



**THE CITY OF COLORADO SPRINGS  
REQUEST FOR PROPOSALS**

**Consultant Services**

**R24-016SL**

**Date Issued: January 24, 2024**

**FOR**

**MARKSHEFFEL AND ZIRCON DESIGN SERVICES**

**PROPOSALS ARE DUE NO LATER THAN**

**MONDAY, FEBRUARY 26, 2024 AT 2:00PM MST**

***Contact***

Sarah M. Lagunas  
107 N. Nevada, Suite 125  
City of Colorado Springs, Colorado 80903  
(719) 385-5211

[Sarah.Lagunas@coloradosprings.gov](mailto:Sarah.Lagunas@coloradosprings.gov)



**The City of Colorado Springs requests Time and Material (T&M) proposals, as detailed in this Request for Proposal (RFP), for Marksheffel and Zircon Design Services.**

**This project is utilizing Federal Funds; please ensure included Federal Forms are completed and submitted.**

**SUBMITTALS FOR THIS PROJECT WILL ONLY BE ACCEPTED ON THE ROCKY MOUNTAIN E-PURCHASING BIDNET DIRECT PLATFORM.**

Please login to the following website to register (Free Registration) to submit a bid for this project. All required documents will be uploaded to the website.

<https://www.bidnetdirect.com/>

BIDNET Support

800-835-4603



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## SECTION I – PROPOSAL INFORMATION

### 1.0 PROPOSAL INFORMATION

Section I provides general information to potential Offerors, such as proposal submission instructions and other similar administrative elements. This RFP is available on BidNet ([www.BidNetDirect.com](http://www.BidNetDirect.com)). All addenda or amendments shall be issued through BidNet and may not be available through any other source.

### 1.1 RFP SCHEDULE OF EVENTS

The upcoming schedule of events is as follows:

<u>Event</u>	<u>Date</u>
Issue Request for Proposal	January 24, 2024
Pre-Proposal Conference	January 31, 2024 at 2:30 PM MST

We will hold a pre-proposal conference vis Microsoft Teams. This meeting is not mandatory, however, all potential Offerors are encouraged to attend.

## Microsoft Teams meeting

**Join on your computer, mobile app or room device**

[Click here to join the meeting](#)

Meeting ID: 235 676 025 576

Passcode: zaarf2

[Download Teams](#) | [Join on the web](#)

**Or call in (audio only)**

[+1 720-617-3426](tel:+17206173426),130567886# United States, Denver

Phone Conference ID: 130 567 886#

[Find a local number](#) | [Reset PIN](#)

Cut Off Date for Questions February 5, 2024 by 2:00 PM MST

Questions about the RFP must be submitted electronically to the solicitation in BidNet. A written response to any inquiry may be provided in the form of an Amendment to the solicitation. See 1.7 Amendments. Questions must be received no later than **February 5, 2024 by 2:00 PM MST**.

Requests for information or support shall be addressed to:

Sarah M. Lagunas, [sarah.lagunas@coloradosprings.gov](mailto:sarah.lagunas@coloradosprings.gov)

**DO NOT CONTACT ANY OTHER INDIVIDUAL AT THE CITY OF COLORADO SPRINGS REGARDING THIS SOLICITATION.**



**The only acceptable method of submitting questions is electronically within BidNet.**

Proposal Due Date	February 26, 2024 by 2:00 PM MST
Interviews (if applicable)	TBD
Award of Contract	Tentatively March 2024
Notice to Proceed	Tentatively March 2024

**1.2 SUBMISSION OF PROPOSAL**

**Proposals are to be submitted electronically on BidNet Direct:**  
[www.bidnetdirect.com](http://www.bidnetdirect.com).

Please review the submission requirements *well in advance* of submission date and time; and allow for sufficient time to upload each required document.

It is recommended that Offerors begin the submission process at least one (1) day in advance of the proposal deadline.

Offerors are solely responsible to ensure their proposal documents are uploaded and submitted correctly, and that a **confirmation number** is obtained upon successful submission.

BidNet Customer Support Team can be reached 1-800-835-4603.

**NO LATE OFFERS WILL BE ACCEPTED**

**Date/Time:** Proposals shall be received on or before February 26, 2024 by 2:00 PM MST.

**1.3 NUMBER OF COPIES**

Offerors shall submit **one (1) electronic** copy of the proposal documents. Upon submission, all proposal documents shall become and remain the property of the City of Colorado Springs.

**1.4 SPECIAL TERMS**

Please note the following definitions of terms as used herein:

The term “City” means the City of Colorado Springs.

The term “Contractor” or “Consultant” means the Offeror whose offer is accepted and is awarded the contract to provide the products or services specified in the RFP.

The term “Offer” means the proposal.

The term “Offeror” means the person, firm, or corporation that submits a formal proposal or offer and that may or may not be successful in being awarded the contract.



The term “Project” refers to Marksheffel and Zircon Design Services.

The term “Request for Proposal” or “RFP” means this solicitation of a formal, negotiable proposal/offer. Any offer that is accepted will be the offer that is deemed by the City of Colorado Springs to be most advantageous in terms of the criteria designated in the RFP.

### **1.5 RFP OBJECTIVE**

The objective of this RFP is to provide sufficient information to enable qualified Offerors to submit written proposals to the City of Colorado Springs. The RFP is not a contractual offer or commitment to purchase products or services. The Offeror may present options and variables to the scope while still meeting the minimum requirements of this solicitation. Innovative proposals/solutions are encouraged and considered in the selection and/or award.

All information included in proposals must be legible. Any and all corrections and/or erasures must be initialed by Offeror. Each proposal shall be accompanied by a cover letter signed by an authorized representative of the Offeror. The contents of the proposal submitted by the successful Offeror may become part of any contract awarded as a result of this solicitation.

### **1.6 CONFIDENTIAL OR PROPRIETARY INFORMATION**

If an Offeror believes that parts of an offer are confidential, then the Offeror must so specify. The Offeror must include in bold letters the term “CONFIDENTIAL” on that part of the offer which the Offeror believes to be confidential. The Offeror must submit in writing specific detailed reasons, including any relevant legal authority, stating why the Offeror believes the material to be confidential. Vague and general claims as to confidentiality will not be accepted. The City of Colorado Springs will be the sole judge as to whether a claim is acceptable. Decisions regarding the confidentiality of information will be made when requests are made to make the information public. All offers and parts of offers, which are not marked as confidential, will automatically be considered public information after the contract is awarded. The successful offer may be considered public information even though parts are marked confidential.

### **1.7 AMENDMENTS**

Amendments to this RFP may be issued at any time prior to the time set for receipt of proposals. Offerors are required to acknowledge receipt of any amendments issued to this RFP by returning a signed copy of each amendment issued. Signed copies of each amendment must be received on or before the time set for receipt of offers.

The City of Colorado Springs will post all amendments on BidNet. It is the Offeror's responsibility to check the website for posted amendments or contact the Contracts Specialist listed on this RFP to confirm the number of amendments which have been issued.

### **1.8 WITHDRAWAL OR MODIFICATION OF OFFERS**

Any Offeror may modify or withdraw an offer in writing at any time prior to the deadline for submission of an offer.



## **1.9 ACCEPTANCE**

Any offer received and not withdrawn shall be considered an offer, which may be accepted by the City of Colorado Springs based on initial submission without discussions or negotiations.

By submitting an offer in response to this solicitation, the Offeror agrees that any offer it submits may be accepted by the City of Colorado Springs at any time within 90 calendar days from the date of submission deadline.

The City of Colorado Springs reserves the right (a) to reject any or all offers, (b) to waive informalities and minor irregularities in offers received, and/or (c) to accept any portion of an offer if deemed in the best interest of the City of Colorado Springs. Failure of the Offeror to provide in its offer any information requested in the RFP may result in rejection of the offer for non-responsiveness.

## **1.10 PROPOSAL PREPARATION COST**

The cost of proposal preparation is not a reimbursable cost. Proposal preparation shall be at the Offeror's sole expense and is the Offeror's total and sole responsibility.

## **1.11 AWARD**

The City of Colorado Springs intends to make an award using the evaluation criteria listed in this RFP to determine the best value, considering all factors and criteria in the proposals submitted. Best value means the expected outcome of an acquisition that, in the City's estimation, provides the greatest overall benefit in response to the requirements detailed in the RFP. The City of Colorado Springs reserves the right to reject any or all offers and to not make an award.

## **1.12 PERFORMANCE PERIOD**

The performance period of any contract awarded as a result of this RFP is anticipated to be as follows.

Base Year: April 1, 2024 through March 31, 2025

Option Year 1: April 1, 2025 through March 31, 2026

Option Year 2: April 1, 2026 through March 31, 2027

## **1.13 DEBRIEFING**

Offerors not selected may request a debriefing on the selection process as well as discussion of the strengths and weaknesses of their proposal upon receipt of notification that their offer was not selected.

A debriefing may be scheduled by contacting the Contracts Specialist listed above. The Contracts Specialist must receive a written request for debriefing no later than ten (10) calendar days after issuance of a notification that the Offeror's offer was not selected.

## **1.14 SUBSTANTIVE PROPOSALS**



By responding to this RFP, the Offeror certifies (a) that Offeror's proposal is genuine and is not made in the interest of, or on behalf of, an undisclosed person, firm, or corporation; (b) that Offeror has not directly or indirectly induced or solicited any other Offerors to put in a false or sham proposal; (c) that Offeror has not solicited or induced any other person, firm, or corporation to refrain or abstain from proposing an offer or proposal; (d) that Offeror has not sought by collusion to obtain for themselves any advantage over any other Offerors or over the City of Colorado Springs; and (e) that Offeror has not violated or caused any person to violate, and shall not violate or cause any person to violate, the City's Code of Ethics contained in Article 3, of Chapter 1 of the City Code and in the City's Procurement Rules and Regulations.

### **1.15 OFFEROR'S QUALIFICATIONS**

Each Offeror must complete Exhibit 5 – Qualification Statement.

No contract will be awarded to any Offeror who is in arrears to the City, upon any debt or contract, or who is in default, in any capacity, upon any obligation to the City or is deemed to be irresponsible or unreliable by the City based on past performance.

### **1.16 NON-COLORADO ENTITIES**

If Offeror is a foreign entity, Offeror shall comply with C.R.S. section 7-90-801, "Authority to transact business or conduct activities required," and section 7-90-802, "Consequences of transacting business or conducting activities without authority."

Before or at the time that the contract is awarded to an entity organized or operating outside the State of Colorado, such entity shall obtain authorization to do business in the State of Colorado, designate a place of business herein, and appoint an agent for service of process.

Such entity must furnish the City of Colorado Springs with a certificate from the Secretary of the State of Colorado to the effect that a certificate of authority to do business in the State of Colorado has been issued by that office and is still valid. The entity shall also provide the City with a certified copy of the designation of place of business and appointment of agent for service of process from the Colorado Secretary of State, or a letter from the Colorado Secretary of State that such designation of place of business and agent for service of process has been made.

### **1.17 PROCUREMENT RULES AND REGULATIONS**

All projects advertised by the City of Colorado Springs are solicited in accordance with the City's Procurement Rules and Regulations. The City's Procurement Rules and Regulations can be reviewed and/or downloaded from the City website: [www.coloradosprings.gov](http://www.coloradosprings.gov). The Contracts Specialist may also provide a softcopy of the Rules and Regulations upon request. Any discrepancies regarding conflicting statements, decisions, irregularities, clauses, or specifications will be rectified utilizing the City's Procurement Rules and Regulations, when applicable. It is the Offeror's responsibility to advise the Contracts Specialist listed in this RFP of any perceived discrepancies prior to the date and time the offer is due.

### **1.18 FAIR TREATMENT OF OFFERORS**





The City Procurement Services Division shall be responsible for ensuring the procurement of products, commodities, and services is in a manner that affords all responsible businesses a fair and equal opportunity to compete. If an Offeror believes that a procurement is not conducted in a fair and equitable manner, the Offeror is encouraged to inform the City Procurement Services Manager as soon as possible.

### **1.19 ORDER OF PRECEDENCE**

Any inconsistency in this solicitation shall be resolved by giving precedence in the following order:

- A. Sections I-IV of this Solicitation
- B. Statement of Work
- C. Other Appendices, Schedules, Exhibits, or Attachments

### **1.20 SALES TAX**

The successful Offeror, if awarded a contract, shall apply to the Colorado Department of Revenue for a tax-exempt certificate for this project. The certificate does not apply to City of Colorado Springs Sales and Use Tax which shall be applicable and should be included in all proposals. The tax exempt project number and the exemption certificate only apply to County, PPRTA (Pikes Peak Rural Transportation Authority), and State taxes when purchasing construction and building materials **to be incorporated into this project**.

Furthermore, the exemption **does not** include or apply to the purchase or rental of equipment, supplies or materials that **do not become a part of the completed project or structure**. In these instances, the purchase or rental is subject to full taxation at the current taxation rate.

The Offeror and all subcontractors shall include in their Offer City of Colorado Springs Sales and Use Tax on the work covered by the offer, and all other applicable taxes.

