ -	$ -	$ -	$ 1,145
524	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXPE 8 X 7' 0"	EA	1	1163.00				5.00	$ 357	$ 1,163	$ -	$ -	$ -	$ 1,520
525	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXPE 8 X 2' 0"	EA	1	511.00				2.50	$ 179	$ 511	$ -	$ -	$ -	$ 690
526	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXF 8 X 3' 0"	EA	1	914.00				1.75	$ 125	$ 914	$ -	$ -	$ -	$ 1,039
527	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXF 8 X 2' 6"	EA	3	844.00				3.75	$ 268	$ 2,532	$ -	$ -	$ -	$ 2,800
528	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXF 8 X 1' 0"	EA	1	654.00				0.75	$ 54	$ 654	$ -	$ -	$ -	$ 708
529	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXPE 4 X 1' 0"	EA	4	213.00				3.00	$ 214	$ 852	$ -	$ -	$ -	$ 1,066
530	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI MEGAFLANGE 4	EA	4	263.00				4.00	$ 286	$ 1,052	$ -	$ -	$ -	$ 1,338
531	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI PIPE FXF 4 X 0' 6"	EA	4	354.00				3.00	$ 214	$ 1,416	$ -	$ -	$ -	$ 1,630
532	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI FLG 45 8	EA	1	725.00				1.00	$ 71	$ 725	$ -	$ -	$ -	$ 796
533	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI FLG TEE 8 X 4	EA	4	1218.00				6.00	$ 428	$ 4,872	$ -	$ -	$ -	$ 5,300
534	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI BLIND FLANGE 8	EA	2	409.00				2.00	$ 143	$ 818	$ -	$ -	$ -	$ 961
535	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	DI FLG 90 8	EA	1	878.00				1.00	$ 71	$ 878	$ -	$ -	$ -	$ 949
536	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	VALVE FLANGE BFV 8	EA	1	3386.00				2.00	$ 143	$ 3,386	$ -	$ -	$ -	$ 3,529
537	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	VALVE FLANGE BFV 4	EA	4	1886.00				6.00	$ 428	$ 7,544	$ -	$ -	$ -	$ 7,972
538	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	VALVE FLANGE CHECK 4	EA	2	3772.00				4.00	$ 286	$ 7,544	$ -	$ -	$ -	$ 7,830
539	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	INST MAG METER 8	EA	1					2.00	$ 143	$ -	$ -	$ -	$ -	$ 143
540	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	FLUSHING CONN	EA	4	100.00				6.00	$ 428	$ 400	$ -	$ -	$ -	$ 828
541	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	NBG KIT SS 8	EA	18	60.00				10.80	$ 771	$ 1,080	$ -	$ -	$ -	$ 1,851
542	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	NBG KIT SS 4	EA	18	43.00				7.20	$ 514	$ 774	$ -	$ -	$ -	$ 1,288
543	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 8 X 3' 6"	EA	5	515.00				15.00	$ 1,071	$ 2,575	$ -	$ -	$ -	$ 3,646
544	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 4 X 3' 6"	EA	4	515.00				12.00	$ 857	$ 2,060	$ -	$ -	$ -	$ 2,917
545	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	PS ANCHOR	EA	36	15.00				1.80	$ 129	$ 540	$ -	$ -	$ -	$ 669
546	BE	40 - Process Piping	FW TANK TO YARD	40 - Process Integration	PS GROUT PIPE STAND	EA	9	10.00				4.50	$ 321	$ 90	$ -	$ -	$ -	$ 411
547	BE												$ -	$ -	$ -	$ -	$ -	$ -
548	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 PIPE 3	LF	20	15.10				4.20	$ 300	$ 302	$ -	$ -	$ -	$ 602
549	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 CPLG 3	EA	1	22.00				0.21	$ 15	$ 22	$ -	$ -	$ -	$ 37
550	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 90 3	EA	2	27.00				0.42	$ 30	$ 54	$ -	$ -	$ -	$ 84
551	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 45 3	EA	4	36.30				0.84	$ 60	$ 145	$ -	$ -	$ -	$ 205
552	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 FLANGE VAN STONE 3	EA	2	26.30				0.42	$ 30	$ 53	$ -	$ -	$ -	$ 83
553	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	NBG KIT SS 3	EA	2	29.00				0.42	$ 30	$ 58	$ -	$ -	$ -	$ 88
554	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 UNION S 3	EA	1	51.00				0.21	$ 15	$ 51	$ -	$ -	$ -	$ 66
555	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PS 2PC STUT CLAMP SS 3	EA	8	5.20				1.68	$ 120	$ 42	$ -	$ -	$ -	$ 162

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
556	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PS STRUT SLOTTED SS 1-5/8	LF	24	13.00				3.60	$ 257	$ 312	$ -	$ -	$ -	$ 569
557	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PS ANCHOR F/ STRUT	EA	16	7.00				1.60	$ 114	$ 112	$ -	$ -	$ -	$ 226
558	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PS STRUT POST BASE SS	EA	8	75.00				8.00	$ 571	$ 600	$ -	$ -	$ -	$ 1,171
559	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 CAP 3	EA	2	30.00				0.42	$ 30	$ 60	$ -	$ -	$ -	$ 90
560	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 TEE 3 X 2	EA	4	9.00				0.60	$ 43	$ 36	$ -	$ -	$ -	$ 79
561	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 PIPE 2	LF	20	7.40				4.20	$ 300	$ 148	$ -	$ -	$ -	$ 448
562	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 CPLG 2	EA	1	7.50				0.21	$ 15	$ 8	$ -	$ -	$ -	$ 22
563	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 TEE 2 X 1/2	EA	4	6.10				0.84	$ 60	$ 24	$ -	$ -	$ -	$ 84
564	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 TU BALL VALVE 2	EA	4	175.00				0.84	$ 60	$ 700	$ -	$ -	$ -	$ 760
565	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 FLANGE VAN STONE 2	EA	4	15.40				0.84	$ 60	$ 62	$ -	$ -	$ -	$ 122
566	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	NBG KIT SS 2	EA	4	27.00				0.84	$ 60	$ 108	$ -	$ -	$ -	$ 168
567	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 TU BALL CHECK 2	EA	2	215.00				0.42	$ 30	$ 430	$ -	$ -	$ -	$ 460
568	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 TU BALL VALVE 1/2	EA	4	55.00				0.84	$ 60	$ 220	$ -	$ -	$ -	$ 280
569	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PS 2PC STUT CLAMP SS 2	EA	4	3.30				0.84	$ 60	$ 13	$ -	$ -	$ -	$ 73
570	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PS GROUT PIPE STAND	EA	8	10.00				4.00	$ 286	$ 80	$ -	$ -	$ -	$ 366
571	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	DI BLIND FLANGE 8 W/ 3IN TAP	EA	1	769.00				1.00	$ 71	$ 769	$ -	$ -	$ -	$ 840
572	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	NBG KIT SS 8	EA	1	60.00				0.60	$ 43	$ 60	$ -	$ -	$ -	$ 103
573	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	PVC80 MALE ADAPTER 3	EA	2	28.00				0.42	$ 30	$ 56	$ -	$ -	$ -	$ 86
574	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	DI BLIND FLANGE 6 W/ 3IN TAP	EA	1	605.00				1.00	$ 71	$ 605	$ -	$ -	$ -	$ 676
575	BE	40 - Process Piping	RCY IN FILTER BLDG	40 - Process Integration	NBG KIT SS 6	EA	1	68.00				0.50	$ 36	$ 68	$ -	$ -	$ -	$ 104
576	BE												$ -	$ -	$ -	$ -	$ -	$ -
577	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	DI PIPE FXPE 8 X 3' 0"	EA	2	641.00				5.00	$ 357	$ 1,282	$ -	$ -	$ -	$ 1,639
578	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	DI MEGALUG W/ ACC 8	EA	4	577.00				4.00	$ 286	$ 2,308	$ -	$ -	$ -	$ 2,594
579	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	DI PIPE FXF 8 X 4' 0"	EA	1	1044.00				2.00	$ 143	$ 1,044	$ -	$ -	$ -	$ 1,187
580	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	DI FLG 90 8	EA	2	878.00				2.00	$ 143	$ 1,756	$ -	$ -	$ -	$ 1,899
581	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	NBG KIT SS 8	EA	17	60.00				10.20	$ 728	$ 1,020	$ -	$ -	$ -	$ 1,748
582	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	PS KNEE BRACE W/ U BOLT HDG 8IN PIPE 24IN REACH	EA	8	1143.00				24.00	$ 1,714	$ 9,144	$ -	$ -	$ -	$ 10,858
583	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	PS ADJ PIPE STAND W/ U BOLT HDG 8 X 1' 0"	EA	1	129.00				3.00	$ 214	$ 129	$ -	$ -	$ -	$ 343
584	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	PS ANCHOR	EA	36	15.00				1.80	$ 129	$ 540	$ -	$ -	$ -	$ 669
585	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	PS GROUT PIPE STAND	EA	1	10.00				0.50	$ 36	$ 10	$ -	$ -	$ -	$ 46
586	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	PVC80 PIPE 8	LF	80	106.00				40.00	$ 2,856	$ 8,480	$ -	$ -	$ -	$ 11,336
587	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	PVC80 FLANGE VAN STONE 8	EA	17	97.00				8.50	$ 607	$ 1,649	$ -	$ -	$ -	$ 2,256
588	BE	40 - Process Piping	BWW IN FLR BLDG	40 - Process Integration	DRILL HOLES IN PVC PIPE	EA	13					3.25	$ 232	$ -	$ -	$ -	$ -	$ 232
589	BE												$ -	$ -	$ -	$ -	$ -	$ -
590	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PVC80 PIPE 4	LF	40	44.10				10.00	$ 714	$ 1,764	$ -	$ -	$ -	$ 2,478
591	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PVC80 CPLG 4	EA	2	26.60				0.50	$ 36	$ 53	$ -	$ -	$ -	$ 89
592	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PVC80 90 4	EA	1	40.00				0.30	$ 21	$ 40	$ -	$ -	$ -	$ 61

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
593	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PVC80 45 4	EA	2	65.40				0.60	$ 43	$ 131	$ -	$ -	$ -	$ 174
594	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PVC80 FLANGE VAN STONE 4	EA	6	33.20				1.80	$ 129	$ 199	$ -	$ -	$ -	$ 328
595	BE	40 - Process Piping	TANK VENT	40 - Process Integration	NBG KIT SS 4	EA	4	43.00				1.60	$ 114	$ 172	$ -	$ -	$ -	$ 286
596	BE	40 - Process Piping	TANK VENT	40 - Process Integration	SLEEVE ESCUCHEON BOOT 4IN	EA	2	65.00				3.00	$ 214	$ 130	$ -	$ -	$ -	$ 344
597	BE	40 - Process Piping	TANK VENT	40 - Process Integration	SLEEVE CS 6 X 14	EA	1	124.00				3.00	$ 214	$ 124	$ -	$ -	$ -	$ 338
598	BE	40 - Process Piping	TANK VENT	40 - Process Integration	LS-300 SS	EA	15	8.70				2.25	$ 161	$ 131	$ -	$ -	$ -	$ 291
599	BE	40 - Process Piping	TANK VENT	40 - Process Integration	BIRD SCREEN SS	SF	1	25.00				0.50	$ 36	$ 25	$ -	$ -	$ -	$ 61
600	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PS 2PC STUT CLAMP SS 4	EA	6	13.50				1.26	$ 90	$ 81	$ -	$ -	$ -	$ 171
601	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PS STRUT SLOTTED SS 1-5/8	LF	6	13.00				0.90	$ 64	$ 78	$ -	$ -	$ -	$ 142
602	BE	40 - Process Piping	TANK VENT	40 - Process Integration	PS ANCHOR F/ STRUT	EA	12	7.00				1.20	$ 86	$ 84	$ -	$ -	$ -	$ 170
603	BE												$ -	$ -	$ -	$ -	$ -	$ -
604	BE	40 - Process Piping	TANK OF	40 - Process Integration	PVC80 PIPE 6	LF	20	44.10				8.00	$ 571	$ 882	$ -	$ -	$ -	$ 1,453
605	BE	40 - Process Piping	TANK OF	40 - Process Integration	PVC80 CPLG 6	EA	1	90.00				0.40	$ 29	$ 90	$ -	$ -	$ -	$ 119
606	BE	40 - Process Piping	TANK OF	40 - Process Integration	PVC80 90 6	EA	1	112.00				0.40	$ 29	$ 112	$ -	$ -	$ -	$ 141
607	BE	40 - Process Piping	TANK OF	40 - Process Integration	PVC80 FLANGE VAN STONE 6	EA	3	52.30				1.20	$ 86	$ 157	$ -	$ -	$ -	$ 243
608	BE	40 - Process Piping	TANK OF	40 - Process Integration	NBG KIT SS 6	EA	2	68.00				1.00	$ 71	$ 136	$ -	$ -	$ -	$ 207
609	BE	40 - Process Piping	TANK OF	40 - Process Integration	RUPTURE DISC 6	EA	1	35.00				0.50	$ 36	$ 35	$ -	$ -	$ -	$ 71
610	BE	40 - Process Piping	TANK OF	40 - Process Integration	PS 2PC STUT CLAMP SS 6	EA	3	20.00				0.63	$ 45	$ 60	$ -	$ -	$ -	$ 105
611	BE	40 - Process Piping	TANK OF	40 - Process Integration	PS STRUT SLOTTED SS 1-5/8	LF	20	13.00				3.00	$ 214	$ 260	$ -	$ -	$ -	$ 474
612	BE	40 - Process Piping	TANK OF	40 - Process Integration	PS ANCHOR F/ STRUT	EA	8	7.00				0.80	$ 57	$ 56	$ -	$ -	$ -	$ 113
613	BE	40 - Process Piping	TANK OF	40 - Process Integration	PS STRUT MISC FTG / HARDWARE	LS	1	125.00					$ -	$ 125	$ -	$ -	$ -	$ 125
614	BE	40 - Process Piping	TANK OF	40 - Process Integration	PS STRUT POST BASE SS	EA	2	75.00				2.00	$ 143	$ 150	$ -	$ -	$ -	$ 293
615	BE												$ -	$ -	$ -	$ -	$ -	$ -
616	BE												$ -	$ -	$ -	$ -	$ -	$ -
617	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE TANK	43 - Process Gas and Liquid Handling, Pu	SUPPLY PKG FILTRATE TANK	LS	1	16000.00					$ -	$ 16,000	$ -	$ -	$ -	$ 16,000
618	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE TANK	43 - Process Gas and Liquid Handling, Pu	FILTRATE TANK 8000 GAL	EA	1					32.00	$ 2,285	$ -	$ -	$ -	$ -	$ 2,285
619	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE TANK	43 - Process Gas and Liquid Handling, Pu	TANK ANCHORS	EA	12	25.00				3.00	$ 214	$ 300	$ -	$ -	$ -	$ 514
620	BE												$ -	$ -	$ -	$ -	$ -	$ -
621	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE PUMPS	43 - Process Gas and Liquid Handling, Pu	SUPPLY PKG FILTRATE PUMP	LS	1	40000.00					$ -	$ 40,000	$ -	$ -	$ -	$ 40,000
622	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE PUMPS	43 - Process Gas and Liquid Handling, Pu	HORIZ CENT PUMP 15HP	EA	2					32.00	$ 2,285	$ -	$ -	$ -	$ -	$ 2,285
623	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE PUMPS	43 - Process Gas and Liquid Handling, Pu	ANCHORS F/ EQUIPMENT	EA	8	25.00				1.60	$ 114	$ 200	$ -	$ -	$ -	$ 314
624	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE PUMPS	43 - Process Gas and Liquid Handling, Pu	GROUT EQUIPMENT BASE	CF	2	125.00				6.00	$ 428	$ 250	$ -	$ -	$ -	$ 678
625	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE PUMPS	43 - Process Gas and Liquid Handling, Pu	MISC MATERIALS	LS	1	250.00					$ -	$ 250	$ -	$ -	$ -	$ 250
626	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE PUMPS	43 - Process Gas and Liquid Handling, Pu	STARTUP AND TRAINING	LS	1					6.00	$ 428	$ -	$ -	$ -	$ -	$ 428
627	BE												$ -	$ -	$ -	$ -	$ -	$ -
628	BE	43 - Process Gas & Liquid Handling, Purification, St	BW RCY PUMPS	43 - Process Gas and Liquid Handling, Pu	SUPPLY PKG RECYCLE PUMP	LS	1	20000.00					$ -	$ 20,000	$ -	$ -	$ -	$ 20,000
629	BE	43 - Process Gas & Liquid Handling, Purification, St	BW RCY PUMPS	43 - Process Gas and Liquid Handling, Pu	HORIZ CENT PUMP 1HP	EA	2					28.00	$ 1,999	$ -	$ -	$ -	$ -	$ 1,999

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
630	BE	43 - Process Gas & Liquid Handling, Purification, St	BW RCY PUMPS	43 - Process Gas and Liquid Handling, Pu	ANCHORS F/ EQUIPMENT	EA	8	25.00				1.60	$ 114	$ 200	$ -	$ -	$ -	$ 314
631	BE	43 - Process Gas & Liquid Handling, Purification, St	BW RCY PUMPS	43 - Process Gas and Liquid Handling, Pu	GROUT EQUIPMENT BASE	CF	1	125.00				3.00	$ 214	$ 125	$ -	$ -	$ -	$ 339
632	BE	43 - Process Gas & Liquid Handling, Purification, St	BW RCY PUMPS	43 - Process Gas and Liquid Handling, Pu	MISC MATERIALS	LS	1	100.00					$ -	$ 100	$ -	$ -	$ -	$ 100
633	BE	43 - Process Gas & Liquid Handling, Purification, St	BW RCY PUMPS	43 - Process Gas and Liquid Handling, Pu	STARTUP AND TRAINING	LS	1					6.00	$ 428	$ -	$ -	$ -	$ -	$ 428
634	BE												$ -	$ -	$ -	$ -	$ -	$ -
635	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE HYPO	43 - Process Gas and Liquid Handling, Pu	SUPPLY PKG SODIUM HYPO FEED PANEL	LS	1	19000.00					$ -	$ 19,000	$ -	$ -	$ -	$ 19,000
636	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE HYPO	43 - Process Gas and Liquid Handling, Pu	CHEM FEED SKID SODIUM HYPOCHLORITE	EA	1					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
637	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE HYPO	43 - Process Gas and Liquid Handling, Pu	CHEM FEED SUCTION PIPING	EA	1	50.00				3.50	$ 250	$ 50	$ -	$ -	$ -	$ 300
638	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE HYPO	43 - Process Gas and Liquid Handling, Pu	ANCHORS F/ EQUIPMENT	EA	4	20.00				0.80	$ 57	$ 80	$ -	$ -	$ -	$ 137
639	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE HYPO	43 - Process Gas and Liquid Handling, Pu	MISC MATERIALS	LS	1	150.00					$ -	$ 150	$ -	$ -	$ -	$ 150
640	BE	43 - Process Gas & Liquid Handling, Purification, St	FILTRATE HYPO	43 - Process Gas and Liquid Handling, Pu	STARTUP AND TRAINING	LS	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
641	BE												$ -	$ -	$ -	$ -	$ -	$ -
642	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	SUPPLY PKG SODA ASH SYSTEM	LS	1	205028.00					$ -	$ 205,028	$ -	$ -	$ -	$ 205,028
643	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	HOPPER AND SUPPORT FRAME	EA	1					64.00	$ 4,570	$ -	$ -	$ -	$ -	$ 4,570
644	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	SCREW FEEDER	EA	1					16.00	$ 1,143	$ -	$ -	$ -	$ -	$ 1,143
645	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	MIX TANK / PUMP SKID	EA	1					16.00	$ 1,143	$ -	$ -	$ -	$ -	$ 1,143
646	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	CONTROL PANEL	EA	1					4.00	$ 286	$ -	$ -	$ -	$ -	$ 286
647	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	ANCHORS F/ EQUIPMENT	EA	24	25.00				4.80	$ 343	$ 600	$ -	$ -	$ -	$ 943
648	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	GROUT EQUIPMENT BASE	CF	3	125.00				9.00	$ 643	$ 375	$ -	$ -	$ -	$ 1,018
649	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	MISC MATERIALS	LS	1	500.00					$ -	$ 500	$ -	$ -	$ -	$ 500
650	BE	43 - Process Gas & Liquid Handling, Purification, St	SODA ASH	43 - Process Gas and Liquid Handling, Pu	STARTUP AND TRAINING	LS	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
651	BE												$ -	$ -	$ -	$ -	$ -	$ -
652	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	SUPPLY PKG AUTO STRAINER	LS	1	27286.00					$ -	$ 27,286	$ -	$ -	$ -	$ 27,286
653	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	BASKET STRAINER FLANGED 8IN	EA	1					24.00	$ 1,714	$ -	$ -	$ -	$ -	$ 1,714
654	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	CONTROL PANEL	EA	1					4.00	$ 286	$ -	$ -	$ -	$ -	$ 286
655	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	ANCHORS F/ EQUIPMENT	EA	8	25.00				2.00	$ 143	$ 200	$ -	$ -	$ -	$ 343
656	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	GROUT EQUIPMENT BASE	CF	1	125.00				3.00	$ 214	$ 125	$ -	$ -	$ -	$ 339
657	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	MISC MATERIALS	LS	1	150.00					$ -	$ 150	$ -	$ -	$ -	$ 150
658	BE	46 - Water & Wastewater Equipment	AUTO STRAINER	45 - Industry-Specific Manufacturing Equip	STARTUP AND TRAINING	LS	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
659	BE												$ -	$ -	$ -	$ -	$ -	$ -
660	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	SUPPLY PKG MEMBRANE TREATMENT SYSTEM	LS	1	1305000.00					$ -	$ 1,305,000	$ -	$ -	$ -	$ 1,305,000
661	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	RAW WATER TURBIDIMETER PANEL	EA	1					4.00	$ 286	$ -	$ -	$ -	$ -	$ 286
662	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	MEMBRANE TREATMENT SKIDS	EA	2					64.00	$ 4,570	$ -	$ -	$ -	$ -	$ 4,570
663	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	MODULES	EA	48					24.00	$ 1,714	$ -	$ -	$ -	$ -	$ 1,714
664	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	BACKWASH SKID	EA	1					20.00	$ 1,428	$ -	$ -	$ -	$ -	$ 1,428
665	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	BACKPULSE TANK	EA	1					20.00	$ 1,428	$ -	$ -	$ -	$ -	$ 1,428
666	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CIP TANK 6000 GAL	EA	1					24.00	$ 1,714	$ -	$ -	$ -	$ -	$ 1,714

#	Est.	BID ITEM	LOCATION/SYSTEM	DIVISION	DESCRIPTION	UNIT	QTY	MATL UNIT	EQUIP UNIT	SUB UNIT	OTHER UNIT	MH	LABOR TOTAL	MATL TOTAL	EQUIP TOTAL	SUB TOTAL	OTHER TOTAL	DIRECT COST
												12996.4	$ 928,065	$ 3,043,288	$ 394,313	$ 4,958,294	$ 918,519	$ 10,242,478
667	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM FEED SKID SODIUM HYPOCHLORITE	EA	1					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
668	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM FEED SKID CITRIC ACID	EA	1					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
669	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM FEED SKID MINERAL ACID	EA	1					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
670	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM FEED SKID SODIUM HYDROXIDE	EA	1					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
671	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM FEED SKID SODIUM BISULFITE	EA	1					12.00	$ 857	$ -	$ -	$ -	$ -	$ 857
672	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	AIR COMPRESSOR	EA	2					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
673	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	RECIEVER TANK	EA	1					8.00	$ 571	$ -	$ -	$ -	$ -	$ 571
674	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	AIR DRIER	EA	2					6.00	$ 428	$ -	$ -	$ -	$ -	$ 428
675	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CA PIPING AND RACK	LS	1	750.00				24.00	$ 1,714	$ 750	$ -	$ -	$ -	$ 2,464
676	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CONTROL PANEL	EA	1					4.00	$ 286	$ -	$ -	$ -	$ -	$ 286
677	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	SPARE PARTS	LS	1					4.00	$ 286	$ -	$ -	$ -	$ -	$ 286
678	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM FEED SUCTION PIPING	EA	6	50.00				21.00	$ 1,500	$ 300	$ -	$ -	$ -	$ 1,800
679	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	CHEM CONTAINMENT PALLET	EA	5	350.00				10.00	$ 714	$ 1,750	$ -	$ -	$ -	$ 2,464
680	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	ANCHORS F/ EQUIPMENT	EA	88	20.00				17.60	$ 1,257	$ 1,760	$ -	$ -	$ -	$ 3,017
681	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	GROUT EQUIPMENT BASE	CF	1	125.00				3.00	$ 214	$ 125	$ -	$ -	$ -	$ 339
682	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	MISC MATERIALS	LS	1	1500.00					$ -	$ 1,500	$ -	$ -	$ -	$ 1,500
683	BE	46 - Water & Wastewater Equipment	MEMBRANE EQUIP	45 - Industry-Specific Manufacturing Equip	STARTUP AND TRAINING	LS	1					40.00	$ 2,856	$ -	$ -	$ -	$ -	$ 2,856

The following attachment is not included in this view since it is not a read-only PDF file.

The agency will receive all application forms and attachments without any data loss.

AttachmentForm_1_2-ATT2-1236-Appendix C_WaterSMART_Minturn_Alternatives Report.pdf

Tracking Number:GRANT14273918 Funding Opportunity Number:R25AS00013 Received Date:Oct 07, 2024 03:53:19 PM EDT

The following attachment is not included in this view since it is not a read-only PDF file.

The agency will receive all application forms and attachments without any data loss.

AttachmentForm_1_2-ATT3-1237-Appendix D _WaterSMART_Minturn_Letters of Support.pdf

Tracking Number:GRANT14273918 Funding Opportunity Number:R25AS00013 Received Date:Oct 07, 2024 03:53:19 PM EDT

OMB Number: 4040-0013
Expiration Date: 02/28/2025

CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

* APPLICANT'S ORGANIZATION

Town of Minturn, Colorado

* PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

Prefix:
* First Name: Madison
Middle Name:
* Last Name: Harris
Suffix:
* Title: Planner

* SIGNATURE: Madison Harris
* DATE: 10/07/2024

DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C.1352

OMB Number: 4040-0013
Expiration Date: 02/28/2025

1. * Type of Federal Action:
- [ ] a. contract
- [x] b. grant
- [ ] c. cooperative agreement
- [ ] d. loan
- [ ] e. loan guarantee
- [ ] f. loan insurance

2. * Status of Federal Action:
- [ ] a. bid/offer/application
- [x] b. initial award
- [ ] c. post-award

3. * Report Type:
- [x] a. initial filing
- [ ] b. material change

4. Name and Address of Reporting Entity:

[x] Prime [ ] SubAwardee

** Name* Town of Minturn, Colorado

** Street 1* 302 Pine Street *Street 2* #309

** City* Minturn *State* CO: Colorado *Zip* 81645

Congressional District, if known: CO002

5. If Reporting Entity in No.4 is Subawardee, Enter Name and Address of Prime:

6. * Federal Department/Agency:
Department of Interior, USBR

7. * Federal Program Name/Description:
Reclamation States Emergency Drought Relief

CFDA Number, *if applicable:* 15.514

8. Federal Action Number, *if known:*

9. Award Amount, *if known:*
$

10. a. Name and Address of Lobbying Registrant:

Prefix ** First Name* Sarah *Middle Name*

** Last Name* Marin *Suffix*

** Street 1* 200 Massachusetts Avenue NW, Suite 380 *Street 2* Suite 380

** City* Washington *State* DC: District of Columbia *Zip* 20001

b. Individual Performing Services (including address if different from No. 10a)

Prefix ** First Name* Sarah *Middle Name*

** Last Name* Marin *Suffix*

** Street 1* 200 Massachusetts Avenue NW, Suite 380 *Street 2* Suite 380

** City* Washington *State* DC: District of Columbia *Zip* 20001

11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when the transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

*** Signature:** Madison Harris

***Name:** *Prefix* ** First Name* Madison *Middle Name*

** Last Name* Harris *Suffix*

Title: Planner **Telephone No.:** 370-445-2429 **Date:** 10/07/2024

Federal Use Only:

Authorized for Local Reproduction
Standard Form - LLL (Rev. 7-97)

To: Minturn Town Council
From: Scot Hunn, Consulting Planning Director
Date: October 17, 2024
RE: Planning Director Update

Minturn Forward Code Update Project:

The Planning Department continues to work with Western Slope Consulting (Matt Farrar) and the Planning Commission to develop and review new articles and sections of Chapters 16 (Zoning) and 17 (Subdivision) of the Minturn Municipal Code as part of the Minturn Forward Code Update Project. The new Chapters 16 & 17 will replace the existing Chapters upon adoption. Priority has been placed on the creation of new administrative articles and sections that will have the most impact on improving processes and the implementation of the Town's policies. Each new article or section of code has been vetted internally (by the Planning department, the Town Attorney, and the Town Engineer) prior to presenting a draft document to the Planning Commission for review. Following Planning Commission review, the draft document is then revised and represented to the Planning Commission before moving on to additional articles and sections. Articles created and reviewed since June 2024 include:

- **Article 5 – Land Use Application Requirements & Procedures**
    - This article sets forth the purposes, application submittal requirements, review criteria, and processes for each land use application type (i.e. rezoning, PUDs, zoning variances, conditional use permits, DRB applications).
    - This is considered by staff as perhaps the most critical article in the new code. This article will correct contradictions and conflicts in the current code by standardizing language, processes, and terms while clarifying the intent of each different land use application review by the Town.
    - The clarity and standardization of certain elements of the code will create efficiency for the Town and predictability for applicants.
- **Article 12 – Environmental Impact Report**
    - This article replaces the previous environmental impact report section of the code and adds clarity to the process and administrative aspects.
    - This article includes existing provisions (existing code) along with new provisions that allow the Town to evaluate potential development impacts on the natural environment.
    - This article will also address potential development impacts on social, fiscal, or cultural environments of the Town.

The Minturn Forward project was originally estimated by the planning director to be completed by December 2024. While certain articles may be completed and reviewed by the Commission by the end of 2024, work focusing on drafting of new code articles did not commence until June 2024 and the development and review of each new article has proven more time-consuming than anticipated. This is typical of any comprehensive code update or overhaul project and is also indicative of detailed and thoughtful review and critique by staff, consultants, and the Planning Commission to ensure that the new code is clear, implementable and a marked improvement over the existing code.

Therefore, staff and Western Slope Consulting have provided the Town Manager and Council with an updated schedule which organizes project into "modules" and general time frames (i.e., August 2024 – March 2025) for the drafting, review, and completion of each module. Additionally, a detailed calendar has been provided showing the due dates for preparation of draft articles as well as anticipated dates for review of articles by the Commission, the Town Council (including joint work sessions), and the public. The schedule shows an anticipated completion and adoption date of July 2025. The Town's website will be updated to reflect the schedule and key dates/milestones.

301 Boulder St #309 • Minturn, CO 81645 • www.minturn.org • info@minturn.org • 970-827-5645

Last, Western Slope Consulting has provided a budget corresponding to the modules and the schedule to accurately reflect the workload ahead and the anticipated costs for ongoing support by Western Slope Consulting needed to complete the project. The timeline, calendar, and budget detail sheets are attached under cover of this memo.

Active Land Use Applications:

- **Midtown Village Planned Unit Development Preliminary Plan Review**
  Staff and referral agencies have been reviewing the Midtown Village Planned Unit Development (PUD) Preliminary Plan and Preliminary Plat application since late 2023. This mixed-use PUD proposal located in the 900 Block of South Minturn is primarily residential in nature but does include proposed commercial and/or civic uses. This PUD is being proposed and reviewed as a phased development plan based on availability of water. The Midtown Village Preliminary Plan will be presented to the Planning Commission on November 13, 2024 where the commission will consider the proposal and forward a recommendation for Town Council's consideration.

- **Eagle County School District – Maloit Park Preliminary Subdivision Plat Review**
  Staff has been reviewing the Eagle County School District Maloit Park Preliminary Plat for Subdivision application since late 2023. Following two rounds of review for completeness and sufficiency (ensuring that the Town has the type and level of information and details necessary to allow for a thorough review), the application has been sent to referral agencies as well as the Town's consultant team for review. Referral comments have already been received or are anticipated in the coming week. If the referral process produces substantive comments or concerns from referral agencies, the Applicant will have the opportunity to address those comments or concerns; to revise the application; and/or to request a meeting with referral agencies. Following the completion of the referral process, the subdivision application will be scheduled for a public hearing before the Planning Commission who will make a recommendation for the Council's consideration.

Other Planning Department Activities:

- **Eagle County Regional Housing Action Plan Partnership**
  The planning director has been participating alongside representatives from Eagle County, Avon, Eagle, Gypsum, Red Cliff, and Vail in a regional housing action plan task force spearheaded by Eagle County and the Town of Avon. The purpose of this effort is to create a regional housing action plan – looking at alignment between land use policies and community housing goals within and across jurisdictions, as well as identifying potential funding sources to implement priorities and projects - and is based on a housing needs assessment being finalized by Economic Planning Systems (EPS). The assessment is based on community survey work and an extensive process by EPS to work with each partner jurisdiction to compile data on existing land use and development, existing housing policies and housing units/supply in each jurisdiction, as well as demographics and market trends. The partnership will begin presenting the results of the assessment with each of the partner jurisdictions in October and November. The partnership will present its findings to the Minturn Town Council at the November 6, 2024, Council Meeting.

- **Eagle County Wildland Urban Interface (WUI) Code Working Group**
  The planning director and the code enforcement officer have been participating in a regional effort spearheaded by the Eagle County Wildfire Collaborative group to understand and discuss alternatives, pros, and cons related to the potential adoption of Wildland Urban Interface (WUI) code requirements in member jurisdictions (towns, special districts, and the fire districts). This group has been meeting since the start of 2024 and work completed to date includes sharing and analysis of each jurisdictions' existing land use, zoning, and building code regulations and policies to better understand where, if at all, there are commonalities across or among jurisdictions by way of fire or wildfire related terms, regulations, or design requirements for things like home construction, landscape design and materials, and access to private property. At their meeting on October 10, 2024, the group discussed a new state-led effort to establish minimum standards for the Wildfire Urban Interface, which will likely impact most of Eagle County. As proposed, local jurisdictions will have the option to adopt stricter codes, reflecting the diverse hazard ratings in the region. The state plans to release a draft code early next year, allowing for public input, which group members recognized as a crucial opportunity for community engagement. This topic and an update on the WUI Code Working Group's progress will be shared at the upcoming Mayors and Managers meeting of October 25, 2024.