Forms and instructions can be downloaded at:

<https://coloradosprings.gov/sales-tax/page/construction-contractors>.

Questions can be directed to the City Sales Tax Division at:

(719) 385-5903 or [Construction\\_SalesTax@ColoradoSprings.gov](mailto:Construction_SalesTax@ColoradoSprings.gov).

Our Registration Numbers are as follows:

City of Colorado Springs

Federal I.D.: 84-6000573

Federal Excise: A-138557

State Sales Tax: 98-03479

### **1.21 INTERPRETATION OF PLANS AND SPECIFICATIONS**

Any change to proposal forms, plans, or specifications prior to the opening of proposals will be issued by the City in the form of an Amendment. Certain individuals may be named in the RFP that have authority to provide information, clarification or interpretation to Offerors prior to opening of proposals. Information obtained from persons other than those named individuals is invalid and shall not be used for proposal purposes.



## **1.22 COMBINATION OR CONDITIONAL PROPOSALS**

If an RFP is issued for projects in combination and separately, the Offeror may submit proposals either on the combination or on separate units of the combination. The City reserves the right to make awards on combination or separate proposals to the advantage of the City. Combination proposals will be considered, only when specified.

## **1.23 ANTI-COLLUSION AFFIDAVIT**

The Offeror by signing their proposal submitted to the City is certifying that the Offeror has not participated in any collusion or taken any action in restraint of free competitive bidding. This statement may also be in the form of an affidavit provided by the City and signed by the Offeror. The original of the signed anti-collusion affidavit, if separately required and provided with the RFP, shall be submitted with the proposal. The proposal will be rejected if it does not contain the completed anti-collusion affidavit.



## SECTION II – PROPOSAL CONTENT

### 2.0 PROPOSAL CONTENT

Section II provides instructions regarding the format and content required for proposals submitted in response to this solicitation.

### 2.1 PROPOSAL FORMAT

Offeror's written proposal should include concise, but complete, information, emphasizing why the Offeror is best or best qualified to provide the required services. The Offeror's written proposal should include the information in the format outlined below and must be limited to no more than twenty-five (25) pages. **A page shall be defined as 8-1/2" x 11"; single sided, with one inch margins, and a minimum font of Times New Roman 10.** The only exception to the 8-1/2" x 11" paper size is the proposed project schedule. It may be submitted on 11" x 17" paper. Each 11" x 17" page for the schedule shall be counted in the overall page limitations above. Each section of the proposal should be labeled to clearly follow the requirements sections identified in this section of the RFP. The following listed Exhibits must be filled out and returned with the proposal and are not counted against the page limit:

Exhibit 1	Proposal Certification with Representations and Certifications
Exhibit 3	Exceptions Form
Exhibit 5	Qualification Statement
Exhibit 7	Federal Forms
Schedule A	Hourly Rate Sheet (Not Evaluated)
Schedule B	Minimum Insurance Requirements
Addenda	if applicable

### 2.2 COVER LETTER

The cover letter shall be no more than three pages, and does not count toward the overall page count. The cover letter shall contain at least the following information:

- A. RFP Number and Project Name.
- B. Statement that the Offeror is qualified to perform the work.
- C. Certification Statement that the information and data submitted are true and complete to the best knowledge of the individual signing the letter.
- D. Name, telephone number, email address, and physical address of the individual to contact regarding the proposal.
- E. The signature of an authorized principal, partner, or officer of the Offeror.

### 2.3 PROPOSAL CERTIFICATION

The Offeror must fill out and submit Exhibit 1 with its Proposal.

### 2.4 ORGANIZATIONAL BACKGROUND AND OVERVIEW

The Offeror must provide a brief history and overview of its company and its organizational structure, with special emphasis on how this project will fit within that structure. Also include



principal place of business location(s), office locations, size of firm, and assessment of financial stability.

## **2.5 EXPERTISE AND QUALIFICATIONS**

In this section, the Offeror must demonstrate that it meets and/or exceeds all requirements regarding expertise and qualifications of personnel proposed to complete the work defined in the Statement of Work/Scope of Services of this RFP. Qualifications of personnel are considered of the essence of the services provided. Therefore, the Offeror must provide information on Key Personnel who will be the personnel performing the consulting services.

### **A. Relevant Experience**

In the Expertise and Qualifications/Relevant Experience Area, the Offeror should provide at least three references or identify contracts demonstrating that it successfully provided services/products that are the same or similar to those required in the RFP. The proposal should adequately explain the successful outcomes of the projects. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions.

1. Does the proposal include at least three references or past performance citations?
2. Are the references or past performance citations relevant to the requirements of the Statement of Work of the RFP?
3. Does the Offeror explain how they were successful on the projects provided as past performance?
4. Does the Offeror apply the past performance to the City requirement in such a way as to demonstrate added value due to experience?

### **B. Key Personnel**

In the Expertise and Qualifications/Key Personnel Area, resumes must be provided for all personnel who would be performing work on the resultant Contract. Resumes do not count toward the page limit. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions. Explain how the key personnel were related to the projects cited as relevant past performance.

1. Does the Offeror provide complete resumes, including education, experience, background information, accomplishments, and other pertinent information?
2. Does the Offeror provide resumes for all key personnel, as required by the RFP?
3. Do the resumes demonstrate adequate professional, technical, and management levels to accomplish the work effectively and efficiently?
4. Do the key personnel possess all requisite certifications, licenses, experience, etc.?

## **2.6 TECHNICAL AREA**

The Offeror must explain its overall solution, considering the scope of work or statement of work provided. The content must include, but not necessarily be limited to, the following information.

### **A. Understanding of and Compliance with Technical Requirements**



In the Technical Area, the Offeror should address each work area in sufficient detail to demonstrate a clear and full understanding of the work necessary to complete the project. The proposal should not merely parrot the requirements of the RFP. Further, the Offeror should provide evidence of sufficient planning to ensure the work is completed on schedule and within budget. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions:

1. Does the proposal demonstrate a firm understanding of the requirements and goals of the Statement of Work, as well as industry standards and reasonable expectations for a company in the industry?
2. Does the proposal fully and completely address each requirement and goal of the Statement of Work?
3. Does the proposal provide solutions to indicate that requirements and goals will be met on schedule?
4. Does the technical solution seem realistic?
5. Does it generally appear that the Offeror knows and thoroughly understands the business and the RFP requirements?

#### B. Project Approach

In the Technical Area, the Offeror should clearly present proposed solutions and indicate that it has performed adequate planning to accomplish project tasks as defined in the Statement of Work. Innovations, efficiencies, and detailed specifics are all encouraged.

The Offeror must at least address the following areas:

1. **Schedule Management.** Discuss Offeror's approach to schedule management including updating and reporting progress of the work.
2. **Quality Control.** Discuss Offeror's quality control plan, processes and approach to ensure that the City receives a quality product.
3. **Safety.** Discuss Offeror's approach and commitment to safety for its workers, the public, and City employees, if services are accomplished on a City site.
4. **Potential issues that Offeror foresees with this project and how Offeror would make adjustments if encountered.**

It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions.

1. Does the proposal include a complete and timely plan to accomplish each requirement, including subcontracting (if applicable)?
2. Does the proposal demonstrate that appropriate and qualified personnel and equipment will be provided to carry out the requirement?
3. Are the proposal concepts properly scaled to the scope and budget of the project?
4. Does the proposal demonstrate and understanding of the key stakeholders requirement and desires?
5. Do the proposed concept stabilization methods seem appropriate for the channel?

## **2.7 PRICE AREA (NOT EVALUATED)**



## **2.8 PROPOSAL PRESENTATION**

Presentation is an important factor. Offerors should provide a highly professional product, which is complete, accurate, easily understood, and effectively presented.

## **2.9 EXCEPTIONS**

All Offerors must complete Exhibit 3, Exceptions Form and return it with their proposal. Some terms and conditions are not negotiable. Exceptions may be grounds for rendering the proposal unacceptable without further discussions.

## **2.10 INSURANCE REQUIREMENTS**

All Offerors must complete Schedule B, Minimum Insurance Requirements and return it with their proposal. Lack of responsiveness in this area may be grounds for rendering the proposal unacceptable without further discussions.



## **SECTION III – EVALUATION FACTORS**

### **3.0 EVALUATION AND AWARD**

Section III provides information regarding evaluation criteria and scoring. It also includes information regarding proposal selection and award of the resultant contract.

#### **3.1 EVALUATION CRITERIA**

##### **3.1.1 EXPERTISE AND QUALIFICATIONS**

See Section II – Item 2.5

##### **3.1.2 TECHNICAL AREA**

See Section II – Item 2.6

##### **3.1.3 PRICE (NOT EVALUATED)**

See Section II – Item 2.7

##### **3.1.4 PROPOSAL PRESENTATION**

See Section II – Item 2.8

##### **3.1.5 EXCEPTIONS AND INSURANCE**

See Section II – Items 2.9 and 2.10

#### **3.2 RANKING**

A. The order of ranking or importance in the evaluation shall be as follows:

First: Technical Area

Second: Expertise and Qualifications

Third: Proposal Presentation

Exceptions and Insurance areas will be scored as pass or fail. Failure in this area may result in disqualification from award.

B. Possible scores for each criterion shall be as follows:

5 – Exceptional

4 – Very Good

3 – Satisfactory

2. – Marginal

1 – Unacceptable

C. Definitions for scoring are as follows:

1. The following apply to the Technical and Expertise and Qualifications Areas:

Exceptional – The proposal meets all and exceeds many of the requirements of the RFP to the benefit of the City, and the information provided is of such a nature as to answer all



questions without need for further inquiry. There are no corrective actions required, and no compromise of requirements is needed.

Very Good – The proposal meets all and exceeds some of the requirements of the RFP to the benefit of the City, and the information provided is of such a nature as to answer most questions without need for further inquiry. There are no corrective actions required, and no compromise of requirements is needed.

Satisfactory – The proposal meets the requirements of the RFP, and the information provided is of such a nature as to answer many questions without need for further inquiry. There are very few corrective actions required, and no substantive compromise of requirements is needed.

Marginal – The proposal does not meet some of the requirements of the RFP, and the information provided is of such a nature as to require some clarification. There are some corrective actions required, and some non-substantive compromise of requirements is needed.

Unacceptable – The proposal does not meet many of the requirements of the RFP, and the information provided is of such a nature as to require much clarification. There are many corrective actions required, and substantive compromise of requirements is needed.

2. The following apply to the Proposal Presentation Area:

Exceptional – The proposal is professionally communicated, complete in all areas, provides sufficient detail, and is presented in a clear and effective manner. The quality far exceeds that of the competition, industry standard, or reasonable expectation.

Very Good – The proposal is professionally communicated, complete in all areas, provides sufficient detail, and is presented in a clear and effective manner. The quality exceeds that of the competition, industry standard, or reasonable expectation.

Satisfactory – The proposal is professionally communicated, complete in all areas, provides sufficient detail, and is presented in a clear and effective manner. The quality is equal to that of the competition, industry standard, or reasonable expectation.

Marginal – The proposal is not professionally communicated and is incomplete in some areas, provides insufficient detail, and is not presented in a clear and effective manner. The quality is below that of the competition, industry standard, or reasonable expectation.

Unacceptable – The proposal is not professionally communicated and is incomplete in many areas, provides insufficient detail, and is not presented in a clear and effective manner. The quality is far below that of the competition, industry standard, or reasonable expectation.

3. The following apply to the Exceptions and Insurance Areas

Exceptions and insurance will be evaluated as pass or fail. Whether exceptions to City terms and conditions are acceptable or unacceptable will be determined at the sole discretion of the City. Any exceptions deemed unacceptable may result in a “fail” rating. The Insurance Area





will be rated as “pass,” unless the Offeror fails to meet any stated insurance requirement provided in this RFP. If the Offeror fails to meet any stated insurance requirement provided in this RFP, the Offeror will be rated “fail” in the Insurance Area. A rating of “fail” in either of these areas may result in disqualification from award.

#### D. Area Scoring

The total maximum score a proposer can achieve is 100 points; the maximum score for each area is divided as follows:

Expertise and Qualifications: 40

Technical Area: 50

Proposal Presentation: 10

#### E. Final/Overall Scoring

The final proposal score will be determined by adding the area scoring. The sum of the area scores will be the final/overall score.

### **3.3 SELECTION COMMITTEE**

A selection committee will review all proposals. Through this process, the City will determine which proposals are acceptable or unacceptable. The City will notify, in writing, the Offerors whose proposals are deemed to be unacceptable. Those Offerors offering proposals deemed to be acceptable by the City will be evaluated and scored by the selection committee. This scoring will determine which Offerors are considered to be in the competitive range and may be the basis for an award decision without further steps.

If the selection committee elects not to award based upon evaluation scoring, it may engage in a forced elimination process. To inform this process, it may require oral presentations or interviews with the Offerors considered to be in the competitive range. If oral presentations or interviews are conducted, they may also be scored, or they may simply be considered as information supporting the forced elimination process. The selection committee may request revisions to the proposal from each of the Offerors at the conclusion of the interviews. The intent of the forced elimination process is to reach consensus. The decision will be based on all relevant factors, and based upon perception of best value. The final decision may or may not exactly reflect scoring ranking.

The City also reserves the right to request best and final offers from all Offerors at any point in the proposal evaluation process.

### **3.4 AWARD OF CONTRACT**

It is anticipated that there will be negotiations or discussions with Offerors. However, the City reserves the right to award without negotiations or discussions. The City also reserves the right to award a contract not necessarily or merely to the Offeror with the most advantageous price. The City intends to award to the Offeror that demonstrates the best value to the City and the most substantiated ability to fulfill the requirements contained in this Request for Proposal. A contract prepared by the City will be finalized and/or negotiated with the successful Offeror. In the event a contract cannot be negotiated with the top ranked Offeror, the City may enter into negotiations with the second highest ranked Offeror, or the City may decide to call for new proposals.



Immediately after the notice of award, the successful Offeror will begin planning in conjunction with the City of Colorado Springs staff (to be designated by the City) to ensure fulfillment of all its obligations. The successful Offeror may be expected to attend regular meetings as required by the City to assist in the preparation for startup.



## **SECTION IV – SPECIAL CONTRACT TERMS AND CONDITIONS**

### **4.0 SPECIAL CONTRACT TERMS AND CONDITIONS/SPECIAL SOLICITATION PROVISIONS**

In addition to the special contract terms and conditions listed below, the City's sample contract provided at Exhibit 2 contains contract terms and conditions.

#### **4.1 ADA STANDARDS**

It is a requirement of the City and required by law that any new or renovated facility meet the scoping and technical requirements of the 2010 ADA Standards for newly designed and constructed or altered local government facilities, public accommodations, and facilities. The selected Design Professional shall design the project so it both conforms to the 2010 ADA Standards, as applicable and as amended, and is readily accessible to and usable by individuals with disabilities. The selected Contractor shall build the project so it both conforms to the 2010 ADA Standards, as applicable and as amended, and is readily accessible to and usable by individuals with disabilities. Facilities that are designed, constructed, and/or altered facilities that meet or exceed the IBC 2015/ANSI A117.1 2009, used by Pikes Peak Regional Building Department, will be accepted as meeting or exceeding the 2010 ADA Standards.

#### **4.2 CLAUSES FOR CONTRACTS SUBJECT TO FEDERAL REQUIREMENTS**

##### **1. EQUAL EMPLOYMENT OPPORTUNITY**

To view the City of Colorado Springs EEOP (Equal Employment Opportunity Plan) Utilization Report, the link is [www.coloradosprings.gov/eeop](http://www.coloradosprings.gov/eeop).

During the performance of this Contract, the Contractor agrees as follows:

A. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

B. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

C. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.



D. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

E. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

F. In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

G. The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: *Provided, however*, that in the event the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

*H. Subcontracts.* Each nonexempt prime contractor or subcontractor shall include the equal opportunity clause in each of its nonexempt subcontracts.

*I. Incorporation by reference.* The equal opportunity clause may be incorporated by reference in all Government contracts and subcontracts, including Government bills of lading, transportation requests, contracts for deposit of Government funds, and contracts for issuing and paying U.S. savings bonds and notes, and such other contracts and subcontracts as the Deputy Assistant Secretary may designate.

*J. Incorporation by operation of the order.* By operation of the order, the equal opportunity clause shall be considered to be a part of every contract and subcontract required by the order and the regulations in this part to include such a clause whether or not it is physically incorporated in such contracts and whether or not the contract between the agency and the contractor is written.

*K. Adaptation of language.* Such necessary changes in language may be made in the equal opportunity clause as shall be appropriate to identify properly the parties and their undertakings. [43 FR 49240, Oct. 20, 1978, as amended at 62 FR 66971, Dec. 22, 1997]



## **2. EQUAL EMPLOYMENT OPPORTUNITY REPORTS AND OTHER REQUIRED INFORMATION**

### *A. Requirements for prime contractors and subcontractors.*

1. Each prime contractor and subcontractor shall file annually, on or before the September 30, complete and accurate reports on Standard Form 100 (EEO-1) promulgated jointly by the Office of Federal Contract Compliance Programs, the Equal Employment Opportunity Commission and Plans for Progress or such form as may hereafter be promulgated in its place if such prime contractor or subcontractor (i) is not exempt from the provisions of these regulations in accordance with § 60-1.5; (ii) has 50 or more employees; (iii) is a prime contractor or first tier subcontractor; and (iv) has a contract, subcontract or purchase order amounting to \$50,000 or more or serves as a depository of Government funds in any amount, or is a financial institution which is an issuing and paying agent for U.S. savings bonds and savings notes: *Provided*, That any subcontractor below the first tier which performs construction work at the site of construction shall be required to file such a report if it meets requirements of paragraphs (a)(1) (i), (ii), and (iv) of this section.
2. Each person required by § 60-1.7(a)(1) to submit reports shall file such a report with the contracting or administering agency within 30 days after the award to him of a contract or subcontract, unless such person has submitted such a report within 12 months preceding the date of the award. Subsequent reports shall be submitted annually in accordance with § 60-1.7(a)(1), or at such other intervals as the Deputy Assistant Secretary may require. The Deputy Assistant Secretary may extend the time for filing any report.
3. The Deputy Assistant Secretary or the applicant, on their own motions, may require a contractor to keep employment or other records and to furnish, in the form requested, within reasonable limits, such information as the Deputy Assistant Secretary or the applicant deems necessary for the administration of the order.
4. Failure to file timely, complete and accurate reports as required constitutes noncompliance with the prime contractor's or subcontractor's obligations under the equal opportunity clause and is ground for the imposition by the Deputy Assistant Secretary, an applicant, prime contractor or subcontractor, of any sanctions as authorized by the order and the regulations in this part.

### *B. Requirements for bidders or prospective contractors—*

1. *Certification of compliance with Part 60-2: Affirmative Action Programs.* Each agency shall require each bidder or prospective prime contractor and proposed subcontractor, where appropriate, to state in the bid or in writing at the outset of negotiations for the contract: (i) Whether it has developed and has on file at each establishment affirmative action programs pursuant to Part 60-2 of this chapter; (ii) whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; (iii) whether it has filed with the Joint Reporting Committee, the Deputy Assistant Secretary or the



Equal Employment Opportunity Commission all reports due under the applicable filing requirements.

2. *Additional information.* A bidder or prospective prime contractor or proposed subcontractor shall be required to submit such information as the Deputy Assistant Secretary requests prior to the award of the contract or subcontract. When a determination has been made to award the contract or subcontract to a specific contractor, such contractor shall be required, prior to award, or after the award, or both, to furnish such other information as the applicant or the Deputy Assistant Secretary requests.

C. *Use of reports.* Reports filed pursuant to this section shall be used only in connection with the administration of the order, the Civil Rights Act of 1964, or in furtherance of the purposes of the order and said Act.[43 FR 49240, Oct. 20, 1978, as amended at 62 FR 66971, Dec. 22, 1997]

### **3. CONSTRUCTION WAGE RATE REQUIREMENTS (DAVIS BACON) (From FAR 52.222-6)**

The term “Contracting Officer” herein shall refer to the City of Colorado Springs Contracting Specialist assigned to this contract.

A. Definition.-“Site of the work”-

1. Means-

a. *The primary site of the work.* The physical place or places where the construction called for in the contract will remain when work on it is completed.

b. *The secondary site of the work, if any.* Any other site where a significant portion of the building or work is constructed, provided that such site is-

1. Located in the United States; and
2. Established specifically for the performance of the contract or project;

2. Except as provided in paragraph (3) of this definition, includes any fabrication plants, mobile factories, batch plants, borrow pits, job headquarters, tool yards, etc., provided-

a. They are dedicated exclusively, or nearly so, to performance of the contract or project; and

b. They are adjacent or virtually adjacent to the “primary site of the work” as defined in paragraph (a)(1)(i), or the “secondary site of the work” as defined in paragraph (a)(1)(ii) of this definition;

3. Does not include permanent home offices, branch plant establishments, fabrication plants, or tool yards of a Contractor or subcontractor whose locations and continuance in operation are determined wholly without regard to a particular Federal contract or project. In addition, fabrication plants, batch plants, borrow pits, job headquarters, yards, etc., of a commercial or material supplier which are established by a supplier of materials for the project before opening of bids and not on the Project site, are not included in the “site of the work.” Such permanent, previously established facilities are



not a part of the “site of the work” even if the operations for a period of time may be dedicated exclusively or nearly so, to the performance of a contract.

B. All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, or as may be incorporated for a secondary site of the work, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics. Any wage determination incorporated for a secondary site of the work shall be effective from the first day on which work under the contract was performed at that site and shall be incorporated without any adjustment in contract price or estimated cost. Laborers employed by the construction Contractor or construction subcontractor that are transporting portions of the building or work between the secondary site of the work and the primary site of the work shall be paid in accordance with the wage determination applicable to the primary site of the work.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Construction Wage Rate Requirements statute on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (e) of this clause; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such period.

Such laborers and mechanics shall be paid not less than the appropriate wage rate and fringe benefits in the wage determination for the classification of work actually performed, without regard to skill, except as provided in the clause entitled Apprentices and Trainees. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein; provided that the employer’s payroll records accurately set forth the time spent in each classification in which work is performed.

The wage determination (including any additional classifications and wage rates conformed under paragraph (c) of this clause) and the Construction Wage Rate Requirements (Davis-Bacon Act) poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the primary site of the work and the secondary site of the work, if any, in a prominent and accessible place where it can be easily seen by the workers.

C. The Contracting Officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The Contracting Officer shall approve an additional classification and wage rate and fringe benefits therefor only when all the following criteria have been met:

1. The work to be performed by the classification requested is not performed by a classification in the wage determination.



2. The classification is utilized in the area by the construction industry.
3. The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the Contracting Officer agree on the classification and wage rate (including the amount designated for fringe benefits, where appropriate), a report of the action taken shall be sent by the Contracting Officer to the Administrator of the:

Wage and Hour Division  
Employment Standards Administration  
U.S. Department of Labor  
Washington, DC 20210

The Administrator or an authorized representative will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

In the event the Contractor, the laborers or mechanics to be employed in the classification, or their representatives, and the Contracting Officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the Contracting Officer shall refer the questions, including the views of all interested parties and the recommendation of the Contracting Officer, to the Administrator of the Wage and Hour Division for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the Contracting Officer or will notify the Contracting Officer within the 30-day period that additional time is necessary.

The wage rate (including fringe benefits, where appropriate) determined pursuant to paragraphs (c)(2) and (c)(3) of this clause shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

D. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the Contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

E. If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program; provided, That the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Construction Wage Rate Requirements statute have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

#### **4. CONTRACT WORK HOURS AND SAFETY STANDARDS (from FAR 52.222-4)**

The term "Contracting Officer" herein shall refer to the City of Colorado Springs Contracting Specialist assigned to this contract.





The term "Government" herein shall refer to the City of Colorado Springs and any interested federal or state entity.

A. *Overtime requirements.* No Contractor or subcontractor employing laborers or mechanics (see Federal Acquisition Regulation 22.300) shall require or permit them to work over 40 hours in any workweek unless they are paid at least 1 and 1/2 times the basic rate of pay for each hour worked over 40 hours.

B. *Violation; liability for unpaid wages; liquidated damages.* The responsible Contractor and subcontractor are liable for unpaid wages if they violate the terms in paragraph (a) of this clause. In addition, the Contractor and subcontractor are liable for liquidated damages payable to the Government. The Contracting Officer will assess liquidated damages at the rate of \$10 per affected employee for each calendar day on which the employer required or permitted the employee to work in excess of the standard workweek of 40 hours without paying overtime wages required by the Contract Work Hours and Safety Standards statute (found at 40 U.S.C. chapter 37).

C. *Withholding for unpaid wages and liquidated damages.* The Contracting Officer will withhold from payments due under the contract sufficient funds required to satisfy any Contractor or subcontractor liabilities for unpaid wages and liquidated damages. If amounts withheld under the contract are insufficient to satisfy Contractor or subcontractor liabilities, the Contracting Officer will withhold payments from other Federal or federally assisted contracts held by the same Contractor that are subject to the Contract Work Hours and Safety Standards statute

D. Payrolls and basic records.

1. The Contractor and its subcontractors shall maintain payrolls and basic payroll records for all laborers and mechanics working on the contract during the contract and shall make them available to the Government until 3 years after contract completion. The records shall contain the name and address of each employee, social security number, labor classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records need not duplicate those required for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Construction Wage Rate Requirements statute.

2. The Contractor and its subcontractors shall allow authorized representatives of the Contracting Officer or the Department of Labor to inspect, copy, or transcribe records maintained under paragraph (d)(1) of this clause. The Contractor or subcontractor also shall allow authorized representatives of the Contracting Officer or Department of Labor to interview employees in the workplace during working hours.

E. *Subcontracts.* The Contractor shall insert the provisions set forth in paragraphs (a) through (d) of this clause in subcontracts that may require or involve the employment of laborers and mechanics and require subcontractors to include these provisions in any such lower tier subcontracts. The Contractor shall be responsible for compliance by any subcontractor or lower-tier subcontractor with the provisions set forth in paragraphs (a) through (d) of this clause.