MINTURN FORWARD SCHEDULE

Updated: October 9, 2024

MODULE 1
Sections of Land Use Code to be addressed… Article 5: Land Use Application Requirements & Procedures Article 8: Subdivision Application Requirements & Procedures Article 12: Environmental Impact Report
Tentative Timeframe: July- December 2024

MODULE 2
Sections of Land Use Code to be addressed… Article 2: Zone Districts Article 3: Use Regulations & Standards Article 4: Dimensional Requirements
Tentative Timeframe: August 2024- March 2025

MODULE 3
Sections of Land Use Code to be addressed… Article 6: Development/Design Standards Article 7: Subdivision Standards Article 9: Community Housing Standards and Guidelines
Tentative Timeframe: January- April 2025

MODULE 4
Sections of Land Use Code to be addressed… Article 1: General Provisions Article 10: Annexation Article 11: Disconnection of Land Article 13: Areas and Activities of State Interest Article 14: Terms & Definitions
Tentative Timeframe: February- May 2025

PLANNING COMMISSION & TOWN COUNCIL ADOPTION PROCESS
Tentative Timeframe: June- July 2025

OCTOBER 2024

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
29	30	1 **Staff Check-In Meeting** • Review/revise Draft #1 of Article 5 (First Half)	2	3 **Materials for PC Packet Due** • Draft #1 of Article 12	4	5
6	7 *Work on review and update to Zone Districts, Use Regulations, and Dimensional Requirements this week --->*	8 **Staff Check-In Meeting** • Review/revise Draft #1 of Article 5 (First Half) • Review/revise Zone Districts, Use Regs & Dimensional Requirements	9 **PC Meeting** • Review Draft #1 of Article 12	10	11 **Deadline** • Staff comments on Draft #1 of Article 5 (First Half)	12
13	14 **Deadline** • Draft #1 of Article 8 made available to staff *Work on review and update to Zone Districts, Use Regulations, and Dimensional Requirements this week --->*	15 **Staff Check-In Meeting** • Revise Draft #1 of Article 12 based on PC comments • Review/revise Draft #1 of Article 5 (First Half) • Review/revise Zone Districts, Use Regs & Dimensional Requirements	16	17 **Materials for PC Packet Due** • Draft #2 of Article 12 • Draft #2 of Article 5 (First Half)	18	19
20	21 *Work on review and update to Zone Districts, Use Regulations, and Dimensional Requirements this week --->*	22 **Staff Check-In Meeting** • Review/revise Draft #1 of Article 5 (Second Half) • Review/revise Zone Districts, Use Regs & Dimensional Requirements	23 **PC Meeting** • Review Draft #2 of Article 12 • Review Draft #2 of Article 5 (First Half)	24	25	26
27	28 *Work on review and update to Zone Districts, Use Regulations, and Dimensional Requirements this week --->*	29 **Staff Check-In Meeting** • Final revisions to Article 12 based on PC comments • Review/revise Draft #1 of Article 5 (Second Half) • Review/revise Draft #1 of Article 8 • Prep for Zoning Open Houses	30 **Deadline** • Staff comments on Draft #1 of Article 5 (Second Half)	31	1	2

NOVEMBER 2024

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	31	1 **Deadline** • Staff comments on Draft #1 of Article 8	2
3	4 *Work on prep for "Zoning Open Houses" this week --->*	5 **Staff Check-In Meeting** • Review/revise Draft #1 of Article 8 • Prep for Zoning Open Houses	6	7 **Materials for PC Packet Due** • Draft #2 of Article 5 (Second Half) • Draft #1 of Article 8	8	9

NOVEMBER 2024 (continued)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
10	11 **"Zoning Open House(s)" this week? --->**	12 **Staff Check-In Meeting**	13 **PC Meeting** • Review Draft #2 of Article 5 (Second Half) • Review Draft #1 of Article 8	14	15	16
17	18 **"Zoning Open House(s)" this week? --->**	19 **Staff Check-In Meeting** • Final revisions to Article 5 based on PC comments	20	21	22	23
24	25	26 **Staff Check-In Meeting** • Review/revise Draft #1 of Article 8 • Review/revise Draft #1 of Article 5 (Second Half) • Review/revise Zone Districts, Use Regs & Dimensional Requirements	27 **PC Meeting** • Review Draft #1 of Article 8	28 **THANKSGIVING DAY**	29	30

DECEMBER 2024

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 **Additional "Zoning Open House(s)" this week (if needed)? --->**	3 **Staff Check-In Meeting** • Revise Draft #1 of Article 8 based on PC comments • Review/revise Zone Districts, Use Regs & Dimensional Requirements	4 **Joint Work Session?** • Review organization and format of updated Code • Review key changes to Articles 5, 8 and 12	5 **Materials for PC Packet Due** • Draft #2 of Article 8	6	7
8	9	10 **Staff Check-In Meeting** • Review/revise Zone Districts, Use Regs & Dimensional Requirements	11 **PC Meeting** • Review Draft #2 of Article 8	12	13 **Deadline** • Draft #1 of Articles 2-4 made available to staff	14
15	16	17 **Staff Check-In Meeting** • Final revisions to Article 8 based on PC comments • Review/revise Draft #1 Articles 2-4	18	19	20 **Deadline** • Staff comments on Draft #1 of Articles 2-4	21
22	23	24	25 **CHRISTMAS DAY**	26	27	28
29	30	31 **NEW YEARS EVE**	1 NEW YEARS DAY	2	3	4

JANUARY 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
29	30	31	1 **Joint Work Session?** • Discuss potential zoning changes	2 **Materials for PC Packet Due** • Draft #1 of Articles 2-4	3	4
5	6 *Work on review and update to development, subdivision, and housing standards this week ---->*	7 **Staff Check-In Meeting** • Review/revise design/development and subdivision standards	8 **PC Meeting** • Review Draft #1 of Articles 2-4	9	10	11
12	13 *Continue work on review and update to standards this week ---->*	14 **Staff Check-In Meeting** • Review/revise design/development and subdivision standards	15 **Joint Work Session?** • Discuss potential zoning changes (if necessary)	16 **Materials for PC Packet Due** • To be determined	17	18
19	20 **MLK DAY** *Continue work on review and update to standards this week ---->*	21 **Staff Check-In Meeting** • Review/revise design/development and subdivision standards	22 **PC Meeting** • Review Draft #1 of Articles 2-4	23	24	25
26	27 *Continue work on review and update to standards this week ---->*	28 **Staff Check-In Meeting** • Revise Draft #1 of Articles 2-4 based on PC comments • Review/revise design/development and subdivision standards	29	30	31 **Deadline** • Draft #1 of Articles 6, 7 & 9 made available to staff	1

FEBRUARY 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	1
2	3	4 **Staff Check-In Meeting** • Revise Draft #1 of Articles 2-4 based on PC comments • Review/revise Draft #1 of Articles 6, 7 & 9	5 **Joint Work Session?** • Discuss potential changes to development, subdivision, and housing standards	6 **Materials for PC Packet Due** • Draft #2 of Articles 2-4	7	8
9	10	11 **Staff Check-In Meeting** • Review/revise Draft #1 of Articles 6, 7 & 9	12 **PC Meeting** • Review Draft #2 of Articles 2-4	13	14 **Deadline** • Staff comments on Draft #1 of Articles 6, 7 & 9	15
16	17 **PRESIDENTS DAY**	18 **Staff Check-In Meeting** • Review/revise Draft #1 of Articles 6, 7 & 9	19 **Joint Work Session?** • Discuss potential changes to development, subdivision, and housing standards (if necessary)	20 **Materials for PC Packet Due** • Draft #1 of Articles 6, 7 & 9	21	22

FEBRUARY 2025 (continued)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
23	24	25 **Staff Check-In Meeting** • To be determined	26 **PC Meeting** • Review Draft #2 of Articles 2-4 (if necessary) • Review Draft #1 of Articles 6, 7 & 9	27	28	1

MARCH 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
23	24	25	26	27	28	1
2	3	4 **Staff Check-In Meeting** • Final revisions to Articles 2-4 based on PC comments • Revise Draft #1 of Articles 6, 7 & 9 based on PC comments	5	6 **Materials for PC Packet Due** • To be determined	7 **Deadline** • Draft #1 of Articles 1, 10, 11, 13 & 14 made available to staff	8
9	10	11 **Staff Check-In Meeting** • Revise Draft #1 of Articles 6, 7 & 9 based on PC comments • Review/revise Draft #1 of Articles 1, 10, 11, 13 & 14	12 **PC Meeting** • Review Draft #1 of Articles 6, 7 & 9 (if necessary)	13	14	15
16	17	18 **Staff Check-In Meeting** • Revise Draft #1 of Articles 6, 7 & 9 based on PC comments • Review/revise Draft #1 of Articles 1, 10, 11, 13 & 14	19	20 **Materials for PC Packet Due** • Draft #2 of Articles 6, 7 & 9	21	22
23	24	25 **Staff Check-In Meeting** • Review/revise Draft #1 of Articles 1, 10, 11, 13 & 14	26 **PC Meeting** • Review Draft #2 of Articles 6, 7 & 9	27	28 **Deadline** • Staff comments on Draft #1 of Articles 1, 10, 11, 13 & 14	29
30	31	1	2	3	4	5

APRIL 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
30	31	1 **Staff Check-In Meeting** • Final revisions to Articles 6, 7 & 9 based on PC comments • Review/revise Draft #1 of Articles 1, 10, 11, 13 & 14	2	3 **Materials for PC Packet Due** • Draft #1 of Articles 1, 10, 11, 13 & 14	4	5
6	7	8 **Staff Check-In Meeting** • To be determined	9 **PC Meeting** • Review Draft #1 of Articles 1, 10, 11, 13 & 14	10	11	12
13	14	15 **Staff Check-In Meeting** • Revise Draft #1 of Articles 1, 10, 11, 13 & 14 based on PC comments	16	17 **Materials for PC Packet Due** • To be determined	18	19
20	21	22 **Staff Check-In Meeting** • Revise Draft #1 of Articles 1, 10, 11, 13 & 14 based on PC comments	23 **PC Meeting** • Review Draft #1 of Articles 1, 10, 11, 13 & 14	24	25	26
27	28	29 **Staff Check-In Meeting** • Revise Draft #1 of Articles 1, 10, 11, 13 & 14 based on PC comments	30	1	2	3

MAY 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
27	28	29	30	1 **Materials for PC Packet Due** • Draft #2 of Articles 1, 10, 11, 13 & 14	2	3
4	5	6 **Staff Check-In Meeting** • To be determined	7 **PC Meeting** • Review Draft #2 of Articles 1, 10, 11, 13 & 14	8	9	10
11	12	13 **Staff Check-In Meeting** • To be determined	14	15 **Materials for PC Packet Due** • To be determined	16	17
18	19	20 **Staff Check-In Meeting** • To be determined	21 **PC Meeting** • Review Draft #2 of Articles 1, 10, 11, 13 & 14 (if necessary)	22	23	24

MAY 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
25	26 **MEMORIAL DAY**	27 **Staff Check-In Meeting** • Final revisions to Articles 1, 10, 11, 13 & 14 based on PC comments	28	29	30	31

Minturn Land Use Code Update Budget

(updated: October 9, 2024)

	HOURS	RATE	SUBTOTAL
Land Use Code Update Prep. Work Includes: ▪ Cursory review of existing regulations and preparation of "Code Audit" with general recommendations for Code update. ▪ Research on, and preparation and presentation of educational materials regarding, different types of Land Use Codes (Traditional, Form-Based, and Hybrid). ▪ Preparation of an online survey to gather community input on important characteristics of Minturn's neighborhoods. ▪ Preparation for, and facilitation of, open houses to gather community input on important characteristics of Minturn's neighborhoods. ▪ Analysis, summation, and reporting of community input from online survey and open houses.	130.0	$135.00	$17,500.00
Module 1 Prepare a draft version and complete one (1) round of revisions to the following Articles: ▪ Article 5: Zoning Application Requirements & Procedures ▪ Article 8: Subdivision Application Requirements & Procedures ▪ Article 12: Environmental Impact Report Includes: ▪ Weekly check-in meetings with town staff. ▪ Virtual participation in up to seven (7) two-hour meetings with the Planning & Zoning Commission. ▪ In-person participation in one (1) two-hour joint work session with the Planning & Zoning Commission and Town Council.	200	$135.00/hr	$27,000.00
Module 2 Prepare a draft version and complete one (1) round of revisions to the following Articles: ▪ Article 2: Zone Districts ▪ Article 3: Use Regulations & Standards ▪ Article 4: Dimensional Requirements Includes: ▪ Weekly check-in meetings with town staff. ▪ Virtual participation in up to four (4) two-hour meetings with the Planning & Zoning Commission. ▪ In-person participation in up to two (2) two-hour joint work sessions with the Planning & Zoning Commission and Town Council. ▪ In-person participation in up to four (4) two-hour community open houses.	120.0	$135.00/hr	$16,200.00
Module 3 Prepare a draft version and complete one (1) round of revisions to the following Articles: ▪ Article 6: Development/Design Standards ▪ Article 7: Subdivision Standards ▪ Article 9: Community Housing Standards and Guidelines Includes: ▪ Weekly check-in meetings with town staff. ▪ Virtual participation in up to four (4) two-hour meetings with the Planning & Zoning Commission. ▪ In-person participation in up to two (2) two-hour joint work sessions with the Planning & Zoning Commission and Town Council.	80.0	$135.00/hr	$10,800.00

DRAFT

	HOURS	RATE	SUBTOTAL
Module 4 Prepare a draft version and complete one (1) round of revisions to the following Articles: ▪ Article 1: General Provisions ▪ Article 10: Annexation ▪ Article 11: Disconnection of Land ▪ Article 13: Areas and Activities of State Interest ▪ Article 14: Terms & Definitions Includes: ▪ Weekly check-in meetings with town staff. ▪ Virtual participation in up to four (4) two-hour meetings with the Planning & Zoning Commission. ▪ In-person participation in one (1) two-hour joint work session with the Planning & Zoning Commission and Town Council.	60.0	$135.00/hr	$8,100.00
Educational Materials Research and prepare educational materials on topics of interest related to the Land Use Code update. For example, educational materials on the pros/cons of different approaches to off-street parking regulations	40.0	$135.00/hr	$5,400.00
Update Minturn Zoning Map Create an updated Zoning Map in GIS and a large-scale (24”x36”) printable version of the updated Zoning Map.	40.0	$135.00/hr	$5,400.00
Adoption Hearings Includes: ▪ Virtual participation in up to ten (10) two-hour adoption hearings with the Planning & Zoning Commission and/or Town Council. ▪ Limited revisions to the final draft of the updated Land Use Code required by the Planning & Zoning Commission and/or Town Council.	40.0	$135.00/hr	$5,400.00
		TOTAL	$95,850.00

DRAFT

Overview of Billables to Date

(updated: October 9, 2024)

	HOURS (approximate)	% COMPLETE (approximate)	TOTAL BILLED (approximate)
Land Use Code Update Prep. Work Includes: ▪ Cursory review of existing regulations and preparation of "Code Audit" with general recommendations for Code update. ▪ Research on, and preparation and presentation of educational materials regarding, different types of Land Use Codes (Traditional, Form-Based, and Hybrid). ▪ Preparation of an online survey to gather community input on important characteristics of Minturn's neighborhoods. ▪ Preparation for, and facilitation of, open houses to gather community input on important characteristics of Minturn's neighborhoods. ▪ Analysis, summation, and reporting of community input from online survey and open houses.	127.5	100%	$17,206.28
Module 1 Work on updates to the following Articles: ▪ Article 5: Zoning Application Requirements & Procedures ▪ Article 8: Subdivision Application Requirements & Procedures ▪ Article 12: Environmental Impact Report	105.75	53%	$14,276.25
		TOTAL	$31,482.53

DRAFT

Minturn Planning Department
Minturn Town Center
301 Boulder St. #309
Minturn, CO 81645
970-827-5645
planner1@minturn.org
www.minturn.org

Minturn Planning Commission
Chair – Lynn Teach
Jeff Armistead
Michael Boyd
Amanda Mire
Eric Rippeth
Darell Wegert

Memorandum

Date: October 17, 2024
To: Minturn Planning Commission
From: Madison Harris, Planner I
Re: Planning Department Update

---

542 Main Street - Minor DRB Permit - Changes to Approved Plans
542 Main Street originally received approval for a new residence behind the existing one on September 14, 2022. The applicant and owner, Lisa Keogh, has been building the approved structure since January 11, 2023. Ms. Keogh submitted a Minor DRB application on September 30, 2024 to change the following:

1. Upgrade LP siding to scored concrete (light 3/8 stucco)
2. Update exterior lighting soffit/wall sconce to dark sky compliant
3. Update stone to slight lighter color palette
4. Update drive to paver drive rather than gravel

As the changes were mostly cosmetic in nature, staff approved this Minor DRB application on October 8, 2024. The application is attached for reference.

1014 Two Elk Lane - Minor DRB Permit - Changes to Approved Plans
1014 Two Elk Lane originally received approval to enclose a portion of the second floor deck on June 12, 2024. On September 25, 2024 the owner's representatives Sam Eckerson and Fletcher Groff applied to modify the structure slightly. The original approval had the new roof line slanting upwards to match with the existing roof line, while the new application has the roof line going straight across. This did not affect building or lot coverage, or raise the building height, and so staff accepted the application as a Minor DRB - Changes to Approved Plans. This application was approved on October 17, 2024 and is attached for reference.

185 Miles End Lane - Minor DRB Permit - Changes to Approved Plans
185 Miles End Lane originally received approval on July 10, 2024. On October 1, 2024, the representative Ms. Taylor Hermes, applied for a Minor DRB in order to remove one of the center supports for the second floor deck. This was approved October 9, 2024 and the relevant excerpts from the application are attached for reference.

186 Miles End Lane - Minor DRB Permit - Changes to Approved Plans
186 Miles End Lane originally received approval on June 26, 2024. On October 1, 2024 the representative, Ms. Taylor Hermes, applied for a Minor DRB in order to amend the landscaping, increase the stone banding at the bottom of the right elevation, and add the railing off the patio on the rear elevation. This was approved October 9, 2024 and the relevant excerpts from the application are attached for reference.

196 Miles End Lane - Minor DRB Permit - Changes to Approved Plans
196 Miles End Lane originally received approval on June 12, 2024. On October 1, 2024 the representative, Ms. Taylor Hermes, applied for a Minor DRB in order to amend the door height on the front elevation. This was approved October 9, 2024 and the relevant excerpts from the application are attached for reference.

206 Miles End Lane - Minor DRB Permit - Changes to Approved Plans
206 Miles End Lane originally received approval on July 10, 2024. On October 1, 2024 the representative, Ms. Taylor Hermes, applied for a Minor DRB in order to amend the windows on the left and rear elevations, and to change the stone banding at the upper part of the right elevation and along the rear elevation. This was approved October 9, 2024 and the relevant excerpts from the application are attached for reference.

Design Review Application

10/1/2024 2:25:36 PM

Project Information

Please ensure you are familiar with the Design Review Process Guide & Appendix B.II.A prior to filling out an application.

Project Information

Is this a Minor or Major DRB Project?: Minor

Project Name: 542 Main Street

Street Address

Address Line 1: 542 Main Street

Address Line 2:

City: Minturn

State: Colorado

Zip: 81645

Zoning: Residential

Application Request: Update Revision 1: 1. Upgrade LP siding to scored concrete (this stucco) 2. Upgrade exterior lighting soffit/wall sconces- dark sky compliant 3. Modify stone color - just color change. 4. Install paver drive over snowmelt.

Applicant Information

Name: Lisa Keogh

Mailing Address

Address Line 1: po Box 594

Address Line 2:

City: Minturn

State: Colorado

Zip: 81645

Phone: (469) 236-0034

Email: lisakeogh@thek3company.com

Is the Property Owner different than the Applicant?: No

Additional Information

Submittal Requirements (as applicable)

Lot Size:

# of Stories:

Type of Residence:

Snow Storage (sq ft):

# of Bedrooms:

Building Footprint (sq ft):

# of On-site Parking Spaces:

Total Impervious Surfaces (sq ft):

Uploads

Submittal Checklist Requirements (as applicable)

Letter of Intent

What is the purpose of the project including;

- Relevant Background
- Current Status of the Site
- All Proposed Uses and Structures
- How the Proposal Differs from what already exists
- Information regarding Easements or Dedicated Tracts, etc.

Letter of Intent: Letter of intent -minor update 9 30 24.pdf

Vicinity Map

Directional Map indicating how to get to the Property involved in the request.

- Zoning of Property

Vicinity Map:

Boundary Survey with a stamp and signature of a licensed surveyor

- Date of survey (survey date must be within 6 months of the project application date
- Right-of-way and property lines; including bearings, distances and curve information.
- Labeled ties to existing USGS benchmark.
- Property boundaries to the nearest one-hundredth (.01) of a foot accuracy. Distances and bearings and a basis of bearing must be shown. Show existing pins or monuments found their relationship to the established corner.

Elements needed on the Site Plan:

Architecture Details – Materials Board

- Windows – Placement and Color
- Doors – Placement and Color
- Siding – Type and Color
- Roof Material – Type and Color
- Paint Color

Architecture Details – Materials Board: KEOGH 542 MAIN - ARCH PERMIT SET - REV2 9-26-24 SHEETS ONLY (1).pdf

Grading and Drainage Plan

- Existing contours. Existing two-foot contours must be provided for all disturbed areas. Contours for undisturbed areas must be shown when drainage in those areas impacts the disturbed area.
- Proposed contours. Proposed two-foot contours for all disturbed areas must be shown and must demonstrate positive drainage.
- Spot elevations. Show critical spot elevations, as necessary to demonstrate positive drainage and the direction of flow. Finished grade at all building corners must be provided.
- Top-of-foundation elevations. The top-of-foundation elevation must be shown on the plan and must be consistent with the foundation plan. For buildings on slopes of thirty percent (30%) or greater, elevations for stepped foundation walls must be shown.
- Drainage arrows. Include drainage arrows that show how stormwater will be routed around buildings and where stormwater will exit the property. Stormwater cannot cause damage to any adjacent property. Drainage and erosion control features needed to prevent damage must be included.
- Drainage facilities. Proposed drainage facilities, such as French drains or culverts, must be shown.
- Retaining walls. Retaining wall details are required and must include drainage details. Note top- and bottom-of-wall elevations at each location where the retaining wall steps up or down, and include the tallest point of the retaining wall.

Grading and Drainage Plan:

Approval Page

Comments:

Applicant Signature

X I declare under penalty of perjury in the second degree that the statements made in the above application are true and complete to the best of my knowledge.

Signature: Lisa Keogh

Date: 10-01-2024

To: Madison Harris

From: Lisa Keogh

RE: 542 Main Street Updates

DATE: September 30, 2024

Hi Madison,

Per your request, the updated items are as follows:

1. Upgrade LP siding to scored concrete (light 3/8 stucco) – see attached rendering
2. Update exterior lighting soffit/wall sconce to dark sky compliant - see attached rendering & light plan.
3. Update stone to slight lighter color palette. See attached rendering
4. Update drive to paver drive rather than gravel. Does not effect impervious as gravel was accounted for in impervious measurements on final approved plan.

While I realize very very minor, I want to ensure we are following all guidelines correctly via minor review submittal. Thank you-Lisa

Lisa Keogh

KEOGH 542 MAIN

Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
9-26-24
PERMIT SET 12-19-22

MATERIALS & COLORS

METAL ROOFING - STANDING SEAM
DARK BRONZE.
WINDOW CLAD (MATCHES EXISTING HOUSE)
DARK BRONZE.

METAL PANEL - SHIPLAP WALL
BRDGERSTEEL - COLOR: DARK BRONZE.

WOOD SIDING VERTICAL:
VINTAGE WOODS 1X6 KILN DRIED
COLOR - TABACCO
SOFFIT TO MATCH

FASCIA, TRIM, BELLYBAND, RIM:
COLOR - DARK BRONZE
STEEL COLUMNS AND BEAMS
COLOR - DARK BRONZE

STUCCO W/ BLACK REGLETS
COLOR - BM SILVER SATIN

STONE -
ASHLAR RANDOM PATTERN,
HORZONTAL
COLOR - LIGHT GRAY

PROJECT DESCRIPTION

A Single-Family Residece proposed to be added to existing small cabin.
* Style: Modern w/ butterfly roof.
* Footprint: Tight to setbacks and easements. Walk-out basement.
* Structure: Exposed Steel Structure.

CODE SUMMARY

This project falls under the jursidiction of:
Minturn Design Review Board and Building Department
The 2015 International Residential Code (IRC 2015)
The 2015 International Energy Conservation Code (IECC 2015)
Minturn Municipal Code including adopted amendments

Class of Work:	New Construction
Type of Occupancy:	R-3 (Single-Family)
Type of Construction:	Type V-b (Non-Sprinklered)
Levels:	3-story

FIRE DEPT. SUMMARY

Minturn Fire Dept. Notes:
Smoke Detectors and Carbon Monoxide alarms must be installed IN ALL DWELLING UNITS, and be installed per 2015 IFC and VFES fire alarm installation standards.

VICINITY MAP

NOTE: RENDERINGS ARE ARTISTIC REPRESENTATIONS OF THE HOUSE DESIGN AND ARE NOT MEANT TO ACCURATELY DEPICT LANDSCAPING.

ARCHITECTURAL SHEET LIST

Sheet #	Sheet Name
A0.0	COVER SHEET
A0.1	ECO SHEET
A0.2	AREA PLANS
A1.1	SITE PLAN + LANDSCAPE PLAN
A1.2	DEMO SITE PLAN + LIGHTING
A1.3	SITE PLAN - UTILITIES
A2.1	LOWER LEVEL PLAN
A2.2	MAIN LEVEL PLAN
A2.3	UPPER LEVEL PLAN
A2.4	ROOF PLAN
A3.1	EXTERIOR ELEVATIONS
A3.2	EXTERIOR ELEVATIONS
A3.3	EXTERIOR ELEVATIONS
A4.1	BUILDING SECTIONS
A4.2	BUILDING SECTIONS
A4.3	STAIR SECTIONS
A5.0	DETAILS/SCHEDULES
A5.1	DETAILS
A6.1	CEILING PLAN - LOWER LEVEL
A6.2	CEILING PLAN - MAIN & UPPER
A7.1	INTERIOR ELEVATIONS
AD1	SECTION - SITE STAIR
AD2	Unnamed

STRUCTURAL SHEET INDEX

S1.0	GENERAL NOTES
S2.0	FOUNDATION PLAN ,DETAILS, NOTES
S3.0	MAIN LEVEL FRAMING PLAN
S4.0	UPPER LEVEL FRAMING PLAN
S5.0	ROOF FRAMING PLAN
S6.0	DETAILS

PROJECT INFORMATION

Location:	542 Main Street - Minturn, CO
Legal:	BOOCO 2nd, Block 3, Lot 4
Parcel:	2103-263-01-013
Owner:	Lisa Keogh 542 Main Street, Minturn, CO 469-236-0034 stonebriarcc@aol.com
Architect:	John G Martin, Architect, LLC PO Box 4701, Eagle, CO 81631 970-328-0592 john@martinmanleyarchitects.com
Structural Engineer:	Robinson Usagani, P.E. **Sagan Design** www.sagandesign.com (303) 506-0925
General Contractor:	Lisa Keogh and team

ZONING SUMMARY

Zoning: Minturn - Old Town Residential Zone

SEE SHEET A0.2 - AREA PLANS AND AREA SUMMARIES

Lot Area: .197 acres = **8,581.3 s.f.** **(See Amended Final Plat which adds the Quiet Title Area)**

Permitted Uses: Single-Family dwelling, Duplex Dwelling, 1 Accessory Unit

Habitable Area Allowed:	No Maximum Required.	
Habitable Area Existing:	1,103.5 s.f.	
Habitable Area New:	2,575.8 s.f.	
Habitable Area TOTAL:	**3,680 s.f. (Habitable)**	**3,902 s.f. (Gross)**
Lot Coverage Allowed:	3,861.5 s.f. (45% of Lot Area)	
Lot Coverage Proposed:	**2,935 s.f. (34% of Lot Area)**	
Impervious Allowed:	4,719.7 s.f. (55% of Lot Area)	
Impervious Proposed:	**4,525 s.f. (52% Lot Area)**	
Height Maximum:	28'-0" (to midpoint of pitched roof)	
Height Proposed:	**27'-7 1/2"**	
Parking Required:	3 spaces	
Parking Proposed:	**3 outside spaces**	

Setbacks: Front = 10 ft, Side = 5 ft. Rear = 10 ft.
Live Stream Setback = 30 ft. from high-water mark

REVISION SUMMARY

REV 1. 1-25-23 AREA CALCS UPDATED FOR AMENDED PLAT NUMBERS. GRAVEL DRIVE, SIDEWALKS CAN REMAIN. DOORS AND WINDOWS UPDATED.

REV 2. 9-26-24 EXTERIOR MATERIALS REVISIONS, LIGHTING REVISIONS, DRIVEWAY PAVERS ADD

MARTIN MANLEY ARCHITECTS
970.328.5151 OFFICE
PO Box 1587, Eagle, CO 81631
www.martinmanleyarchitects.com

REVISIONS

No.	Description	Date
1	Revision 1	1-25-23
2	Revision 2	9-26-24

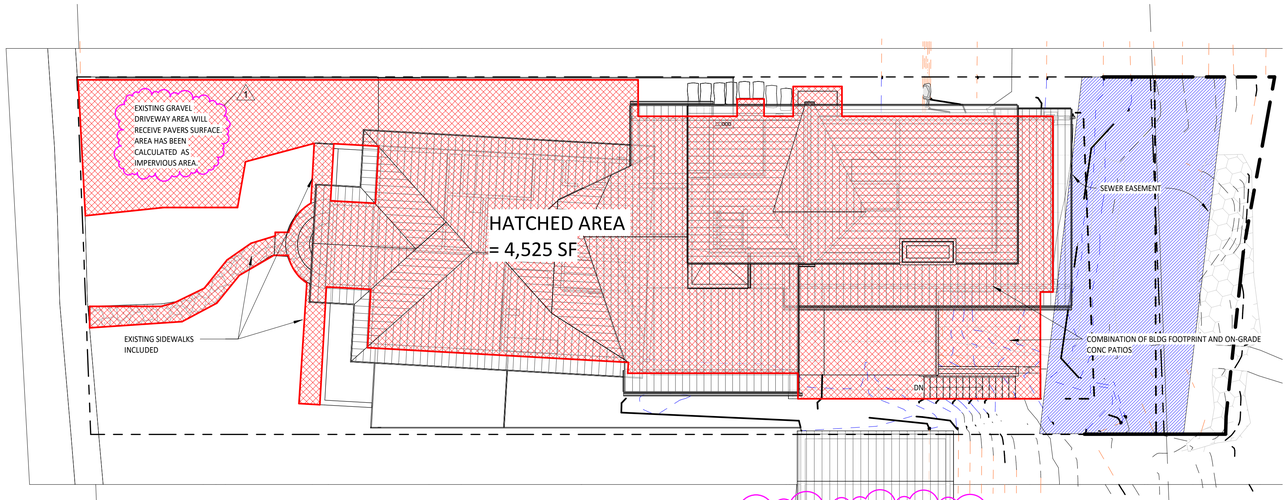
Lisa Keogh
KEOGH 542 MAIN
Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

STATE OF COLORADO JOHN G. MARTIN 203142 LICENSED ARCHITECT

Date : 9-26-24
Project Number: JG-2206
COVER SHEET
A0.0

9/26/2024 2:07:55 PM

MAIN STREET / U.S. HIGHWAY 24
Right of Way



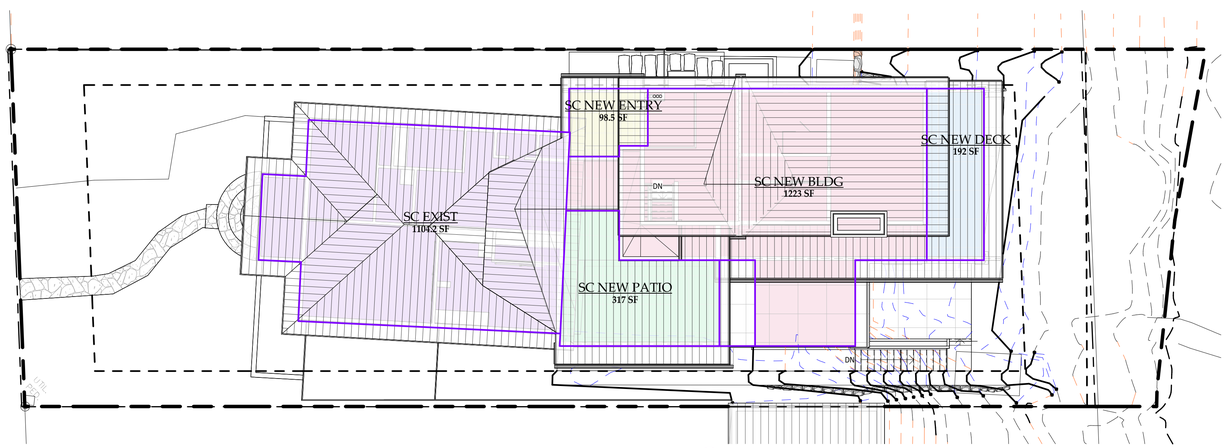
IMPERVIOUS SURFACE AREA - DEFINITION:

Impervious surface area means any material that prevents absorption of water into the ground. The area of the lot covered by the following shall be considered as impervious surface in all character areas:
a. The principal building, excluding roof overhangs.
b. All accessory buildings, parking garages, carports and sheds.
c. Porches, stairways, decks, elevated walkways, sheds and other structures, together with paved areas or areas otherwise covered with materials impervious to water.
d. Parking areas, sidewalks and driveways regardless of surface materials.

IMPERVIOUS LOT COVERAGE:
MAXIMUM = 55% OF LOT AREA = 8,581.3 SF X .55 = 4,719.7 SF
PROPOSED IMPERVIOUS = **4,525 SF** (CONFORMING)

5 IMPERVIOUS LOT COVERAGE
1" = 10'-0"

MAIN STREET / U.S. HIGHWAY 24



BUILDING LOT COVERAGE - DEFINITION:

Building lot coverage means the portion of a lot that is covered by buildings, including all interior space including garages, and all enclosed cantilevered portions of a building, covered porches, covered walkways and similar covered areas. Buildings are measured at the outside exterior wall. Additionally, fifty percent (50%) of the total area of second- and third-level decks shall be counted towards the allowable building lot coverage. Second- and third-level decks that cover a portion of a building that has already been counted towards the allowable lot coverage shall not count towards the total lot coverage. Second- and third-level decks that are structurally supported from the ground level shall have their entire area counted towards the allowable lot coverage.

BUILDING LOT COVERAGE :
MAXIMUM = 45% OF LOT AREA = 8,581.3 SF X .45 = 3,861.5 SF
PROPOSED LOT AREA = 2,935 SF (CONFORMING)

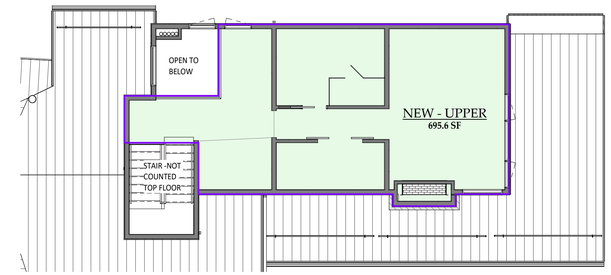
AREAS - SITE COVERAGE	
Name	Area
SC EXIST	1104.2 SF
SC NEW BLDG	1223 SF
SC NEW PATIO	317 SF
SC NEW ENTRY	98.5 SF
SC NEW DECK	192 SF
Grand total: 5	2934.7 SF

4 BUILDING LOT COVERAGE
1" = 10'-0"

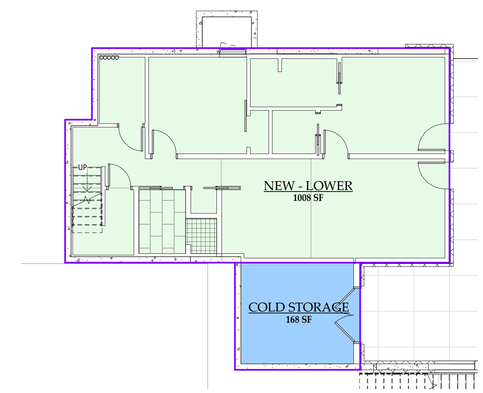
AREAS - GROSS	
Name	Area
NEW - UPPER	695.6 SF
NEW - LOWER	1008 SF
NEW - MAIN	872.3 SF
EXIST - MAIN	1103.5 SF
COLD STORAGE	168 SF
CONNECTOR	54.9 SF
Grand total: 6	3902.2 SF

AREAS - NEW	
Name	Area
NEW - UPPER	695.6 SF
NEW - LOWER	1008 SF
NEW - MAIN	872.3 SF
Grand total: 3	2575.8 SF

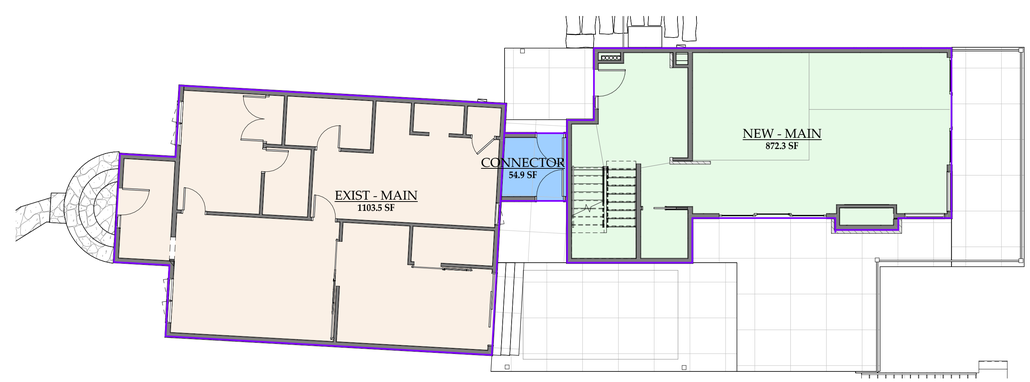
AREAS - EXISTING	
Name	Area
EXIST - MAIN	1103.5 SF
Grand total: 1	1103.5 SF



3 NEW UPPER AREA
1/8" = 1'-0"



1 NEW LOWER AREA
1/8" = 1'-0"



2 NEW MAIN AREA
1/8" = 1'-0"

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REVISIONS

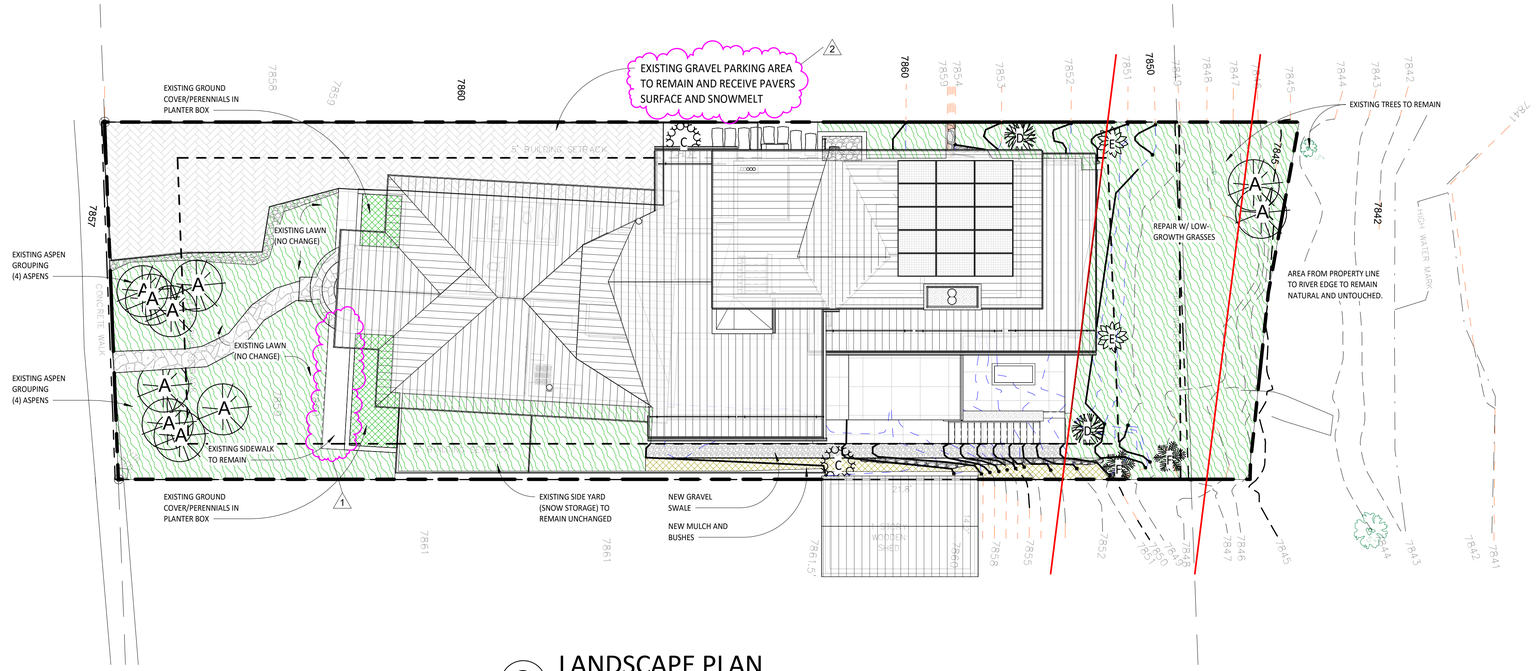
No.	Description	Date
1	Revision 1	1-25-23

Lisa Keogh
KEOGH 542 MAIN
Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

STATE OF COLORADO JOHN G. MARTIN 203142 LICENSED ARCHITECT

Date	9-26-24
Project number	JG-2206
	AREA PLANS
	A0.2

9/26/2024 2:07:56 PM



2 LANDSCAPE PLAN

1" = 10'-0"

LANDSCAPE LEGEND

SYMBOL	NAME	SIZE	QUANTITY
A	QUAKING ASPEN (POPULUS TREMULOIDES)	2.5" - 3" CAL. (50% CLUMPS)	4
C	WESTERN SANDCHERRY (PRUNUS BESSEYI)	5 GALLON	2
D	VANHOUTTE SPIREA (SPIREA VANHOUTTE)	5 GALLON	2
E	LILAC FRAGRANT (SYRINGA VULGARIS)	5 GALLON	2
F	REDLEAF BARBERRY (ATROPURPUREA)	5 GALLON	2

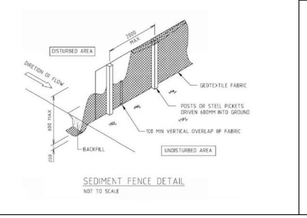
	NATURAL GRASSES (LOW GROWTH)	AREA = 2,500 S.F.
	GROUND COVER + PERENNIALS	AREA = 685 S.F.
	GRAVEL OR SMALL ROCK	AREA = 125 S.F.
	MULCH - GARDEN COMPOSTE + WOOD CHIPS	AREA = 700 S.F.

LANDSCAPE NOTE:
ALL DISTURBED AREAS SHALL RECIEVE REVEGETATION SEEDING WITH NATURAL GRASSES AND WILDFLOWER SEED MIX.
THE NATIVE GRASS SEED MIX:
65% BUFFALOGRASS, 20% NATIVE BLUE GRAMMA, 15% PERENNIAL RYEGRASS BLEND.

IRRIGATION NOTE:
ALL AREAS OF NEW SOD TO RECIEVE SPRAY IRRIGATION.
ALL AREAS OF GROUND COVER AND TREE/SHRUB PLANGINGS TO RECEIVE UNDER-GROUND DRIP IRRIGATION.
ALL IRRIGATION SYSTEMS TO BE DESIGNED BY A LANDSCAPE CONTRACTOR AND SUBMITTED TO THE ARCHITECT AND OR OWNER FOR APPROVAL PRIOR TO INSTALLATION.
THE CURRENT IRRIGATION SYSTEM HAS 6 ZONES AND THE MAIN TRUNK LINE RUINS ALONG THE SOUTH SIDE FENCE LINE. THE NEW LANDSCAPE PLAN WILL REDISTRIBUTE THE 6 ZONES.

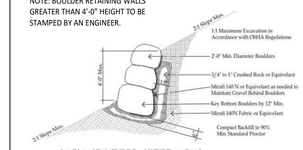
RAIN SENSOR NOTE:
THE IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN SENSOR.

EROSION CONTROL NOTE:
ALL DISTURBED AREAS WITHOUT FORMAL LANDSCAPING TO RECIEVE REVEGETATION SEEDING. EROSION CONTROL SHALL BE MAINTAINED BY PLACEMENT OF HAY BAILS AND SILT FENCING ON DOWNSLOPE SIDE OF LOT AND IN DRAINAGE SWALES.