## **5. CLEAN AIR ACT**



By signing this Contract, the Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA). Further, the Contractor agrees to include this clause in all subcontracts in excess of \$150,000.

## **6. DEBARMENT AND SUSPENSION**

By signing this Contract, the Contractor certifies to the best of its knowledge and belief that it and its principals:

- A. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- B. Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, falsification or destruction of records, making false statements, or receiving stolen property;
- C. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
- D. Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated for cause or default.

## **7. BYRD ANTI-LOBBYING AMENDMENT**

By signing this Contract, the Contractor certifies that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Further, the Contractor certifies that it has not engaged in lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. The Contractor must require the same certification from all subcontractors with subcontracts valued in excess of \$100,000 under this Contract.

## **8. SMALL BUSINESS REQUIREMENTS**

The Contractor must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

Affirmative steps must include:



- A. Placing qualified small and minority businesses and women's business enterprises on subcontract solicitation lists.
- B. Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources for subcontracting.
- C. Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises.
- D. Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises.
- E. Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

## **9. PROCUREMENT OF RECOVERED MATERIALS**

The Contractor must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired by the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

## **10. ANTI-KICKBACK PROCEDURES**

### **A. Definitions.**

1. "Kickback," as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided to any prime Contractor, prime Contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.
2. "Person," as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.
3. "Prime contract," as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.
4. "Prime Contractor" as used in this clause, means a person who has entered into a prime contract with the United States.



5. "Prime Contractor employee," as used in this clause, means any officer, partner, employee, or agent of a prime Contractor.
6. "Subcontract," as used in this clause, means a contract or contractual action entered into by a prime Contractor or subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.
7. "Subcontractor," as used in this clause,
  - a. Means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and
  - b. Includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subcontractor.
8. "Subcontractor employee," as used in this clause, means any officer, partner, employee, or agent of a subcontractor.

B. The 41 U.S.C. chapter 87, Kickbacks, prohibits any person from --

1. Providing or attempting to provide or offering to provide any kickback;
2. Soliciting, accepting, or attempting to accept any kickback; or
3. Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or in the contract price charged by a subcontractor to a prime Contractor or higher tier subcontractor.

C. The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.

When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Attorney General.

The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.

The Contracting Officer may

1. offset the amount of the kickback against any monies owed by the United States under the prime contract and/or



2. direct that the Prime Contractor withhold from sums owed a subcontractor under the prime contract the amount of the kickback. The Contracting Officer may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Prime Contractor shall notify the Contracting Officer when the monies are withheld.

The Contractor agrees to incorporate the substance of this clause, including subparagraph (c)(5) but excepting subparagraph (c)(1), in all subcontracts under this contract which exceed \$150,000.

## **11. ENERGY EFFICIENCY IN ENERGY CONSUMING PRODUCTS**

A. Definition. As used in this clause--

1. "Energy-efficient product"—

a. Means a product that—

- i. Meets Department of Energy and Environmental Protection Agency criteria for use of the Energy Star trademark label; or
- ii. Is in the upper 25 percent of efficiency for all similar products as designated by the Department of Energy's Federal Energy Management Program.

2. The term "product" does not include any energy-consuming product or system designed or procured for combat or combat-related missions (42 U.S.C. 8259b).

B. The Contractor shall ensure that energy-consuming products are energy efficient products (i.e., ENERGY STAR® products or FEMP-designated products) at the time of contract award, for products that are—

1. Delivered.

2. Acquired by the Contractor for use in performing services at a Federally controlled facility.

3. Furnished by the Contractor for use by the Government.

4. Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance.

C. The requirements of paragraph (b) apply to the Contractor (including any subcontractor) unless:

1. The energy-consuming product is not listed in the ENERGY STAR® Program or FEMP; or



2. Otherwise approved in writing by the Contracting Officer.

D. Information about these products is available for—

1. ENERGY STAR® at <http://www.energystar.gov/products>; and
2. FEMP at [http://www1.eere.energy.gov/femp/procurement/eep\\_requirements.html](http://www1.eere.energy.gov/femp/procurement/eep_requirements.html).

## **12. BUY AMERICAN—CONSTRUCTION MATERIALS**

A. Definitions. As used in this clause—

1. “Commercially available off-the-shelf (COTS) item”—
  - a. Means any item of supply (including construction material) that is—
    - i. A commercial item (as defined in paragraph (1) of the definition at FAR [2.101](#));
    - ii. Sold in substantial quantities in the commercial marketplace; and
    - iii. Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
  - b. Does not include bulk cargo, as defined in [46 U.S.C. 40102\(4\)](#), such as agricultural products and petroleum products.
2. “Component” means an article, material, or supply incorporated directly into a construction material.
3. “Construction material” means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.
4. “Cost of components” means—
  - a. For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
  - b. For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in



paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

5. “Domestic construction material” means—
  - a. An unmanufactured construction material mined or produced in the United States;
  - b. A construction material manufactured in the United States, if—
    - i. The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic.
    - b. The construction material is a COTS item.
6. “Foreign construction material” means a construction material other than a domestic construction material.
7. “United States” means the 50 States, the District of Columbia, and outlying areas.
  - a. Domestic preference.
    - i. This clause implements [41 U.S.C. chapter 83](#), Buy American, by providing a preference for domestic construction material. In accordance with [41 U.S.C. 1907](#), the component test of the Buy American statute is waived for construction material that is a COTS item. (See FAR [12.505\(a\)\(2\)](#)). The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.
    - ii. This requirement does not apply to information technology that is a commercial item or to the construction materials or components listed by the Government as follows:
  - b. The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that—
    - i. The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;
    - ii. The application of the restriction of the Buy American statute to a particular construction material would be impracticable or inconsistent with the public interest; or



iii. The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

8. Request for determination of inapplicability of the Buy American statute.

a. Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including—

i. A description of the foreign and domestic construction materials

ii. Unit of measure

iii. Quantity

iv. Price

v. Time of delivery or availability

vi. Location of the construction project

vii. Name and address of the proposed supplier

viii. A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

b. A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American statute applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American statute applies, use of foreign construction material is noncompliant with the Buy American statute.

(d) Data. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:





**FOREIGN AND DOMESTIC CONSTRUCTION MATERIALS PRICE COMPARISON**

Construction Material Description	Unit of Measure	Quantity	Price (Dollars)*
Item 1:			
Foreign construction material	_____	_____	_____
Domestic construction material	_____	_____	_____
Item 2:			
Foreign construction material	_____	_____	_____
Domestic construction material	_____	_____	_____

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

[\* Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]

**13. INFRASTRUCTURE INVESTMENT AND JOBS ACT, BUILD AMERICA, BUY AMERICA**

**THIS SECTION ONLY APPLIES TO PROJECTS THAT HAVE A TOTAL COST OF \$250,000 OR MORE AND THAT INCLUDE THE USE OF IRON OR STEEL.**

Recipients of an award of Federal financial assistance from a program for infrastructure are hereby notified that none of the funds provided under this Agreement may be used for a project for infrastructure unless:

- A. All iron and steel used in the PROJECT are produced in the United States--this means all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
  
- B. All manufactured products used in the PROJECT are produced in the United States—this means the manufactured product was manufactured in the United States; and the cost of the components of the manufactured product that are mined, produced, or manufactured in the United States is greater than 55 percent of the total cost of all components of the manufactured product, unless another standard for determining the minimum amount of domestic content of the manufactured product has been established under applicable law or regulation.
  
- C. All construction materials (excludes cement and cementitious materials, aggregates such as stone, sand, or gravel, or aggregate binding agents or additives) are manufactured in the United States—this means that all manufacturing processes for the construction material occurred in the United States.



D. The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

E. Definitions:

“Construction materials” includes an article, material, or supply—other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives 46—that is or consists primarily of:

1. Non-ferrous metals
2. Plastic and polymer-based products (including polyvinyl/chloride, composite building materials, and polymers used in fiber optic cables)
3. Glass (including optic glass)
4. Lumber; or drywall

F. Subrecipient Agreements

Contractors and their subcontractors who apply or bid for an award for an infrastructure project subject to the domestic preference requirement in the Build America, Buy America Act (BABAA) shall file the required certification to the City with each bid or offer for an infrastructure project, unless a domestic preference requirement is waived by the federal awarding agency. Contractors and subcontractors certify that no federal financial assistance funding for infrastructure projects will be provided unless all the iron, steel, manufactured projects, and construction materials used in the project are produced in the United States. BABAA, Pub. L. No. 117-58, §§ 70901-52. Contractors and subcontractors shall also disclose any use of federal financial assistance for infrastructure projects that do not ensure compliance with BABAA domestic preference requirement. Such disclosures shall be forwarded to City who in turn will forward the disclosures to the federal awarding agency; subrecipients will forward disclosures to the City, who will in turn forward the disclosures to the federal awarding agency.



## **SECTION V – EXHIBITS**

### **5.0 EXHIBITS**

Exhibit 1	Proposal Certification & Representations and Certifications
Exhibit 2	Sample Contract
Exhibit 3	Exceptions Form
Exhibit 4	Statement of Work
Exhibit 5	Qualification Statement
Exhibit 6	Evaluation Scoresheet
Exhibit 7	Federal Forms



**EXHIBIT 1 PROPOSAL CERTIFICATION**

Check or Mark the space after each number to indicate compliance.

1. \_\_\_\_\_ Address of Offeror’s Principal Place of Business:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Does Offeror have an established office or facility in Colorado Springs?

Yes \_\_\_\_\_ No \_\_\_\_\_

If yes, indicate address below if different than Principal Place of Business.

Colorado Springs Facility – Year established \_\_\_\_\_

Address of Colorado Springs Facility:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Percent of Work to be Performed from Principal Place of Business? \_\_\_\_\_

Percent of Work to be Performed from Colorado Springs Facility? \_\_\_\_\_

2. \_\_\_\_\_ Indicate your ability to provide a certificate of insurance evidencing the required coverage types and limits specified in Minimum Insurance Requirements Exhibit. (The certificate of insurance must reflect the City of Colorado Springs as an Additional Insured, as applicable.)

Indicate your ability to comply with the following requirements:

The City shall be added as an Additional Insured to all liability policies:

Yes \_\_\_\_\_ No \_\_\_\_\_

Your property and liability insurance company is licensed to do business in Colorado:

Yes \_\_\_\_\_ No \_\_\_\_\_

Provide the name of your property and liability insurance company here: \_\_\_\_\_



Your property and liability insurance company has an AM best rating of not less than B+ and/or VII:

Yes \_\_\_\_\_ No \_\_\_\_\_

Worker's Compensation Insurance is carried for all employees and covers work done in Colorado.

Yes \_\_\_\_\_ No \_\_\_\_\_

- 3. \_\_\_\_\_ Provide one (1) copy of current financial statements (if required). Enclose financial information in a separate envelope; do not bind with the other proposal copies. If review of the information is to be restricted to the City's financial officer, it must be marked accordingly.
- 4. \_\_\_\_\_ Provide the completed and signed proposal. (Proposals must be identified as specified in this RFP document). All required Exhibits are attached.

By signing below, the Offeror certifies that no person or firm other than the Offeror or as otherwise indicated has any interest whatsoever in this offer or any Contract that may be entered into as a result of this offer and that in all respects the offer is legal and firm, submitted in good faith without collusion or fraud.

Offeror has appointed \_\_\_\_\_ as the Offeror's representative and contact for all questions or clarifications in regard to this Offeror.

Telephone: (\_\_\_\_) \_\_\_\_\_

Email: \_\_\_\_\_

The undersigned acknowledges and understands the terms, conditions, specifications and all requirements contained and/or referenced herein and is legally authorized by the Offeror to make the above statements or representations.

\_\_\_\_\_  
(Name of Company)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
Date

\_\_\_\_\_  
(City, State and Zip)

\_\_\_\_\_  
(Telephone Number)

\_\_\_\_\_  
(Name typed/printed)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(E-Mail Address)

FEDERAL TAX ID # \_\_\_\_\_ This Company Is: Corporation \_\_\_ Individual \_\_\_  
Partnership \_\_\_ LLC \_\_\_.



**Offeror hereby acknowledges receipt of the following amendments, if applicable** Offeror agrees that it is bound by all Amendments identified herein.

AMENDMENT #1 \_\_\_\_\_ DATED: \_\_\_\_\_

AMENDMENT #2 \_\_\_\_\_ DATED: \_\_\_\_\_

AMENDMENT #3 \_\_\_\_\_ DATED: \_\_\_\_\_

**Please Note the following Representations and Certifications must be initialed by the Offeror in the spaces provided and returned with this certification.**



## REPRESENTATIONS AND CERTIFICATIONS, EXHIBIT 1 CONTINUED

### 1. INSURANCE REQUIREMENTS

Offeror shall comply with all insurance requirements and will submit the Insurance Certificates prior to performance start date. If limits are different from the stated amounts, Offeror shall explain variance. Certain endorsements and “additionally insured” statements may require further clarification and specific statements on a project specific basis and should have been described in the Offeror’s proposal.

\_\_\_\_\_  
Initials for 1

### 2. ETHICS VIOLATIONS

- A. The Offeror shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in this clause in its own operations and direct business relationships.
- B. Offeror certifies the Offeror has not violated or caused any person to violate, and shall not violate or cause any person to violate, the City’s Code of Ethics contained in Article 3, of Chapter 1 of the City Code and in the City’s Procurement Rules and Regulations
- C. When the Offeror has reasonable grounds to believe that a violation described in this clause may have occurred, the Offeror shall promptly report the possible violation to the City Contracts Specialist in writing.
- D. The Offeror must disclose with the signing of this proposal, the name of any officer, director, or agent who is also an employee of the City and any City employee who owns, directly or indirectly, an interest of ten percent (10%) or more in the Offeror’s firm or any of its branches.
- E. In addition, the Offeror must report any conflict or apparent conflict, current or discovered during the performance of the Contract, to the City Contracts Specialist.
- F. The Offeror shall not engage in providing gifts, meals or other amenities to City employees. The right of the Offeror to proceed may be terminated by written notice issued by City Contracts Specialist if Offeror offered or gave a gratuity to an officer, official, or employee of the City and intended by the gratuity to obtain a contract or favorable treatment under a contract.
- G. The Offeror shall cooperate fully with the City or any agency investigating a possible violation on behalf of the City. If any violation is determined, the Offeror will properly compensate the City.
- H. The Offeror agrees to incorporate the substance of this clause (after substituting “Contractor” for “Offeror”) in all subcontracts under this offer.

\_\_\_\_\_  
Initials for 2

### 3. COOPERATION WITH OTHER CONTRACTORS

Other City activities/contracts may be in progress or start during the performance of this contract. The Offeror shall coordinate the work harmoniously with the other contractors or City personnel, if applicable.



\_\_\_\_\_  
Initials for 3

**4. INTERNET USE**

Should the Offeror require access to City Internet resources in the performance of this requirement, a “Contractor’s Internet Use Agreement” form must be separately signed by each individual having access to the City Network. The completed Contractor’s Internet Use Agreement will be maintained with this agreement. Inappropriate use of the City Network will be grounds for immediate termination of any awarded contact.

\_\_\_\_\_  
Initials for 4

**5. LITIGATION**

If awarded a contract, Offeror shall notify the City within five (5) calendar days after being served with a summons, complaint, or other pleading in any matter which has been filed in any federal or state court or administrative agency. The Offeror shall deliver copies of such document(s) to the City's Procurement Services Manager. The term "litigation" includes an assignment for the benefit of creditors, and filings of bankruptcy, reorganization and/or foreclosure.

\_\_\_\_\_  
Initials for 5

**6. CONTRACTOR’S REGISTRATION INFORMATION**

Offeror’s firm verifies and states that it is a/an (check all that apply):

- \_\_\_\_\_ Large Business (i.e. does not qualify as a small business or nonprofit)
- \_\_\_\_\_ Nonprofit
- \_\_\_\_\_ Small Business
- \_\_\_\_\_ Black Owned Business
- \_\_\_\_\_ Disadvantaged Business Owner
- \_\_\_\_\_ Hispanic Owned Business
- \_\_\_\_\_ Native American Owned Business
- \_\_\_\_\_ Woman Owned Business
- \_\_\_\_\_ Veteran Owned Business
- \_\_\_\_\_ Other (please specify: \_\_\_\_\_)

Note: The City accepts self-certification for these categories in accordance with Small Business Administration (SBA) standards. The SBA size standards are found at: <https://www.sba.gov/content/am-i-small-business-concern>.

\_\_\_\_\_  
Initials for 6

**7. CONTRACTOR PERSONNEL**





1. The Offeror shall appoint one of its key personnel as the “Authorized Representative” who shall have the power and authority to interface with the City and represent the Offeror in all administrative matters concerning this proposal and any awarded contract, including without limitation such administrative matters as correction of problems, modifications, and reduction of costs.
2. The Authorized Representative shall be the person identified in the Offeror’s proposal, unless the Offeror provides written notice to the City naming another person to serve as its Authorized Representative. Communications received by the City Contracts Specialist from the Authorized Representative shall be deemed to have been received from the Offeror.

The individual, \_\_\_\_\_ (Name)  
with position, \_\_\_\_\_ (Title)

Can be reached at:

Work telephone number: \_\_\_\_\_

Home telephone number: \_\_\_\_\_

Cellular telephone number: \_\_\_\_\_

E-mail address: \_\_\_\_\_

\_\_\_\_\_  
Initials for 7

## 8. OFFEROR’S CERTIFICATION

The undersigned hereby affirms that:

1. He/She/They is a duly authorized agent of the Offeror;
2. He/She/They has read and agrees to the City’s standard terms and conditions attached.
3. The offer is presented in full compliance with the collusive prohibitions of the City of Colorado Springs. The Offeror certifies that no employee of its firm has discussed, or compared the offer with any other offeror or City employee and has not colluded with any other offeror or City employee.
4. The Offeror certifies that it has checked all of its figures, and understands that the City will not be responsible for any errors or omissions on the part of the Offeror in preparing its proposal.
5. By submitting an offer the Offeror certifies that it has complied and will comply with all requirements of local, state, and federal laws, and that no legal requirements have been or will be violated in making or accepting this solicitation.

I hereby certify that I am submitting the proposal based on my company's capabilities to provide quality products and/or services on time.

\_\_\_\_\_  
Initials for 8

## 9. OFFEROR CERTIFICATION REGARDING DEBARMENT, SUSPENSION, PROPOSED DEBARMENT, AND OTHER RESPONSIBILITY MATTERS:

1. The Offeror certifies to the best of its knowledge and belief, that the Offeror and/or any of its Principals
  - a. Are ( ), Are not ( ) presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency;



- b. Have ( ), Have not ( ), within a three year period preceding this offer, been convicted of or had a civil judgment rendered against them for: commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, local) contract or subcontract; violation of Federal or state antitrust statutes relation to the submission of offers; or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, tax evasion, or receiving stolen property; and
  - c. Are ( ), Are not ( ) presently indicated for, or otherwise criminally or civilly charged by a governmental entity with, commission of any of the offenses enumerated in any paragraphs above.
2. The Offeror shall provide immediate written notice to the City Contracts Specialist if, at any time prior to contract award, the Offeror learns that its certification was erroneous when submitted or has become erroneous by reasons of changed circumstances.
  3. The certification in paragraph 1. above, is a material representation of fact upon which reliance was placed when making award. If it is later determined that the Offeror knowingly rendered an erroneous certification, in addition to other remedies available to the City, the City Contracts Specialist may terminate the contract resulting from this solicitation for default. Termination for default may result in additional charges being levied for the costs incurred by the City to initiate activities to replace the awarded Contractor.

\_\_\_\_\_  
Initials for 9

#### **10. ACCEPTANCE OF CITY CONTRACTS SPECIALIST'S SOLE AUTHORITY FOR CHANGES**

Unless otherwise specified in the Contract, the Offeror hereby agrees that any changes to the scope of work, subsequent to the original contract signing, shall be generated in writing and an approval signature shall be obtained from the City Contracts Specialist prior to additional work performance.

\_\_\_\_\_  
Initials for 10

#### **11. CITY CONTRACTOR SAFETY PROGRAM**

The Offeror hereby agrees to adhere to a worker safety program for contractor employees on a City job site or location. By initialing below, the Offeror has reviewed the information and will abide by the City Policy which is available for review:

<https://coloradosprings.gov/finance/page/procurement-regulations-and-documents>

\_\_\_\_\_  
Initials for 11

#### **12. ACCEPTANCE OF CITY ENVIRONMENTALLY PREFERRED PURCHASING (EPP) POLICY**



The City of Colorado Springs is committed to buying more environmentally preferable goods and services, as long as they meet performance needs, are available within a reasonable time and at a reasonable cost. The Offeror hereby acknowledges review of this policy by initialing below.

<https://coloradosprings.gov/finance/page/procurement-regulations-and-documents>

\_\_\_\_\_  
Initials for 12

### 13. FRAUD, WASTE, AND ABUSE

Everyone has a duty to report any suspected unlawful act impacting the City of Colorado Springs operations and its enterprises. Anyone who becomes aware of the existence or apparent existence of fraud, waste, and abuse in City of Colorado Springs is encouraged to report such matters to the City Auditor's Office in writing or on the telephone hotline (719) 385-2387 (ADTR). Written correspondence can be mailed to:

City Auditor  
P.O. Box 2241  
Colorado Springs CO 80901

Or via email: [FraudHotline@ColoradoSprings.gov](mailto:FraudHotline@ColoradoSprings.gov). Any of these mechanisms allow for anonymous reporting. For more information, please go to the City Fraud Reporting website: <https://coloradosprings.gov/cityfraud>.

\_\_\_\_\_  
Initials for 13

Name of Company: \_\_\_\_\_

Federal Tax ID Number: \_\_\_\_\_

DUNS Number: \_\_\_\_\_

Principal Place of Business: \_\_\_\_\_

\_\_\_\_\_  
Signature of Authorized Representative

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**EXHIBIT 2 SAMPLE CONTRACT**

CONSULTANT SERVICES CONTRACT

Contract Number:		Project Name/Title	
Vendor/Contractor			
Contact Name:		Telephone:	
Email Address:			
Address:			
Federal Tax ID #		Please check one:	<input type="checkbox"/> Corporation <input type="checkbox"/> Individual <input type="checkbox"/> Partnership
City Contracting Specialist	Name & Phone#	City Dept Rep	Name & Phone# & Department Name
NOT TO EXCEED Contract Amount:		City Account #	Acct Code (5) Fund (3) Dept (4) Project (7)
Contract Type:		Period of Performance:	

**1. INTRODUCTION**

THIS TYPE CONTRACT ("Contract") is made and entered into this \_\_\_ day of \_\_\_\_\_, 20xx by and between the City of Colorado Springs, a Colorado municipal corporation and home rule city, in the County of El Paso, State of Colorado, (the "City"), and \_\_\_\_\_ (the "Contractor").

THE CITY AND THE CONTRACTOR HEREBY AGREE AS FOLLOWS:

The City has heretofore prepared the necessary Contract Documents for the following Activity: XXXXXXXX.

The Contractor did on the \_\_\_ day of \_\_\_\_\_, 20xx submit to the City the Contractor's written offer and proposal to do the work therein described under the terms and conditions therein set forth and furnish all materials, supplies, labor, services, transportation, tools, equipment, and parts for said work in strict conformity with the accompanying Contract Documents, which are attached hereto and incorporated herein by this reference, including the following:

1. This Contract
2. Appendix A – Additional Terms and Conditions
3. Appendix B – Contractor's Proposal,
4. Appendix C – Statement of Work.
5. Appendix D – Project Schedule
6. Appendix E – Insurance Requirements



## 2. COMPENSATION/CONSIDERATION

Subject to the terms and conditions of the Contract Documents, Contractor shall provide all materials, supplies, labor, services, transportation, tools, equipment, and parts to perform \_\_\_\_\_ services for the City of Colorado Springs in a good and workmanlike manner to the satisfaction of the City for the estimated price of \_\_\_\_\_, not to exceed \$ \_\_\_\_\_ (“Not to Exceed estimate”). If the performance of this Contract involves the services of others or the furnishing of equipment, supplies, or materials, the Contractor agrees to pay for the same in full. At the time of payment by the City, the Contractor shall certify in writing that said payments have been so made.

This is a Time and Material (T&M) type contract. The Not to Exceed estimate is in accordance with the Contractor’s T&M proposal and rates, as included in the attached proposal, dated XXXXXX. All labor charges shall be in accordance with the T&M rates provided therein. Invoiced hours shall be subject to City review and approval before payable.

The parties estimate that performance of this Contract will not exceed the Not to Exceed estimate. The Contractor shall notify the City Contracts Specialist in writing whenever it has reason to believe that the costs the Contractor expects to incur under this Contract in the following 60 days, when added to all costs previously incurred, will exceed 75 percent of the estimated cost specified herein; or the total cost for the performance of this Contract will be either greater or substantially less than had been previously estimated. As part of the notification, the Contractor shall provide the Contracts Specialist a revised estimate of the total cost of performing this Contract.

The City is not liable for any costs above the Not to Exceed estimate, and the Contractor is not obligated to continue performance under this Contract (including actions under the Termination clause of this Contract) or otherwise incur costs in excess of the Not to Exceed estimate specified herein, until the City Contracts Specialist

- (i) notifies the Contractor in writing that the estimated cost has been increased and
- (ii) provides a revised estimated total not to exceed price of performing this Contract.