BOULDER WALL DETAIL

NOTE: BOULDER RETAINING WALLS GREATER THAN 4'-0" HEIGHT TO BE STAMPED BY AN ENGINEER.



3 LANDSCAPE LEGEND

1" = 10'-0"

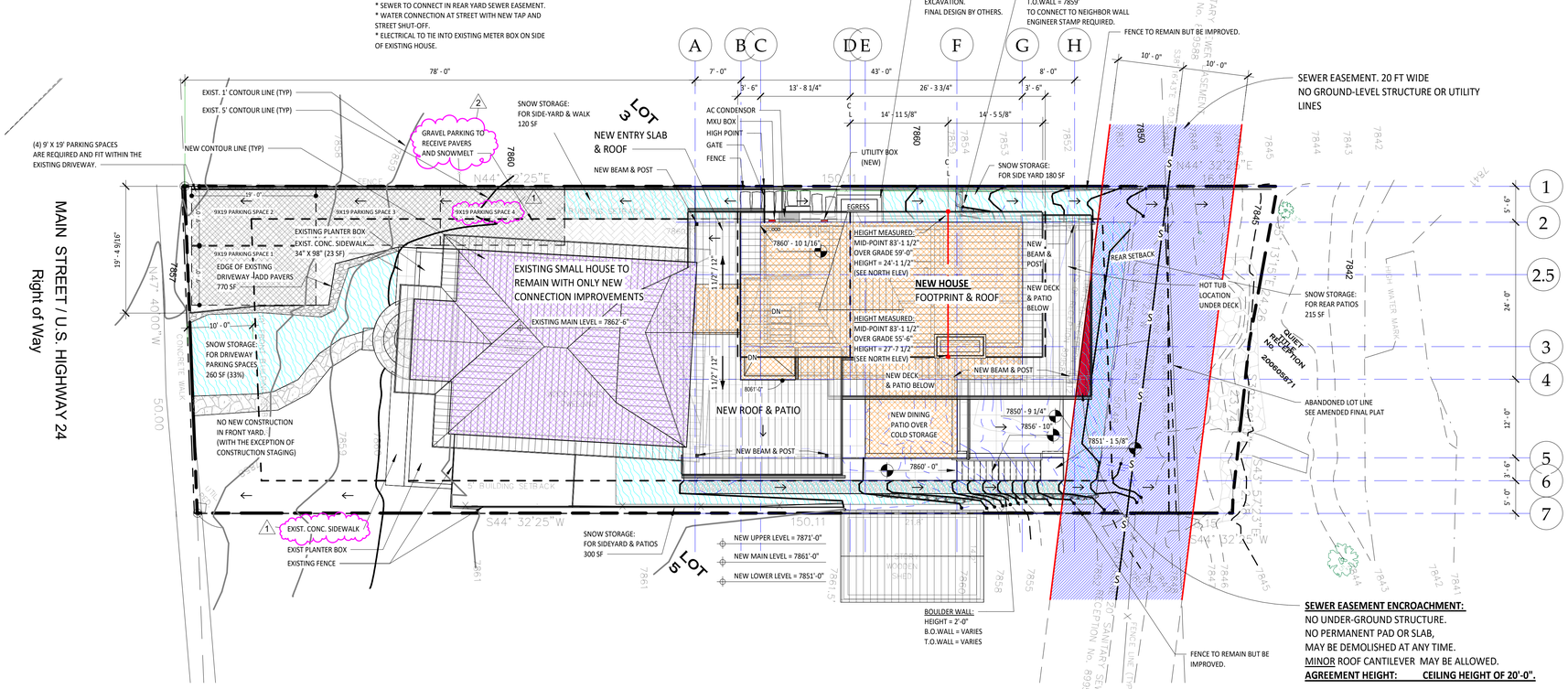
UTILITY NOTES:
* SEWER TO CONNECT IN REAR YARD SEWER EASEMENT.
* WATER CONNECTION AT STREET WITH NEW TAP AND STREET SHUT-OFF.
* ELECTRICAL TO TIE INTO EXISTING METER BOX ON SIDE OF EXISTING HOUSE.

WINDOW WELL REQUIRES SPECIAL ENGINEERING AND EXCAVATION. FINAL DESIGN BY OTHERS.

BOULDER WALL: HEIGHT = 5'-0"
B.O.WALL = 7854'
T.O.WALL = 7859'
TO CONNECT TO NEIGHBOR WALL ENGINEER STAMP REQUIRED.

FENCE TO REMAIN BUT BE IMPROVED.

SEWER EASEMENT. 20 FT WIDE NO GROUND-LEVEL STRUCTURE OR UTILITY LINES



SEWER EASEMENT ENCROACHMENT:
NO UNDER-GROUND STRUCTURE.
NO PERMANENT PAD OR SLAB,
MAY BE DEMOLISHED AT ANY TIME.
MINOR ROOF CANTILEVER MAY BE ALLOWED.
AGREEMENT HEIGHT: CEILING HEIGHT OF 20'-0".

1 0 SITE PLAN

1" = 10'-0"

TOTAL SNOW STORAGE SHOWN ON SITE PLAN = 1,075 SF

0' 5' 10' 20' 40'

ACTUAL NORTH

PROJECT NORTH

SNOW STORAGE

Sec. 16-16-130. - Snow storage.
Adequate space shall be provided for storage of snow removed from pedestrian and vehicular ways, parking and loading spaces on any property that contains commercial or industrial uses, multi-family units, single-family units, duplexes and a common outdoor parking area.

(1) Minimum area. A designated area sufficient to store snow for the entire parking area shall be provided. A minimum of five percent (5%) of the total area of the required off-street parking and loading area, inclusive of driveways, shall be designated to serve as a snow storage area.

(2)Storage in parking spaces prohibited. Snow shall not be stored within required parking spaces, except on an emergency basis for a period not to exceed forty-eight (48) hours.

(3)Storage in yards and open spaces permitted. Snow may be stored in required yards and open space, including landscaped areas properly designed for snow storage. Snow stored in a required yard or open space shall not restrict access or circulation or to obstruct views of motorists.

(4)Drainage. Adequate drainage shall be provided for the snow storage area to accommodate snowmelt and to ensure it does not drain onto adjacent property.

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REVISIONS

No.	Description	Date
1	Revision 1	1-25-23
2	Revision 2	9-26-24

Lisa Keogh
KEOGH 542 MAIN
Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

STATE OF COLORADO JOHN G. MARTIN 203142 LICENSED ARCHITECT

Date	9-26-24
Project number	JG-2206
SITE PLAN + LANDSCAPE PLAN	A1.1

9/26/2024 2:07:57 PM

EXTERIOR LIGHTING LEGEND

LIGHT FIXTURE A - WALL SCONCE

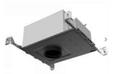
Modern Forms Midnight 16" High Black Dark Sky LED Outdoor Wall Light

16" high x 5.5" wide. Extends 2.25" from the wall. Weighs 5.1 lbs. 17 watt built-in LED array. 415 lumens. Color temperature choice of 3000K, 3500K, or 4000K. Factory preset to 3000K. 90 CRI. LED is dimmable.
Midnight LED outdoor wall light from the Modern Forms brand. Black finish frame. Metal construction.
ADA compliant. A Dark Sky outdoor wall light, with light being directed to the ground, not the sky. Dark Sky regulations vary by region, so please check with your local municipality for requirements.
Wet location rated for outdoor use in areas that get full exposure to rain and weather. Can be installed vertically or horizontally.

LIGHT FIXTURE B - EXISTING WALL SCONCE

See photo.

LIGHT FIXTURE C - RECESSED CAN



Product Description
The Entra Adjustable New Construction Housing is part of a family that delivers cost-effective products to meet residential and commercial budget-sensitive projects. Features a 90+ CRI and is Energy Star and T24 rated. Comes with 4 color temperature options that includes 20,40, and 65 degree interchangeable optics. Includes a unique tool-free hot-aiming 30 degree tilt and 359 degree rotation.

Details

- Designed in 2018
- Hot-aiming (30 degree tilt; 359 degree rotation)
- Includes 20 and 65 degree optics (included)
- Accepts 2 optical controls
- 3-step color binning
- Material: Aluminum
- Housing Type: New Construction - IC
- Lighting Style: Downlight
- Location Rating: ETL Listed
- Title 24 Compliant: This design is compliant with California's *expensive* Title 24 energy use regulations.
- ENERGY STAR® Certified: Rated energy efficient by the Environmental Protection Agency.
- Not OK for Outdoor Use
- Assembly Required: No
- Made In China

Lighting

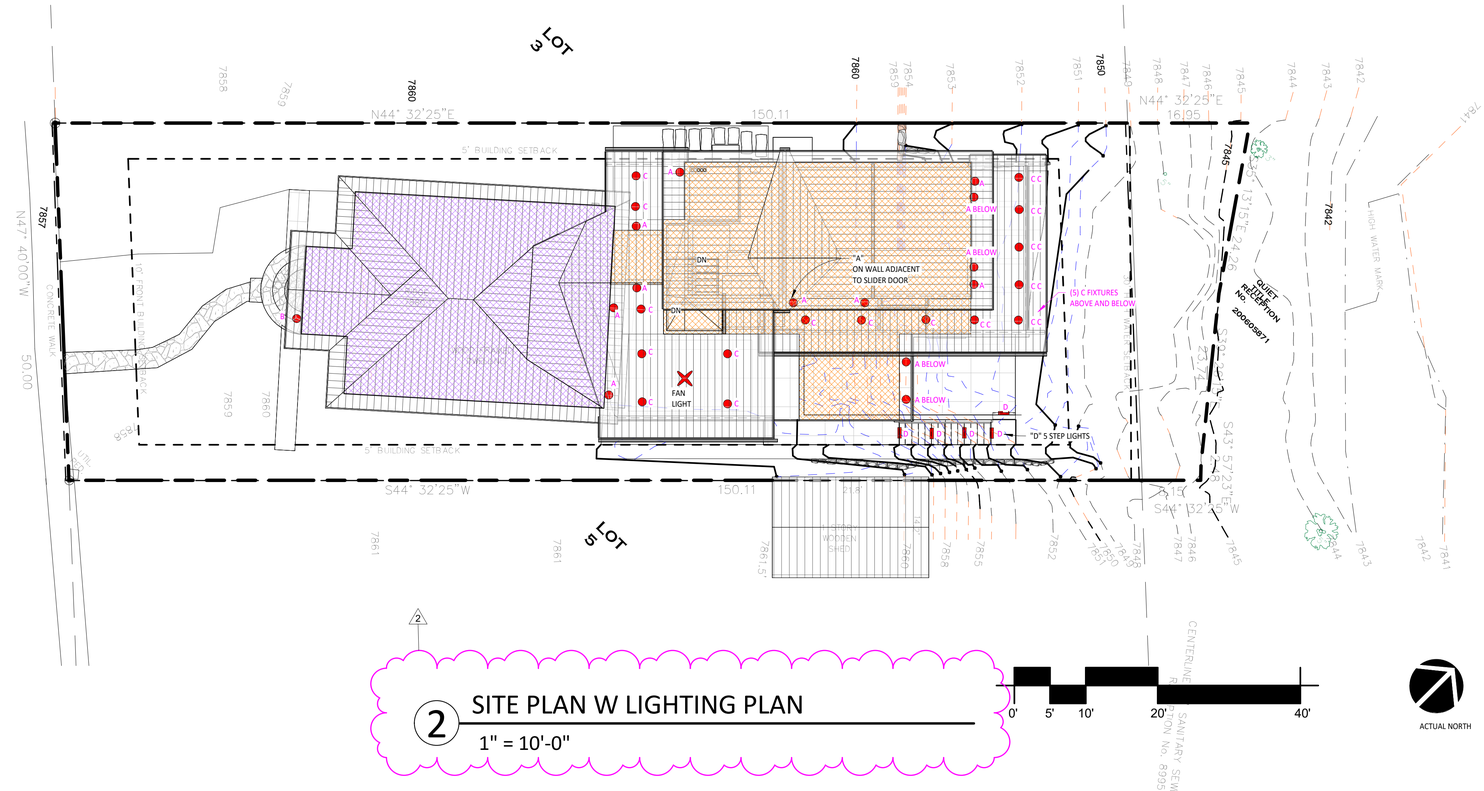
Lamp Type	LED Built-in	**Color Temp**	4000 (Cool)
Total Lumens	1060	**CRI**	90
Total Watts	12.00	**Equivalent Wattage, CFL or LED Bulb Can Be Used**	No
Volts	120 /277 Volt		

LIGHT FIXTURE D - STEP LIGHT

LAMPS PLUS: WAC LEDme 5" BLACK HORIZONTAL 3000K LED STEP LIGHT STYLE # 41K67

5" wide x 3" high x 1 1/2" deep. Weighs 0.78 lbs.
Built-in dimmable 2 watt LED. 68 lumens, comparable to a 15 watt incandescent. 3000K. 90 CRI. 50-degree beam spread.
High powered LED. Input: 9-15V AC. Power: 2W (3VA).
Low voltage - 12V. LED averages 60,000 hours at 3 hours per day.
Horizontal step and wall light from the LEDme collection by WAC Lighting.

FIXTURE TYPE	NUMBER
A	13
B	1
C	22
D	5
TOTAL	36

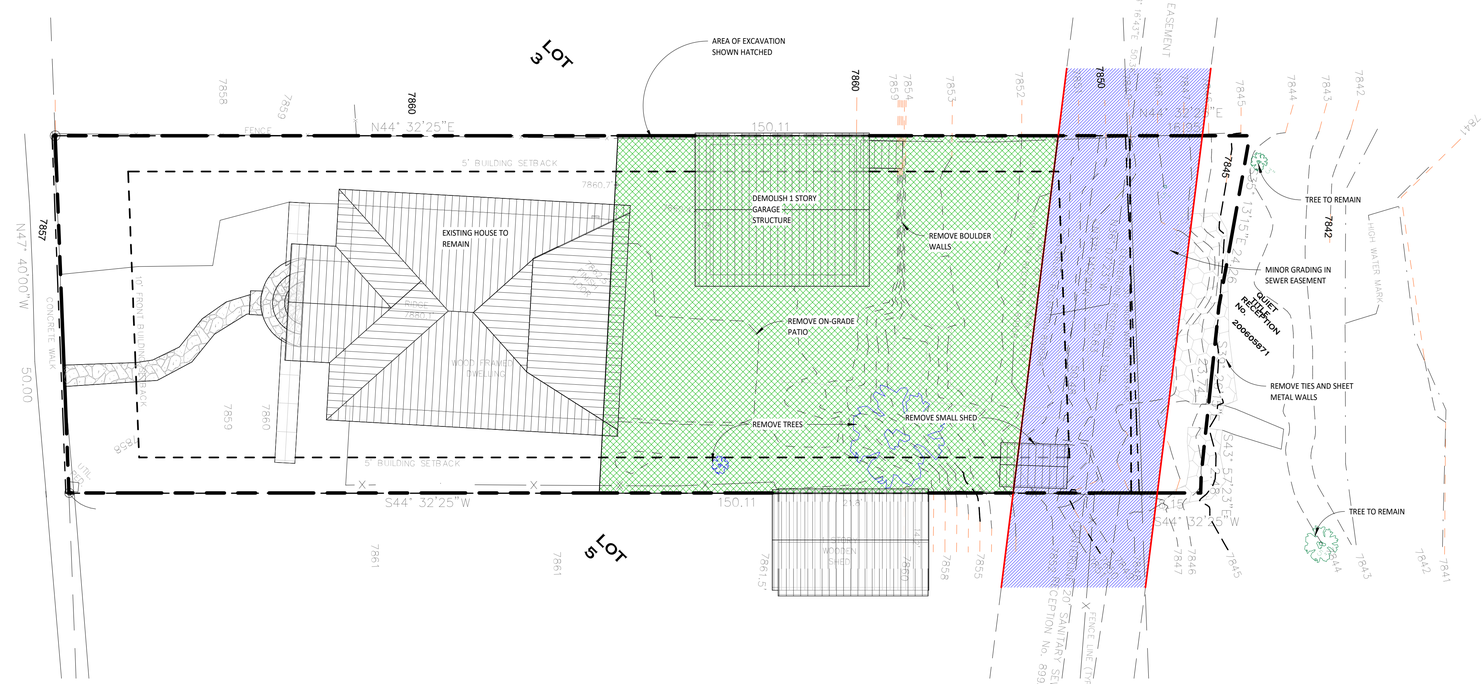


2 SITE PLAN W LIGHTING PLAN

1" = 10'-0"

0' 5' 10' 20' 40'

ACTUAL NORTH PROJECT NORTH



1 DEMO SITE PLAN

1" = 10'-0"

0' 5' 10' 20' 40'

ACTUAL NORTH PROJECT NORTH

9/26/2024 2:07:58 PM

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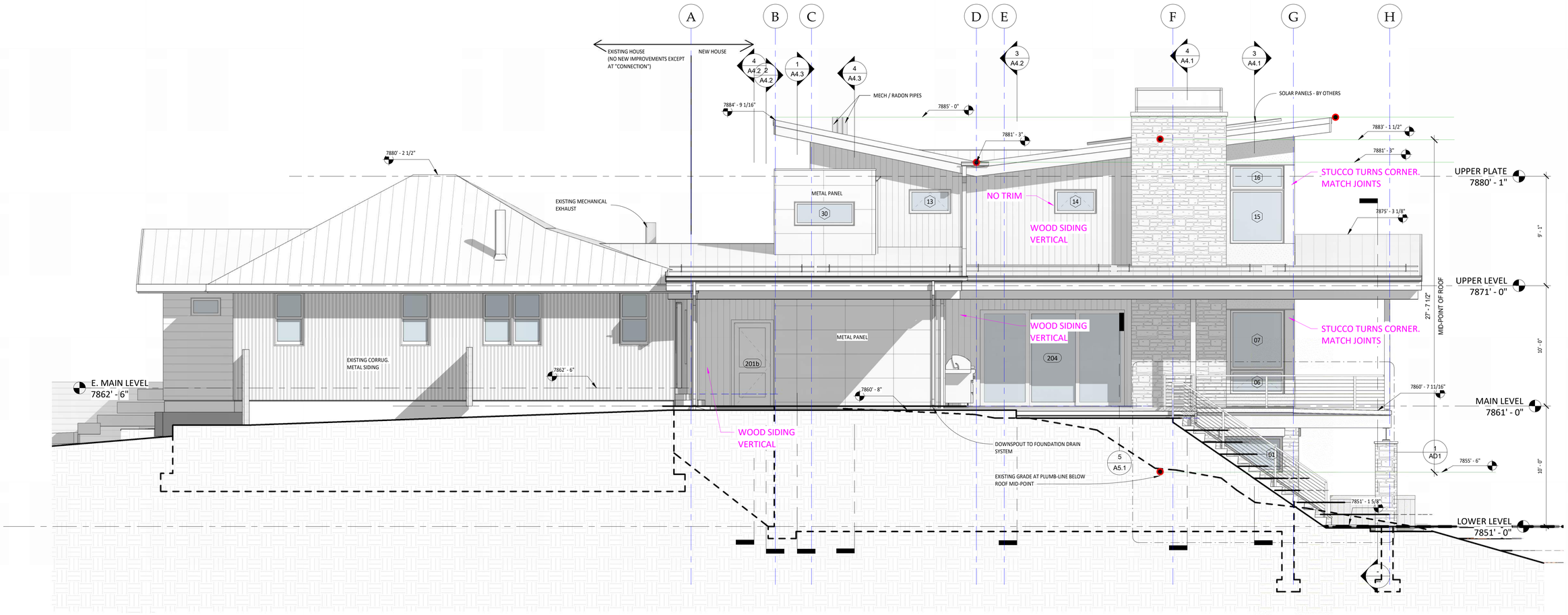
REVISIONS		
No.	Description	Date
2	Revision 2	9-26-24

Lisa Keogh
KEOGH 542 MAIN
Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

STATE OF COLORADO JOHN G. MARTIN 203142 LICENSED ARCHITECT

Date	9-26-24
Project number	JG-2206
DEMO SITE PLAN + LIGHTING	A1.2



2

1 ELEVATION - LOOKING NORTH

1/4" = 1'-0"

0' 2' 4' 8' 16'

9/26/2024 2:08:01 PM

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REVISIONS

No.	Description	Date
2	Revision 2	9-26-24

Lisa Keogh

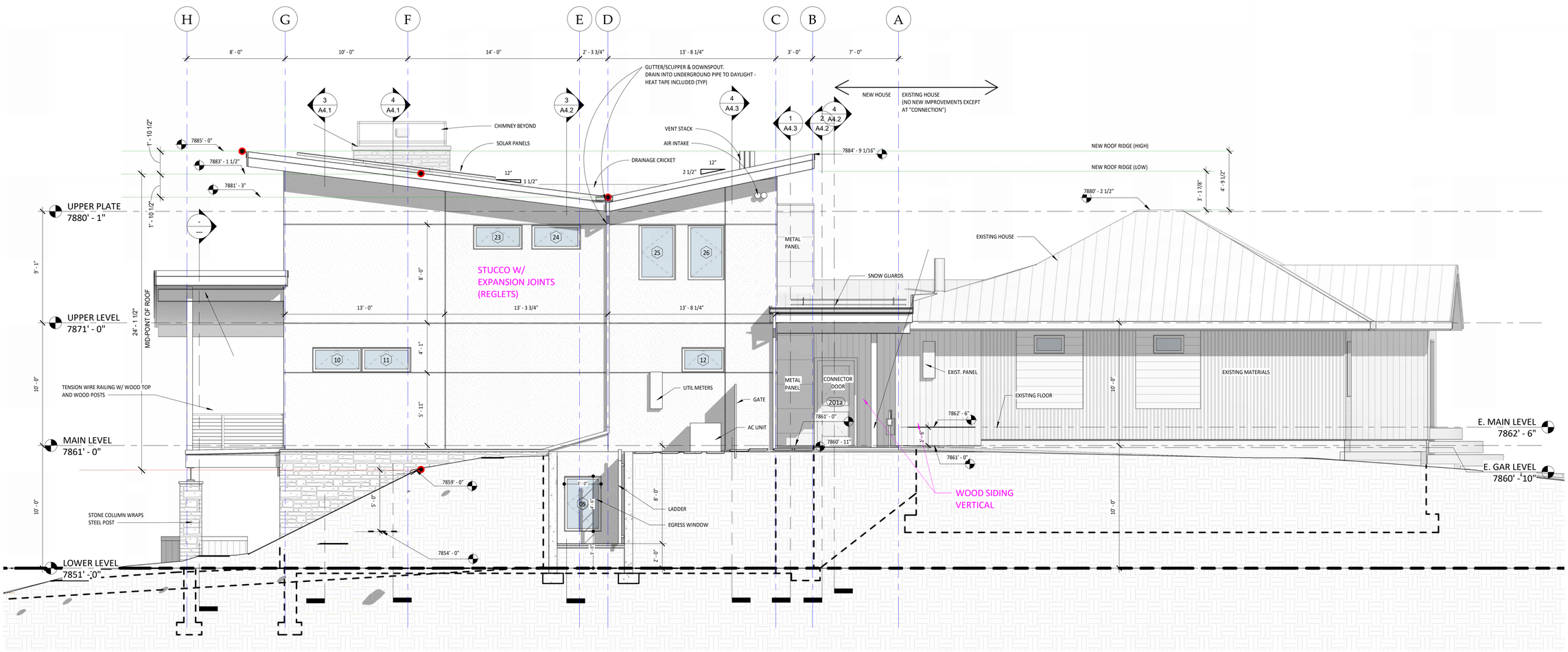
KEOGH 542 MAIN

Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

STATE OF COLORADO
JOHN G. MARTIN
203142
LICENSED ARCHITECT

Date	9-26-24
Project number	JG-2206
EXTERIOR ELEVATIONS	

A3.1



1 ELEVATION - LOOKING SOUTH

1/4" = 1'-0"

9/26/2024 2:08:03 PM

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REVISIONS		
No.	Description	Date
2	Revision 2	9-26-24

Lisa Keogh

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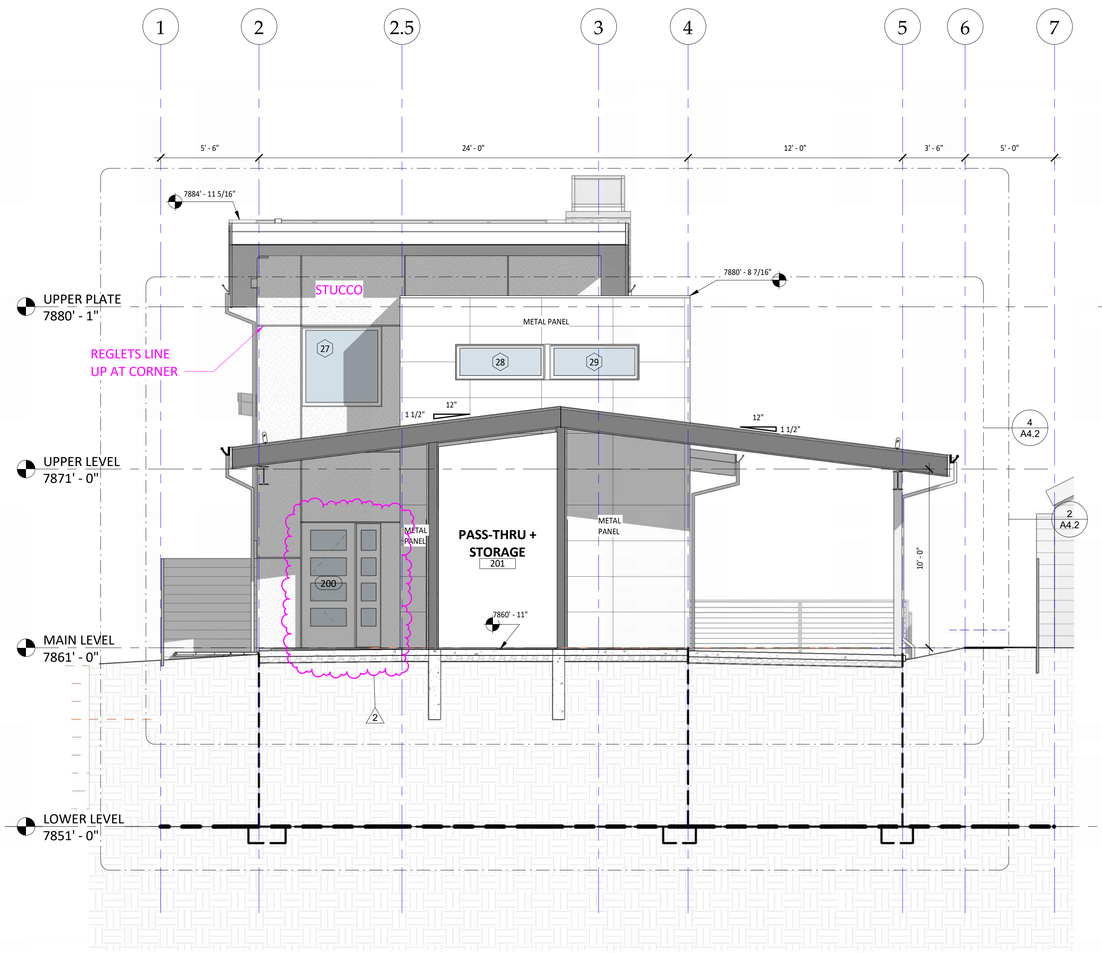
Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

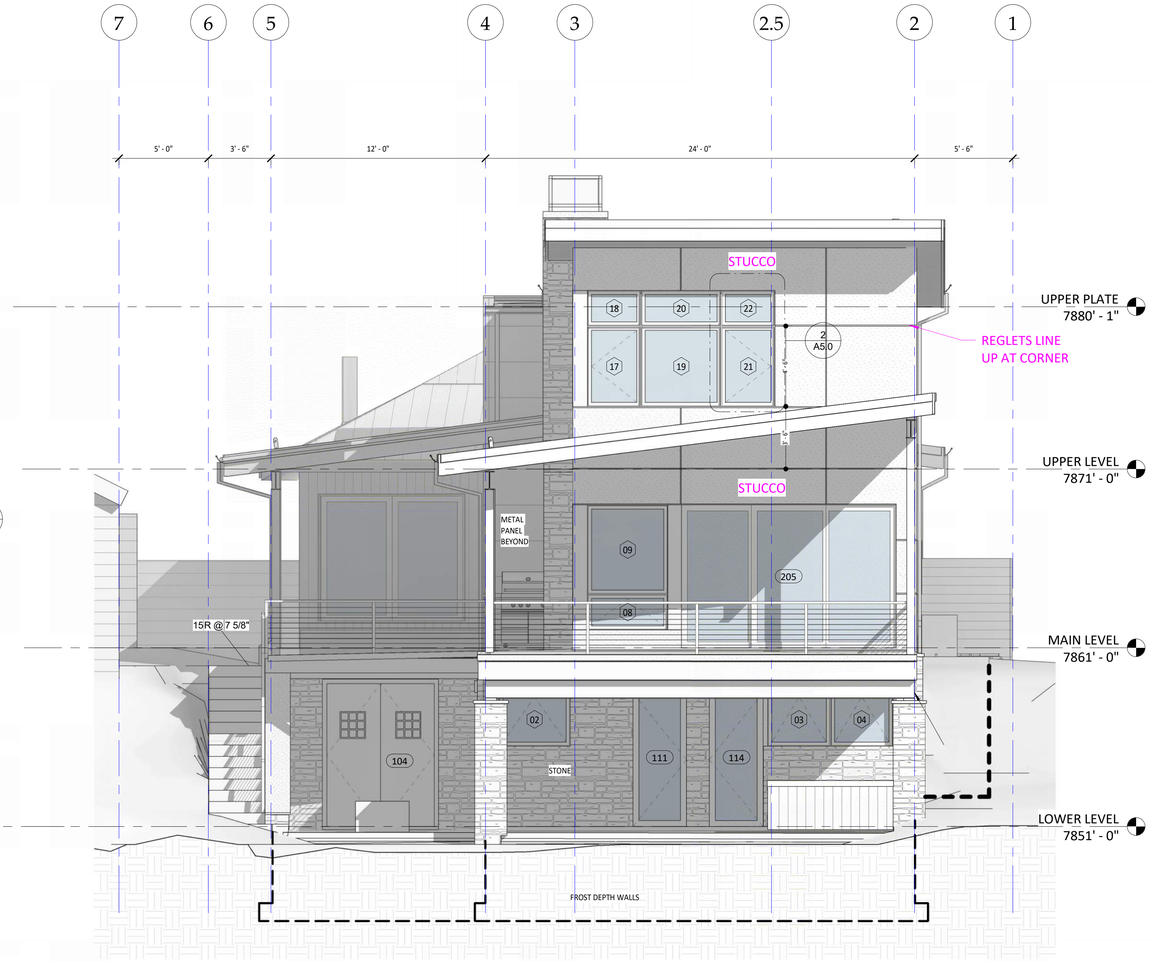
STATE OF COLORADO JOHN G. MARTIN 203142 LICENSED ARCHITECT

Date	9-26-24
Project number	JG-2206
EXTERIOR ELEVATIONS	A3.2



1 ELEVATION - LOOKING EAST

1/4" = 1'-0"



2 ELEVATION - LOOKING WEST

1/4" = 1'-0"

0' 2' 4' 8' 16'

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REVISIONS		
No.	Description	Date
2	Revision 2	9-26-24

Lisa Keogh

KEOGH 542 MAIN

Lot 4, Block 3, Booco's 2nd Addition
Town of Minturn, Colorado 81645
PERMIT SET 12-19-22

STATE OF COLORADO JOHN G. MARTIN 203142 LICENSED ARCHITECT

Date	9-26-24
Project number	JG-2206
EXTERIOR ELEVATIONS	

A3.3

9/26/2024 2:08:07 PM

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner1@minturn.org

Project Name:

1014 TWO ELK LANE

Project Location

Street Address: 1014 TWO ELK LANE, MINTURN, CO 81645

Zoning: CROSS CREEK	Parcel Number(s): 2103-363-10-005

Application Request:

MAJOR CONSTRUCTION

Applicant:

Name: ADAM MINNICK

Mailing Address: 452 LEYDEN STREET, DENVER, CO 80220

Phone: (303) 319-6778	Email: aminnick@stonetowncapital.com

Property Owner:

Name: ADAM MINNICK

Mailing Address: 452 LEYDEN STREET, DENVER CO 80220

Phone: (303) 319-6778	Email: aminnick@stonetowncapital.com

Required Information:

Lot Size: .13 acres	Type of Residence (Single Family, ADU, Duplex) DUPLEX	# of Bedrooms 8	# On-site Parking Spaces 6
# of Stories: 2	Snow storage sq ft:	Building Footprint sq ft: 2363	Total sq ft Impervious Surface: 2986

Signature:

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

Fletcher Groff
The Groff Company, LLC
1036 Polar Star Dr.
Eagle, CO, 81631
14th December 2023

Madison Harris
Planner 1, Town of Minturn
302 Pine St
Minturn, CO 81645

To Whom it May Concern,

This letter serves as the Statement of Intent for the renovation of 1014 Two Elk Lane, in Minturn, Colorado, parcel number 2103-363-10-005.

I am acting as Agent to the Owners of the above referenced duplex, who plan on enclosing a portion of the existing second-floor deck to interior space. There is no proposed work on the basement or ground-level floors, or any work proposed to the site.

The design has been developed to gain space for the second-floor dining room and a small office on the south east side of the unit. The renovation will capture approximately 98 square feet of the existing deck by moving the existing double-door wall 9' south.

The design has been developed to match and/or directly tie into existing conditions wherever possible, such as modifying the existing flat roof to tie into the existing shed roof, and matching sill and head heights of existing windows. All new exterior finishes will match existing materials on the building.

Sincerely,

Fletcher Groff

VIEW OF PROPOSED PROJECT

DRAWING INDEX

	ISSUES AND REVISIONS	3.11.2024 FOR PRICING	4.12.2024 DESIGN REVIEW	6.14.2024 FOR PERMIT	7.3.2024 REVISION 1	9.12.2024 DESIGN REVIEW
●	NEW DRAWING					
◑	REVISED DRAWING					
○	REISSUED DRAWING w/ NO CHANGES					
–	OMITTED					
GENERAL DRAWINGS						
A0.0	COVER SHEET	●	○	◑	◑	◑
A0.1	GENERAL NOTES & IECC COMPLIANCE			●	◑	○
A0.2	VICINITY MAP		●	○		○
A0.3	SURVEY		●	○		○
ARCHITECTURAL DRAWINGS						
A1.0	SITE PLANS	●	○	○		○
A2.0	BASEMENT LEVEL PLAN	●	○	○		○
A2.1	LOWER LEVEL PLANS	●	○	○		○
A2.2	UPPER LEVEL PLANS	●	○	◑	◑	○
A2.3	ROOF PLANS	●	○	◑		◑
A2.4	REFLECTED CEILING PLANS	●	○	◑		◑
A3.0	EXTERIOR ELEVATIONS	●	○	◑		◑
A3.1	EXTERIOR ELEVATIONS	●	○	◑		◑
A3.2	EXTERIOR ELEVATIONS	●	○	○		○
A3.3	EXTERIOR ELEVATIONS	●	○	○		◑
A4.0	BUILDING SECTIONS			●		–
A4.1	BUILDING SECTIONS			●		–
A6.0	INTERIOR ELEVATIONS					–
A7.0	WINDOW AND DOOR SCHEDULE	●	–	◑		–
STRUCTURAL DRAWINGS						
S0.0	GENERAL NOTES			●		–
S1.0	LOWER LEVEL FOUNDATION PLAN			●		–
S1.1	MAIN LEVEL FRAMING PLAN			●		–
S1.2	UPPER LEVEL FRAMING PLAN			●		–
S1.3	ROOF LEVEL FRAMING PLAN			●		–
S2.0	FLOOR SECTIONS			●		–
S3.0	ROOF SECTIONS			●		–

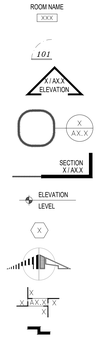
PROJECT.SUMMARY

ADDRESS:	1014 TWO ELK LANE MINTURN, CO 81645
PROJECT SCOPE:	91 SF ADDITION OF INTERIOR FINISHED SPACE, EXPANDING ONTO EXISTING EXTERIOR TERRACE, SMALL ROOF ADDITION AT SECOND LEVEL
OCCUPANCY:	R-3
CONSTRUCTION TYPE:	V-B
TAX AREA:	SC024 - MINTURN (TOWN)
PARCEL NUMBER:	2103-363-10-005
LOT SIZE:	.11 ACRES
LEGAL SUMMARY:	SUBDIVISION: CROSS CREEK PLACE LOT: 3E
BUILDING HEIGHT:	EXISTING TO REMAIN 28' MAX ALLOWED PER SEC. 16-2-60, TABLE 16-8 "TABLE HEIGHT", MINTURN MUNICIPAL CODE HEIGHT MEASURED FROM FINISHED OR NATURAL GRADE, WHICHEVER IS MORE RESTRICTIVE, TO MIDPOINT OF ROOF

LOT COVERAGE.SQ. FT.