## 3. TERM OF CONTRACT

It is further agreed that the Contractor will start work promptly and continue to work diligently until completed. The Contract Period of Performance shall be as follows:

<u>Performance Period</u>	<u>Dates</u>	<u>Price</u>
---------------------------	--------------	--------------

Base Year:

Option Year One:

Option Year Two:

Option Year Three:



Option Year Four:

Option years may be exercised unilaterally by the City at the City's sole discretion. Pricing for option years shall be as indicated above. The City may elect not to exercise an option at any time before start of an option at no additional cost to the City. Further, the City shall have the unilateral option of extending services beyond the term of the Contract, including all options, for a period not to exceed a total of six (6) months if additional time is necessary to solicit and award a new Contract. Options to extend services shall be exercised upon written notification (mailed or otherwise furnished) to the Contractor at least fifteen (15) days prior to the expiration date of the Contract, or to extend Contract for up to four additional one year option periods at the City's sole discretion.

The total value of this Contract for all years shall not exceed \$XXXXXXX. The value and current funding is \$XXXXXXX for the base year.

OR

Contractor will start work promptly after the Notice to Proceed and continue to work diligently until completed. The Contractor shall complete all work on an as ordered basis throughout the Contract period which is           Calendar Days           after the Notice-to-Proceed ("Period of Performance") as per the specifications and drawings. The Contractor shall provide a two-year guarantee on all work performed under this Contract after the job has been completed and accepted.

#### 4. INSURANCE

The Contractor shall provide and maintain acceptable Insurance Policy(s) consistent with the Minimum Insurance Requirements attached as Appendix E, which includes Property, Liability and Professional Errors and Omissions coverage, and as otherwise listed in Appendix E. The City of Colorado Springs shall be reflected as an additional insured on the Property and Liability policy(s).

Further, Contractor understands and agrees that Contractor shall have no right of coverage under any existing or future City comprehensive, self, or personal injury policies. Contractor shall provide insurance coverage for and on behalf of Contract that will sufficiently protect Contractor, or Contractor's agents, employees, servants or other personnel, in connection with the services which are to be provided by Contractor pursuant to this Contract, including protection from claims for bodily injury, death, property damage, and lost income. Contractor shall provide worker's compensation insurance coverage for Contractor and all Contractor personnel. Contractor shall file applicable insurance certificates with the City and shall also provide additional insurance as indicated in this Contract. **A CURRENT CERTIFICATE OF INSURANCE IS REQUIRED PRIOR TO COMMENCEMENT OF SERVICES LISTING THE CITY AS ADDITIONALLY INSURED.**

#### 5. RESPONSIBILITY OF THE CONTRACTOR

- A. Contractor shall satisfactorily perform the professional services for all phases of the Project as indicated in Statement of Work, which is attached hereto and made a part hereof by reference.
- B. Upon completion of any phase or sub-phase, Contractor shall not proceed with work on the next phase or sub-phase, if any, until authorized in writing by City to proceed therewith.



- C. Such services shall include all usual and customary professional engineering services and the furnishing (directly or through its professional consultants) of customary and usual civil, structural, mechanical, electrical engineering, environmental, architectural and planning services. Unless expressly excepted, in Appendix A - Statement of Work hereto, Contractor shall also provide any other environmental, geotechnical, architectural, landscape architectural and surveying services incidental to its work on the Project. If architectural services are rendered, Contractor shall provide an attested statement on each drawing sheet that certifies the design complies with all applicable provisions of the Americans with Disabilities Act. In performing the professional services, Contractor shall complete the work items described generally in Statement of Work and the items identified in this Section 5 of this Contract which are applicable to each phase for which Contractor is to render professional services.
- D. Professional engineering services (whether furnished directly or through a professional consultant subcontract) shall be performed under the direction and supervision of a registered Professional Engineer in good standing and duly licensed to practice in the State of Colorado. Reproductions of final drawings for construction produced under this Contract shall be the same as at least one record set which shall be furnished to City and which shall be signed by and bear the seal of such registered Professional Engineer.
- E. Surveying work included within or reasonably contemplated by this Contract shall be performed under the direction and supervision of a registered Professional Land Surveyor in good standing and duly licensed to practice in the State of Colorado. All plats and surveys produced under this Contract shall be signed by and bear the seal of said Professional Land Surveyor.
- F. Any architectural services provided under this Contract shall be performed under the direction and supervision of an architect duly licensed and authorized.
- G. All drawings and specifications furnished by the Contractor under this Contract (“Drawings” and “Specifications”) shall comply with all applicable building codes and requirements of regulatory agencies having any approval authority. Final design, including Drawings and Specifications, shall also comply with the 2010 ADA Standards for Accessible Design now existing and as may be amended, supplemented, or superseded from time to time (“ADA Standards”). Contractor shall include an attest statement on each record drawing sheet of final plan drawings that certifies that the design is compliant with the ADA Standards.
- H. The Contractor shall be responsible for the professional quality, technical accuracy, timely completion and the coordination of all designs, drawings, specifications, and other Statement of Work services furnished by the Contractor under this Contract, including that performed by Contractor’s consultants, and including designs, Drawings, Specifications, reports and other services, irrespective of City’s approval or acquiescence in same. The Contractor shall, without additional compensation, correct or revise any errors or deficiencies in services provided under this Contract to the satisfaction of the City.
- I. Contractor shall be responsible, in accordance with applicable law, to City for all loss or damage to City caused by Contractor’s negligent act or omission; except that Contractor hereby irrevocably waives and excuses City and its attorneys from compliance with any requirement to obtain a certificate of review as a condition precedent to commencement of an action, including any such requirements set forth in Section 13-20-602, C.R.S. or similar statute.



- J. Contractor's professional responsibility shall comply with the standard of care applicable to the type of engineering and architectural services provided, commensurate with the size, scope and nature of the Project.
- K. Contractor shall be completely responsible for the safety of Contractor's employees in the execution of work under this Contract, shall provide all necessary safety equipment for said employees, and shall hold harmless and indemnify and defend City from any and all claims, suits, losses or injuries to Contractor's employees.
- L. Contractor acknowledges that, due to the nature of engineering and related professional services and the impact of same on the Project, City has a substantial interest in the personnel and consultants to whom Contractor assigns principal responsibility for services performed under this Contract. Consequently, Contractor represents that Contractor has selected and intends to employ or assign the key personnel and consultants identified in Appendix \_\_\_\_ - "Identification of Personnel, Subcontractors and Task Responsibility", attached hereto for the Project assignments and areas of responsibility stated therein. Within 10 days of execution of this Contract, City shall have the right to object in writing to employment on the Project of any such key person, consultant or assignment of principal responsibility, in which case Contractor will employ alternate personnel for such function or reassign such responsibility to another to whom City has no reasonable objection. Thereafter, Contractor shall not assign or reassign Project work to any person to whom City has reasonable objection.

The key personnel listed in Appendix \_\_\_\_ - "Identification of Personnel, Subcontractors and Task Responsibility" will be the individuals used in the performance of the work unless objected to by the City as provided in the immediately preceding paragraph. If any of the listed key personnel leave employment or are otherwise not utilized in the performance of the work, approval to substitute must be obtained by the Contractor from the City's delegated Project Manager. Any substitute shall have the same or a higher standard of qualifications that the key personnel possessed at the time of Contract award.

Within 5 days of execution of this Contract, Contractor shall designate in writing a Project representative who shall have complete authority to bind Contractor, and to whom City should address communications.

- M. Promptly after execution of this Contract and upon receipt of authorization from City to proceed, Contractor shall submit to City for approval a schedule showing the order in which Contractor proposes to accomplish its work, with dates on which it will commence and complete each major work item. The schedule shall provide for performance of the work in a timely manner so as to not delay City's time table for achievement of interim tasks and final completion of Project work, provided however, the Contractor will not be responsible for delays beyond its control.
- N. Before undertaking any work which Contractor considers beyond or in addition to the scope of work and services which Contractor has contractually agreed to perform under the terms of this Contract, Contractor shall advise City in writing (i) that Contractor considers the work beyond the scope of this Contract, (ii) the reasons the Contractor believes the out of scope or additional work should be performed, and (iii) a reasonable estimate of the cost of such work. Contractor shall not proceed with such out of scope or additional work until authorized in writing by City. The compensation for such authorized work shall be negotiated, but in the event the Parties fail to





negotiate or are unable to agree as to compensation, then Contractor shall be compensated for his direct costs and professional time at the rates set forth in Exhibit \_\_\_\_ - "Fee Schedule".

- O. Design within Funding Limitation: The Contractor shall accomplish the design services required under this Contract so as to permit the award of a construction contract at a price that does not exceed the estimated construction contract price plus ten percent (10%) as set forth below.
1. When lowest responsive and responsible bids or proposals for the construction contract are received that exceed the estimated price, the Contractor shall perform such redesign and other services as are necessary to permit contract award within the funding limitation. These additional services shall be performed at no increase in the price of this Contract. However, the Contractor shall not be required to perform such additional services without additional compensation if the unfavorable bids or proposals are the result of conditions beyond its reasonable control i.e. City directed scope changes, unknown design problems are encountered, or a volatile construction market at the time of bid as compared to the construction market at the date this Contract is executed.
  2. The Contractor must promptly advise the Project Manager if it finds that the Project being designed will exceed or is likely to exceed the funding limitations and it is unable to design the Project within the funding limitation.
  3. The estimated construction contract price for the Project described in this Contract is \$XXXXXXXXX (plus 10%).
- P. The City's review, approval of, acceptance of, or payment for the services required under this Contract shall not be construed to operate as a waiver of any rights under this Contract or of any cause of action arising out of the performance of this Contract, and the Contractor shall be and remain liable to the City for any and all damages to the City caused by the Contractor's negligent performance of any of the services furnished under this Contract.
- Q. The rights and remedies of the City provided for under this Contract are in addition to any other rights and remedies provided by law.
- R. If the Contractor is comprised of more than one legal entity, each such entity shall be jointly and severally liable hereunder.
- S. The Contractor shall be obligated to provide services as an expert witness in connection with any public hearings or legal "proceedings" for a period of five (5) years following the completion of the Project. The Contractor shall be reimbursed for such service unless the basic issue of such hearing or "proceeding" concerns sufficiency of the Contractor services as outlined in this Contract. The Contractor hereby agrees to relieve the City from all claims and liability due to the Contractor's negligence.
- T. The design of architectural, structural, mechanical, electrical, civil, or other engineering features of the work to be performed under this Contract shall be accomplished or reviewed and approved by architects or engineers registered in the state of Colorado to practice in the professional field involved.



## **6. WORK OVERSIGHT**

- A. The extent and character of the work to be done by the Contractor shall be subject to the general approval of the City's delegated Project Manager.
- B. If any of the work or services being performed does not conform with Contract requirements, the City may require the Contractor to perform the work or services again in conformity with Contract requirements, at no increase in Contract amount. When defects in work or services cannot be corrected by re-performance, the City may (1) require the Contractor to take necessary action to ensure that future performance conforms to Contract requirements and (2) reduce the Contract price to reflect the reduced value of the work or services performed.
- C. If the Contractor fails to promptly perform the defective work or services again or to take the necessary action to ensure future performance is in conformity with Contract requirements, the City may (1) by Contract or otherwise, perform the services and charge to the Contractor any cost incurred by the City that is directly related to the performance of such work or service or (2) terminate the Contract for breach of contract.

## **7. SUBCONTRACTORS, ASSOCIATES, AND OTHER CONTRACTORS**

- A. Any subcontractor, outside associates, or other contractors used by the Contractor in connection with Contractor's work under this Contract shall be limited to individuals or firms that are specifically identified by the Contractor in the Contractor's proposal and agreed to by the City. The Contractor shall obtain the City's Project Manager's written consent before making any substitution of these subcontractors, associates, or other contractors.
- B. The Contractor shall include a flow down clause in all of its subcontracts, agreements with outside associates, and agreements with other contractors. The flow down clause shall cause all of the terms and conditions of this Contract, including all of the applicable parts of the Contract Documents, to be incorporated into all subcontracts, agreements with outside associates, and agreements with other contractors. The flow down clause shall provide clearly that there is no privity of contract between the City and the Contractor's subcontractors, outside associates, and other contractors.

## **8. KEY PERSONNEL**

The key personnel listed in the proposal and/or below will be the individuals used in the performance of the work. If any of the listed key personnel leave employment or are otherwise not utilized in the performance of the work, approval to substitute must be obtained by the Contractor from the City's Project Manager. Any substitute shall have the same or a higher standard of qualifications that the key personnel possessed at the time of Contract award.

## **9. START AND CONTINUANCE OF WORK**

It is further agreed that the Contractor will start work promptly and continue to work diligently until this Contract is completed.

## **10. APPROPRIATION OF FUNDS**



This Contract is expressly made subject to the limitations of the Colorado Constitution and Section 7-60 of the Charter of the City of Colorado Springs. Nothing herein shall constitute, nor be deemed to constitute, the creation of a debt or multi-year fiscal obligation or an obligation of future appropriations by the City Council of Colorado Springs, contrary to Article X, § 20, Colo. Const., or any other constitutional, statutory, or charter debt limitation. Notwithstanding any other provision of this Contract, with respect to any financial obligation of the City which may arise under this Agreement in any fiscal year after the year of execution, in the event the budget or other means of appropriation for any such year fails to provide funds in sufficient amounts to discharge such obligation, such failure (i) shall act to terminate this Contract at such time as the then-existing and available appropriations are depleted, and (ii) neither such failure nor termination shall constitute a default or breach of this Contract, including any sub-agreement, attachment, schedule, or exhibit thereto, by the City. As used herein, the term “appropriation” shall mean and include the due adoption of an appropriation ordinance and budget and the approval of a Budget Detail Report (Resource Allocations) which contains an allocation of sufficient funds for the performance of fiscal obligations arising under this Contract.

## 11. CHANGES

The Contractor and the City agree and acknowledge as a part of this Contract that no change order or other form or order or directive may be issued by the City which requires additional compensable work to be performed, which work causes the aggregate amount payable under the Contract to exceed the amount appropriated for this Contract as listed above, unless the Contractor has been given a written assurance by the City that lawful appropriations to cover the costs of the additional work have been made or unless such work is covered under a remedy-granting provision of this Contract. The Contractor and the City further agree and acknowledge as a part of this Contract that no change order or other form or order or directive which requires additional compensable work to be performed under this Contract shall be issued by the City unless funds are available to pay such additional costs, and, regardless of any remedy-granting provision included within this Contract, the Contractor shall not be entitled to any additional compensation for any change which increases or decreases the Contract completion date, or for any additional compensable work performed under this Contract, and expressly waives any rights to additional compensation, whether by law or equity, unless, prior to commencing the additional work, the Contractor is given a written change order describing the change in Contract completion date or the additional compensable work to be performed, and setting forth the amount of compensation to be paid, and such change order is signed by the authorized City representative, as defined below. The amount of compensation to be paid, if any, shall be deemed to cover any and all additional, direct, indirect or other cost or expense or profit of the Contractor whatsoever. It is the Contractor's sole responsibility to know, determine, and ascertain the authority of the City representative signing any change order under this Contract.

No change, amendment, or modification to this Contract shall be valid unless duly approved and issued in writing by the City of Colorado Springs Procurement Services Division. The City shall not be liable for any costs incurred by the Contractor resulting from work performed for changes not issued in writing by the City of Colorado Springs Procurement Services Division.

The following personnel are authorized to sign changes, amendments, or modifications to this Contract.

The Project Manager: Changes up to \$14,999.99



The City of Colorado Springs Chief of Staff: Changes up to \$499,999.99  
The Mayor of the City of Colorado Springs: Unlimited

## **12. ASSIGNMENT**

No assignment or transfer by the Contractor of this Contract or any part thereof or of the funds to be received thereunder by the Contractor will be recognized unless such assignment has had the prior written approval of the City and the surety has been given due notice of such assignment. Such written approval by the City shall not relieve the Contractor of the obligations under the terms of this Contract. In addition to the usual recitals in assignment contracts, the following language must be included in the assignment:

It is agreed that the funds to be paid to the assignee under this assignment are subject to a prior lien for services rendered or materials supplied for the performance of the work called for in said contract in favor of all persons, firms, or corporations rendering such services or supplying such materials.

## **13. CHOICE OF LAW**

This Contract is subject to and shall be interpreted under the law of the State of Colorado, and the Charter, City Code, Ordinances, Rules and Regulations of the City of Colorado Springs, Colorado, a Colorado home rule city. Court venue and jurisdiction shall be exclusively in the Colorado District Court for El Paso County, Colorado. The Parties agree that the place of performance for this Contract is deemed to be in the City of Colorado Springs, El Paso County, State of Colorado. The Contractor shall ensure that the Contractor and the Contractor's employees, agents, officers and subcontractors are familiar with, and comply with, applicable Federal, State, and Local laws and regulations as now written or hereafter amended.

## **14. WORKERS' COMPENSATION INSURANCE**

Contractor shall take out and maintain during the Period of Performance, Colorado Worker's Compensation Insurance for the Contractor and all employees of the Contractor. If any service is sublet by the Contractor, the Contractor shall require the subcontractor to provide the same coverage for the subcontractor and subcontractor's employees. Workers' Compensation Insurance shall include occupational disease provisions covering any obligations of the Contractor in accord with the provisions of the Workers' Compensation Act of Colorado.

## **15. INDEMNIFICATION**

The Consultant shall indemnify and hold harmless the City, its enterprise(s), associated and/or affiliated entities, successors, or assigns, its elected officials, officers, employees, agents, and volunteers from and against all liabilities, claims, actions, damages, losses, and expenses, including without limitation reasonable attorneys' fees and costs, arising out of or resulting in any way from the performance of professional services for the City under this Contract and caused by any willful or negligent error, omission, or act of or a failure to observe any applicable standard of care by the Consultant or any person employed by it or anyone for whose acts the Consultant is legally liable. The Consultant hereby irrevocably waives and excuses City and its attorneys from compliance with any requirement to obtain a certificate of review as a condition precedent to commencement of an action, including any such requirements set forth in Section 13-20-602,



C.R.S. or similar statute. In consideration of the award of this Contract, to the extent damages are covered by insurance, the Consultant agrees to waive all rights of subrogation against the City, its subsidiary, parent, associated and/or affiliated entities, successors, or assigns, its elected officials, trustees, employees, agents, and volunteers for losses arising from the work performed by the Consultant for the City. The indemnification obligation shall survive the expiration or termination of this Contract

## **16. INDEPENDENT CONTRACTOR**

In the performance of the Contractor's obligations under this Contract, it is understood, acknowledged and agreed between the parties that the Contractor is at all times acting and performing as an independent contractor, and the City shall neither have nor exercise any control or direction over the manner and means by which the Contractor performs the Contractor's obligations under this Contract, except as otherwise stated within the Contract terms. The City shall not provide any direction to the Contractor on the work necessary to complete the project. Contractor understands that it is an independent contractor responsible for knowing how to perform all work or tasks necessary to complete project. The Contractor understands and agrees that the Contractor and the Contractor's employees, agents, servants, or other personnel are not City employees. The Contractor shall be solely responsible for payment of salaries, wages, payroll taxes, unemployment benefits or any other form of compensation or benefit to the Contractor or any of the Contractor's employees, agents, servants or other personnel performing services or work under this Contract, whether it is of a direct or indirect nature. Further in that regard, it is expressly understood and agreed that for such purposes neither the Contractor nor the Contractor's employees, agents, servants or other personnel shall be entitled to any City payroll, insurance, unemployment, worker's compensation, retirement or any other benefits whatsoever.

## **17. APPLICABLE LAW AND LICENSES**

In the conduct of the services or work contemplated in this Contract, the Contractor shall ensure that the Contractor and all subcontractors comply with all applicable state, federal and City and local law, rules and regulations, technical standards or specifications. The Contractor shall qualify for and obtain any required licenses prior to commencement of work.

## **18. PRIOR AGREEMENTS**

This is a completely integrated Contract and contains the entire agreement between the parties. Any prior written or oral agreements or representations regarding this Contract shall be of no effect and shall not be binding on the City. This Contract may only be amended in writing, and executed by duly authorized representatives of the parties hereto.

## **19. INTELLECTUAL PROPERTY**

The Parties hereby agree, and acknowledge, that all products, items writings, designs, models, examples, or other work product of the Contractor produced pursuant to this Contract are works made for hire, and that the City owns, has, and possesses any and all ownership rights and interests to any work products of the Contractor made under this Contract, including any and all copyright, trademark, or patent rights, and that compensation to the Contractor for Agreement and acknowledgment of this intellectual property right section of this Contract is included in any compensation or price whatsoever paid to the Contractor under this Contract. It is the intent of



the parties that the City shall have full ownership and control of the Contractor's work products produced pursuant to this Contract, and the Contractor specifically waives and assigns to the City all rights which Contractor may have under the 1990 Visual Artists Rights Act, federal, and state law, as now written or later amended or provided. In the event any products, items writings, designs, models, examples, or other work product produced pursuant to this Contract is deemed by a court of competent jurisdiction not to be a work for hire under federal copyright laws, this intellectual property rights provision shall act as an irrevocable assignment to the City by the Contractor of any and all copyrights, trademark rights, or patent rights in the Contractor's products, items writings, designs, models, examples, or other work product produced pursuant to this Contract, including all rights in perpetuity. Under this irrevocable assignment, the Contractor hereby assigns to the City the sole and exclusive right, title, and interest in and to the Contractor's products, items writings, designs, models, examples, or other work product produced pursuant to this Contract, without further consideration, and agrees to assist the City in registering and from time to time enforcing all copyrights and other rights and protections relating to the Contractor's products, items writings, designs, models, examples, or other work product in any and all countries. It is the Contractor's specific intent to assign all right, title, and interest whatsoever in any and all copyright rights in the Contractor's products, items writings, designs, models, examples, or other work product produced pursuant to this Contract, in any media and for any purpose, including all rights of renewal and extension, to the City. To that end, the Contractor agrees to execute and deliver all necessary documents requested by the City in connection therewith and appoints the City as Contractor's agent and attorney-in-fact to act for and in Contractor's behalf and stead to execute, register, and file any such applications, and to do all other lawfully permitted acts to further the registration, prosecution, issuance, renewals, and extensions of copyrights or other protections with the same legal force and effect as if executed by the Contractor; further, the parties expressly agree that the provisions of this intellectual property rights section shall be binding upon the parties and their heirs, legal representatives, successors, and assigns.

## **20. WAIVERS**

No waiver of default by the City of any of the terms, covenants, and conditions hereof to be performed, kept, and observed by the Contractor shall be construed, or shall operate, as a waiver of any subsequent default of any of the terms, covenants, or conditions herein contained to be performed, kept, and observed by the Contractor.

## **21. THIRD PARTIES**

It is expressly understood and agreed that enforcement of the terms and conditions of this Contract, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties hereto, and nothing contained in this Contract shall give or allow any such claim or right of action by any other or third person or entity on such Contract. It is the express intention of the Parties hereto that any person or entity, other than the Parties to this Contract, receiving services or benefits under this Contract shall be deemed to be incidental beneficiaries only.

## **22. TERMINATION**

A. Termination for Convenience.

By signing this Contract, Contractor represents that it is a sophisticated business and enters into the Contract voluntarily, has calculated all business risks associated with this Contract, and



understands and assumes all risks of being terminated for convenience, whether such risks are known or not known. Contractor agrees that the City may terminate this Contract at any time for convenience of the City, upon written notice to the Contractor. Contractor expressly agrees to and assumes the risk that the City shall not be liable for any costs or fees of whatsoever kind and nature if termination for convenience occurs before Contractor begins any work or portion of the work. Contractor further expressly agrees and assumes the risks that the City shall not be liable for any unperformed work, anticipated profits, overhead, mobilizations costs, set-up, demobilization costs, relocation costs of employees, layoffs or severance costs, administrative costs, productivity costs, losses on disposal of equipment or materials, cost associated with the termination of subcontractors, costs associated with purchase orders or purchases, or any other costs or fees of any kind and nature, if Contractor has started or performed portions of the Contract prior to receiving notice from the City. The City shall be liable only for the portions of work Contractor actually satisfactorily completed up to the point of the issuance of the Notice of Termination for convenience. Upon receipt of this notice the Contractor shall immediately: discontinue all services affected (unless the notice directs otherwise), and deliver to the City all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this Contract, whether completed or in process.

B. Termination for Cause: The occurrence of any one or more of the following events (“Event of Default”) will justify termination for cause:

i. Contractor’s failure to perform the work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule as adjusted from time to time.

ii. Contractor’s disregard of the laws or regulations of any public body having jurisdiction.

iii. Contractor’s disregard of the authority of Project Manager.

iv. Contractor’s violation in any material provision of the Contract Documents.

v. Contractor’s failure to make prompt payments to its subcontractors, and suppliers of any tier, or laborers or any person working on the work by, through, or under the Contractor or any of them, any all of their employees, officers, servants, members, and agents.

vi. Contractor files a petition commencing a voluntary case under the U.S. Bankruptcy Code, or for liquidation, reorganization, or an arrangement pursuant to any other U.S. or state bankruptcy Laws, or shall be adjudicated a debtor or be declared bankrupt or insolvent under the U.S. Bankruptcy Code, or any other federal or state laws relating to bankruptcy, insolvency, winding-up, or adjustment of debts, or makes a general assignment for the benefit of creditors, or admits in writing its inability to pay its debts generally as they become due, or if a petition commencing an involuntary case under the U.S. Bankruptcy Code or an answer proposing the adjudication of Contractor as a debtor or bankrupt or proposing its liquidation or reorganization pursuant to the Bankruptcy Code or any other U.S. federal or state bankruptcy laws is filed in any court and Contractor consents to or acquiesces in the filing of that pleading or the petition or answer is not discharged or denied within sixty (60) Calendar Days after it is filed.



vii. A custodian, receiver, trustee or liquidator of Contractor, all or substantially all of the assets or business of Contractor, or of Contractor's interest in the Work or the Contract, is appointed in any proceeding brought against Contractor and not discharged within sixty (60) Calendar Days after that appointment, or if Contractor shall consent to or acquiesces in that appointment.

viii. Contractor fails to commence correction of defective work or fails to correct defective work within a reasonable period of time after written notice.