LOT COVERAGE	
LOT SIZE	5,963 SF (.13 ACRES)
ALLOWED	2,981 SF (50%)
PROPOSED	2,363 SF (39%)
IMPERVIOUS	
ALLOWED	3,577.8 SF (60%)
PROPOSED	2,986 SF
BUILDING	2,363 SF
DRIVEWAYS (EX.)	623 SF
TOTAL	2,986 SF (50%)

SYMBOLS.LEGEND



- AREA NAME
- AREA NUMBER
- DOOR NUMBER
- EXTERIOR ELEVATION NUMBER
- EXTERIOR ELEVATION SHEET NUMBER
- DETAIL NUMBER
- DETAIL SHEET NUMBER
- BUILDING SECTION NUMBER
- BUILDING SECTION SHEET NUMBER
- SPOT ELEVATION REFERENCE
- WINDOW TYPE
- INTERIOR GLASS TYPE
- SKYLIGHT TYPE
- NORTH ARROW
- INTERIOR ELEVATION REFERENCE
- CHANGE IN FLOOR OR CEILING ELEVATION

PROJECT.TEAM

OWNER
ADAM AND LAINIE MINNICK
452 LEYDEN STREE
DENVER, CO 80220
303.399.6378
303.956.2537
amminck@stonetrewcapital.com
lainie.minnick@gmail.com

ARCHITECT
BOSS.ARCHITECTURE
CHRIS DAVIS
KEVIN STEPHENSON
3300 E 17TH AVE
DENVER, COLORADO 80206

303.377.6322
chris@BOSSarchitecture.com
kevin@BOSSarchitecture.com

GENERAL CONTRACTOR
THE GROFF COMPANY, LLC
1036 POLAR STAR DR.
EAGLE, CO 81631

303.638.0956
fletcher@thegroffcompany.com

STRUCTURAL ENGINEER
IMEG CORP.
MEGHAN C. BAKEMEYER
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DENVER, CO 80202

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CIVIL ENGINEER
N/A

MECHANICAL
N/A

LANDSCAPE ARCHITECT
N/A

BUILDING CODE INFORMATION

APPLICABLE CODES

2021 INTERNATIONAL RESIDENTIAL CODE (IRC)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2021 INTERNATIONAL FIRE CODE (IFC)
2021 INTERNATIONAL PLUMBING CODE (IPC)

•CHRISTOPHER.DAVIS
•KEVIN.STEPHENSON

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STATE OF COLORADO
10.12.2024
CHRISTOPHER WILLIAM DAVIS
400094
LICENSED ARCHITECT

OWNERS:
ADAM AND LAINIE MINNICK

LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

2024 FOR PRICING
2024 DESIGN REVIEW
2024 FOR PERMIT
2024 REVISION 1
2024 DESIGN REVIEW

COVER SHEET

TWO.ELKCONDO

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3300 E. 17TH AVE
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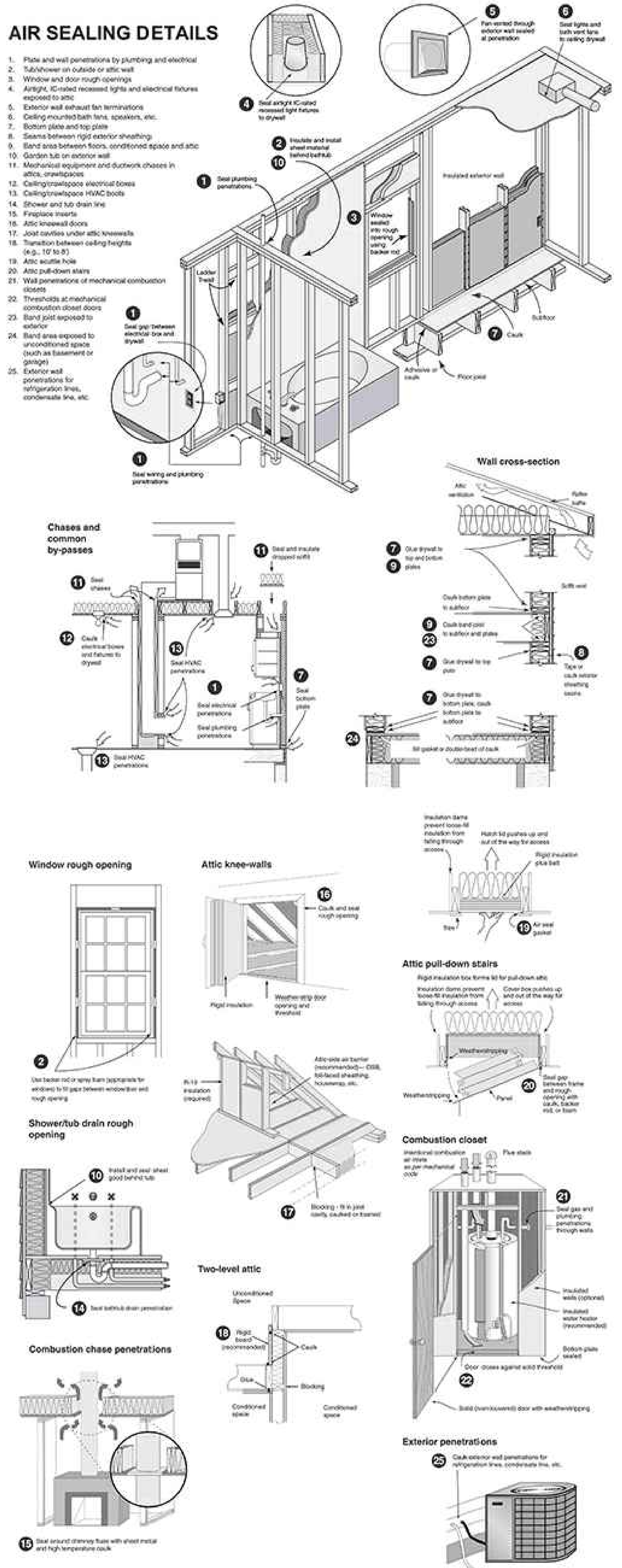

AIR SEALING DETAILS
N.T.S.

2021 IECC.COMPLIANCE

APPLICABLE CODE: 2021 IECC
CLIMATE ZONE: 6-B
INTERIOR DESIGN CONDITIONS: 70 DEGREES F FOR HEATING
75 DEGREES F MINIMUM FOR COOLING
COMPLIANCE PATH: PRESCRIPTIVE COMPLIANCE PATH, PER 401.2.1

WALL ASSEMBLIES IN THE BUILDING THERMAL ENVELOPE SHALL COPLY WITH THE VAPOR RETARDER REQUIREMENTS OF SECTION 702.7 OF THE IRC.
3" CLOSED CELL SPRAY FOAM PROVIDES CLASS II VAPOR RETARDER, AS REQUIRED BY R702.7.
ALL RIM JOISTS TO BE INSULATED w/ 4.5" MIN. CLOSED CELL SPRAY FOAM INSULATION, TYP. (R-30 MIN)
THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION, PER IECC R402.4
THE COMPONENTS OF THE BUILDING THERMAL ENVELOPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, PER IECC R402.4.1
WHERE REQUIRED BY THE CODE OFFICIAL, AN APPROVED THIRD PARTY SHALL INSPECT ALL COMPONENTS AND VERIFY COMPLIANCE, PER IECC R402.4.1.1
BUILDING THERMAL ENVELOPE SHALL COMPLY WITH SECTION R402.

MINIMUM REQUIRED R-VALUES, PER TABLE R402.1.3

COMPONENT	MINIMUM INSULATION VALUE	PROVIDED ASSEMBLY	
CEILING R-VALUE:	R-60	3" CLOSED CELL SPRAY FOAM @ R-7/IN 11" NET AND BLOW FIBERGLASS INSULATION @ R-3.77/IN TOTAL INSULATION R-VALUE	R-21 R-41.5 R-62.5
		AT LOCATIONS WITH LESS THAN 14" CEILING CAVITY, INSULATION SHALL BE: 9" CLOSED CELL SPRAY FOAM @ R-7/IN TOTAL INSULATION R-VALUE	 R-63 R-63
WOOD FRAME WALL R-VALUE:	R-30 (CAVITY INSULATION - NO CONTINUOUS INSULATION)	3" CLOSED CELL SPRAY FOAM @ R-7/IN 2.5" NET AND BLOW FIBERGLASS INSULATION @ R-3.77/IN TOTAL INSULATION R-VALUE	R-21 R-9.4 R-30.4
BASEMENT WALL R-VALUE:	R-19 (CAVITY INSULATION - NO CONTINUOUS INSULATION)	5.5" FIBERGLASS BATT INSULATION @ R-3.45 / IN TOTAL INSULATION R-VALUE	R-19 R-19
SLAB R-VALUE / DEPTH	R-10 CONTINUOUS INSULATION / 4 FT	2" XPS RIGID INSULATION @ R-5 / IN TOTAL INSULATION R-VALUE	R-10 R-10
FLOOR CAVITY INSULATION:	R-30	4.5" CLOSED CELL SPRAY FOAM @ R7 TOTAL INSULATION R-VALUE	R-31.5 R-31.5

MINIMUM FENESTRATION U-VALUES, PER TABLE R402.1.3

COMPONENT	MAXIMUM VALUE	PROVIDED ASSEMBLY
FENESTRATION U-FACTOR	U-0.32 (MAXIMUM 0.32 SHALL APPLY, AS BUILDING IS LOCATED ABOVE 4,000 FEET IN ELEVATION, PER TABLE 402.1.3 FOOTNOTE 'i')	PROVIDED U-VALUES RANGE FROM 0.27-0.30 FOR ALL FIXED WINDOWS, OPERABLE WINDOWS, PATIO DOORS, AND MULTISLIDE DOORS. REFER TO SHEET A7.0 FOR WINDOW SCHEDULE, WITH U-VALUES INDICATED.
SOLAR HEAT GAIN COEFFICIENT	0.40	PROVIDED U-VALUES RANGE FROM 0.19-0.25. FOR ALL FIXED WINDOWS, OPERABLE WINDOWS, PATIO DOORS, AND MULTISLIDE DOORS REFER TO SHEET A7.0 FOR WINDOW SCHEDULE, WITH SHGC VALUES INDICATED.

AIR SEALING

THE BUILDING SHALL BE TESTED FOR AIR LEAKAGE, PER R402.4.1.2.
THE MAXIMUM AIR LEAKAGE RATE SHALL NOT EXCEED 3.0 ACH.
TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ANSI/RESNET/ICC 380, ASTEM E770, OR ASTM E1827, AND REPORTED AT A PRESSURE OF 0.2 INCH WG (50 PASCALS).
A WRITTEN REPORT OF THE RESULTS SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST.
THE TEST SHALL BE PERFORMED AT ANY TIME AFTER CREATION OF ALL PENETRATIONS OF THE BUILDING THERMAL ENVELOPE HAVE BEEN SEALED.
THE BUILDING AIR BARRIER SHALL BE CONTINUOUS, AND SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA
GENERAL REQUIREMENTS	A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. BREAKS OR JOINTS IN THE AIR BARRIER SHALL BE SEALED.	AIR-PERMEABLE INSULATION SHALL NOT BE USED AS A SEALING MATERIAL.
CEILINGS / ATTIC	THE AIR BARRIER IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED w/ THE INSULATION & ANY GAPS IN THE AIR BARRIER SHALL BE SEALED. ACCESS OPENINGS, DROP DOWN STAIRS, OR KNEE WALL DOORS TO UNCONDITIONED ATTIC SPACES SHALL BE SEALED.	THE INSULATION IN ANY DROPPED CEILING/SOFFIT SHALL BE ALIGNED w/ THE AIR BARRIER.
WALLS	THE JUNCTION OF THE FOUNDATION & SILL PLATE SHALL BE SEALED. THE JUNCTION OF THE TOP PLATE & THE TOP OF EXTERIOR WALLS SHALL BE SEALED. KNEE WALLS SHALL BE SEALED.	CAVITIES WITHIN CORNERS & HEADERS OF FRAME WALLS SHALL BE INSULATED BY COMPLETELY FILLING THE CAVITY w/ A MATERIAL HAVING A THERMAL RESISTANCE OF R-3 PER INCH MINIMUM. EXTERIOR THERMAL ENVELOPE INSULATION FOR FRAMED WALLS SHALL BE INSTALLED IN SUBSTANTIAL CONTACT & CONTINUOUS ALIGNMENT w/ THE AIR BARRIER.
WINDOWS, DOORS, AND SKYLIGHTS	THE SPACE BETWEEN WINDOW/DOOR JAMBS & FRAMING, & SKYLIGHTS & FRAMING SHALL BE SEALED.	
RIM JOISTS	RIM JOISTS SHALL INCLUDE AN EXTERIOR AIR BARRIER. THE JUNCTION OF THE RIM BOARD TO THE SILL PLATE AND THE RIM BOARD AND THE SUBFLOOR SHALL BE AIR SEALED.	RIM JOISTS SHALL BE INSULATED SO THAT THE INSULATION MAINTAINS PERMANENT CONTACT WITH THE EXTERIOR RIM BOARD.
FLOORS (INCLUDING CANTILEVERED FLOORS AND FLOORS ABOVE GARAGES)	THE AIR BARRIER SHALL BE INSTALLED AT ANY EXPOSED EDGE OF INSULATION.	FLOOR FRAMING CAVITY INSULATION SHALL BE INSTALLED TO MAINTAIN PERMANENT CONTACT w/ THE UNDERSIDE OF SUBFLOOR DECKING, OR FLOOR FRAMING CAVITY INSULATIONS SHALL BE PERMITTED TO BE IN CONTACT w/ THE TOP SIDE OF SHEATHING, OR CONTINUOUS INSULATION INSTALLED ON THE UNDERSIDE OF FLOOR FRAMING & EXTENDS FROM THE BOTTOM TO THE TOP OF ALL PERIMETER FLOOR FRAMING MEMBERS.
BASEMENT CRAWL SPACE AND SLAB FOUNDATIONS	EXPOSED EARTH IN UNVENTED CRAWL SPACES SHALL BE COVERED WITH A CLASS 1 VAPOR RETARDER / AIR BARRIER IN ACCORDANCE WITH SECTION R402.2.10. PENETRATIONS THROUGH THE CONCRETE FOUNDATION WALLS AND SLABS SHALL BE AIR SEALED. CLASS 1 VAPOR RETARDERS SHALL NOT BE USED AS AN AIR BARRIER ON BELOW GRADE WALLS AND SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R702.7 OF THE INTERNATIONAL RESIDENTIAL CODE.	CRAWL SPACE INSULATION, WHERE PROVIDED INSTEAD OF FLOOR INSULATION, SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R402.2.10. CONDITIONED BASEMENT FOUNDATION WALL INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH SECTION R402.2.8.1. SLAB ON GRADE FLOOR INSULATION SHALL BE IN ACCORDANCE WITH SECTION R402.2.10.
SHAFTS, PENETRATIONS	DUCT AND FLUE SHAFTS AND OTHER SIMILAR PENETRATIONS TO EXTERIOR OR UNCONDITIONED SPACE SHALL BE SEALED TO ALLOW FOR EXPANSION, CONTRACTION, AND MECHANICAL VIBRATION. UTILITY PENETRATIONS OF THE AIR BARRIER SHALL BE CAULKED, GASKETED, OR OTHERWISE SEALED, AND SHALL ALLOW FOR EXPANSION, CONTRACTION, AND MECHANICAL VIBRATION.	INSULATION SHALL BE FITTED TIGHTLY AROUND UTILITIES PASSING THROUGH SHAFTS AND PENETRATIONS IN THE BUILDING THERMAL ENVELOPE TO MAINTAIN REQUIRED R VALUE.
NARROW CAVITIES	NARROW CAVITIES OF 1 INCH OR LESS THAT ARE NOT ABLE TO BE INSULATED SHALL BE AIR SEALED.	BATTS TO BE INSTALLED IN NARROW CAVITIES SHALL BE CUT TO FIT OR NARROW CAVITIES SHALL BE FILLED WITH INSULATION THAT ON INSTALLATION READILY CONFORMS TO THE AVAILABLE CAVITY SPACE.
GARAGE SEPARATION	AIR SEALING SHALL BE PROVIDED BETWEEN THE GARAGE & CONDITIONED SPACES.	INSULATED PORTIONS OF THE GARAGE SEPARATION ASSEMBLY SHALL BE INSTALLED IN ACCORDANCE WITH R303 AND R402.2.7
RECESSED LIGHTING	RECESSED LIGHT FIXTURES INSTALLED IN THE THERMAL BUILDING ENVELOPE SHALL BE AIR SEALED IN ACCORDANCE WITH SECTION R402.4.5.	RECESSED LIGHT FIXTURES INSTALLED IN THE THERMAL BUILDING ENVELOPE SHALL BE AIRTIGHT AND IC RATED, AND SHALL BE BURIED OR SURROUNDED BY INSULATION.
PLUMBING, WIRING, OR OTHER OBSTRUCTIONS	ALL HOLES CREATED BY WIRING, PLUMBING, OR OTHER OBSTRUCTIONS IN THE AIR BARRIER SHALL BE AIR SEALED.	INSULATION SHALL BE INSTALLED TO FILL THE AVAILABLE SPACE AND SURROUND WIRING, PLUMBING, OR OTHER OBSTRUCTIONS, UNLESS THE REQUIRED R-VALUE CAN BE MET BY INSTALLING INSULATION AND AIR BARRIER SYSTEMS COMPLETELY TO THE EXTERIOR SIDE OF THE OBSTRUCTIONS
SHOWER / TUB ON EXTERIOR WALL	THE AIR BARRIER INSTALLED AT EXTERIOR WALLS ADJACENT TO SHOWERS & TUBS SHALL SEPARATE THEM FROM THE SHOWERS & TUBS.	EXTERIOR WALLS ADJACENT TO SHOWERS & TUBS SHALL BE INSULATED
ELECTRICAL / PHONE BOX ON EXTERIOR WALLS	THE AIR BARRIER SHALL BE INSTALLED BEHIND ELECTRICAL OR COMMUNICATION BOXES OR AIR-SEALED BOXES SHALL BE INSTALLED.	
HVAC REGISTER BOOTS	HVAC SUPPLY AND RETURN BOOTS THAT PENETRATE THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO THE SUBFLOOR, WALL COVERING, OR CEILING PENETRATED BY THE BOOT.	
CONCEALED SPRINKLERS	WHEN REQUIRED TO BE SEALED, CONCEALED FIRE SPRINKLERS SHALL ONLY BE SEALED IN A MANNER THAT IS RECOMMENDED BY THE MANUFACTURER. CAULKING OR OTHER ADHESIVE SEALANTS SHALL NOT BE USED TO FILL VOIDS BETWEEN FIRE SPRINKLER COVER PLATES & WALLS OR CEILINGS.	

GENERAL.NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE w/ THE 2021 IRC, ALL MINTURN AMENDMENTS TO THE CODE & ALL FEDERAL, STATE & LOCAL CODES & AGENCIES HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR & RESPECTIVE SUB-CONTRACTORS TO BUILD TO SATISFY THESE CODES & CALL FOR ALL NECESSARY INSPECTIONS.
2. CONTRACTOR SHALL VERIFY & COORDINATE ALL NEW & EXISTING CONDITIONS & DIMENSIONS @ JOB SITE FOR COMPARISON w/ DWG'S & SPECIFICATIONS PRIOR TO BIDDING & START OF & DURING CONSTRUCTION. IF ANY DISCREPANCIES, INCONSISTENCIES OR OMISSIONS ARE FOUND, THE ARCHITECT SHALL BE NOTIFIED, IN WRITING FOR CLARIFICATION PRIOR TO PROCEEDING w/ WORK.
3. DO NOT SCALE DWG'S. CONTRACTOR SHALL RELY ON WRITTEN DIMENSIONS AS GIVEN. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION ALL DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR & COORDINATED w/ ALL OF THE WORK OF ALL TRADES. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING FOR CLARIFICATION BEFORE THE COMMENCEMENT OR RESUMPTION OF WORK.
4. DIMENSIONS SHOWN ON FLOOR PLANS, SECTIONS, ELEVATION, & DETAILS ARE TO FACE OF WOOD FRAMING AND TO FINISH FACE OF, MASONRY, CONC. OR GRID LINES, UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS ON THE ARCHITECTURAL DRAWINGS LOCATING STRUCTURAL STEEL OR HEAVY TIMBER MEMBERS ARE TO CENTERLINE, UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL VERIFY ALL COLUMN COORDINATES & CHECK THEM AGAINST DIMENSIONS SHOWN ON PLANS & DETAILS. CONSTRUCTION MANAGER SHOULD BE NOTIFIED OF ANY DISCREPANCIES DURING STAKING.
7. ABBREVIATIONS THROUGHOUT THE PLANS ARE THOSE IN COMMON USE. NOTIFY THE ARCHITECT OF ANY ABBREVIATIONS IN QUESTION.
8. "V.I.F. OR F.V." ON DWG'S REFERS TO FIELD VERIFICATION FOR CORRECT DIMENSIONS & CONDITIONS. NOTIFY ARCHITECT OF ANY DESCREPANCIES.
CFCI – CONTRACTOR FURNISHED CONTRACTOR INSTALLED
OFCI – OWNER FURNISHED CONTRACTOR INSTALLED
OFOI – OWNER FURNISHED OWNER INSTALLED
9. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE VARIOUS TRADE ITEMS WITHIN THE SPACE ABOVE ALL CEILINGS (INCLUDE, BUT NOT LIMITED TO: STRUCT. MEMBERS, MECH. DUCTS & INSUL.., LIGHT FIXTURES, CEILINGS SYSTEMS, & ANY SPECIAL STRUCT. SUPPORTS REQUIRED) & SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISH CEILING HEIGHT ABOVE THE T.O. SUBFLOOR INDICATED IN THE WALL SECTIONS & THE REFLECTED CEILING PLANS. (CEILING HEIGHT DIMENSIONS ARE TO THE FINISH SURFACE OF CEILING).
10. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATION OF ALL WALL & CEILING FRAMING MEMBERS TO FACILITATE THE INSTALLATION OF ALL WALL & CEILING MOUNTED ELECT. & MECH. DEVICES, ETC., PER THE ARCHITECTS DWG'S. RE: INTERIOR ELEVATIONS, & REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF DEVICES. IF NOT INDICATED, COORDINATE LOCATIONS w/ ARCHITECT PRIOR TO INSTALLATION.
11. ACCESS PANELS SHALL BE PROVIDED & INSTALLED WHEREVER REQUIRED BY BLDG. CODE OR FOR THE PROPER OPERATION OR MAINTENANCE OF MECH. OR ELECT. EQUIPMENT, WHETHER OR NOT INDICATED ON THE DWG'S CONTRACTOR SHALL COORDINATE SIZE, LOCATION, & TYPE OF ACCESS PANEL w/ OTHER CONTRACTORS' WORK & RECEIVE APPROVAL OF THE ARCHITECT. NO ACCESS PANEL SHALL BE LOCATED, FRAMED OR INSTALLED W/O THE EXPRESSED APPROVAL OF THE ARCHITECT. CLAD & PAINT PANELS TO MATCH ADJACENT FINISHED CONDITION (PROVIDE FOR INTEGRATED LOOK TO WALL OR CEILING ASSEMBLY BY ANY MEANS NECESSARY) OR AS APPROVED BY ARCHITECT.
12. IN THE CASE OF A CONFLICT BETWEEN THE DWG'S & THE SPECIFICATIONS, SPECIFICATIONS SHALL TAKE PRECEDENCE. IN THE CASE OF A CONFLICT IN THE DWG'S & DETAILS, THE DWG'S w/ THE LARGER SCALE OR THE ASSEMBLY WHICH PRODUCES THE HIGHER QUALITY ASSEMBLY & FINISH SHALL TAKE PRECEDENCE. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY CONFLICT BEFORE PROCEEDING w/ THE WORK.
13. ALL DUCT PENETRATIONS THROUGH PARTITIONS & CEILING SHALL BE PROVIDED w/ THE NECESSARY FRAMES & BRACING AROUND THE OPENING.
14. THE SPECIFICATIONS & ALL CONSULTANT DWG'S ARE SUPPLEMENTAL TO THE ARCHITECTURAL DWG'S IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE w/ THE ARCHITECTURAL DWG'S BEFORE THE INSTALLATION OF ANY OF THE CONSULTANTS' WORK & TO BRING ANY DISCREPANCIES OR CONFLICTS TO THE ARCHITECT'S ATTENTION IN WRITING, FOR CLARIFICATION. IMPROPERLY INSTALLED WORK SHALL BE CORRECTED BY THE GENERAL CONTRACTOR @ HIS/HER EXPENSE & @ NO EXPENSE TO THE ARCHITECT, HIS CONSULTANTS, OR THE OWNER.
15. THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BLDG. IS EITHER EXPEDIENT OR NECESSARY. PRIOR TO PROCEDING w/ WORK, REINFORCEMENT &/OR SUPPORT SATISFACTORY TO ARCHITECTS & STRUCTURAL ENGINEER SHALL BE PROVIDED BY CONTRACTOR.
16. TEMPORARY PEDESTRIAN PROTECTION SHALL BE PROVIDED AS REQUIRED BY LOCAL REGULATIONS & COUNTY CODE.
17. FINAL CLEAN UP & DISPOSAL: REMOVE DEBRIS, RUBBISH & WASTE MATERIAL FROM THE OWNER'S PROPERTY TO A LAWFUL DISPOSAL AREA & PAY ALL HAULING & DUMPING COSTS. CONFORM TO PERTAINING FEDERAL STATE & LOCAL LAWS, REGULATIONS & ORDERS. UPON COMPLETION OF WORK, ALL CONSTRUCTION AREAS SHALL BE LEFT VACUUM-CLEAN & FREE FROM DEBRIS. CLEAN ALL DUST, DIRT, STAINS, HAND MARKS, PAINT SPOTS, DROPPINGS, & OTHER BLEMISHES.
18. IF THE CONTRACTOR ASCERTAINS @ ANY TIME THAT REQUIREMENT OF THIS CONTRACT CONFLICT w/, OR ARE IN VIOLATION OF, APPLICABLE LAWS, CODES, REGULATIONS & ORDINANCES, HE/SHE SHALL NOT PROCEED w/ WORK IN QUESTION, EXCEPT @ HIS/HER OWN RISK, UNTIL THE ARCHITECT HAS BEEN NOTIFIED IN WRITING & WRITTEN DETERMINATION IS MADE BY THE ARCHITECT. WHERE COMPLETED OR PARTIALLY COMPLETED WORK IS DISCOVERED TO BE IN VIOLATION w/ APPLICABLE LAWS, CODES, REGULATIONS & ORDINANCES, CONTRACTOR SHALL BE REQUIRED TO REMOVE THAT WORK FROM THE PROJECT & REPLACE SUCH WORK w/ ALL NEW COMPLYING WORK @ NO ADDITIONAL COST TO THE OWNER OR ARCHITECT.
19. ANY WORK INSTALLED IN CONFLICT w/ THE CONTRACT DOCUMENTS SHALL BE CORRECTED BY THE CONTRACTOR @ HIS/HER EXPENSE & @ NO ADDITIONAL EXPENSE TO THE OWNER, ARCHITECT, OR CONSULTANTS.
20. STAIR ASSEMBLY:
HEADROOM 6'-8" MIN AND WIDTH 3'-0" MIN
THE MAXIMUM RISER HEIGHT SHALL BE 7-3/4". OPEN RISERS ARE PERMITTED PROVIDED THAT THE OPENING BETWEEN TREADS IS LESS THAN 4".
THE MINIMUM TREAD DEPTH SHALL BE 10"
HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OF TREADS OR FLIGHT WITH 4 OR MORE RISERS. HANDRAIL HEIGHT SHALL NOT BE LESS THAN
34" AND NOT MORE THAN 38". HANDRAILS FOR STAIRWAYS SHALL BE CONTINUOUS FOR THE FULL LENGTH OF THE FLIGHT, FROM THE TOP TO THE BOTTOM RISER. HANDRAILS SHALL RETURN. HANDRAILS ADJACENT TO A WALL SHALL BE A SPACE OF NOT LESS THAN 1-1/2" FROM THE WALL TO THE HANDRAIL.
OPEN GUARDRAILS SHALL HAVE INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A SPHERE OF 4" OR MORE IN DIAMETER CANNOT PASS THROUGH.
DOORS TO THE EXTERIOR SHALL HAVE A MAX 7-3/4" STEP TO A MINIMUM 36" DEEP LANDING, BUT THE DOOR MAY NOT SWING OVER THE LANDING.
PORCHES, BALCONIES OR RAISED FLOOR SURFACES MORE THAN 30" ABOVE THE FLOOR OR GRADE SHALL HAVE GUARD RAILS NOT LESS THAN 36" IN HEIGHT.

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STATE OF COLORADO
09.12.2024
CHRISTOPHER WILLIAM DAVIS
400094
LICENSED ARCHITECT

OWNERS:
ADAM AND LAINIE MINNICK
LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

03/11 | 2024 FOR PRICING
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06/14 | 2024 FOR PERMIT
07/03 | 2024 REVISION 1
09/12 | 2024 DESIGN REVIEW

GENERAL NOTES
AND IECC COMPLIANCE

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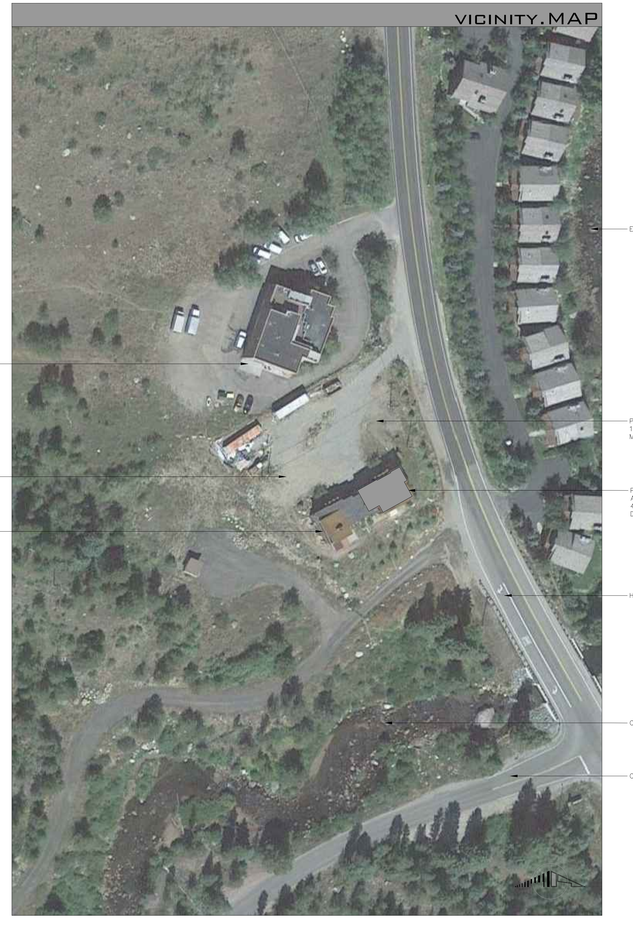

1 VICINITY MAP
NOT TO SCALE

•CHRISTOPHER.DAVIS
•KEVIN .STEPHENSON

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STATE OF COLORADO
10.12.2022
CHRISTOPHER
WILLIAM
DAVIS
400094
LICENSED ARCHITECT

OWNERS:
ADAM AND LAINIE MINNICK

LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

| 2024 FOR PRICING
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VICINITY MAP

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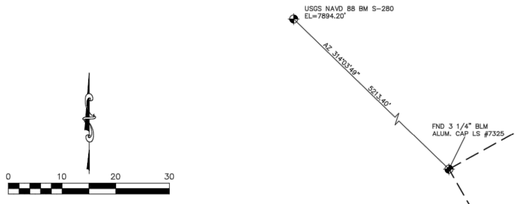
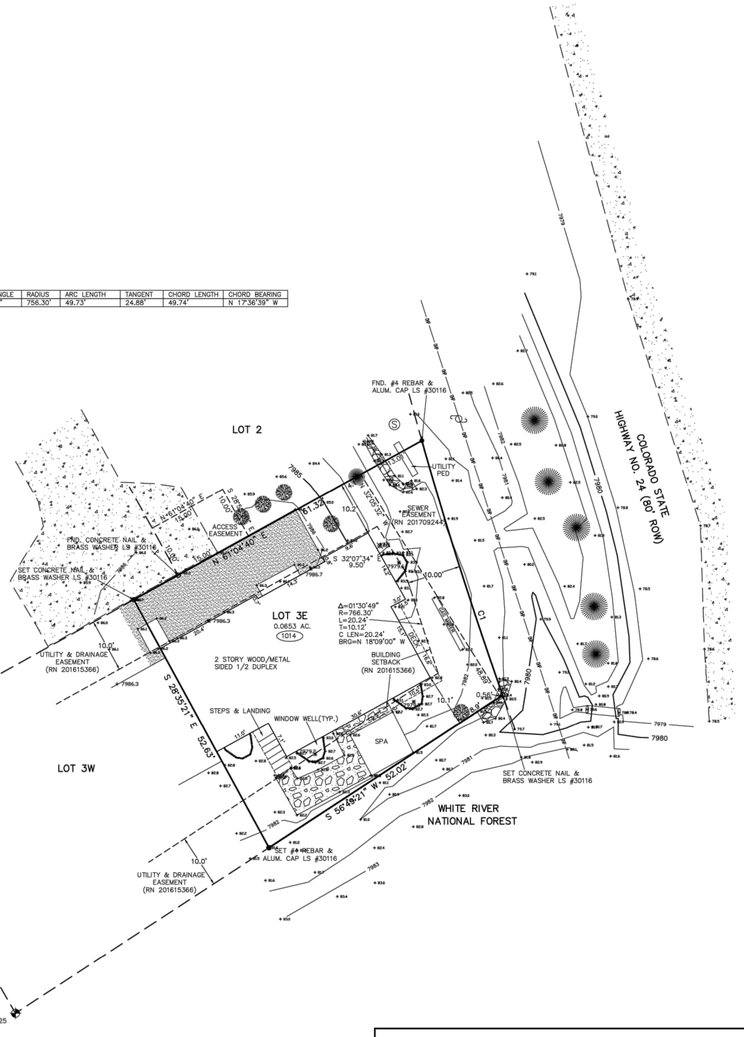


CURVE	DELTA ANGLE	RADIUS	ARC LENGTH	TANGENT	CHORD LENGTH	CHORD BEARING
C1	03°46'06"	756.30'	49.73'	24.88'	49.74'	N 17°36'39" W



NOTES:

1) DATE OF SURVEY: 12/14/2023.
2) SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR AMENDED PLATS, EASEMENTS OF RECORD (OTHER THAN PLATTED), ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
3) NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.
4) THIS SURVEY AND THE INFORMATION CONTAINED HEREON IS THE PROPERTY OF EAGLE VALLEY SURVEYING, INC. AND IS INTENDED FOR THE SOLE USE OF THE ORIGINAL CLIENT ONLY. ANY USE OF OR TRANSFER TO OTHERS IS PROHIBITED.
5) BASIS OF BEARINGS: MONUMENTS FOUND MARKING THE WEST CORNER LOT 1 AND SOUTH CORNER LOT 3W, (SEE DRAWING).
6) 1.0' OF SNOW ON LOT AT TIME OF SURVEY; SOME FEATURES MAY EXIST BENEATH SNOW THAT ARE NOT SHOWN ON THIS DRAWING.
7) BASIS OF ELEVATION: USGS NAVD 88 BM S-280 EAGLE COUNTY SURVEY CONTROL EL=7894.20'.
8) 1' CONTOUR INTERVAL.
9) THE U.S. SURVEY FOOT IS THE LINEAL UNIT USED FOR THE DIMENSIONS ON THIS PLAT.
10) THIS PROPERTY DOES NOT LIE WITHIN ANY 100 YEAR FLOOD PLAIN.

LEGEND

- UTILITY POLE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- CPP
- OVERHEAD POWER LINE
- ASPHALT SURFACE
- ROCK WALL
- FLAGSTONE SURFACE
- CONCRETE SURFACE
- DENOTES DECIDUOUS TREE W/ APPROX. 0.3' TRUNK DIAMETER
- DENOTES CONIFEROUS TREE W/ APPROX. 0.5' TRUNK DIAMETER

SURVEYORS CERTIFICATE:
Certified to: ADAM & ELENI MINNICK.

I Michael J. Post, a registered Professional Land Surveyor in the State of Colorado, do hereby certify that on 12/14/2023 this Improvement Survey Plat was performed under my supervision and that dimensions accurately represent said survey.

Michael J. Post
Colorado P.L.S. 30116

PROFESSIONAL LAND SURVEYOR
S 30116
1/11/2024

SURVEYOR'S CERTIFICATE
I, Michael J. Post, a Professional Land Surveyor registered under the laws of the State of Colorado, do hereby certify that this topographic survey was made by me and under my supervision, and that the survey is accurate and correct to the best of my knowledge.

Michael J. Post
Colorado P.L.S. 30116

PROFESSIONAL LAND SURVEYOR
S 30116
Date 1/11/2024

EAGLE VALLEY SURVEYING, INC.
41199 HIGHWAY 6 & 24, EAGLE-VAIL
P.O. BOX 1230
EDWARDS, CO. 81632
(970)949-1406

3518-T-ISP-2024.dwg	DATE: 12/2023
DRN. BY: MLT	PAGE: 1 OF 1

TOPOGRAPHIC SURVEY
IMPROVEMENT SURVEY PLAT
LOT 3E
CROSS CREEK PLACE
TOWN OF MINTURN, EAGLE COUNTY, COLORADO
JOB No. 3518

1 SURVEY
1/4" : 1'

BOSS ARCHITECTURE
•CHRISTOPHER.DAVIS
•KEVIN.STEPHENSON

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STATE OF COLORADO
10.12.2024
CHRISTOPHER WILLIAM DAVIS
400094
LICENSED ARCHITECT

OWNERS:
ADAM AND LAINIE MINNICK

LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

24	2024 FOR PRICING
24	2024 DESIGN REVIEW
24	2024 FOR PERMIT
24	2024 REVISION 1
24	2024 DESIGN REVIEW

SURVEY

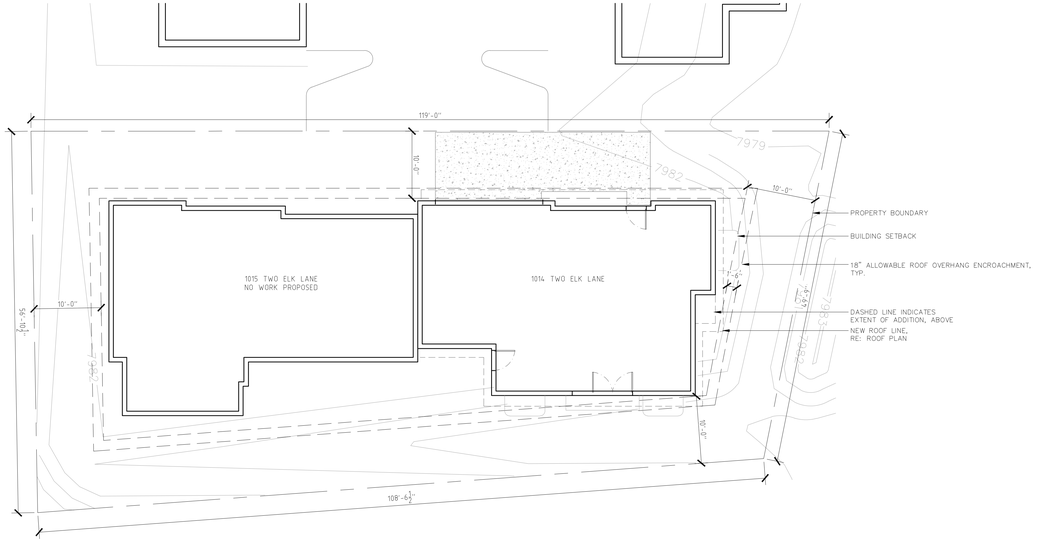
TWO.ELKCONDO

BOSS ARCHITECTURE
3300 E. 7TH AVE.
DENVER, COLORADO 80206 USA
303.377.6322 | P
303.377.6326 | F
WWW.BOSSARCHITECTURE.COM

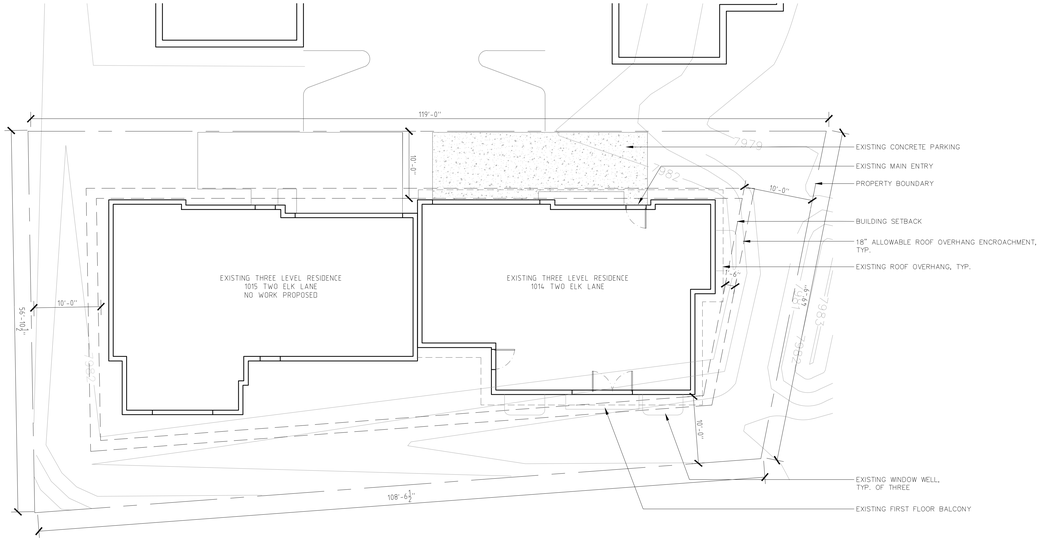
0.3

LOT COVERAGE.SQ. FT.

LOT COVERAGE		
LOT SIZE	5,963 SF (.13 ACRES)	
ALLOWED	2,981 SF (50%)	
PROPOSED	2,363 SF (39%)	
IMPERVIOUS		
ALLOWED	3,577.8 SF (60%)	
PROPOSED	2,986 SF	
BUILDING	2,363 SF	
DRIVEWAYS (EX.)	623 SF	
TOTAL	2,986 SF (50%)	



2 PROPOSED SITE PLAN
1/4" : 1'



1 EXISTING SITE PLAN
1/4" : 1'

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SITE PLAN

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1.0

DEMO.LEGEND

- EXISTING WALLS, PARTITIONS AND WINDOWS TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- NEW WALL
- AREA TO BE DEMOLISHED

DEMOLITION.NOTES

THE GENERAL CONTRACTOR IS SUPPLIED, HEREIN, WITH THE CONSTRUCTION DOCUMENTS FOR THEIR USE IN PRICING & CONSTRUCTING THIS WORK. IT IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL (E) CONDITIONS & NOTIFY THE ARCHITECT OF ANY DISCREPANCIES & UNFORESEEN CONDITIONS & COORDINATE PRICING & CONSTRUCTION INFORMATION ACCORDINGLY.

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RECYCLE OR DISPOSE OF ALL REMOVED MATERIALS IN ACCORDANCE WITH LOCAL, STATE, & FEDERAL GUIDELINES

PLAN.MATERIALS

- STAMPED CONCRETE DECK
- WOOD FLOORING

PLAN.NOTES

VERIFY ALL DIMENSIONS IN FIELD.

SUBMIT SAMPLES OF ALL MATERIALS FOR APPROVAL.

PROVIDE 6 MIL. POLY VAPOR RETARDER (INTERIOR SIDE OF FRAMING) @ ALL EXTERIOR FRAMED WALL ASSEMBLIES.

REPLACE $\frac{5}{8}$" GYP.BD. WITH $\frac{5}{8}$" 'GREEN BOARD' @ ALL BATHROOMS & WET LOCATIONS, (NOT TO RECEIVE TILE).

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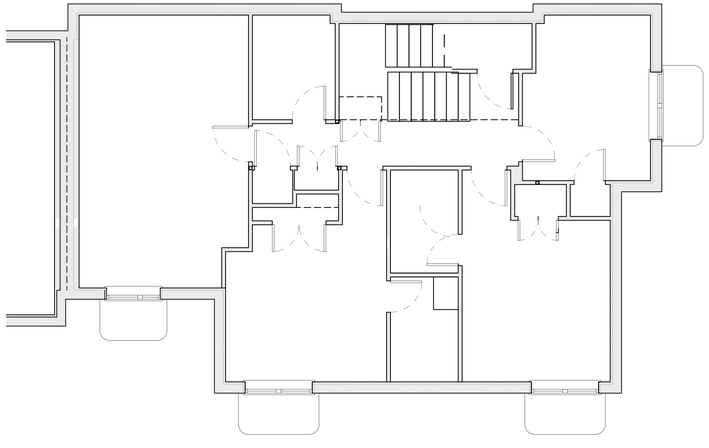
CONTRACTOR TO VERIFY ASSEMBLY THICKNESSES, AND ADJUST FRAMING AS REQUIRED TO ACHIEVE INTENDED FINISH ALIGNMENTS.



1 BASEMENT PLAN
NO WORK PROPOSED
1/4" : 1'

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•KEVIN .STEPHENSON
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BASEMENT PLAN

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2.0

DEMO.LEGEND

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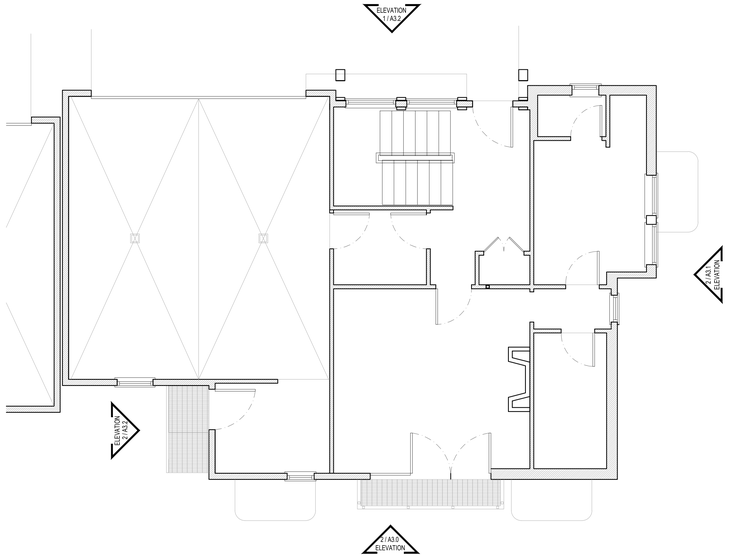

1 LOWER LEVEL PLAN
NO WORK PROPOSED
1/4" : 1'

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•KEVIN.STEPHENSON
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LOWER LEVEL PLAN

TWO.ELKCONDO

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DENVER, COLORADO 80206 USA
303.377.6322 | P
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N. 1

DEMO.LEGEND

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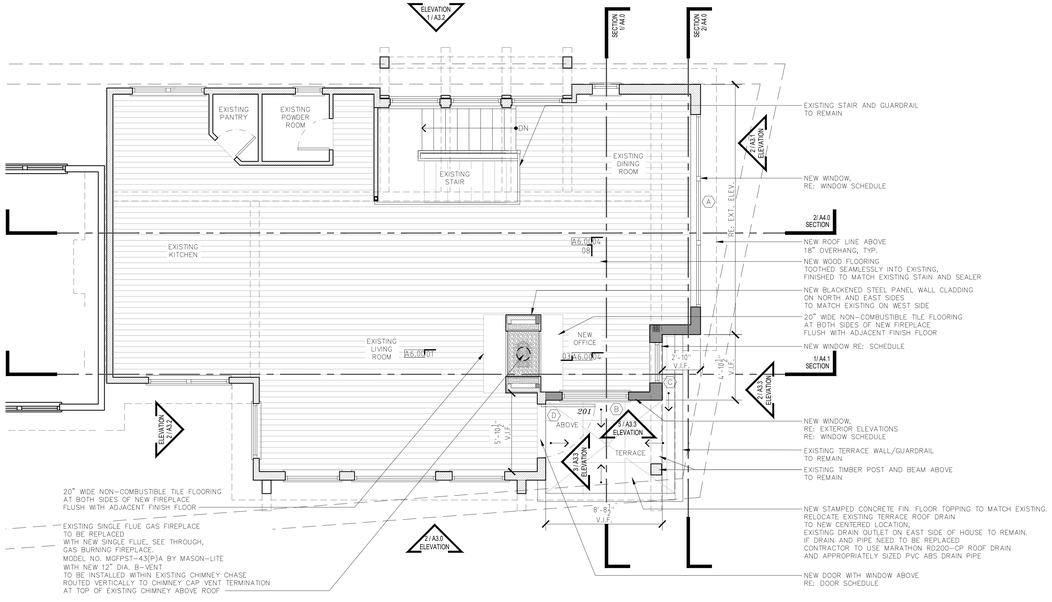
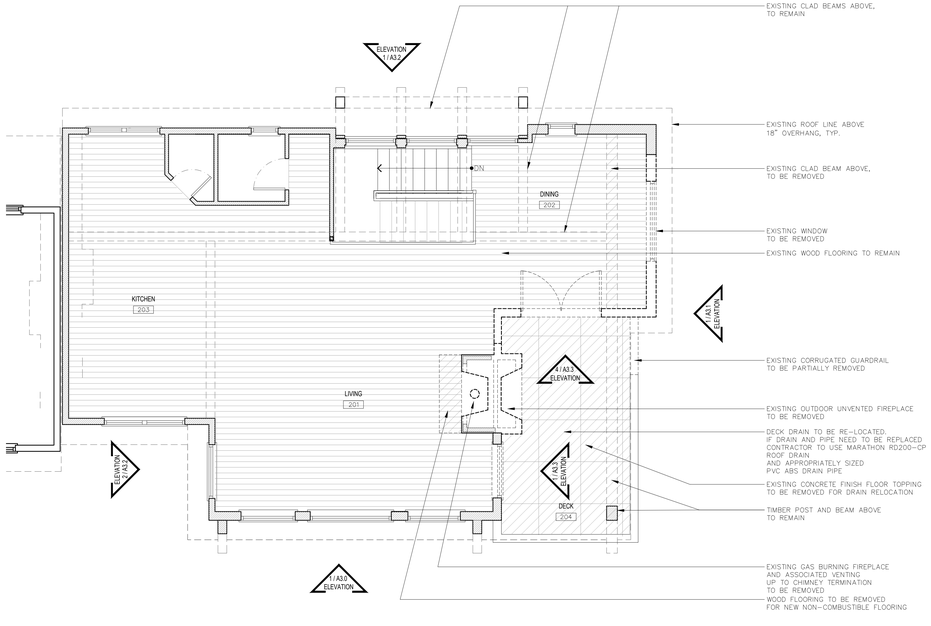


2 UPPER LEVEL PROPOSED PLAN
1/4" : 1'



1 UPPER LEVEL DEMO PLAN
1/4" : 1'

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•KEVIN.STEPHENSON

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UPPER LEVEL PLANS

TWO.ELKCONDO

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303.377.6322 | P
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WWW.BOSSARCHITECTURE.COM

2.2

DEMO.LEGEND

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ROOF PLAN.MATERIALS

- FULLY ADHERED, CONTINUOUS, 60 MIL. EPDM ROOFING
- CORRUGATED METAL ROOF
- DS — SYMBOL INDICATES LOCATIONS OF DOWNSPOUTS

ROOF PLAN.NOTES

SUBMIT SAMPLES OF ALL MATERIALS FOR APPROVAL.

ALL LOW SLOPE ROOFED AREAS SHALL BE FULLY ADHERED 60 MIL. EPDM, INCLUDING ALL REQUIRED EPDM FLASHINGS FOR CORNERS, TRANSITIONS, ROOF PENETRATIONS, & VENTS)

PROVIDE PROTECTIVE CAGES OVER ROOF DRAINS TO PREVENT DEBRIS FROM CLOGGING DRAINS, TYP.

WHEN ROOF & OVERFLOW DRAINS DRAIN INTERNALLY, THEY SHALL EXIT THE STRUCTURE VIA LAMBS TONGUES, ROUTED TO RAIN GARDEN #2. (RE: CIVIL)

FOR EVERY ROOF DRAIN, A SECONDARY OVERFLOW DRAIN SHALL BE PROVIDED, TYP. PER IRC 903.4 AND R903.4.1. (ALL OVERFLOW DRAIN INLET ELEVATIONS SHALL BE NO MORE THAN 2" ABOVE ROOF DRAIN INLETS, TYP.)

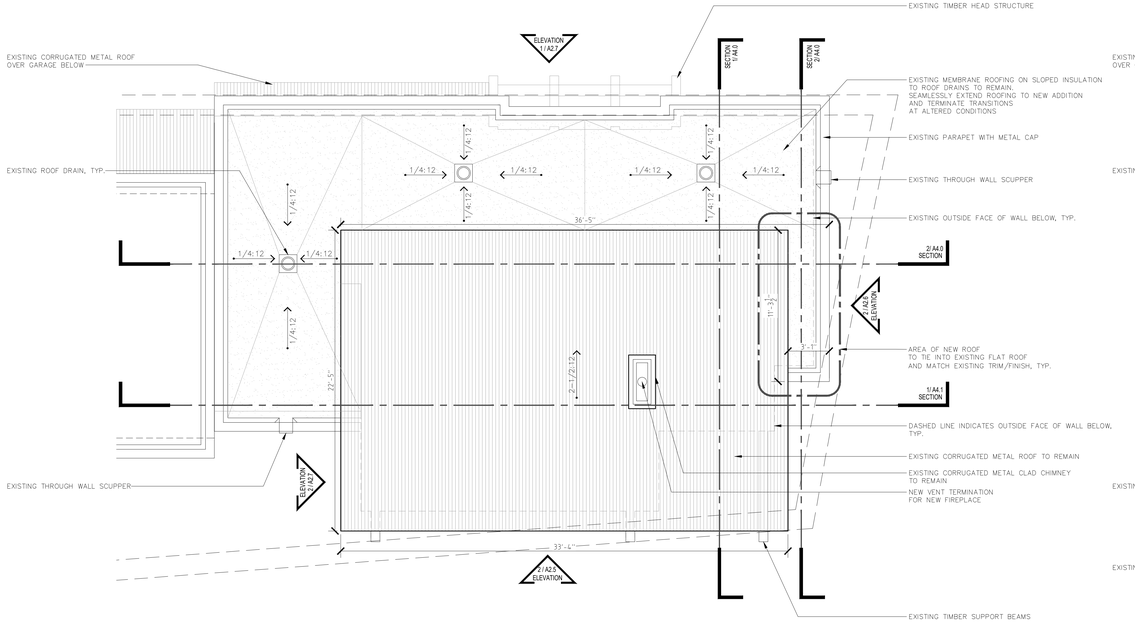
PROVIDE SLOPED PARAPET CAP FLASHING & GRAVEL STOPS, AS INDICATED ON THE WALL SECTIONS. (ALL PARAPET CAPS, GRAVEL STOPS, SHALL BE SEAMLESS, PREFINISHED METAL, TO MATCH EXISTING, TYP).

ALL FLASHING SHALL BE PREFINISHED METAL, U.N.O.

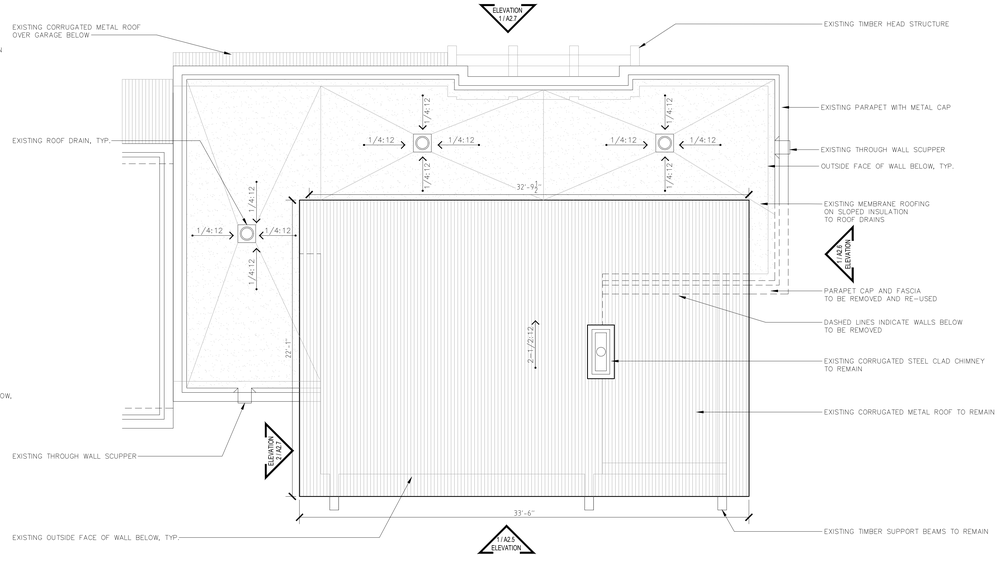
CONTRACTOR TO INSTALL HPC APPROVED 4" DOWN SPOUTS AND 6" GUTTERS WHERE INDICATED. AND INSTALL HPC APPROVED SNOW GUARDS AS REQ'D.

COORDINATE ALL VENT PIPE / FLUE / AND OTHER ROOF PENETRATIONS WITH ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

NOTE: ICE DAM BARRIER OF AT LEAST TWO LAYERS OF UNDERLAYMENT CEMENTED TOGETHER OR OF A SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET SHALL EXTEND FROM THE ROOF EAVE EDGE AT LEAST SIX FEET INSIDE THE EXTERIOR WALL LINE AS MEASURED ALONG THE ROOF SURFACE, EIGHTEEN INCHES FROM THE CENTERLINE OF THE VALLEY AND UP TWENTY-FOUR INCHES ON THE VERTICAL WALL AT A ROOF AND WALL JUNCTURE.



2 ROOF PROPOSED PLAN
1/4" : 1'



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ROOF PLANS

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2.3

DEMO.LEGEND

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RCP.NOTES

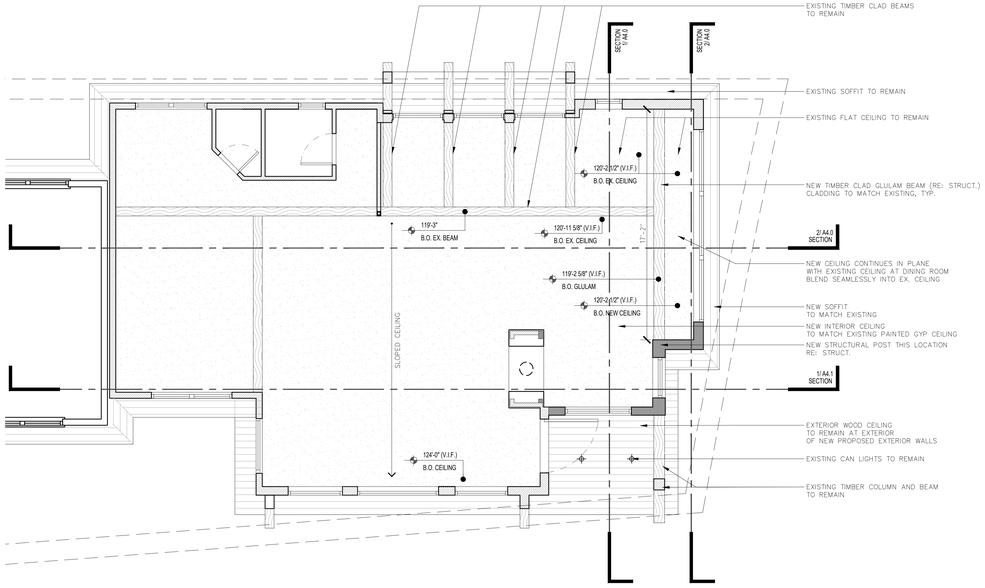
PROVIDE SMOKE DETECTORS, AS REQUIRED BY CODE.

NOTIFY OWNER & ARCHITECT OF ANY CONFLICTS BETWEEN LIGHT FIXTURES & MECHANICAL EQUIPMENT PRIOR TO INSTALLATION. PENDANT LIGHT FIXTURES MAY BE "TRAPEZED" AROUND CONFLICTING MECHNAICAL EQUIPMENT, PER OWNER'S AND ARCHITECT'S APPROVAL.

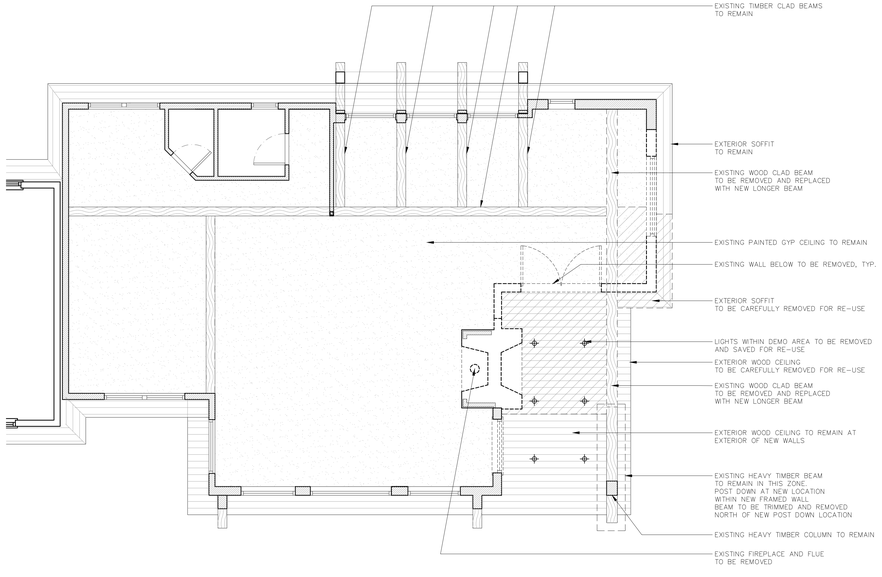
SUBMIT SAMPLES OF ALL MATERIALS FOR APPROVAL.

RCP.MATERIALS

- GYP BOARD, PRIME & PAINT
- CVG T&G SOFFIT
- WOOD BEAM



2 UPPER LEVEL PROPOSED RCP
1/4" : 1'



1 UPPER LEVEL DEMO RCP
1/4" : 1'

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•KEVIN.STEPHENSON

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STATE OF COLORADO
10.12.2024
CHRISTOPHER WILLIAM DAVIS
400094
LICENSED ARCHITECT

OWNERS:
ADAM AND LAINIE MINNICK

LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

09	2024 FOR PRICING
08	2024 DESIGN REVIEW
05	2024 FOR PERMIT
03	2024 REVISION 1
02	2024 DESIGN REVIEW

REFLECTED CEILING PLANS

TWO.ELKCONDO

BOSS ARCHITECTURE
3300 E. 7TH AVE.
DENVER, COLORADO 80206 USA
303.377.6322 | P
303.377.6326 | F
WWW.BOSSARCHITECTURE.COM

2.4

ELEVATION.NOTES

VERIFY ALL DIMENSIONS IN FIELD.

SUBMIT SAMPLES OF ALL MATERIALS FOR APPROVAL.

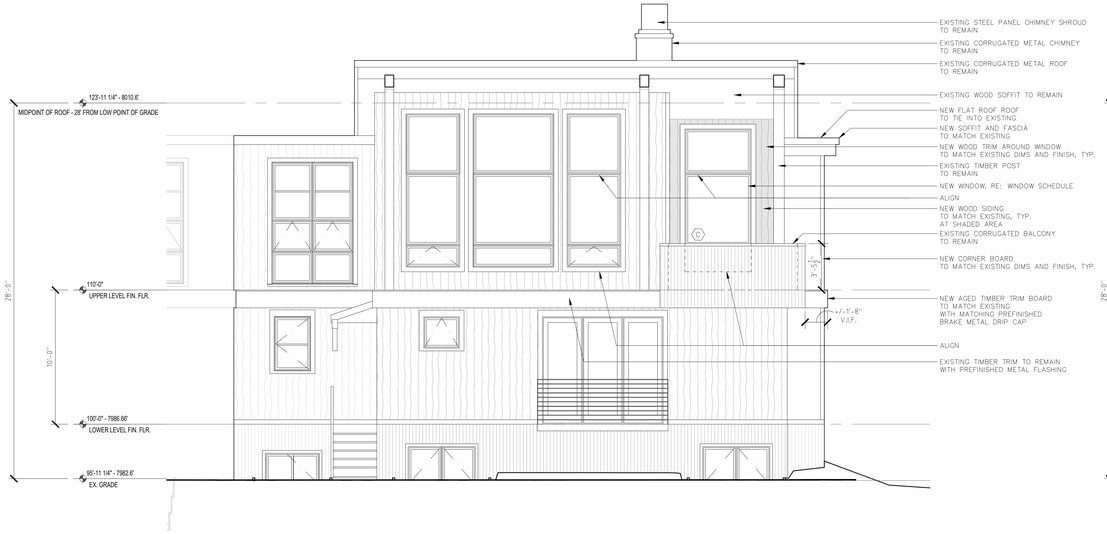
ALL WINDOWS ARE EXISTING, TO REMAIN, UNLESS NOTED OTHERWISE. ALL NEW WINDOWS TO MATCH EXISTING WINDOWS IN FRAME, PROFILE, FRAME SIZE, FRAME FINISH / COLOR, AND GLASS TYPE.

ALL EXTERIOR MATERIALS AND FINISHES ARE EXISTING, TO REMAIN, UNLESS NOTED OTHERWISE. ALL NEW MATERIALS TO MATCH EXISTING MATERIALS IN SIZE, COLOR AND INSTALLATION.

COORDINATE MOUNTING HEIGHTS FOR ALL EXTERIOR SCONCES AND SUSPENSION HEIGHTS FOR ALL SUSPENDED LIGHT FIXTURES.

ELEVATION.MATERIALS

- WOOD SIDING
- CORRUGATED STEEL SIDING
- AREA TO BE REMOVED
- EXISTING WINDOWS OR DOORS TO BE REMOVED



2 SOUTHEAST PROPOSED ELEVATION
1/4" : 1'

1 SOUTHEAST DEMO ELEVATION
1/4" : 1'

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•KEVIN.STEPHENSON

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EXTERIOR ELEVATIONS

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3.0

ELEVATION.NOTES

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ELEVATION.MATERIALS

- WOOD SIDING
- CORRUGATED STEEL SIDING
- AREA TO BE REMOVED
- EXISTING WINDOWS OR DOORS TO BE REMOVED

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.KEVIN .STEPHENSON

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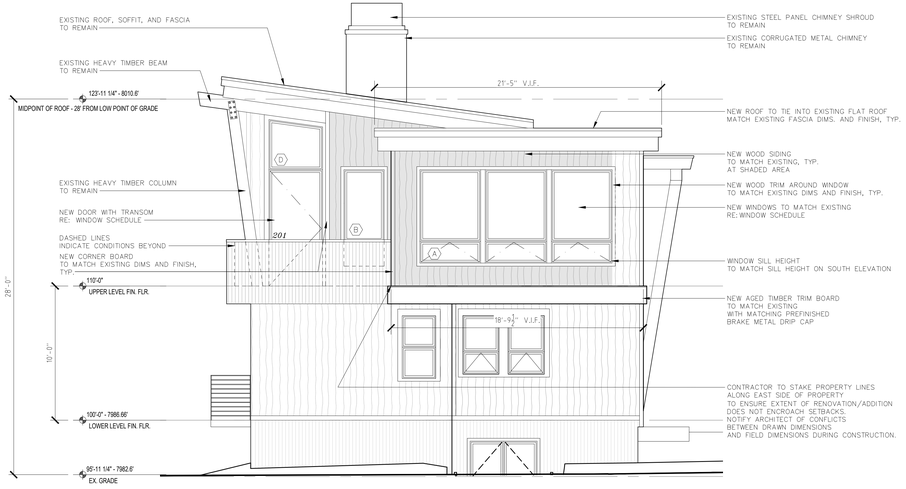
10.12.2022
CHRISTOPHER WILLIAM DAVIS
400094
LICENSED ARCHITECT

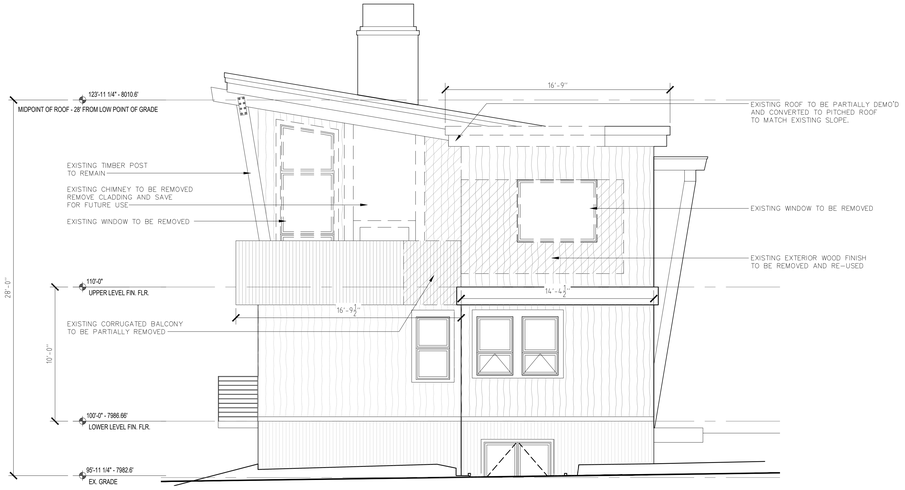
OWNERS:
ADAM AND LAINIE MINNICK

LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

22	2024 FOR PRICING
23	2024 DESIGN REVIEW
24	2024 FOR PERMIT
25	2024 REVISION 1
26	2024 DESIGN REVIEW



2 NORTHEAST PROPOSED ELEVATION
1/4" : 1'



1 NORTHEAST DEMO ELEVATION
1/4" : 1'

EXTERIOR ELEVATIONS

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3.1

ELEVATION.NOTES

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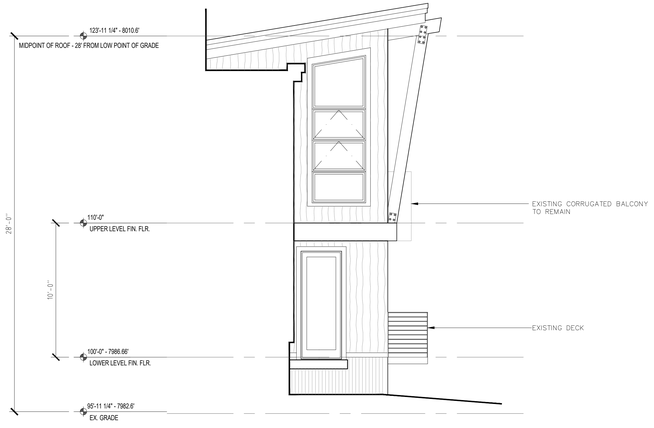
CORRUGATED STEEL SIDING

AREA TO BE REMOVED

EXISTING WINDOWS OR DOORS TO BE REMOVED



2 SOUTHWEST ELEVATION
NO WORK PROPOSED
1/4" : 1'

1 NORTHWEST ELEVATION
NO WORK PROPOSED
1/4" : 1'

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•KEVIN .STEPHENSON

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STATE OF COLORADO
10.12.2024
CHRISTOPHER WILLIAM DAVIS
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LICENSED ARCHITECT

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EXTERIOR ELEVATIONS

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3.2

ELEVATION.NOTES

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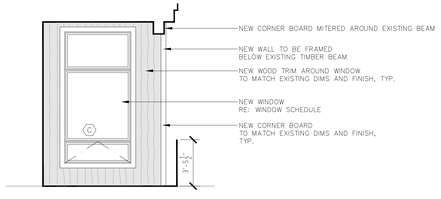
ELEVATION.MATERIALS

WOOD SIDING

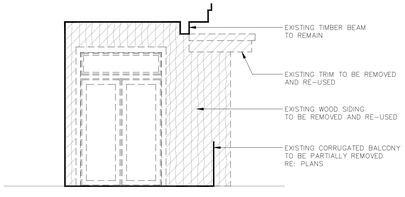
CORRUGATED STEEL SIDING

AREA TO BE REMOVED

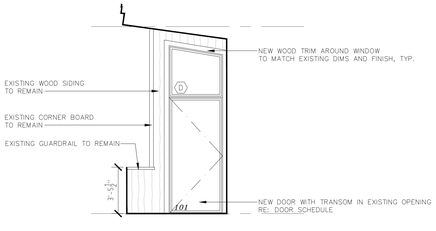
EXISTING WINDOWS OR DOORS TO BE REMOVED



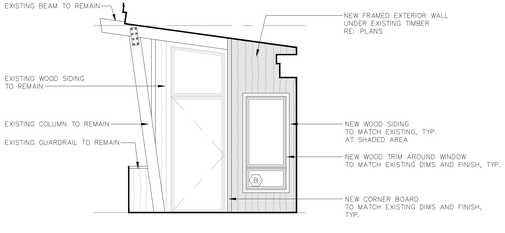
5 SOUTHEAST DECK PROPOSED ELEVATION
1/4" : 1'



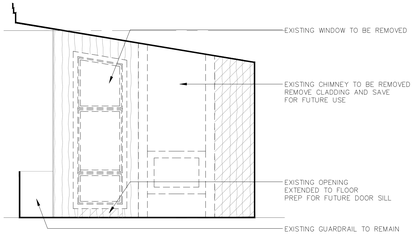
4 SOUTHEAST DECK DEMO ELEVATION
1/4" : 1'



3 NORTHEAST DECK PROPOSED ELEVATION
1/4" : 1'



2 NORTHEAST DECK PROPOSED ELEVATION
1/4" : 1'



1 NORTHEAST DECK DEMO ELEVATION
1/4" : 1'

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STATE OF COLORADO
10.12.2024
CHRISTOPHER WILLIAM DAVIS
400094
LICENSED ARCHITECT

OWNERS:
ADAM AND LAINIE MINNICK

LOCATION:
1014 TWO ELK LANE
MINTURN, COLORADO 81645

09	2024 FOR PRICING
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EXTERIOR ELEVATIONS

TWO.ELKCONDO

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3.3

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner1@minturn.org

Project Name:

Minturn North – Fial Residence

Project Location

Street Address: 185 Miles End Lane

Zoning: Residential

Parcel Number(s): 2103-262-30-021

Application Request:

DRB Minor Modifications

Applicant:

Name: Taylor Hermes & Rick Hermes – Minturn North Construction Company, LLC

Mailing Address: PO Box 2633 Edwards, CO 81632

Phone: 970-926-1720

Email: THermes@ResortConceptsCO.com

Property Owner:

Name: Charlie & Kay Fial

Mailing Address: 9635 Avocet Ln. Lafayette, CO 80026

Phone: 303-517-9530 (Charlie) / 303-717-7887 (Kay)

Email: TCFial@comcast.net / KNorbyFial@me.com

Required Information:

Lot Size: 0.164 acres	Type of Residence (Single Family, ADU, Duplex) SFH	# of Bedrooms 4	# On-site Parking Spaces 4
# of Stories: 2	Snow storage sq ft: 695 sf	Building Footprint sq ft: 2,658 sf	Total sq ft Impervious Surface: 3,437 sf

Signature:

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

EGGERS
ARCHITECTURE, INC

September 18, 2024

Town of Minturn Planning Department

RE: 0185 Miles End Lane, Lot 20
Building Permit Review

All:

Please find attached revised documents to address permit review comments per the following:

Staff comments letter dated August 28, 2024:

1. The removal of the center post on the rear elevation is bubbled on page A2.2.

Inter-Mountain Engineering letter dated August 15, 2024:

1. The geotechnical engineer information was added to the cover sheet.
2. Sheet C1 has been revised to address the erosion & sediment control comments.
3. Sheet C1 notes have been updated to address the copper water service comment.

Shums Coda letter dated August 27, 2024:

A1: Sheets E1.1 & E1.2 have been updated to include smoke and CO alarms.
A2: The window schedule on sheet A3.5 has been updated to show tempered window locations.
M1: A separate document is provided that shows the BTU requirements of the mechanical system components and the gas line sizing to those elements.
M2: A note has been added to sheet A1.2 regarding the dryer vent in a 2x6 wall.
M3: A separate document is provided that shows the BTU requirements of the mechanical system components and the gas line sizing to those elements.
M4: Exhaust hood specs have been added to the separate mechanical page. No make up air required.
M5: Sheet E1.2 has been updated to show the additional exhaust fan.
EN1: A manual JDS has been included in the attachments.
E1: See A1 above.
S1: Page S2.2 has been updated to show the lateral connections for the deck.
S2: There is an existing note on pages S2.2 & S2.3 on the left side indicating the standard header size.

Please let me know if you have any questions or need clarifications.

Sincerely,

Don Eggers
Eggers Architecture, Inc.

P.O. Box 798 Kremmling Colorado 80459
(970) 724-3411 Fax (970) 724-3412

FIAL RESIDENCE

185 MILES END LANE
LOT 20, MINTURN NORTH
MINTURN, COLORADO

DRB SUBMITTAL SET	MAY 31, 2024
REVISED DRB SUBMITTAL	JUNE 26, 2024
BUILDING PERMIT SET	JULY 22, 2024
REVISED PERMIT SET	SEPTEMBER 18, 2024

OWNER'S REPRESENTATIVE
RESORT CONCEPTS
PO BOX 5127
EDWARDS, COLORADO 81632
(970) 926-1720

ARCHITECT
EGGERS ARCHITECTURE, INC
PO BOX 798
KREMMLING, COLORADO 80459
(970) 409-9790

STRUCTURAL ENGINEER
SUNDQUIST DESIGN GROUP
PO BOX 249
TARPON SPRINGS, FLORIDA 34688
(303) 335-6034

LANDSCAPE ARCHITECT
TOMINA TOWNSEND
PO BOX 3000
EDWARDS, COLORADO 81632
(303) 945-5252

CIVIL ENGINEER
BOUNDARIES UNLIMITED, INC.
923 COOPER AVENUE, SUITE 201
GLENWOOD SPRINGS, COLORADO 81601
(970) 945-5252

SURVEYOR
SLAGLE SURVEY SERVICES
PO BOX 751
EAGLE, COLORADO 81631
(970) 471-1499

GEOTECHNICAL ENGINEER
CTL THOMPSON, INC
1790 AIRPORT ROAD, UNIT 2
BRECKENRIDGE, COLORADO 80424
(970) 453-2047

PROJECT INFORMATION:

FLOOR AREA:	FINISHED	MECH	GARAGE	TOTAL
LOWER LEVEL:	1,345SF	124 SF		1,469 SF
MAIN LEVEL:	1,653 SF		622 SF	2,275 SF
TOTALS:	2,998 SF	125 SF	622 SF	3,745 SF

LOT AREA:	7,134.84 SF		
BUILDING COVERAGE:	2,658 SF	37.25 %	50% ALLOWABLE
IMPERVIOUS COVERAGE:	3,437 SF	48.16 %	60% ALLOWABLE

CODE INFORMATION:

JURISDICTION: TOWN OF MINTURN, COLORADO

CODES: 2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
+ LOCAL AMENDMENTS

DRAWING SCHEDULE

C	COVER
	FINAL PLAT MINTURN NORTH P.U.D.
C.5	MINTURN NORTH P.U.D. FINAL GRADING PLAN
C1	SITE GRADING, DRAINAGE & EROSION CONTROL PLAN
C2	CIVIL DETAILS
L1	LANDSCAPE PLANTING PLAN
L2	LANDSCAPE SCHEDULES & DETAILS
A1.1	LOWER LEVEL PLAN
A1.2	MAIN LEVEL PLAN
A1.3	ROOF PLAN
A2.1	BUILDING ELEVATIONS
A2.2	BUILDING ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A3.3	DETAILS
A3.4	DETAILS
A3.5	DOOR/WINDOW SCHEDULE & DETAILS
A4.1	LOWER LEVEL CEILING PLAN
A4.2	MAIN LEVEL CEILING PLAN
BH1	BUILDING HEIGHT CALCULATIONS
S1.1	STRUCTURAL NOTES & DETAILS
S2.1	FOUNDATION PLAN
S2.2	MAIN FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	FOUNDATION DETAILS
S3.2	FRAMING DETAILS
E1.1	LOWER LEVEL SCHEMATIC ELECTRIC PLAN
E1.2	MAIN LEVEL SCHEMATIC ELECTRIC PLAN
E1.3	ROOF SCHEMATIC ELECTRIC PLAN

DISCLAIMER: ALL PLANS, RENDERINGS, SPECIFICATIONS AND MARKETING MATERIALS ARE SUBJECT TO REVISIONS AND MODIFICATIONS AT DEVELOPERS SOLE DISCRETION DUE TO SITE SPECIFIC GRADING CONDITIONS, AVAILABILITY OF MATERIALS, AVAILABILITY OF LABOR, MANUFACTURER SUPPLY SHORTAGES, AND GOVERNMENTAL AGENCY CHANGES. ALL PLANS AND SPECIFICATIONS ARE SUBJECT TO REVISIONS AND CONDITIONS OF APPROVAL BY THE TOWN OF MINTURN CITY COUNCIL, TOWN OF MINTURN DESIGN REVIEW BOARD, TOWN OF MINTURN BUILDING PERMIT DEPARTMENT AND ALL OTHER APPLICABLE REGULATORY AGENCIES. ARTIST RENDERINGS HAVE BEEN PROVIDED FOR ILLUSTRATIVE AND MARKETING PURPOSES ONLY AND SHOULD NOT BE RELIED UPON AS A BASIS FOR PURCHASING. COLOR, MATERIALS AND DESIGN ELEMENTS ARE SUBJECT TO REFINEMENT AND REVISION WITHOUT NOTICE AT DEVELOPERS SOLE DISCRETION.

EGGERS ARCHITECTURE, INC.
PO BOX 798 KREMMLING, CO 80459
(970) 724-3411 CELL: (970) 409-9790
don.eggers@eggersarchitecture.com

RESORT CONCEPTS
225 MAIN STREET, SUITE C-101
EDWARDS, COLORADO
(970) 926-1720

STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

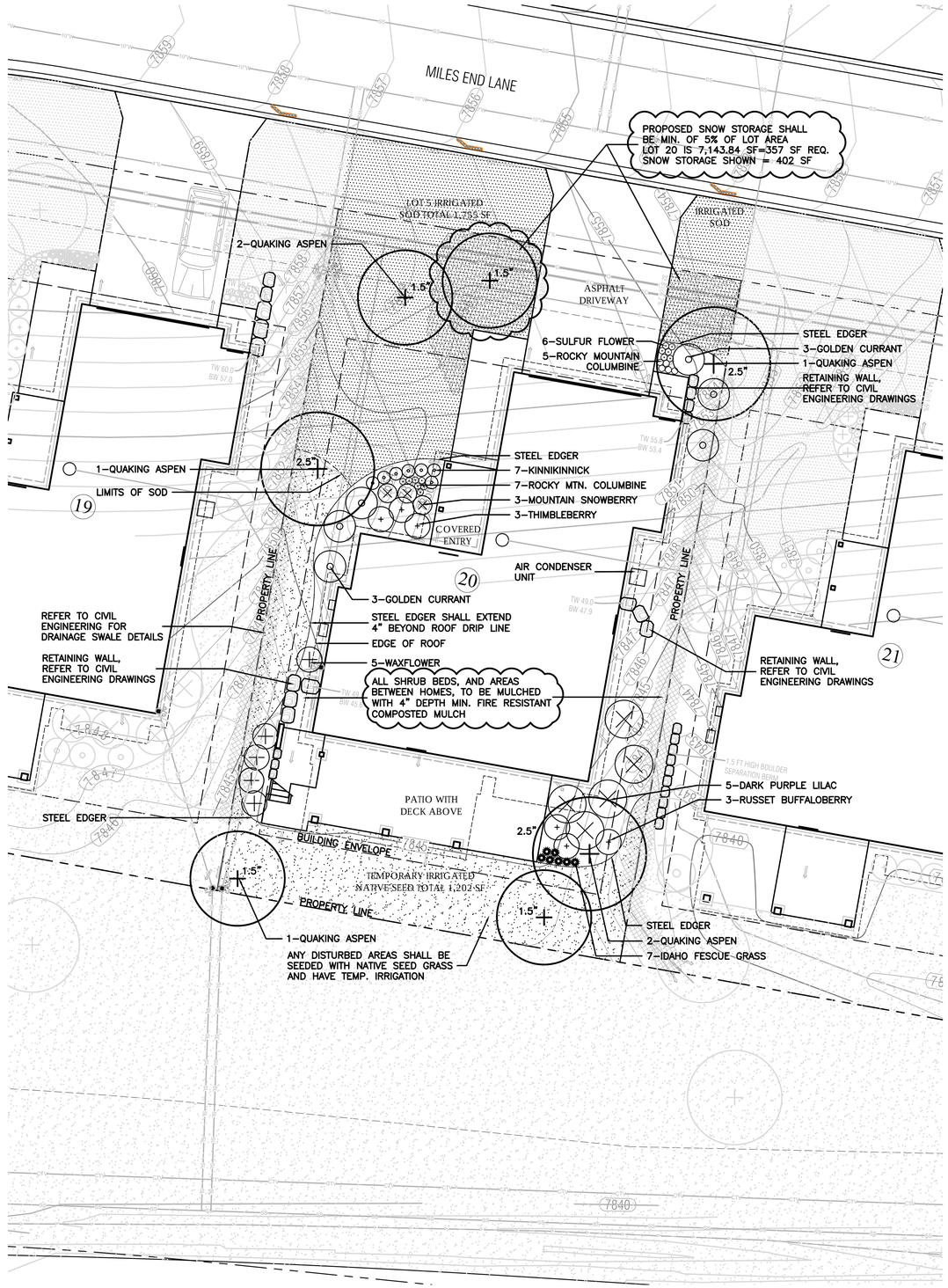
FIAL
185 MILES END LANE
LOT 20, MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L20

ISSUED

#	DATE	BY	COMMENTS
6	9-18-24	DWE	REVISED PERMIT SET
5	7-22-24	DWE	BUILDING PERMIT SET
4	6-26-24	DWE	REVISED DRB SUBMITTAL SET
3	5-31-24	DWE	DRB SUBMITTAL SET

C



LEGEND

- IRRIGATED SOD, REFER TO L2 FOR DETAILS
- NATIVE SEED MIX WITH TEMPORARY IRRIGATION, REFER TO L2 FOR DETAILS
- PROPOSED RETAINING WALL, REFER TO CIVIL ENGINEERING FOR DETAILS
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS SHRUBS
- PROPOSED ORNAMENTAL GRASSES
- PROPOSED FLOWERING PERENNIALS
- SNOW STORAGE AREA

Know what's below. Call before you dig.

LANDSCAPE ARCHITECT:
TOMINA TOWNSEND, LA
PO BOX 3000, PMB 301
EDWARDS, CO 81632
P. 303.572.7876
TTownsend@ResortConceptsCO.com

MINTURN NORTH P.U.D.

LOT 20-LANDSCAPE PLAN
TOWN OF MINTURN, COLORADO

DESIGNED: TT
DRAWN: TT
CHECKED: RH
DATE: May 31, 2024
REVISIONS:

VERIFIED SQUARE FEET OF LOT AREA FOR SNOW STORAGE CALCULATION AND MOVED IT OUT OF ROW. MOVED ASPEN OFF OF ROW LINE: 6.26.24

PERMIT SET: 7.22.24

REVISED PERMIT SET: 9.18.24

0 5 10 20
SCALE: 1"=10'-0"

REVISED PERMIT SET

SHEET TITLE:

PROPOSED LANDSCAPE PLAN

SCALE: 1"=10'-0"

SHEET NUMBER:

L1

General Notes and Specifications:

1. All areas disturbed by construction and not designated a shrub bed or sod, shall be planted with the specified native grass seed.
2. The contractor shall maintain positive drainage away from all walls and walkways. Fine grading shall be approved prior to planting.
3. The Landscape Plan shall be reviewed on site prior to installation to ensure planting meets the intent of the design guidelines and Town of Minturn standards.
4. See Civil Engineering sheets for final grading and drainage.
5. Snow Storage area shall be a min. of 25% of all driveway and parking areas.

Revegetation Notes:

1. Seed shall be broadcast and raked to ¼" depth.
2. Apply Biodegradable Green Dyed-Wood Celluose-Fiber Mulch to all seeded Areas at a rate of 20 lbs. per 1,000 s.f.
3. Prior to seeding, apply min. 6" topsoil, 10 lbs./1,000 s.f. Superphosphate and 40 lbs./1,000 s.f. Biosol Complete Fertilizer.

Fire Mitigation Recommendations:

1. Zone 1 (15' from building and integral planting): no highly flammable plants, such as evergreen trees and shrubs should be planted within 15' of the structure or attachments.
2. Zone 2 (70' from building and Integral planting): a 10' crown separation must be maintained for all evergreen trees and shrubs over 4' height. A 4' crown separation must be maintained for evergreen shrubs under 4' height.
3. Plants listed on forest service publication 6.305 FireWise Plant Material can be used in any zone.
4. Existing junipers within Zone 1 and Zone 2 must be limbed ⅓ of their total height, but no more than 10' height.
5. Dead limbs shall be removed from all existing Serviceberry within Zone 1 or Zone 2.
6. If necessary, final existing vegetation to be limbed or removed for fire mitigation purposes will be subject to the constraints of the final unit site plans and reviewed on site with a representative from the Town of Minturn on a unit by unit basis prior to construction.

LEGEND & IRRIGATION CALCULATIONS:

Permanent Irrigation		Square Footage of Irrigation
	Permanent Pop–Up Spray Irrigation For Bluegrass Sod	1,755 SF
	Permanent micro–spray or drip irrigation for perennial beds	25 PERENNIALS x 1 SF = 25 SF
	Permanent Drip Irrigation For B&B Trees	7 TREES x 4.5 SF = 32 SF
	Permanent Drip Irrigation For 5 gal. Shrubs & Grasses	32 SHRUBS x 3 SF = 96 SF
		TOTAL PERMANENT IRRIGATED AREA: 1,908 SF
	Temporary Spray Irrigation For Native Seed	1,202 SF

IRRIGATION NOTES:

1. DESIGN CRITERIA: DESIGN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM TO UNIFORMLY IRRIGATE ALL PLANTING AREAS. ZONE IRRIGATED SOD, NATIVE SEED GRASS, AND SHRUB PLANTING AREAS SEPARATELY. PROVIDE DRIP IRRIGATION FOR SHRUB BEDS. PROVIDE MICRO–SPRAY HEADS OR DRIP IRRIGATION, DEPENDING ON PLANT MATERIAL, IN PERENNIAL AND GROUNDCOVER BEDS. DESIGN ROTORS FOR TURF GRASS AREAS MORE THAN 40' WIDE, AND POP–UP SPRAY HEADS FOR AREAS LESS THAN 40' WIDE.
2. ALL TREES AND SHRUBS TO BE DRIP IRRIGATED.

ALL DISTURBED AREAS SHALL BE SEEDED WITH: 'DRY NATIVE MOUNTAIN' SEED MIX

THIS SEED MIX HAS BEEN CHOSEN FOR THE SPECIFIC PROJECT LOCATION AND ELEVATION. LANDSCAPE INSTALLER SHALL NOT DEVIATE FROM THIS REVEGETATION SEED MIX WITHOUT WRITTEN APPROVAL FROM THE RESORT CONCEPTS SITE MANAGER.

COMMON NAME	SEEDING RATE % MIX	BULK LBS PER ACRE
SANDBERG BLUE	10%	5.00
MOUNTAIN BROME	20%	10.00
SLENDER WHEATGRASS	15%	7.50
BLUEBUNCH WHEATGRASS	10%	5.00
ROCKY MOUNTAIN FESCUE	10%	5.00
THICKSPIKE WHEATGRASS	15%	7.50
BOTTLEBRUSH SQUIRRELTAIL	2.5%	1.25
STREAMBANK WHEATGRASS	15%	7.50
PRAIRIE JUNEGRASS	2.5%	1.25
TOTAL LBS./ACRE	100%	50

NOTES:

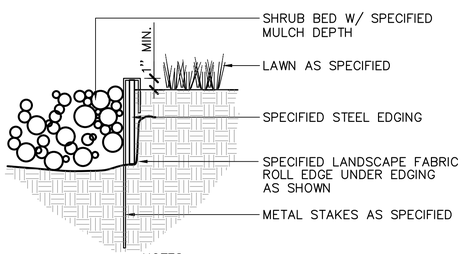
PERCENTAGES OF MIXES VARY YEAR–TO–YEAR DEPENDING ON HARVEST OF SEEDS. HYDROSEED OR HAND BROADCAST: 1 LB. PER 1,000 SQ. FT. OR 50 LBS. PER ACRE. RAKE IN ¼" DEEP AND IRRIGATE, IF POSSIBLE UNTIL ESTABLISHED. 'DRY NATIVE MOUNTAIN' SEED MIX IS AVAILABLE FROM PAWNEE BUTTES SEED INC., 605 25TH STREET, GREELEY, CO 80632.
PHONE: 1–800–782–5947
WEBSITE: PAWNEEBUTTESSEED.COM

PROPOSED PLANT MATERIALS LIST

Note: All plant material has been chosen from the CSU Extension Office recommended plant lists. These lists have been cross referenced to find suitable plants for the elevation of Minturn (10,000 ft and above), and also to maximize use of plants native to the area, low-water use plants, and plants that enhance habitat and food sources for insects, butterflies, birds and other animals. The cross referenced lists are the following:

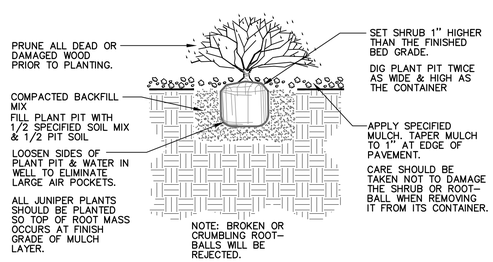
- CSU Extension, Fire Wise Plant Materials - 6.305
- CSU Extension, Trees and Shrubs for Mountain Areas - Fact Sheet No. 7.423
- CSU Extension, Low-Water Native Plants for Colorado Gardens, Mountains 7,500' and Above - CO Native Plant Society
- CSU Extension, Native Trees for Colorado Landscapes - Fact Sheet No. 7.421
- CSU Extension, Native Shrubs for Colorado Landscapes - Fact Sheet No. 7.422

QUAN.	COMMON/ BOTANICAL NAME	FIRE MITIGATION ZONE	SIZE	COMMENTS
	DECIDUOUS TREES			
4	Quaking Aspen Populus tremuloides	1 & 2	1.5" cal.	Specimen quality B&B, guyed
3	Quaking Aspen Populus tremuloides	1 & 2	2.5" cal.	Specimen quality B&B, guyed
	ORNAMENTAL GRASSES (planted @ 12" O.C. spacing)			
7	Idaho Fescue Grass, Festuca idahoensis 'Siskiyou Blue'	1 & 2	1 gal.	Container Full
	PERENNIAL GROUNDCOVERS (planted @ 12" O.C. spacing)			
7	Kinnikinnick Arctostaphylos uva–ursi	1 & 2	1 gal.	Container Full, 5 canes minimum
6	Sulfur Flower Eriogonum umbellatum	1 & 2	Flats of 15 or 32	
	PERENNIAL FLOWERS (planted @ 12" O.C. spacing)			
12	Rocky Mountain Columbine Aquilegia coerulea	1 & 2	Flats of 15 or 32	
	DECIDUOUS SHRUBS			
5	Dark Purple Lilac Syringa vulgaris 'Yankee Doodle'	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
6	Golden Currant Ribes aureum	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
3	Mountain Snowberry Symphoricarpos oreophilus	1 & 2	5 gal.	Container, 5 canes minimum 12"–18" ht.
3	Thimbleberry Rubus parviflorus	1 & 2	5 gal.	Container, 5 canes minimum 18"–24" ht.
3	Russet Buffaloberry Shepherdia canadensis	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
5	Waxflower Jamesia americana	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.

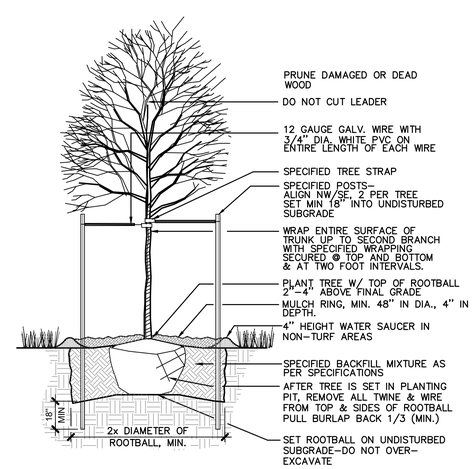


NOTES:
1) SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
2) EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR, AND FLUSH W/ GRADES OF CONCRETE.
3) ALL JOINTS TO BE SECURELY STAKED.
4) CONTRACTOR SHALL CUT TOP EDGE(S) AS NEEDED TO BE PARALLEL WITH GRADE.

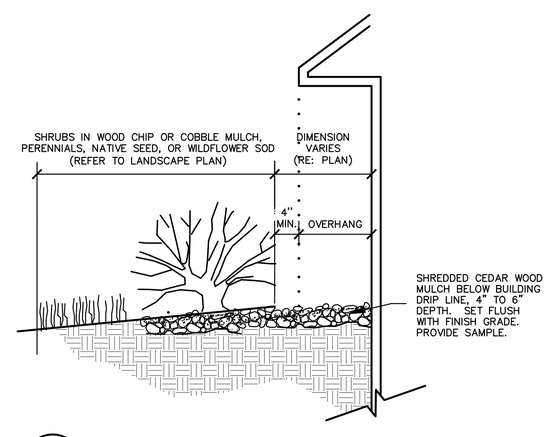
1 L2 STEEL EDGER
NOT TO SCALE



2 L2 SHRUB PLANTING
NOT TO SCALE



3 L2 DECIDUOUS TREE PLANTING
NOT TO SCALE



4 L2 MULCH ARMORED DRIP LINE
NOT TO SCALE

Know what's below. Call before you dig.

LANDSCAPE ARCHITECT:
TOMINA TOWNSEND, LA
PO BOX 3000, PMB 301
EDWARDS, CO 81632
P. 303.572.7876
TTownsend@ResortConceptsCO.com

MINTURN NORTH P.U.D.
LOT 20-LANDSCAPE PLAN
TOWN OF MINTURN, COLORADO

DESIGNED: TT
DRAWN: TT
CHECKED: RH
DATE: May 31, 2024
REVISIONS:

VERIFIED SQUARE FEET OF LOT AREA FOR SNOW STORAGE CALCULATION AND MOVED IT OUT OF ROW. MOVED ASPEN OFF OF ROW LINE: 6.26.24

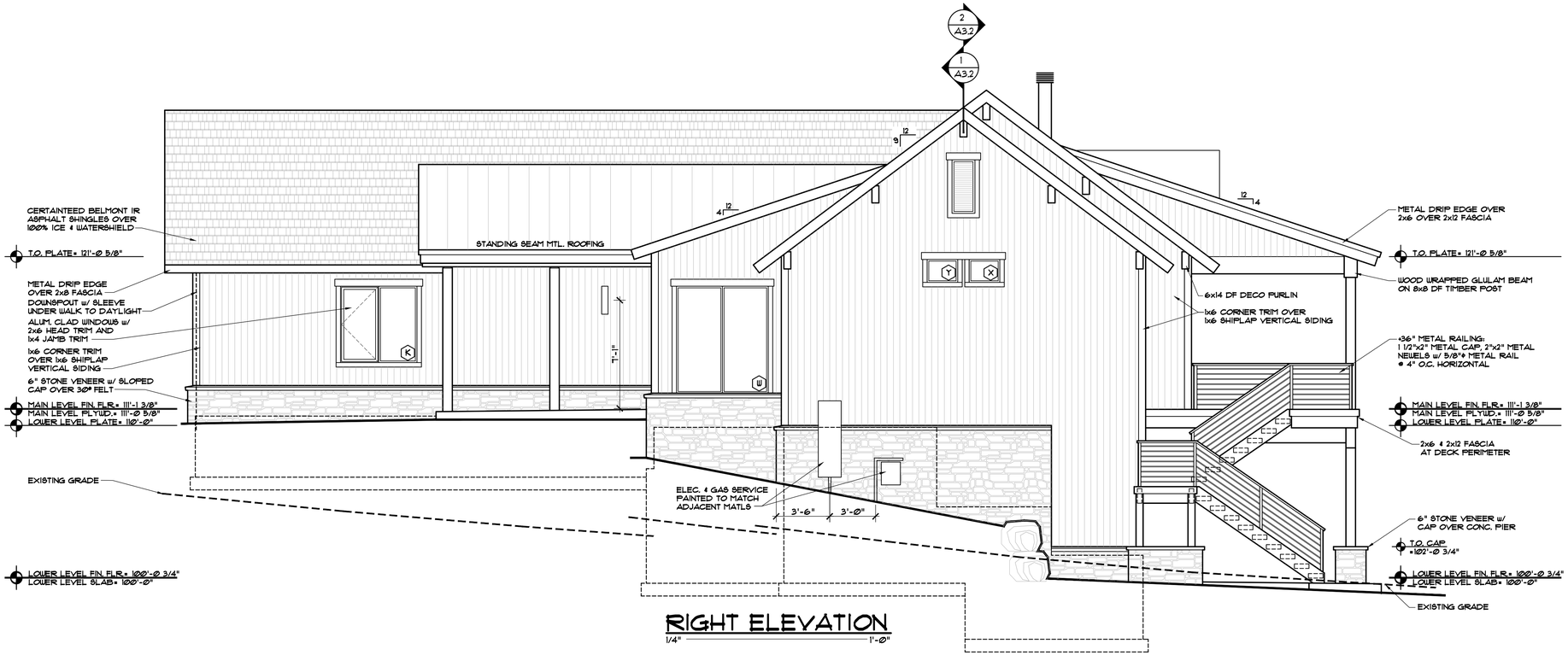
PERMIT SET: 7.22.24

REVISED PERMIT SET: 9.18.24

REVISED PERMIT SET

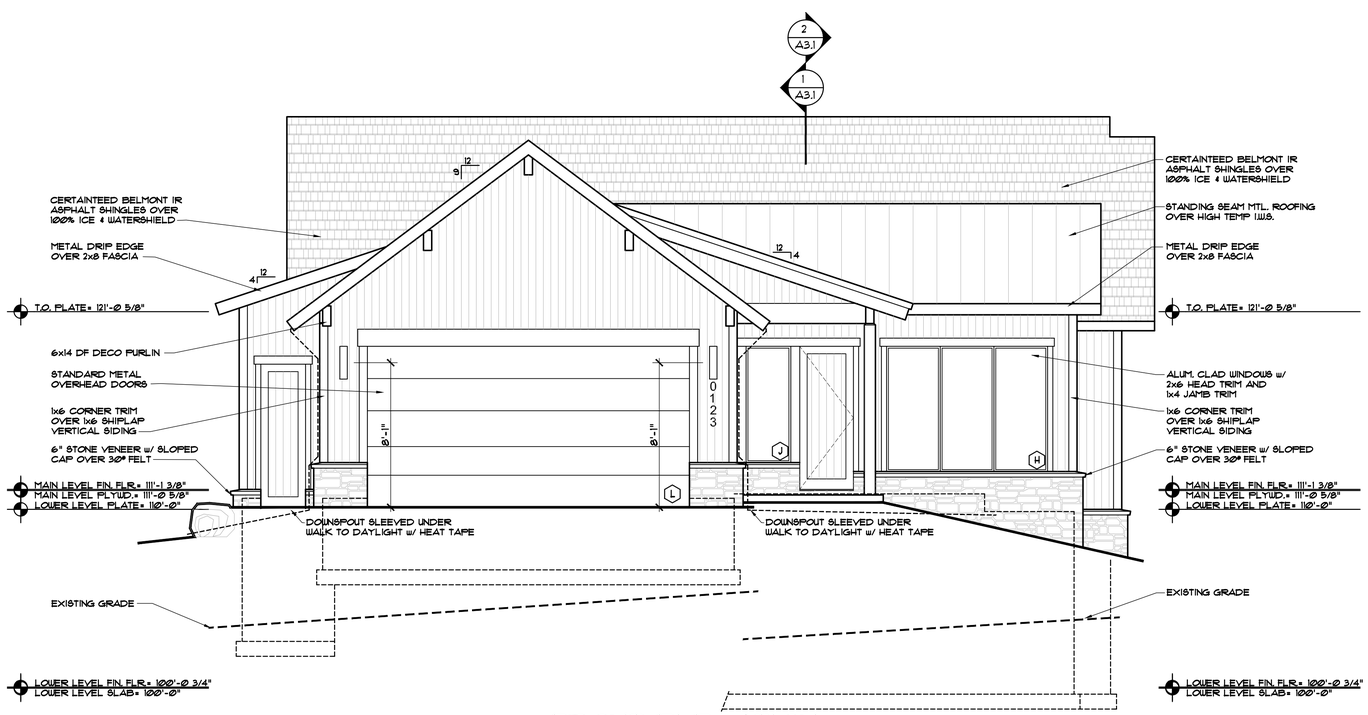
SHEET TITLE:
LANDSCAPE NOTES & DETAILS

SCALE: NOT TO SCALE
SHEET NUMBER:
L2



RIGHT ELEVATION

1/4" — 1'-0"



FRONT ELEVATION

1/4" — 1'-0"

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EGGERS
ARCHITECTURE, INC.
PO BOX 798 KREMMLING, CO 80459
(970) 724-3411 CELL: (970) 409-9790
don.eggers@eggersarchitecture.com

RESORT CONCEPTS
225 MAIN STREET, SUITE C-101
EDWARDS, COLORADO
(970) 926-1720

STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

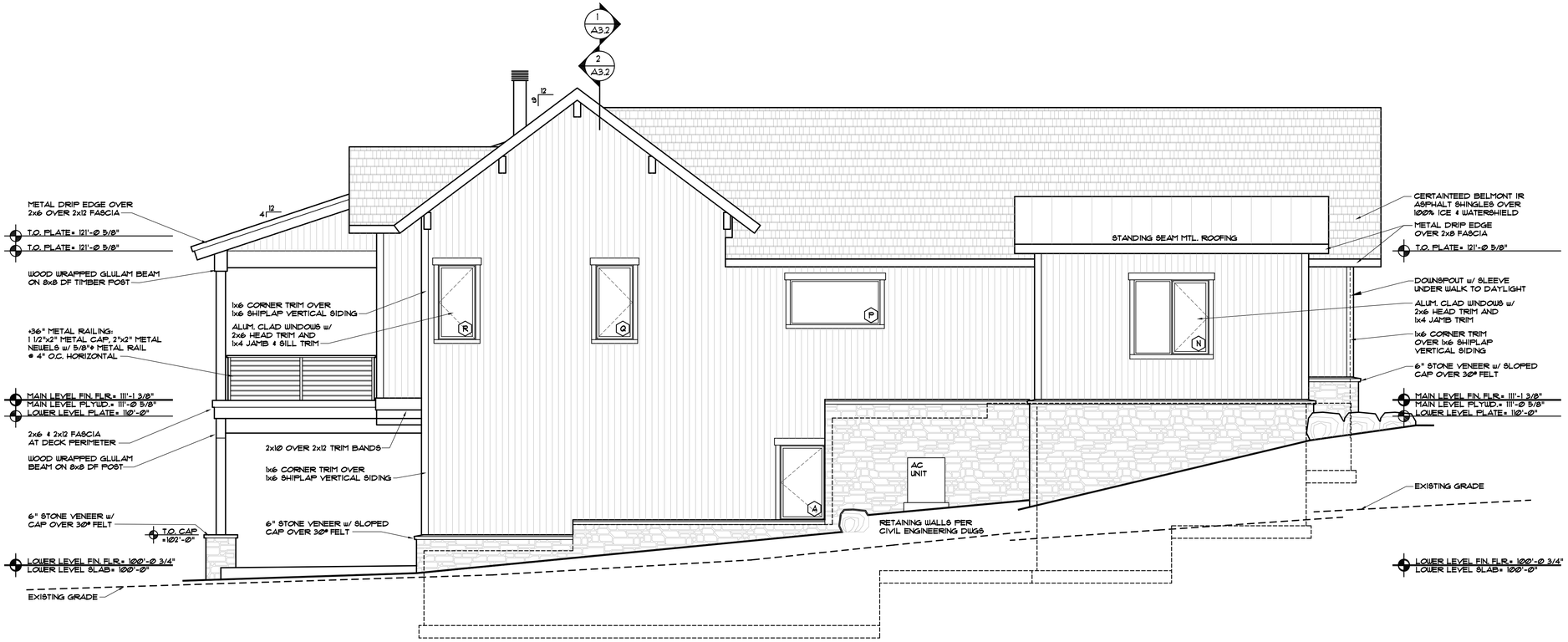
FIAL
185 MILES END LANE
LOT 20, MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L20

ISSUED

#	DATE	BY	COMMENTS
6	9-18-24	DWE	REVISED PERMIT SET
5	7-22-24	DWE	BUILDING PERMIT SET
4	6-26-24	DWE	REVISED DRB SUBMITTAL SET
3	5-31-24	DWE	DRB SUBMITTAL SET

A2.1



LEFT ELEVATION

1/4" = 1'-0"

REAR ELEVATION

1/4" = 1'-0"

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4	6-26-24	DWE	REVISED DRB SUBMITTAL SET
3	5-31-24	DWE	DRB SUBMITTAL SET

A2.2

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner1@minturn.org

Project Name:

Minturn North – Bombard Residence

Project Location

Street Address: 186 Miles End Lane

Zoning: Residential

Parcel Number(s): 2103-262-30-007

Application Request:

DRB Minor Modifications

Applicant:

Name: Taylor Hermes & Rick Hermes – Minturn North Construction Company, LLC

Mailing Address: PO Box 2633 Edwards, CO 81632

Phone: 970-926-1720

Email: THermes@ResortConceptsCO.com

Property Owner:

Name: David & Adriana Bombard

Mailing Address: PO Box 2185 Edwards, CO 81632

Phone: 415-309-3582

Email: DBombard1@gmail.com / Adriana.Sulak@gmail.com

Required Information:

Lot Size: 0.158 acres	Type of Residence (Single Family, ADU, Duplex) SFH	# of Bedrooms 5	# On-site Parking Spaces 4
# of Stories: 2	Snow storage sq ft: 349 sf	Building Footprint sq ft: 3,154 sf	Total sq ft Impervious Surface: 4,133 sf

Signature:

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

DESIGN REVIEW APPLICATION

SUBMITTAL CHECKLIST REQUIREMENTS
(TO BE INCLUDED WITH APPLICATION)

Applicant	Staff	
☐	☐	**Application Fee** (Non-Refundable application fee shall be collected)
		• Design Review Board - $200.00
☐	☐	**Letter of Intent**
		-- What is the purpose of the project including;
☐	☐	• Relevant Background
☐	☐	• Current Status of the Site
☐	☐	• All Proposed Uses and Structures
☐	☐	• How the Proposal Differs from what already exists
☐	☐	• Information regarding Easements or Dedicated Tracts, etc.
☐	☐	**Vicinity Map**
		-- Directional Map indicating how to get to the Property involved in the request.
☐	☐	• Zoning of Property
☐	☐	**Site Plan showing Precise Nature of the Proposed Use –**
☐	☐	**To Scale**
☐	☐	• Scaled Drawings of Proposed Design of Structure
☐	☐	○ Plan View and Sections
☐	☐	• Building Heights – all 4 directions N/S/E/W
☐	☐	• topography
☐	☐	• Building Location and impervious coverage
☐	☐	• Setbacks
☐	☐	• Ordinary High Water Mark determined by the Town Engineer and paid for by Applicant
☐	☐	• Parking Plan
☐	☐	• Traffic Circulation
☐	☐	○ Location and Width of Existing and Proposed Access Points
☐	☐	○ Location of Existing Driveways and Intersections
☐	☐	• Landscaped Area – Plan including existing and proposed vegetation.
☐	☐	• Approximate Location of Existing Wooded Areas and Rock Outcrops
☐	☐	• Location and Type of Existing and Proposed Easements
☐	☐	• Utility Easements
☐	☐	• Drainage Features
☐	☐	• Snow Storage areas expressed in square feet as a percentage of the overall site area
☐	☐	**Preliminary Building Plans and Elevations**
☐	☐	• Indicates Dimensions
☐	☐	• General Appearance
☐	☐	• Scale
☐	☐	• Interior Plan for the Buildings

Elements needed on the Site Plan

- Scale
- North Arrow
- Date Prepared
- Lot Dimensions, Area, Entire Site Acreage

Architecture Details – Materials Board

- Windows – Placement and Color
- Doors – Placement and Color
- Siding – Type and Color
- Roof Material – Type and Color
- Paint Color

Boundary Survey with a stamp and signature of a licensed surveyor

- Date of survey (survey date must be within 6 months of the project application date
- Right-of-way and property lines; including bearings, distances and curve information.
- Labeled ties to existing USGS benchmark.
- Property boundaries to the nearest one-hundredth (.01) of a foot accuracy. Distances and bearings and a basis of bearing must be shown. Show existing pins or monuments found and their relationship to the established corner.
- All existing easements recorded with the County Clerk and Recorder. Include bearings and distances.
- Spot elevations at the edge of asphalt along the street frontage of the property at five-foot intervals, and a minimum of two (2) spot elevations on either side of the lot.
- Topographic conditions at two-foot contour intervals.
- Existing trees or groups of trees having trunks with diameters of four (4) inches or more.
- Rock outcroppings and other significant natural features.
- All utility meter locations, including any pedestals on site or in the right-of-way adjacent to the site and the exact location of existing utility sources.
- Environmental hazards where applicable (i.e., rock fall, wetlands and floodplain).
- Watercourse setbacks, if applicable. Show centerline and edge of stream or creek in addition to the required stream setback from the ordinary high water mark.

Grading and Drainage Plan

- Existing contours. Existing two-foot contours must be provided for all disturbed areas. Contours for undisturbed areas must be shown when drainage in those areas impacts the disturbed area.
- Proposed contours. Proposed two-foot contours for all disturbed areas must be shown and must demonstrate positive drainage.
- Spot elevations. Show critical spot elevations, as necessary to demonstrate positive drainage and the direction of flow. Finished grade at all building corners must be provided.
- Top-of-foundation elevations. The top-of-foundation elevation must be shown on the plan and must be consistent with the foundation plan. For buildings on slopes of thirty percent (30%) or greater, elevations for stepped foundation walls must be shown.
- Drainage arrows. Include drainage arrows that show how stormwater will be routed around buildings and where stormwater will exit the property. Stormwater cannot cause damage to any adjacent property. Drainage and erosion control features needed to prevent damage must be included.
- Drainage facilities. Proposed drainage facilities, such as French drains or culverts, must be shown.
- Retaining walls. Retaining wall details are required and must include drainage details. Note top- and bottom-of-wall elevations at each location where the retaining wall steps up or down, and include the tallest point of the retaining wall.

EGGERS
ARCHITECTURE, INC

September 18, 2024

Town of Minturn Planning Department

RE: 0186 Miles End Lane, Lot 7
Building Permit Review

All:

A couple of additional changes are included that were not approved at final DRB:

1. The previously approved two tier boulder retaining wall along the north and east side of the residence has been replaced with a single tier MSE wall as shown on sheet C1. The reason behind the change is to maintain a consistent wall material on the perimeter of the development.
2. A gas meter has been added to the plans. It is shown on C1, A1.1, & A2.2.

Please find attached revised documents to address permit review comments per the following:

Staff comments letter dated August 28, 2024:

1. The increase in stone height was bubbled on sheet A2.1.
2. The required stair railing off the rear terrace was bubble on sheet A2.2.

Inter-Mountain Engineering letter dated August 14, 2024:

No changes necessary.

Shums Coda letter dated August 27, 2024:

A1: Sheets E1.1 & E1.2 have been updated to include smoke and CO alarms.
A2: The window schedule on sheet A3.5 has been updated to show tempered window locations.
M1: The mechanical system is all electric. It is being designed by a mechanical engineer and will be submitted when completed. The only gas for the residence is the range and gas grill.
M2: A note has been added to sheets A1.1 & A1.2 regarding the dryer vent in a 2x6 wall.
M3: A separate document is provided that shows the BTU requirements of the range & gas grill and gas line sizing to those elements.
M4: Exhaust hood specs have been added to the separate mechanical page. No make-up air required
M5: Sheet E1.2 has been updated to show the additional exhaust fan.
EN1: A manual JDS will be provided with the completed mechanical design.
E1: See A1 above.
S1: There is an existing note on pages S2.2 & S2.3 on the left side indicating the standard header siz

Please let me know if you have any questions or need clarifications.

Sincerely,

Don Eggers
Eggers Architecture, Inc.

P.O. Box 798 Kremmling Colorado 80459
(970) 724-3411 Fax (970) 724-3412

BOMBARD RESIDENCE

186 MILES END LANE
LOT 07, MINTURN NORTH
MINTURN, COLORADO

DRB SUBMITTAL SET	MAY 17, 2024
REVISED DRB SUBMITTAL	JUNE 14, 2024
BUILDING PERMIT SET	JULY 8, 2024
REVISED PERMIT SET	SEPTEMBER 18, 2024

OWNER'S REPRESENTATIVE
RESORT CONCEPTS
PO BOX 5127
EDWARDS, COLORADO 81632
(970) 926-1720

ARCHITECT
EGGERS ARCHITECTURE, INC
PO BOX 798
KREMMLING, COLORADO 80459
(970) 409-9790

STRUCTURAL ENGINEER
SUNDQUIST DESIGN GROUP
PO BOX 676
CONIFER, COLORADO 80433
(970) 838-2222

LANDSCAPE ARCHITECT
TOMINA TOWNSEND
PO BOX 3000
EDWARDS, COLORADO 81632
(303) 945-5252

CIVIL ENGINEER
BOUNDARIES UNLIMITED, INC.
923 COOPER AVENUE, SUITE 201
GLENWOOD SPRINGS, COLORADO 81601
(970) 945-5252

SURVEYOR
SLAGLE SURVEY SERVICES
PO BOX 751
EAGLE, COLORADO 81631
(970) 471-1499

GEOTECHNICAL ENGINEER
CTL THOMPSON, INC
1790 AIRPORT ROAD, UNIT 2
BRECKENRIDGE, COLORADO 80424
(970) 453-2047

PROJECT INFORMATION:

FLOOR AREA:	FINISHED	MECH	GARAGE	TOTAL
ENTRY LEVEL:	2,020 SF	53 SF	917 SF	2,990 SF
MAIN LEVEL:	2,828 SF			2,828 SF
TOTALS:	4,848 SF	53 SF	917 SF	5,818 SF

LOT AREA:	6,882.48 SF		
BUILDING COVERAGE:	3,154 SF	45.83 %	50% ALLOWABLE
IMPERVIOUS COVERAGE:	4,127 SF	59.96 %	60% ALLOWABLE

CODE INFORMATION:

JURISDICTION: TOWN OF MINTURN, COLORADO

CODES: 2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
+ LOCAL AMENDMENTS

DRAWING SCHEDULE

C	COVER
	FINAL PLAT MINTURN NORTH P.U.D.
C7	MINTURN NORTH P.U.D. OVERALL GRADING PLAN
C1	SITE GRADING, DRAINAGE & EROSION CONTROL PLAN
C2	CIVIL DETAILS
L1	LANDSCAPE PLANTING PLAN
L2	LANDSCAPE SCHEDULES & DETAILS
A1.1	ENTRY LEVEL PLAN
A1.2	MAIN LEVEL PLAN
A1.3	ROOF PLAN
A2.1	BUILDING ELEVATIONS
A2.2	BUILDING ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A3.3	DETAILS
A3.4	DETAILS
A3.5	DOOR/WINDOW SCHEDULE & DETAILS
A4.1	ENTRY LEVEL CEILING PLAN
A4.2	MAIN LEVEL CEILING PLAN
BH1	BUILDING HEIGHT CALCULATIONS
S1.1	STRUCTURAL NOTES & DETAILS
S2.1	FOUNDATION PLAN
S2.2	FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	FOUNDATION DETAILS
S3.2	FRAMING DETAILS
E1.1	ENTRY LEVEL SCHEMATIC ELECTRICAL PLAN
E1.2	MAIN LEVEL SCHEMATIC ELECTRICAL PLAN
E1.3	ROOF SCHEMATIC ELECTRICAL PLAN

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STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

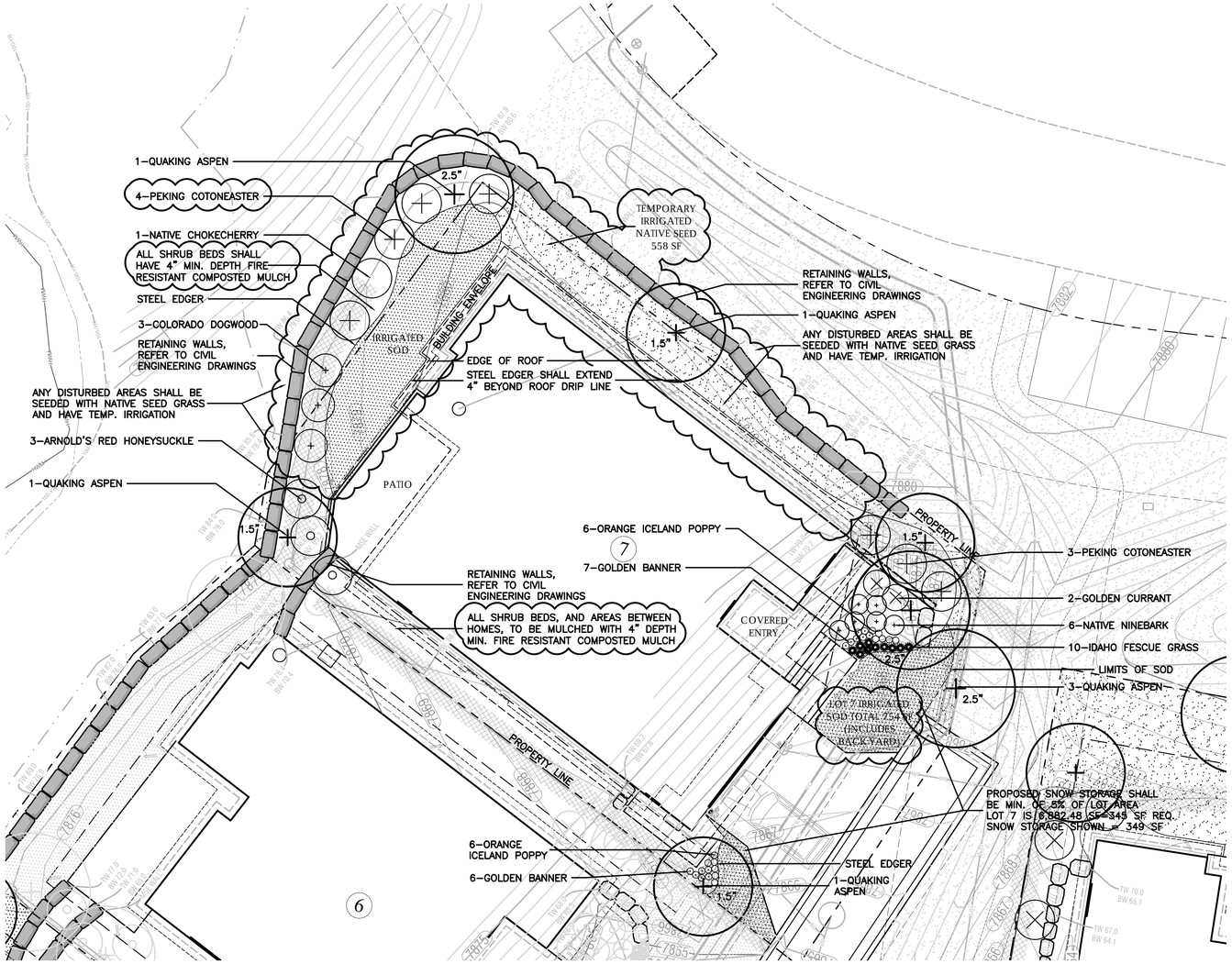
BOMBARD
186 MILES END LANE
LOT 07, MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L07

ISSUED

#	DATE	BY	COMMENTS
11	9-18-24	DWE	REVISED PERMIT SET
10	7-8-24	DWE	BUILDING PERMIT SET
9	6-14-24	DWE	REVISED DRB SUBMITTAL
8	5-17-24	DWE	DRB SUBMITTAL SET

C



LEGEND

- IRRIGATED SOD, REFER TO L2 FOR DETAILS
- NATIVE SEED MIX WITH TEMPORARY IRRIGATION, REFER TO L2 FOR DETAILS
- PROPOSED RETAINING WALL, REFER TO CIVIL ENGINEERING FOR DETAILS
- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED DECIDUOUS SHRUBS
- PROPOSED ORNAMENTAL GRASSES
- PROPOSED FLOWERING PERENNIALS
- SNOW STORAGE AREA

Know what's below. Call before you dig.

LANDSCAPE ARCHITECT:
TOMINA TOWNSEND, LA
PO BOX 3000, PMB 301
EDWARDS, CO 81632
P. 303.572.7876
TTownsend@ResortConceptsCO.com

MINTURN NORTH P.U.D.

LOT 7 - LANDSCAPE PLAN
TOWN OF MINTURN, COLORADO

DESIGNED: TT
DRAWN: TT
CHECKED: RH
DATE: May 17, 2024
REVISIONS:

REVISION BASED ON DRB COMMENTS: 6.14.24
VERIFIED SQUARE FEET OF LOT AREA

PERMIT SET: 7.8.24

REVISED PERMIT SET: 9.18.24
ADJUSTED LANDSCAPE FOR NEW WALL LAYOUT

0 5 10 20
SCALE: 1"=10'-0"

REVISED PERMIT SET

SHEET TITLE:

PROPOSED LANDSCAPE PLAN

SCALE: 1"=10'-0"

SHEET NUMBER:

L1

General Notes and Specifications:

1. All areas disturbed by construction and not designated a shrub bed or sod, shall be planted with the specified native grass seed.
2. The contractor shall maintain positive drainage away from all walls and walkways. Fine grading shall be approved prior to planting.
3. The Landscape Plan shall be reviewed on site prior to installation to ensure planting meets the intent of the design guidelines and Town of Minturn standards.
4. See Civil Engineering sheets for final grading and drainage.
5. Snow Storage area shall be a min. of 25% of all driveway and parking areas.

Revegetation Notes:

1. Seed shall be broadcast and raked to ¼" depth.
2. Apply Biodegradable Green Dyed-Wood Celluose-Fiber Mulch to all seeded Areas at a rate of 20 lbs. per 1,000 s.f.
3. Prior to seeding, apply min. 6" topsoil, 10 lbs./1,000 s.f. Superphosphate and 40 lbs./1,000 s.f. Biosol Complete Fertilizer.

Fire Mitigation Recommendations:

1. Zone 1 (15' from building and integral planting): no highly flammable plants, such as evergreen trees and shrubs should be planted within 15' of the structure or attachments.
2. Zone 2 (70' from building and Integral planting): a 10' crown separation must be maintained for all evergreen trees and shrubs over 4' height. A 4' crown separation must be maintained for evergreen shrubs under 4' height.
3. Plants listed on forest service publication 6.305 FireWise Plant Material can be used in any zone.
4. Existing junipers within Zone 1 and Zone 2 must be limbed ⅓ of their total height, but no more than 10' height.
5. Dead limbs shall be removed from all existing Serviceberry within Zone 1 or Zone 2.
6. If necessary, final existing vegetation to be limbed or removed for fire mitigation purposes will be subject to the constraints of the final unit site plans and reviewed on site with a representative from the Town of Minturn on a unit by unit basis prior to construction.

LEGEND & IRRIGATION CALCULATIONS:

Permanent Irrigation		Square Footage of Irrigation
	Permanent Pop–Up Spray Irrigation For Bluegrass Sod	~~630~~ 754 SF
	Permanent micro–spray or drip irrigation for perennial beds	25 PERENNIALS x 1 SF = 25 SF
	Permanent Drip Irrigation For B&B Trees	7 TREES x 4.5 SF = 32 SF
	Permanent Drip Irrigation For 5 gal. Shrubs & Grasses	32 SHRUBS x 3 SF = 96 SF
		TOTAL PERMANENT IRRIGATED AREA: ~~783~~ 907 SF
	Temporary Spray Irrigation For Native Seed	~~463~~ 558 SF

IRRIGATION NOTES:

1. DESIGN CRITERIA: DESIGN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM TO UNIFORMLY IRRIGATE ALL PLANTING AREAS. ZONE IRRIGATED SOD, NATIVE SEED GRASS, AND SHRUB PLANTING AREAS SEPARATELY. PROVIDE DRIP IRRIGATION FOR SHRUB BEDS. PROVIDE MICRO–SPRAY HEADS OR DRIP IRRIGATION, DEPENDING ON PLANT MATERIAL, IN PERENNIAL AND GROUNDCOVER BEDS. DESIGN ROTORS FOR TURF GRASS AREAS MORE THAN 40' WIDE, AND POP–UP SPRAY HEADS FOR AREAS LESS THAN 40' WIDE.
2. ALL TREES AND SHRUBS TO BE DRIP IRRIGATED.

ALL DISTURBED AREAS SHALL BE SEEDED WITH: 'DRY NATIVE MOUNTAIN' SEED MIX

THIS SEED MIX HAS BEEN CHOSEN FOR THE SPECIFIC PROJECT LOCATION AND ELEVATION. LANDSCAPE INSTALLER SHALL NOT DEVIATE FROM THIS REVEGETATION SEED MIX WITHOUT WRITTEN APPROVAL FROM THE RESORT CONCEPTS SITE MANAGER.

COMMON NAME	SEEDING RATE % MIX	BULK LBS PER ACRE
SANDBERG BLUE	10%	5.00
MOUNTAIN BROME	20%	10.00
SLENDER WHEATGRASS	15%	7.50
BLUEBUNCH WHEATGRASS	10%	5.00
ROCKY MOUNTAIN FESCUE	10%	5.00
THICKSPIKE WHEATGRASS	15%	7.50
BOTTLEBRUSH SQUIRRELTAIL	2.5%	1.25
STREAMBANK WHEATGRASS	15%	7.50
PRAIRIE JUNEGRASS	2.5%	1.25
TOTAL LBS./ACRE	100%	50

NOTES:

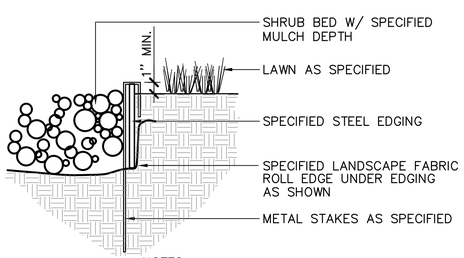
PERCENTAGES OF MIXES VARY YEAR–TO–YEAR DEPENDING ON HARVEST OF SEEDS. HYDROSEED OR HAND BROADCAST: 1 LB. PER 1,000 SQ. FT. OR 50 LBS. PER ACRE. RAKE IN ¼" DEEP AND IRRIGATE, IF POSSIBLE UNTIL ESTABLISHED. 'DRY NATIVE MOUNTAIN' SEED MIX IS AVAILABLE FROM PAWNEE BUTTES SEED INC., 605 25TH STREET, GREELEY, CO 80632.
PHONE: 1–800–782–5947
WEBSITE: PAWNEEBUTTESSEED.COM

PROPOSED PLANT MATERIALS LIST

Note: All plant material has been chosen from the CSU Extension Office recommended plant lists. These lists have been cross referenced to find suitable plants for the elevation of Minturn (10,000 ft and above), and also to maximize use of plants native to the area, low-water use plants, and plants that enhance habitat and food sources for insects, butterflies, birds and other animals. The cross referenced lists are the following:

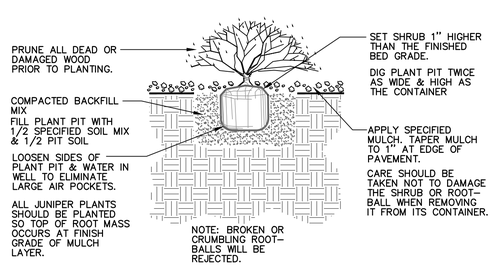
- CSU Extension, Fire Wise Plant Materials - 6.305
- CSU Extension, Trees and Shrubs for Mountain Areas - Fact Sheet No. 7.423
- CSU Extension, Low-Water Native Plants for Colorado Gardens, Mountains 7,500' and Above - CO Native Plant Society
- CSU Extension, Native Trees for Colorado Landscapes - Fact Sheet No. 7.421
- CSU Extension, Native Shrubs for Colorado Landscapes - Fact Sheet No. 7.422

QUAN.	COMMON/ BOTANICAL NAME	FIRE MITIGATION ZONE	SIZE	COMMENTS
	DECIDUOUS TREES			
4	Quaking Aspen Populus tremuloides	1 & 2	1.5" cal.	Specimen quality B&B, guyed
3	Quaking Aspen Populus tremuloides	1 & 2	2.5" cal.	Specimen quality B&B, guyed
	ORNAMENTAL GRASSES (planted @ 12" O.C. spacing)			
10	Idaho Fescue Grass, Festuca idahoensis 'Siskiyou Blue'	1 & 2	1 gal.	Container Full
	PERENNIAL FLOWERS (planted @ 12" O.C. spacing)			
12	Orange Iceland Poppy Papaver nudicaule	1 & 2	Flats of 15	
13	Golden Banner Thermopsis divaricarpa	1 & 2	Flats of 15	
	DECIDUOUS SHRUBS			
3	Arnold's Red Honeysuckle Lonicera tatarica 'Arnold's Red'	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
3	Colorado Dogwood Cornus sericea coloradense	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
~~6~~ 2	Golden Currant Ribes aureum	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
1	Native Chokecherry Prunus virginiana melanocarpa	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.
6	Native Ninebark Physocarpus monogynus	1 & 2	5 gal.	Container, 5 canes minimum 12"–18" ht.
~~3~~ 7	Peking Cotoneaster Cotoneaster lucidus	1 & 2	5 gal.	Container, 5 canes minimum 24"–36" ht.

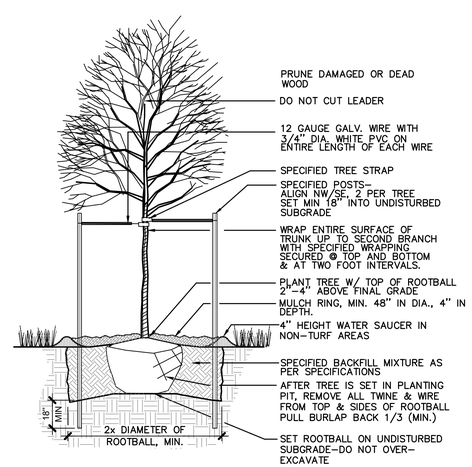


NOTES:
1) SET ALL EDGING 1" ABOVE FINISH GRADE AS SHOWN.
2) EDGING SHALL ABUT ALL CONCRETE CURBS AND WALKS PERPENDICULAR, AND FLUSH W/ GRADES OF CONCRETE.
3) ALL JOINTS TO BE SECURELY STAKED.
4) CONTRACTOR SHALL CUT TOP EDGE(S) AS NEEDED TO BE PARALLEL WITH GRADE.

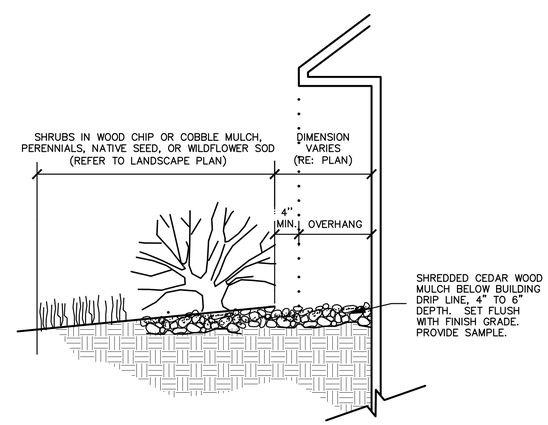
1/L2 STEEL EDGER
NOT TO SCALE



2/L2 SHRUB PLANTING
NOT TO SCALE



3/L2 DECIDUOUS TREE PLANTING
NOT TO SCALE



4/L2 MULCH ARMORED DRIP LINE
NOT TO SCALE

Know what's below. Call before you dig.

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TOMINA TOWNSEND, LA
PO BOX 3000, PMB 301
EDWARDS, CO 81632
P. 303.572.7876
TTownsend@ResortConceptsCO.com

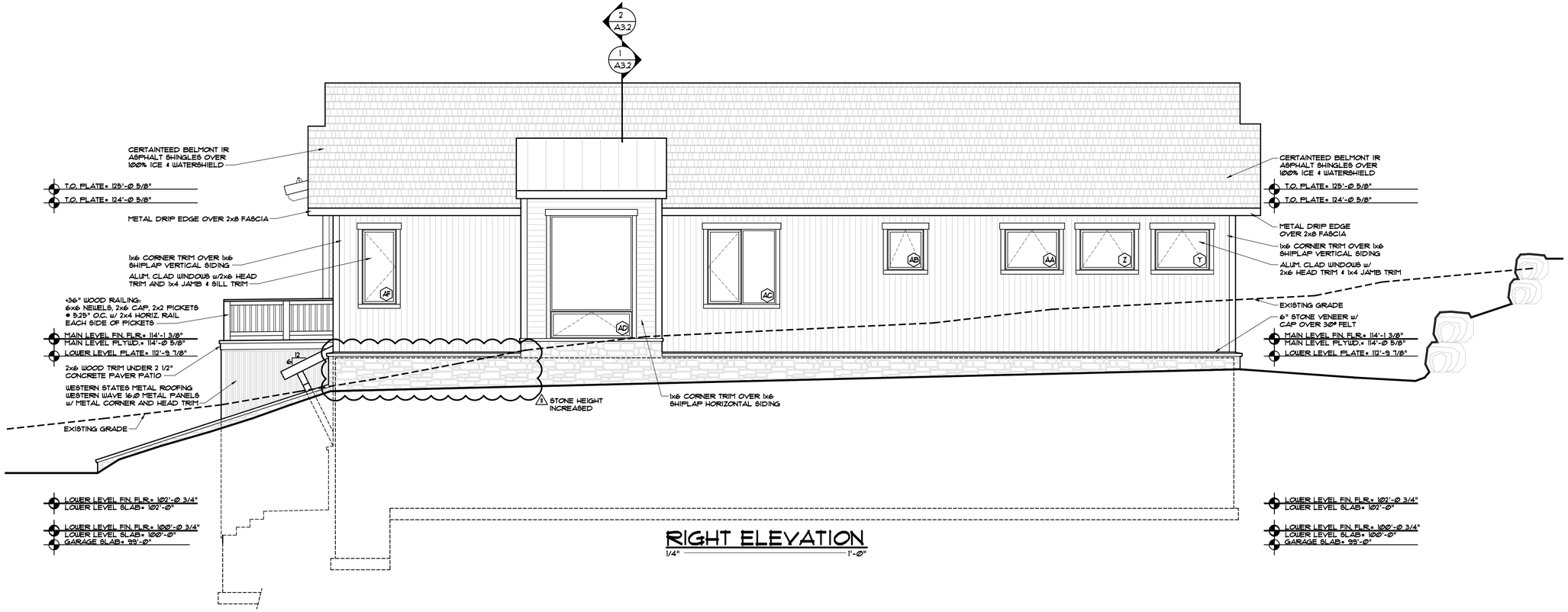
MINTURN NORTH P.U.D.
LOT 7 - LANDSCAPE PLAN
TOWN OF MINTURN, COLORADO

DESIGNED: TT
DRAWN: TT
CHECKED: RH
DATE: May 17, 2024
REVISIONS:
REVISION BASED ON DRB COMMENTS: 6.14.24
VERIFIED SQUARE FEET OF LOT AREA
PERMIT SET: 7.8.24
REVISED PERMIT SET: 9.18.24
ADJUSTED LANDSCAPE FOR NEW WALL LAYOUT

REVISED PERMIT SET

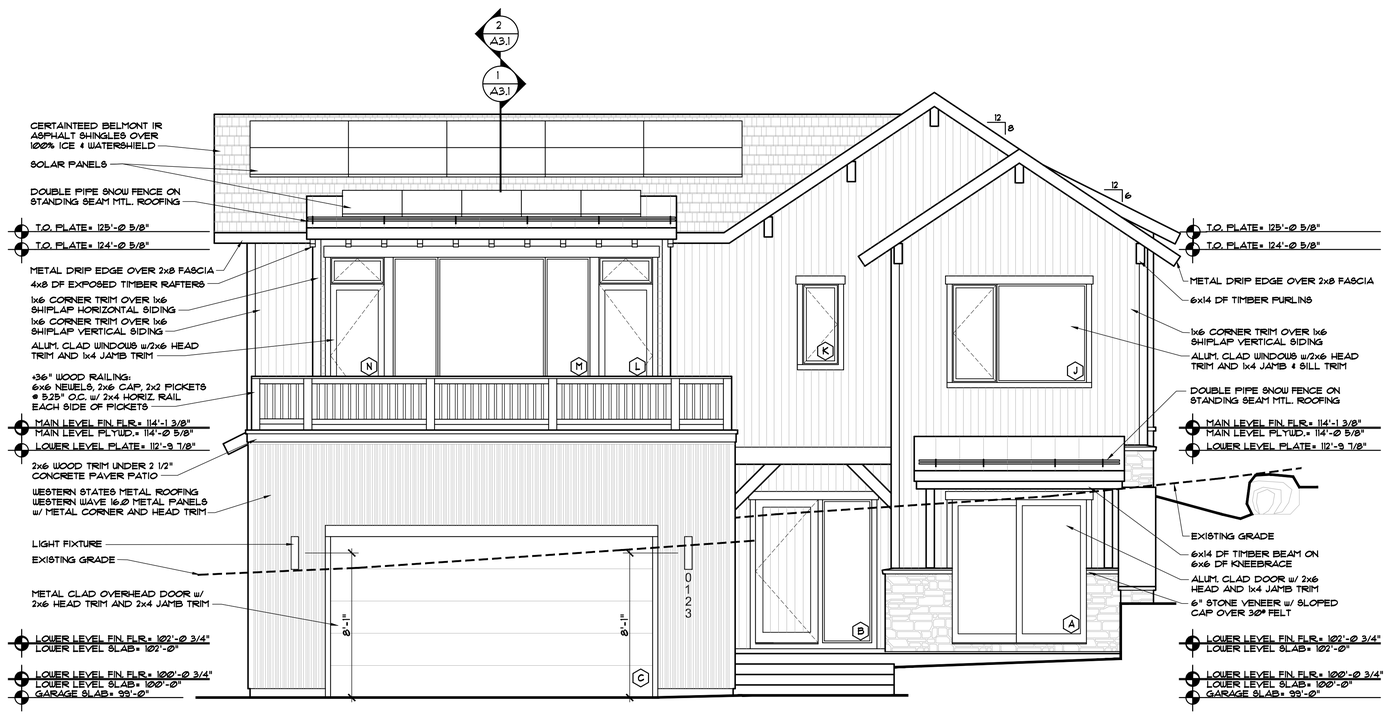
SHEET TITLE:
LANDSCAPE NOTES & DETAILS

SCALE: NOT TO SCALE
SHEET NUMBER:
L2



RIGHT ELEVATION

1/4" — 1'-0"



FRONT ELEVATION

1/4" — 1'-0"

DISCLAIMER: ALL PLANS, RENDERINGS, SPECIFICATIONS AND MARKETING MATERIALS ARE SUBJECT TO REVISIONS AND MODIFICATIONS AT DEVELOPERS SOLE DISCRETION DUE TO SITE SPECIFIC GRADING CONDITIONS, AVAILABILITY OF MATERIALS, AVAILABILITY OF LABOR, MANUFACTURER SUPPLY SHORTAGES, AND GOVERNMENTAL AGENCY CHANGES. ALL PLANS AND SPECIFICATIONS ARE SUBJECT TO REVISIONS AND CONDITIONS OF APPROVAL BY THE TOWN OF MINTURN CITY COUNCIL, TOWN OF MINTURN DESIGN REVIEW BOARD, TOWN OF MINTURN BUILDING PERMIT DEPARTMENT AND ALL OTHER APPLICABLE REGULATORY AGENCIES. ARTIST RENDERINGS HAVE BEEN PROVIDED FOR ILLUSTRATIVE AND MARKETING PURPOSES ONLY AND SHOULD NOT BE RELIED UPON AS A BASIS FOR PURCHASING. COLOR, MATERIALS AND DESIGN ELEMENTS ARE SUBJECT TO REFINEMENT AND REVISION WITHOUT NOTICE AT DEVELOPERS SOLE DISCRETION.

EGGERS ARCHITECTURE, INC.
PO BOX 798 KREMMLING, CO 80459
(970) 724-3411 CELL: (970) 409-9790
don.eggers@eggersarchitecture.com

RESORT CONCEPTS
225 MAIN STREET, SUITE C-101
EDWARDS, COLORADO
(970) 926-1720

STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

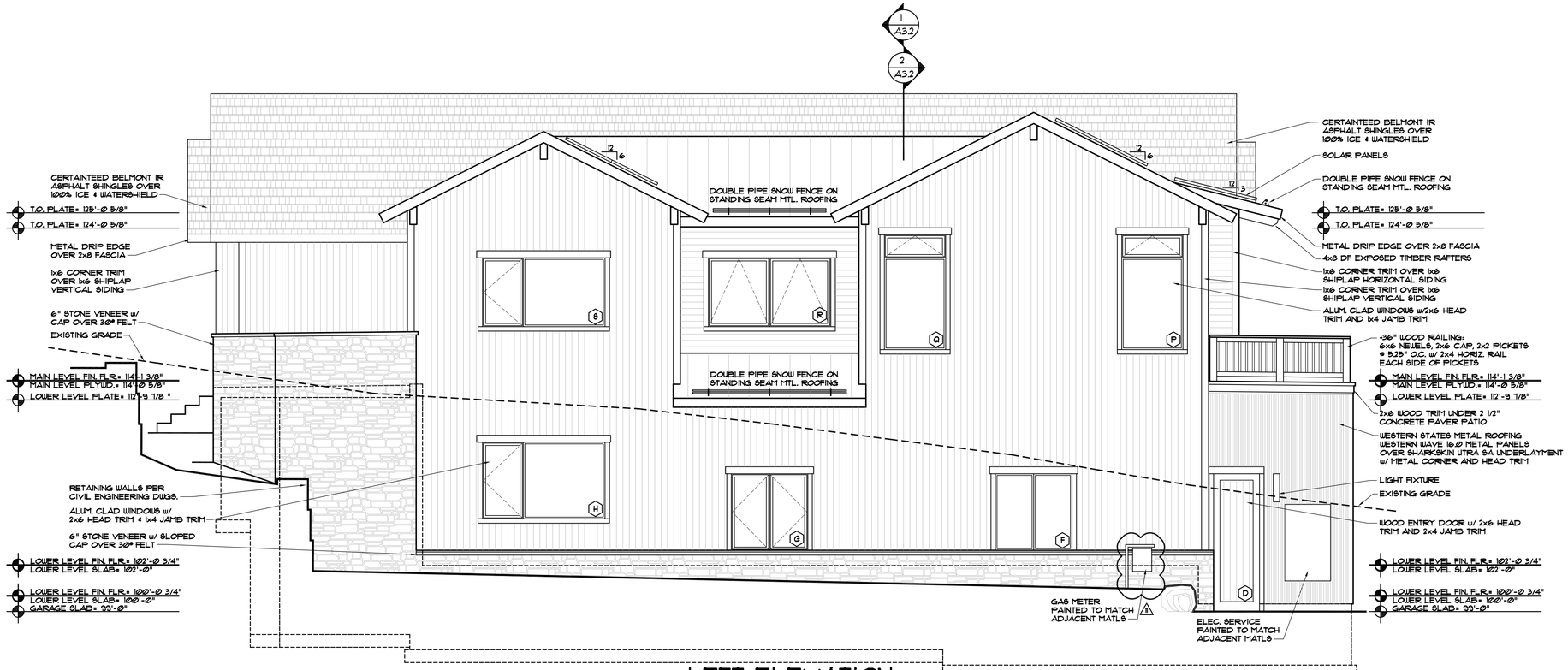
BOMBARD
186 MILES END LANE
LOT 07, MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L07

ISSUED

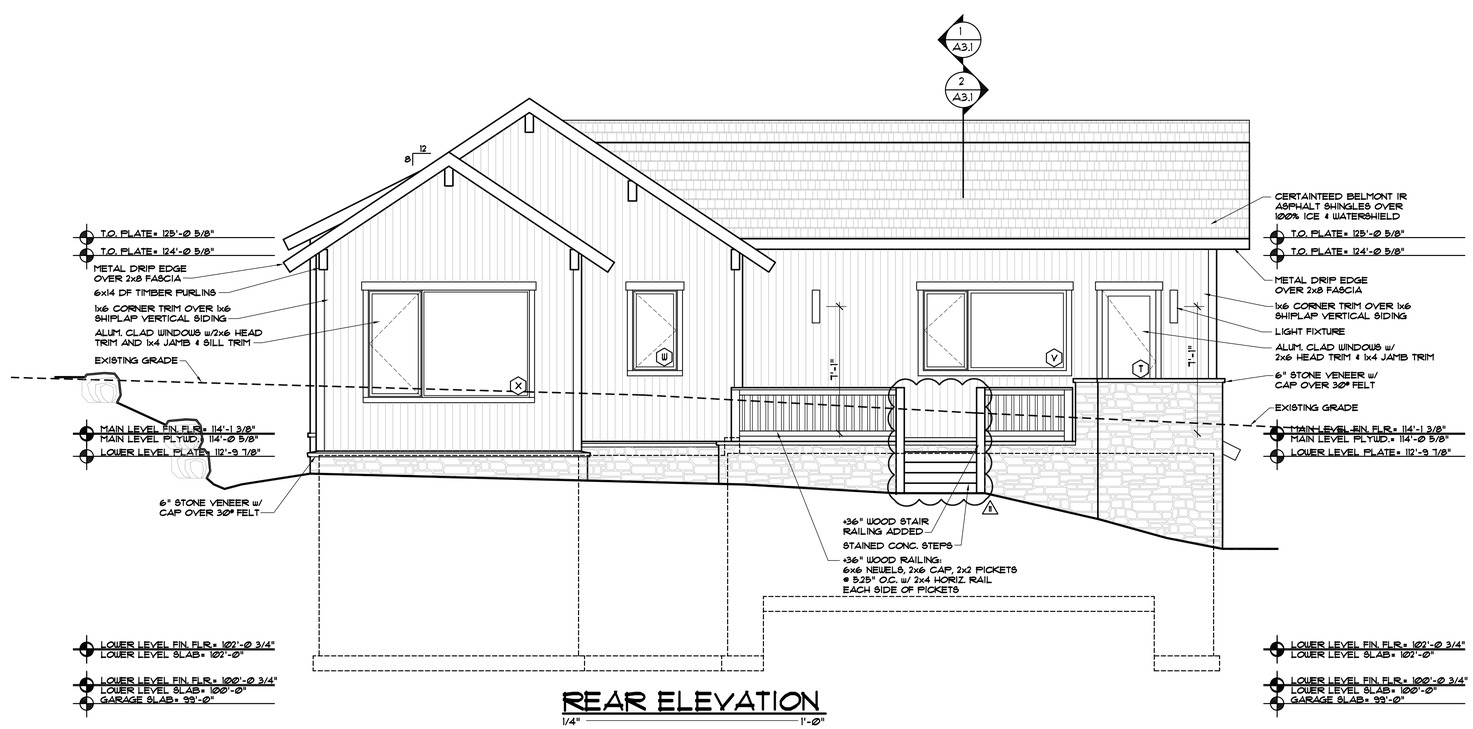
#	DATE	BY	COMMENTS
11	9-18-24	DWE	REVISED PERMIT SET
10	7-8-24	DWE	BUILDING PERMIT SET
9	6-14-24	DWE	REVISED DRB SUBMITTAL
8	5-17-24	DWE	DRB SUBMITTAL SET

A2.1



LEFT ELEVATION

1/4" — 1'-0"



REAR ELEVATION

1/4" — 1'-0"

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RESORT CONCEPTS
225 MAIN STREET, SUITE C-101
EDWARDS, COLORADO
(970) 926-1720

STATE OF COLORADO — DONALD W. EGGERS — LICENSED ARCHITECT

BOMBARD
186 MILES END LANE
LOT 07, MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L07

ISSUED

#	DATE	BY	COMMENTS
11	9-18-24	DWE	REV/SED PERMIT SET
10	7-8-24	DWE	BUILDING PERMIT SET
9	6-14-24	DWE	REV/SED DRB SUBMITTAL
8	5-17-24	DWE	DRB SUBMITTAL SET

A2.2

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner@minturn.org

Project Name:

Minturn North

Project Location

Street Address: 196 Miles End Lane

Zoning: Residential

Parcel Number(s): 2103-262-30-006

Application Request:

DRB Minor Modifications

Applicant:

Name: Taylor Hermes & Rick Hermes – Minturn North Construction Company, LLC

Mailing Address: PO Box 2633 Edwards, CO 81632

Phone: 970-926-1720

Email: THermes@ResortConceptsCO.com

Property Owner:

Name: Kristine & Ian Widmer

Mailing Address: PO Box 6379 Vail, CO 81657

Phone: 763-442-4619 (Kristine) / 612-280-9522 (Ian)

Email: Kristine.R.Widmer@gmail.com / Widmer1513@gmail.com

Required Information:

Lot Size: 0.166 acres	Type of Residence (Single Family, ADU, Duplex) SFH	# of Bedrooms 5	# On-site Parking Spaces 4
# of Stories: 2	Snow storage sq ft: 325 sf	Building Footprint sq ft: 2,976 sf	Total sq ft Impervious Surface: 3,799 sf

Signature:

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

EGGERS
ARCHITECTURE, INC

September 18, 2024

Town of Minturn Planning Department

RE: 0196 Miles End Lane, Lot 6
Building Permit Review

All:

Please find attached revised documents to address permit review comments per the following:

Staff comments letter dated August 28, 2024:

1. The door height change was bubbled on sheets A2.1.

Inter-Mountain Engineering letter dated August 14, 2024:

No changes necessary.

Shums Coda letter dated August 27, 2024:

A1: Sheets E1.1 & E1.2 have been updated to include smoke and CO alarms.
A2: The window schedule on sheet A3.5 has been updated to show tempered window locations.
M1: A separate document is provided that shows the BTU requirements of the mechanical system components and the gas line sizing to those elements.
M2: A note has been added to sheet A1.1 regarding the dryer vent in a 2x6 wall.
M3: A separate document is provided that shows the BTU requirements of the mechanical system components and the gas line sizing to those elements.
M4: Exhaust hood specs have been added to the separate mechanical page. No make up air required.
M5: Sheet E1.2 has been updated to show the additional exhaust fan.
EN1: A manual JDS has been included in the attachments.
E1: See A1 above.
S1: There is an existing note on pages S2.2 & S2.3 on the left side indicating the standard header size.

Please let me know if you have any questions or need clarifications.

Sincerely,

Don Eggers
Eggers Architecture, Inc.

P.O. Box 798 Kremmling Colorado 80459
(970) 724-3411 Fax (970) 724-3412

WIDMER RESIDENCE

196 MILES END LANE
LOT 06, MINTURN NORTH
MINTURN, COLORADO

DRB SUBMITTAL SET	APRIL 19, 2024
REVISED DRB SUBMITTAL	MAY 22, 2024
BUILDING PERMIT SET	JUNE 24, 2024
REVISED PERMIT SET	SEPTEMBER 18, 2024

OWNER'S REPRESENTATIVE
RESORT CONCEPTS
PO BOX 5127
EDWARDS, COLORADO 81632
(970) 926-1720

ARCHITECT
EGGERS ARCHITECTURE, INC
PO BOX 798
KREMMLING, COLORADO 80459
(970) 409-9790

STRUCTURAL ENGINEER
SUNDQUIST DESIGN GROUP
PO BOX 249
TARPON SPRINGS, FLORIDA 34688
(303) 335-6034

LANDSCAPE ARCHITECT
TOMINA TOWNSEND
PO BOX 3000
EDWARDS, COLORADO 81632
(303) 945-5252

CIVIL ENGINEER
BOUNDARIES UNLIMITED, INC.
923 COOPER AVENUE, SUITE 201
GLENWOOD SPRINGS, COLORADO 81601
(970) 945-5252

SURVEYOR
SLAGLE SURVEY SERVICES
PO BOX 751
EAGLE, COLORADO 81631
(970) 471-1499

GEOTECHNICAL ENGINEER
CTL THOMPSON, INC
1790 AIRPORT ROAD, UNIT 2
BRECKENRIDGE, COLORADO 80424
(970) 453-2047

PROJECT INFORMATION:

FLOOR AREA:	FINISHED	UNFINISHED	MECH	GARAGE	TOTAL
ENTRY LEVEL:	1,688 SF	232 SF	116 SF	825 SF	2,861 SF
MAIN LEVEL:	2,438 SF				2,438 SF
TOTALS:	4,126 SF	232 SF	116 SF	825 SF	5,299 SF

LOT AREA:	7274.52 SF		
BUILDING COVERAGE:	2,976 SF	40.9 %	50% ALLOWABLE
IMPERVIOUS COVERAGE:	3,799 SF	52.2 %	60% ALLOWABLE

CODE INFORMATION:

JURISDICTION: TOWN OF MINTURN, COLORADO

CODES: 2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
+ LOCAL AMENDMENTS

DRAWING SCHEDULE

C	COVER
	FINAL PLAT MINTURN NORTH P.U.D.
C.7	MINTURN NORTH PUD OVERALL GRADING PLAN
C1	CIVIL GRADING, DRAINAGE & EROSION CONTROL PLAN
C2	CIVIL DETAILS
L1	LANDSCAPE PLANTING PLAN
L2	LANDSCAPE SCHEDULES & DETAILS
A1.1	ENTRY LEVEL PLAN
A1.2	MAIN LEVEL PLAN
A1.3	ROOF PLAN
A2.1	BUILDING ELEVATIONS
A2.2	BUILDING ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A3.3	DETAILS
A3.4	DETAILS
A3.5	DOOR/WINDOW SCHEDULE & DETAILS
A4.1	ENTRY LEVEL CEILING PLAN
A4.2	MAIN LEVEL CEILING PLAN
BH1	BUILDING HEIGHT CALCULATIONS
S1.1	STRUCTURAL NOTES & DETAILS
S2.1	FOUNDATION PLAN
S2.2	MAIN LEVEL FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	FOUNDATION DETAILS
S3.2	FRAMING DETAILS
E1.1	ENTRY LEVEL SCHEMATIC ELECTRICAL PLAN
E1.2	MAIN LEVEL SCHEMATIC ELECTRICAL PLAN
E1.3	ROOF SCHEMATIC ELECTRICAL PLAN

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(970) 926-1720

STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

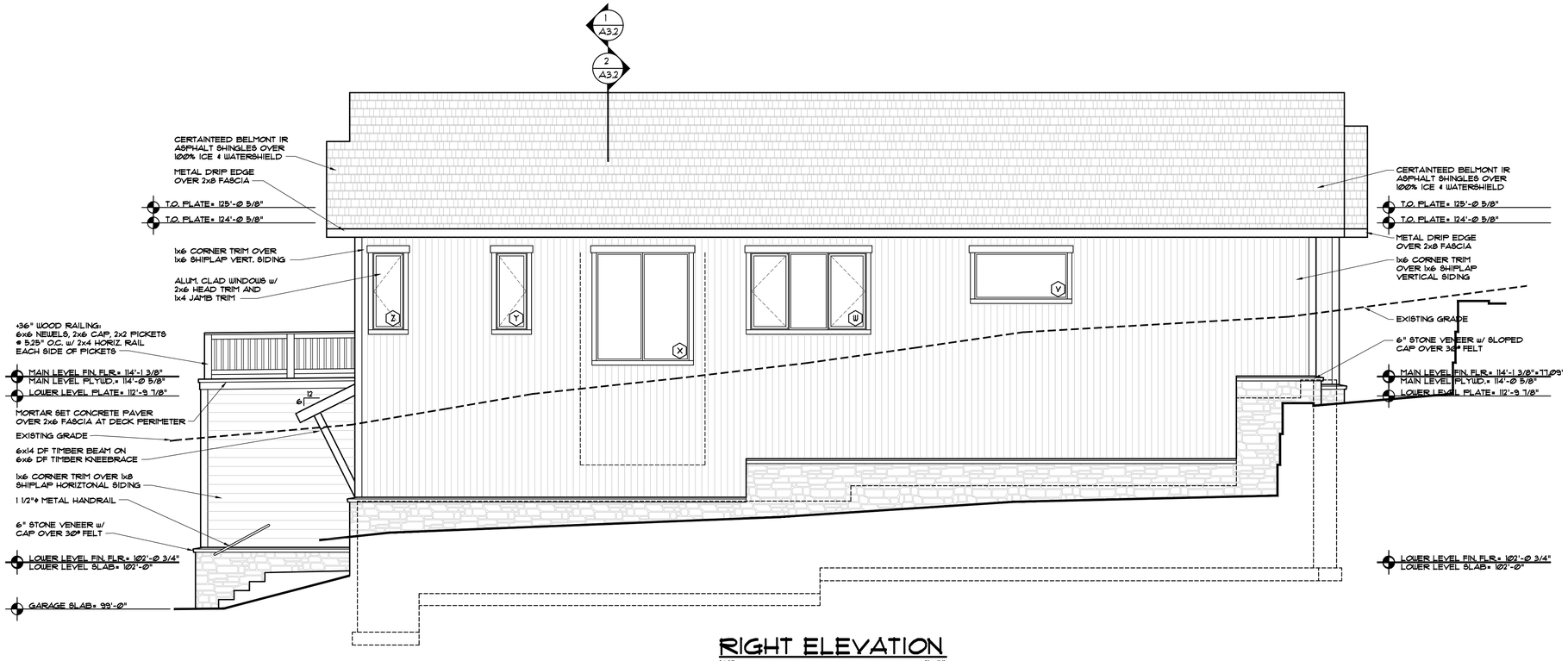
WIDMER
LOT 06
MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L06

ISSUED

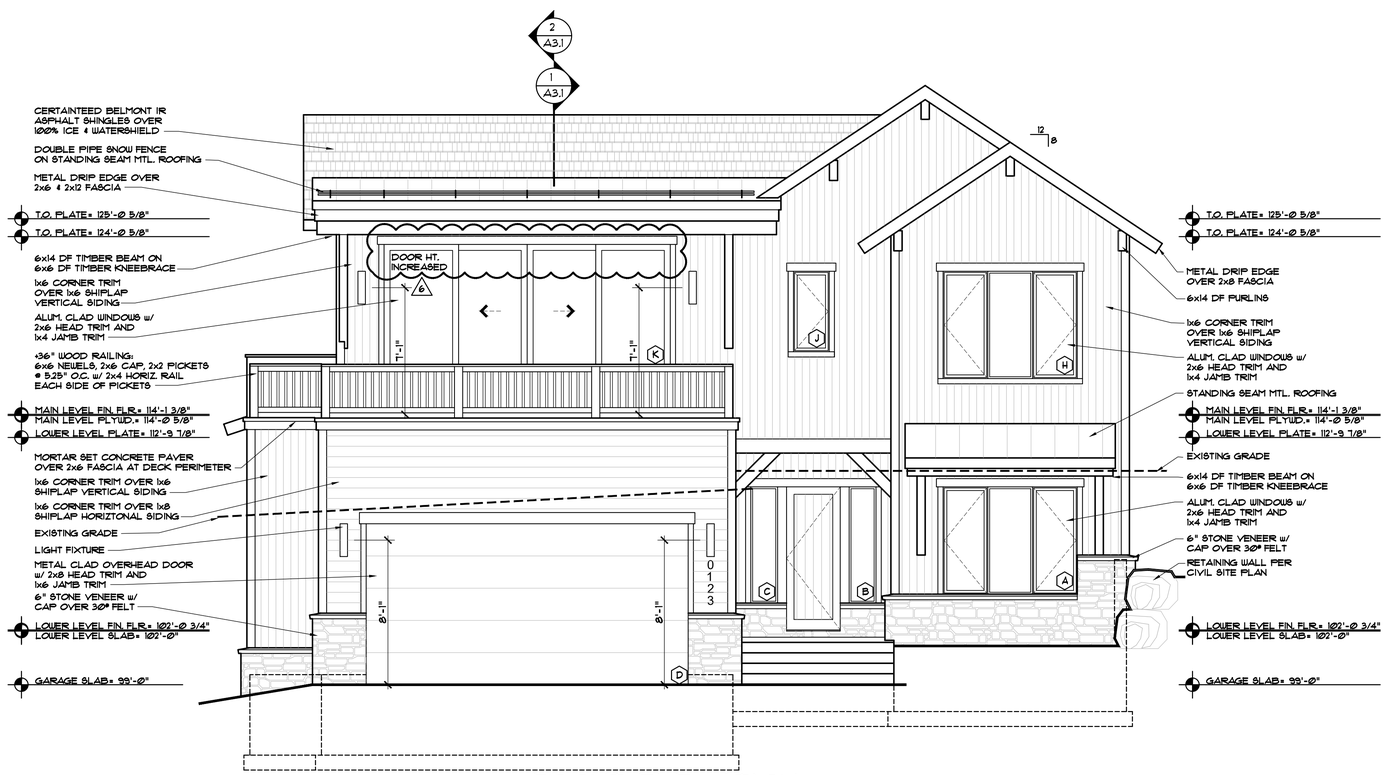
#	DATE	BY	COMMENTS
8	9-18-24	DWE	REVISED PERMIT SET
7	6-24-24	DWE	BUILDING PERMIT SET
6	5-22-24	DWE	REV. DRB SUBMITTAL
5	4-19-24	DWE	DRB SUBMITTAL SET

C



RIGHT ELEVATION

1/4" — 1'-0"



FRONT ELEVATION

1/4" — 1'-0"

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PO BOX 798 KREMMLING, CO 80459
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RESORT CONCEPTS
225 MAIN STREET, SUITE C-101
EDWARDS, COLORADO
(970) 926-1720

STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

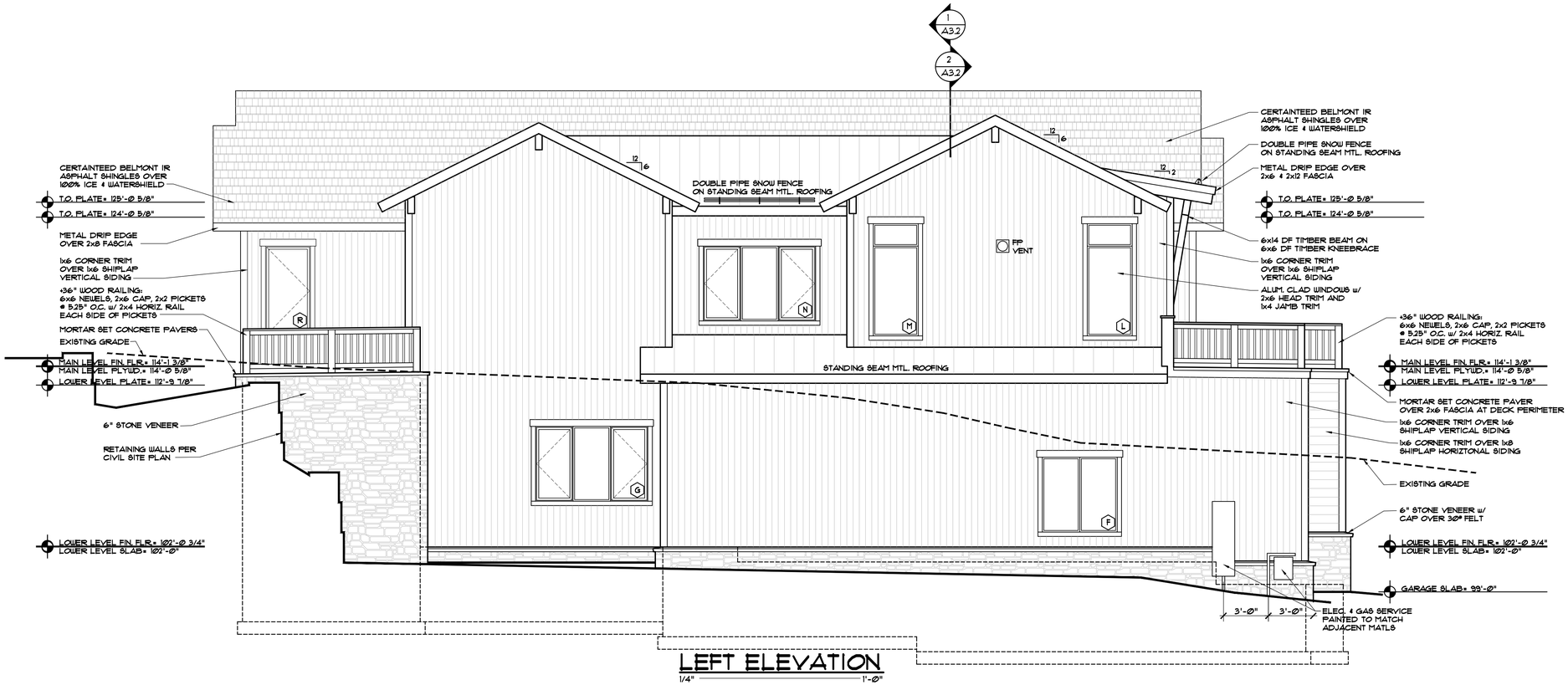
WIDMER
LOT 06
MINTURN NORTH
MINTURN, COLORADO

PROJECT NO: 2412-22 L06

ISSUED

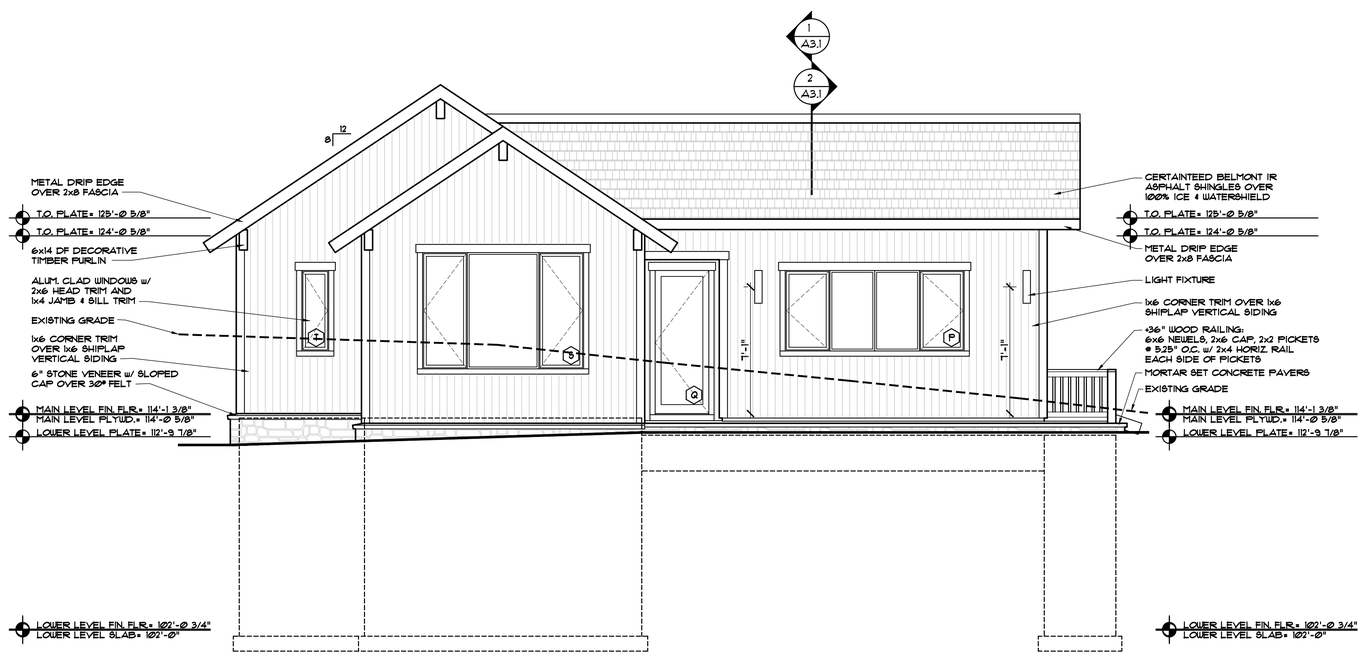
#	DATE	BY	COMMENTS
8	9-18-24	DWE	REVISED PERMIT SET
7	6-24-24	DWE	BUILDING PERMIT SET
6	5-22-24	DWE	REV. DRB SUBMITTAL
5	4-19-24	DWE	DRB SUBMITTAL SET

A2.1



LEFT ELEVATION

1/4" — 1'-0"



REAR ELEVATION

1/4" — 1'-0"

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MINTURN NORTH
MINTURN, COLORADO

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6	5-22-24	DWE	REV. DRB SUBMITTAL
5	4-19-24	DWE	DRB SUBMITTAL SET

A2.2

DESIGN REVIEW APPLICATION

TOWN OF MINTURN PLANNING AND ZONING DEPARTMENT
P.O. Box 309 302 Pine Street Minturn, Colorado 81649-0309
Phone: 970-827-5645 Fax: 970-827-5545 Email: planner1@minturn.org

Project Name:

Minturn North – MacArthur Residence

Project Location

Street Address: 206 Miles End Lane

Zoning: Residential	Parcel Number(s): 2103-262-30-005

Application Request:

DRB Minor Modifications

Applicant:

Name: Taylor Hermes & Rick Hermes – Minturn North Construction Company, LLC

Mailing Address: PO Box 2633 Edwards, CO 81632

Phone: 970-926-1720	Email: THermes@ResortConceptsCO.com

Property Owner:

Name: Daniel & Heather MacArthur

Mailing Address: PO Box 927 Minturn, CO 81645

Phone: 970-846-1283 (Dan)	Email: Daniel.L.MacArthur@gmail.com / Heather.MacArthur03@gmail.com

Required Information:

Lot Size: 0.191 acres	Type of Residence (Single Family, ADU, Duplex) SFH	# of Bedrooms 4	# On-site Parking Spaces 4
# of Stories: 2	Snow storage sq ft: 820 sf	Building Footprint sq ft: 2,716 sf	Total sq ft Impervious Surface: 4,136 sf

Signature:

Fee Paid:_____ **Date Received:**_____ **Planner:**_____

EGGERS
ARCHITECTURE, INC

September 18, 2024

Town of Minturn Planning Department

RE: 0206 Miles End Lane, Lot 5
Building Permit Review

All:

Please find attached revised documents to address permit review comments per the following:

Staff comments letter dated August 28, 2024:

1. The window changes to the dining room were bubbled on sheets A1.2 & A2.2.
2. The window added at the rear door were bubbled on sheets A1.2 & A2.2.
3. The change to the stone height was bubbled on sheet A2.2.

Inter-Mountain Engineering letter dated August 15, 2024:

No changes necessary.

Shums Coda letter dated August 27, 2024:

A1: Sheets E1.1 & E1.2 have been updated to include smoke and CO alarms.
A2: The window schedule on sheet A3.5 has been updated to show tempered window locations.
M1: A separate document is provided that shows the BTU requirements of the mechanical system components and the gas line sizing to those elements.
M2: A note has been added to sheet A1.2 regarding the dryer vent in a 2x6 wall.
M3: A separate document is provided that shows the BTU requirements of the mechanical system components and the gas line sizing to those elements.
M4: Exhaust hood specs have been added to the separate mechanical page. No make up air required.
M5: Sheet E1.2 has been updated to show the additional exhaust fan.
EN1: A manual JDS has been included in the attachments.
E1: See A1 above.
S1: Sheet S2.2 has been updated to include the deck lateral connection.
S2: There is an existing note on pages S2.2 & S2.3 on the left side indicating the standard header size.

Please let me know if you have any questions or need clarifications.

Sincerely,

Don Eggers
Eggers Architecture, Inc.

P.O. Box 798 Kremmling Colorado 80459
(970) 724-3411 Fax (970) 724-3412

MACARTHUR RESIDENCE

206 MILES END LANE
LOT 05, MINTURN NORTH
MINTURN, COLORADO

DRB SUBMITTAL SET	MAY 31, 2024
REVISED DRB SUBMITTAL	JUNE 26, 2024
BUILDING PERMIT SET	JULY 22, 2024
REVISED BUILDING PERMIT	SEPTEMBER 18, 2024

OWNER'S REPRESENTATIVE
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PO BOX 5127
EDWARDS, COLORADO 81632
(970) 926-1720

ARCHITECT
EGGERS ARCHITECTURE, INC
PO BOX 798
KREMMLING, COLORADO 80459
(970) 409-9790

STRUCTURAL ENGINEER
SUNDQUIST DESIGN GROUP
PO BOX 676
CONIFER, COLORADO 80433
(303) 838-2222

LANDSCAPE ARCHITECT
TOMINA TOWNSEND
PO BOX 3000
EDWARDS, COLORADO 81632
(303) 945-5252

CIVIL ENGINEER
BOUNDARIES UNLIMITED, INC.
923 COOPER AVENUE, SUITE 201
GLENWOOD SPRINGS, COLORADO 81601
(970) 945-5252

SURVEYOR
SLAGLE SURVEY SERVICES
PO BOX 751
EAGLE, COLORADO 81631
(970) 471-1499

GEOTECHNICAL ENGINEER
CTL THOMPSON, INC
1790 AIRPORT ROAD, UNIT 2
BRECKENRIDGE, COLORADO 80424
(970) 453-2047

PROJECT INFORMATION:

FLOOR AREA:	FINISHED	MECH	GARAGE	TOTAL
ENTRY LEVEL:	1,523 SF	79 SF	666 SF	2,268 SF
MAIN LEVEL:	2,207 SF			2,207 SF
TOTALS:	3,730 SF	79 SF	666 SF	4,475 SF

LOT AREA:	8,319.96 SF		
BUILDING COVERAGE:	2,716 SF	32.64%	50% ALLOWABLE
IMPERVIOUS COVERAGE:	4,136 SF	49.71 %	60% ALLOWABLE

CODE INFORMATION:

JURISDICTION: TOWN OF MINTURN, COLORADO

CODES: 2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
+ LOCAL AMENDMENTS

DRAWING SCHEDULE

C	COVER
	FINAL PLAT MINTURN NORTH P.U.D.
C.7	MINTURN NORTH P.U.D. OVERALL GRADING PLAN
C1	SITE GRADING, DRAINAGE & EROSION CONTROL PLAN
C2	CIVIL DETAILS
L1	LANDSCAPE PLANTING PLAN
L2	LANDSCAPE SCHEDULES & DETAILS
A1.1	ENTRY LEVEL PLAN
A1.2	MAIN LEVEL PLAN
A1.3	ROOF PLAN
A2.1	BUILDING ELEVATIONS
A2.2	BUILDING ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	BUILDING SECTIONS
A3.3	DETAILS
A3.4	DETAILS
A3.5	DOOR/WINDOW SCHEDULE & DETAILS
A4.1	ENTRY LEVEL CEILING PLAN
A4.2	MAIN LEVEL CEILING PLAN
BH1	BUILDING HEIGHT CALCULATIONS
S1.1	STRUCTURAL NOTES & DETAILS
S2.1	FOUNDATION PLAN
S2.2	MAIN LEVEL FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	FOUNDATION DETAILS
S3.2	FRAMING DETAILS
E1.1	ENTRY LEVEL SCHEMATIC ELECTRICAL PLAN
E1.2	MAIN LEVEL SCHEMATIC ELECTRICAL PLAN
E1.3	ROOF SCHEMATIC ELECTRICAL PLAN

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STATE OF COLORADO
DONALD W. EGGERS
LICENSED ARCHITECT

MACARTHUR
206 MILES END LANE
LOT 05, MINTURN NORTH
MINTURN, COLORADO

PROJECT NO:2412-22-L05

ISSUED

#	DATE	BY	COMMENTS
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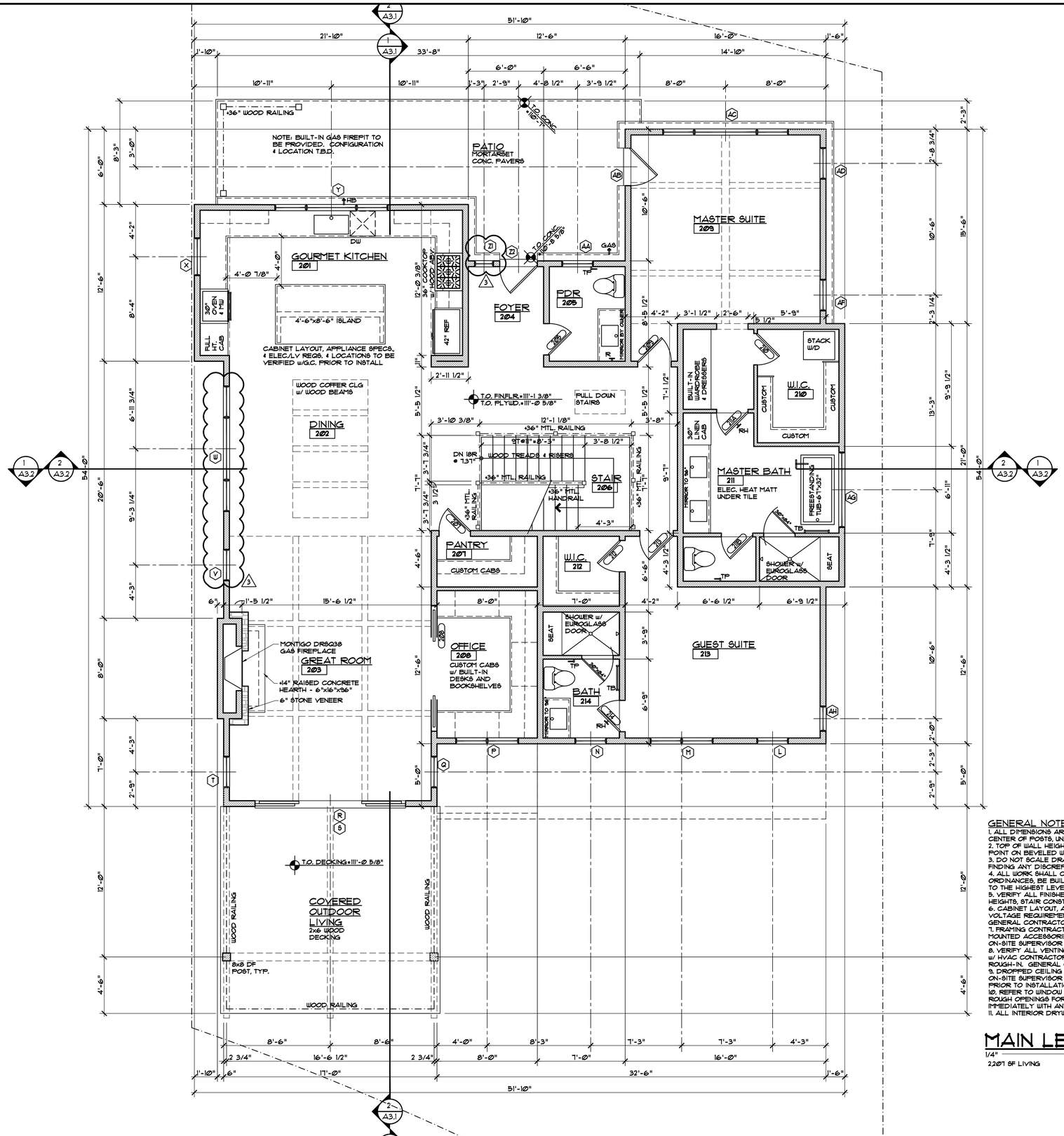
1	5-28-24	DWE	DRB SUBMITTAL SET

C



GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE OR CENTER OF POSTS, UNLESS NOTED OTHERWISE.
2. TOP OF WALL HEIGHTS EQUAL TOP OF FLAT PLATE OR LOWER POINT ON BEVELED WALL PLATES.
3. DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY UPON FINDING ANY DISCREPANCIES IN DOCUMENTS.
4. ALL WORK SHALL COMPLY WITH STATE & LOCAL CODES AND ORDINANCES, BE BUILT TO INDUSTRY STANDARDS AND BE PERFORMED TO THE HIGHEST LEVEL OF CRAFTSMANSHIP.
5. VERIFY ALL FINISHED FLOOR THICKNESS FOR DETERMINING MOUNTING HEIGHTS, STAIR CONSTRUCTION, ETC. (3/4" SHOWN ON PLANS MAY VARY).
6. CABINET LAYOUT, APPLIANCE SPECIFICATIONS, AND ELECTRICAL/LOW VOLTAGE REQUIREMENTS & LOCATIONS NEED TO BE VERIFIED BY GENERAL CONTRACTOR PRIOR TO INSTALLATION.
7. FRAMING CONTRACTOR TO PROVIDE BLOCKING FOR ALL SURFACE MOUNTED ACCESSORIES AND SHALL COORDINATE PLACEMENT WITH ON-SITE SUPERVISOR PRIOR TO INSTALLATION.
8. VERIFY ALL VENTING, DUCTWORK, SUPPLY AND RETURN AIR LOCATIONS w/ HVAC CONTRACTOR PRIOR TO COMPLETION OF FRAMING & ELECTRICAL ROUGH-IN. GENERAL CONTRACTOR TO APPROVE ALL LOCATIONS.
9. DROPPED CEILING AND SOFFIT LOCATIONS SHALL BE APPROVED BY ON-SITE SUPERVISOR AND COORDINATED W/ M.E.P. SUB-CONTRACTORS PRIOR TO INSTALLATION.
10. REFER TO WINDOW MANUFACTURER SHOP DRAWINGS FOR EXACT ROUGH OPENINGS FOR ALL DOORS & WINDOWS. NOTIFY ARCHITECT IMMEDIATELY WITH ANY ISSUES REGARDING HEADERS AND/OR POSTING.
11. ALL INTERIOR DRYWALL IS 5/8" GYPSUM BOARD, U.N.O.

MAIN LEVEL PLAN

1/4" = 1'-0"

2207 SF LIVING

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LICENSED ARCHITECT

MACARTHUR
206 MILES END LANE
LOT 05, MINTURN NORTH
MINTURN, COLORADO

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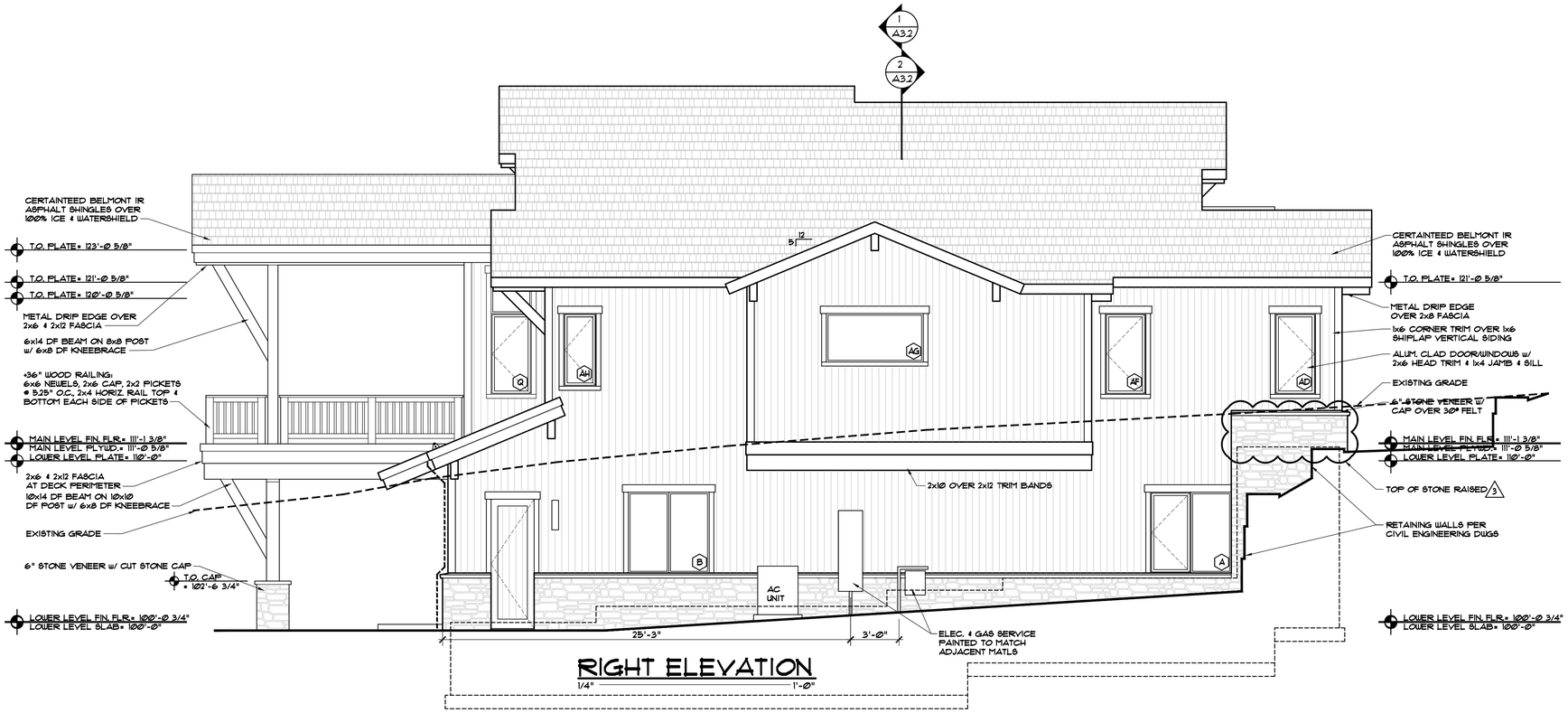
A1.2



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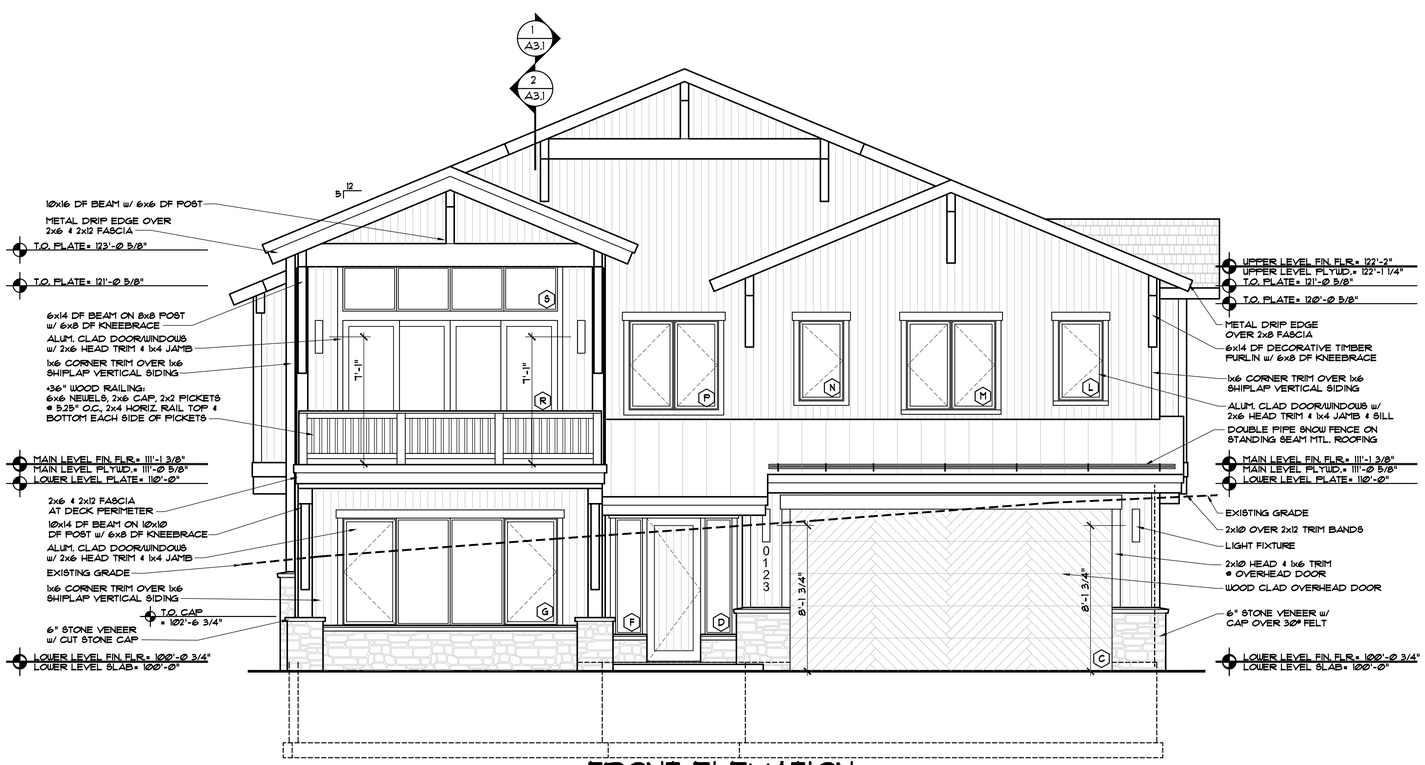

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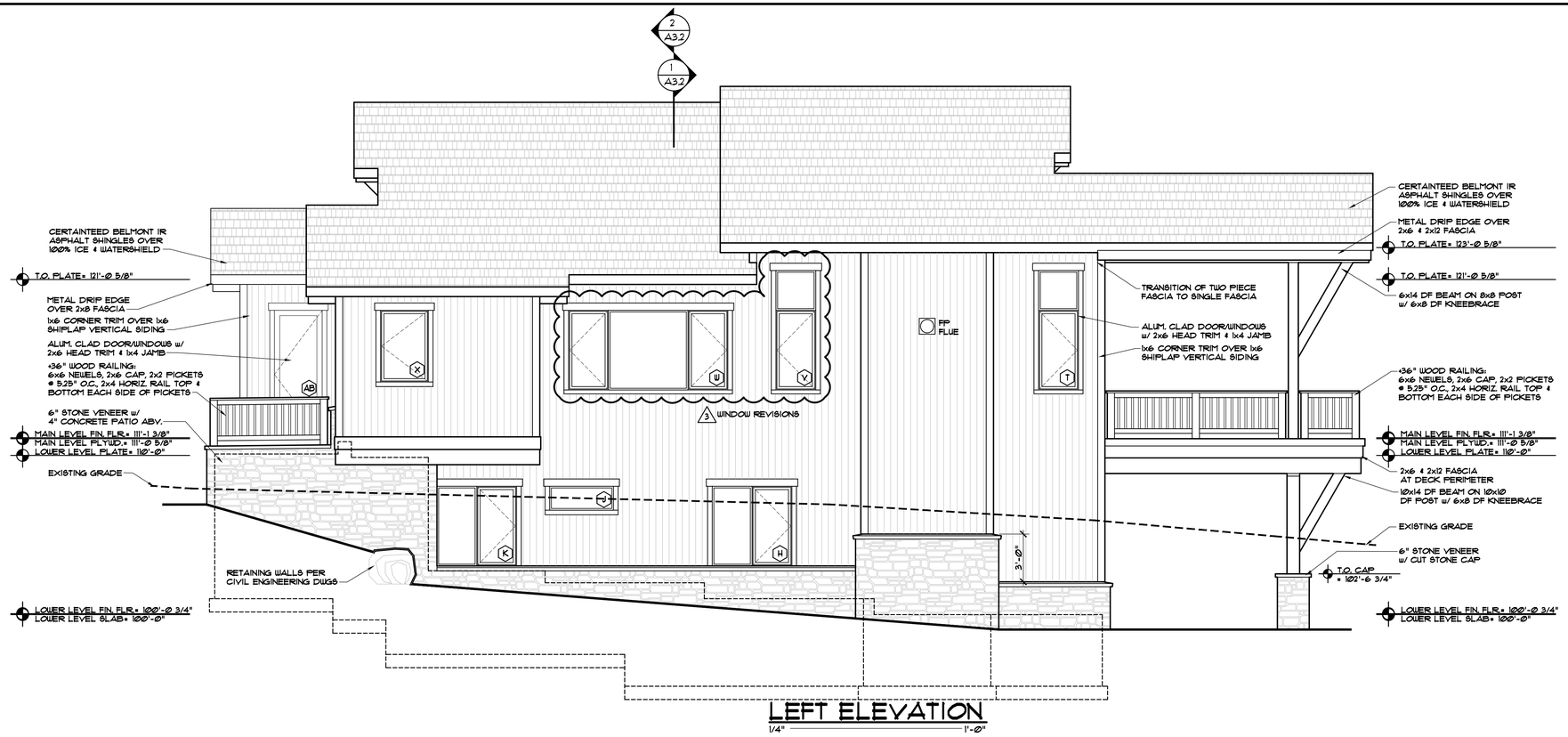

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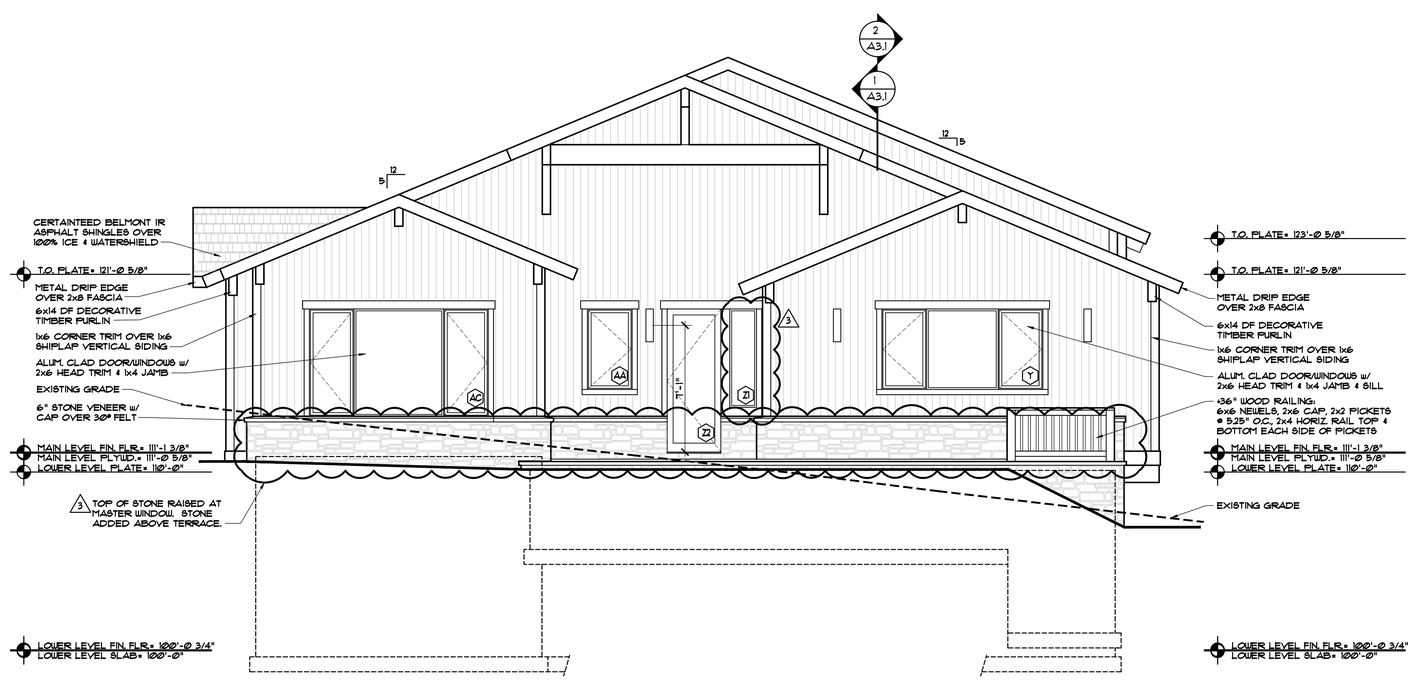

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A2.2