If one or more of the events identified in Paragraphs i-viii above occur, City may give Contractor written notice of the event and direct the event be cured. Any such Notice to Cure will provide Contractor a minimum of ten (10) calendar days to prepare and submit to the Project Manager a plan to correct the Event of Default. If such plan to correct the Event of Default is not submitted to the Project Manager within ten (10) days after the date of the written notice or such plan is unacceptable to the City, the City may, give Contractor (and the Surety, if any) written notice that Contractor's services are being terminated for cause. Upon delivery of the termination notice, City may terminate the services of Contractor in whole or in part, exclude Contractor from the site, and take possession of the work and of all Contractor's tools, appliances, equipment, and machinery at the project site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion), incorporate in the work all materials and equipment stored at the site or for which City has paid Contractor but which are stored elsewhere, and finish the work as City may deem expedient. In such case, Contractor shall not be entitled to receive any further payment until Certificate of Completion of the work. In the event City terminates this Contract for Cause and the cost of completing the work exceeds the unpaid balance of the Contract price, Contractor shall pay City for any costs of completion which exceed the Contract price when combined with all amounts previously paid to Contractor. When exercising any rights or remedies under this paragraph City shall not be required to obtain the lowest price for the work performed. Should the cost of such completion, including all proper charges, be less than the original Contract price, the amount so saved shall accrue to the City. Neither the City nor any officer, agent or employee of the City shall be in any way liable or accountable to the Contractor or the Surety for the method by which the completion of the said work, or any portion thereof, may be accomplished or for the price paid.

Where Contractor's services have been so terminated by City, the termination will not affect any rights or remedies of City against Contractor or Surety then existing or which may thereafter accrue. Any retention or payment of moneys due Contractor by City will not release Contractor from liability.

C. Termination Notice. Upon receipt of a termination notice, whether for convenience or cause, the Contractor shall immediately: discontinue all services affected (unless the notice directs otherwise), and deliver to the City all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this Contract, whether completed or in process.

D. Removal of Equipment. Except as provided above, in the case of termination of this Contract before completion from any cause whatever, the Contractor, if notified to do so by the City, shall promptly remove any part or all of Contractor's equipment and supplies from the property of the City, failing which the City shall have the right to remove such equipment and supplies at the expense of the Contractor.





### **23. BOOKS OF ACCOUNT AND AUDITING**

The Contractor shall make available to the City if requested, true and complete records, which support billing statements, reports, performance indices, and all other related documentation. The City's authorized representatives shall have access during reasonable hours to all records, which are deemed appropriate to auditing billing statements, reports, performance indices, and all other related documentation. The Contractor agrees that it will keep and preserve for at least seven years all documents related to the Contract which are routinely prepared, collected or compiled by the Contractor during the performance of this Contract.

The City's Auditor and the Auditor's authorized representatives shall have the right at any time to audit all of the related documentation. The Contractor shall make all documentation available for examination at the Auditor's request at either the Auditor's or Contractor's offices, and without expense to the City.

### **24. COMPLIANCE WITH IMMIGRATION REFORM AND CONTROL ACT OF 1986**

Contractor certifies that Contractor has complied with the United States Immigration Reform and Control Act of 1986. All persons employed by Contractor for performance of this Contract have completed and signed Form I-9 verifying their identities and authorization for employment.

### **25. LABOR**

The Contractor shall employ only competent and skilled workmen and foremen in the conduct of work on this Contract. The Contractor shall at all times enforce strict discipline and good order among Contractor's employees. The Project Manager shall have the authority to order the removal from the work of any person, including Contractor's or any subcontractor's employees, who refuses or neglects to observe any of the provisions of these Plans or Specifications, or who is incompetent, abusive, threatening, or disorderly in conduct and any such person shall not again be employed on the Project.

In no event shall the City be responsible for overtime pay.

### **26. GRATUITIES**

- A. This Contract may be terminated if the Mayor, the Mayor's designee, and/or the Procurement Services Manager determine, in their sole discretion, that the Contractor or any officer, employee, agent, or other representative whatsoever, of the Contractor offered or gave a gift or hospitality to a City officer, employee, agent or Contractor for the purpose of influencing any decision to grant a City contract or to obtain favorable treatment under any City contract.
- B. The terms "hospitality" and "gift" include, but are not limited to, any payment, subscription, advance, forbearance, acceptance, rendering or deposit of money, services, or anything of value given or offered, including but not limited to food, lodging, transportation, recreation or entertainment, token or award.
- C. Contract termination under this provision shall constitute a breach of contract by the Contractor, and the Contractor shall be liable to the City for all costs of reletting the contract or completion of



the project. Further, if the Contractor is terminated under this provision, or violates this provision but is not terminated, the Contractor shall be subject to debarment under the City's Procurement Regulations. The rights and remedies of the City provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

## **27. NON-DISCRIMINATION**

- A. In accord with section 24-34-402, C.R.S., Title VII of the Civil Rights Act of 1964, Americans with Disabilities Act of 1990 as amended, all applicable federal and state laws, the Contractor will not discriminate against any employee or applicant for employment because of disability, race, creed, color, sex, sexual orientation, gender identity, gender expression, religion, age, national origin, or ancestry.
- B. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- C. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to disability, race, creed, color, sex, sexual orientation, gender identity, gender expression, religion, age, national origin, or ancestry

## **28. ORDER OF PRECEDENCE**

Any inconsistency in this Contract shall be resolved by giving precedence in the following order:

- A. This Contract document with its terms and conditions
- B. The Statement of Work
- C. Other Appendices, Attachments, Exhibits, or Schedules

## **29. HEADINGS**

The section headings contained in this Contract are for reference purposes only and shall not affect the meaning or interpretation of this Contract.

## **30. DISPUTES**

- A. All administrative and contractual disputes arising from or related to this Contract shall be addressed in the following manner:
  - i. If either Party disputes or disagrees with a Contract term or the other Party's interpretation of a Contract term or has any other administrative or contractual dispute not addressed in the Unanticipated Circumstances provisions, such Party shall promptly give the other Party written notice of said dispute.
  - ii. The Parties shall hold a meeting as soon as reasonably possible, but in no event later than thirty (30) calendar days from the initial written notice of the dispute, attended by persons with decision-making authority regarding the dispute, to attempt in good faith to negotiate a resolution of the dispute; provided, however, that no such meeting shall be deemed to vitiate or reduce the obligations and liabilities of the Parties or be deemed a waiver by a Party of any remedies to which such Party would otherwise be entitled unless otherwise agreed to by the Parties in writing.



- iii. If, within thirty (30) calendar days after such meeting, the Parties have not succeeded in negotiating a resolution of the dispute, they agree to submit the dispute to non-binding mediation and to bear equally the costs of the mediation.
- iv. The Parties will jointly appoint a mutually acceptable mediator. If they fail to do so within twenty (20) calendar days from the conclusion of the negotiation period, they shall each select a mediator. The two mediators will then appoint a third mediator who shall conduct mediation for the Parties as the sole mediator.
- v. The Parties agree to participate in good faith in the mediation and negotiations for a period of thirty (30) calendar days. The substantive and procedural law of the State of Colorado shall apply to the proceedings. If the Parties are not successful in resolving the dispute through mediation, then the Parties shall be free to pursue any other remedy afforded by the laws of the State of Colorado.
- vi. Until final resolution of any dispute hereunder, the Contractor shall diligently proceed with the performance of this Contract as directed by the City. For purposes of this Contract, termination for convenience shall not be deemed a dispute. The City of Colorado Springs and the Contractor agree to notify each other in a timely manner of any claim, dispute, or cause of action arising from or related to this Contract, and to negotiate in good faith to resolve any such claim, dispute, or cause of action. To the extent that such negotiations fail, the City of Colorado Springs and the Contractor agree that any lawsuit or cause of action that arises from or is related to this Contract shall be filed with and litigated only by the Colorado District Court for El Paso County, CO.

### **31. DELIVERY**

The City may cancel this Contract or any portion thereof if delivery is not made when and as specified, time being of the essence in this Contract. Contractor shall pay the City for any loss or damage sustained by the City because of failure to perform in accordance with this Contract.

### **32. PAYMENTS**

The City will make payments for services on a monthly basis for services performed during the previous month in accordance with this Contract. All labor Invoices shall include labor categories, rates, hours worked, and total amounts per category. All labor categories and rates charged must be included in this Contract. No other categories or rates will be allowed or payable. All labor invoices are subject to City approval.

Materials will be payable on a reimbursable basis with no additional profit, fee, overhead, handling, or General and Administrative (G&A) costs. All costs for materials shall be approved by the City Contracts Specialist before the costs are incurred and payable.

The City will pay the Contractor, upon submission of proper invoices, the prices stipulated in the Contract for services rendered and accepted, less any deductions provided in this Contract within 30 days (Net 30). The City will not pay late fees or interest. Any discount payment terms offered on the invoice may be taken by the City.

### **33. INSPECTION OF SERVICES**

The Contractor is responsible for performing or having performed all inspections and tests necessary to substantiate that the services furnished under this Contract conform to Contract requirements, including any applicable technical requirements for specified manufacturers' parts.



This clause takes precedence over any City inspection and testing required in the Contract's specifications, except for specialized inspections or tests specified to be performed solely by the City.

- A. Definition of "services", as used in this clause, includes services performed, workmanship, and material furnished or utilized in the performance of services.
- B. The Contractor shall provide and maintain an inspection system acceptable to the City covering the services under this Contract. Complete records of all inspection work performed by the Contractor shall be maintained and made available to the City during Contract performance and for as long afterwards as the Contract requires.
- C. The City has the right to inspect and test all services called for by the Contract, to the extent practicable at all times and places during the term of the Contract. The City will perform inspections and tests in a manner that will not unduly delay the work.
- D. If the City performs inspections or test on the premises of the Contractor or a subcontractor, the Contractor shall furnish, and shall require subcontractors to furnish, at no increase in Contract price, all reasonable facilities and assistance for the safe and convenient performance of these duties.

#### **34. SECURITY**

The City maintains security requirements regarding access to City buildings and other City workplaces and worksites on City property. All Contractor personnel accessing City buildings, workplaces, or worksites, may be required to produce a valid, Government issued picture identification. Contractor personnel lacking such identification may not be allowed access to such sites. No costs incurred by the Contractor due to City security requirements shall be allowable or payable under this Contract.

#### **35. TIME IS OF THE ESSENCE**

In as much as the Contract concerns a needed or required service, the terms, conditions, and provisions of the Contract relating to the time of performance and completion of work are of the essence of this Contract. The Contractor shall begin work on the day specified and shall prosecute the work diligently so as to assure completion of the work within the number of calendar days or date specified, or the date to which the time for completion may have been extended.

#### **36. EMPLOYMENT OF LABOR**

The Contractor shall comply with, and defend and hold the City harmless from any violation of all laws and lawful rules and regulations, both of the State of Colorado and of the United States, relating to Workmen's Compensation, unemployment compensation, Social Security, payment for overtime, and all other expenses and conditions of employment under this Contract.

#### **37. SALES TAX**

The Contractor must have a tax-exemption certificate from the Colorado Department of Revenue for this project. The certificate does not apply to City of Colorado Springs Sales and Use Tax



which shall be applicable. The tax exempt project number and the exemption certificate only applies to County, PPRTA (Pikes Peak Rural Transportation Authority), and State taxes when purchasing construction and building materials **to be incorporated into this project**.

Furthermore, the exemption **does not** include or apply to the purchase or rental of equipment, supplies or materials that **do not become a part of the completed project or structure**. Such purchases and rentals are subject to full applicable taxation.

All contracts with subcontractors must include the City of Colorado Springs Sales and Use Tax on the work covered by the Contract, and other taxes as applicable.

Note: For all equipment, materials and supplies incorporated into the work purchased from vendors or suppliers not licensed to collect City Sales Tax (i.e. out of state suppliers, etc.), City Use Tax is due and payable to the City. The Contractor shall execute and deliver, and shall cause the Contractor's subcontractors to execute and deliver to the City Sales Tax Office, ST 16 forms listing all said equipment, materials and supplies and the corresponding use tax due, along with payment for said taxes. Any outstanding taxes due may be withheld from the final payment due the Contractor and may result in suspension of Contractor from bidding on City projects.

Forms and instructions can be downloaded at <https://coloradosprings.gov/sales-tax/page/construction-contractors>. Questions can be directed to the City Sales Tax Division at (719) 385-5903 or [Construction\\_SalesTax@coloradosprings.gov](mailto:Construction_SalesTax@coloradosprings.gov).

Our Registration Numbers are as follows:

City of Colorado Springs

Federal I.D.: 84-6000573

Federal Excise: A-138557

State Sales Tax: 98-03479

The Contractor's payment or exemption of State of Colorado, El Paso County and City Sales and Use Taxes shall be as specified herein.

### **38. SEVERABILITY**

If any terms, conditions, or provisions of this Contract shall be held unconstitutional, illegal, or void, such finding shall not affect any other terms, conditions, or provisions of this Contract.

### **39. LIABILITY OF CITY EMPLOYEES**

All authorized representatives of the City are acting solely as agents and representatives of the City when carrying out and exercising the power or authority granted to them under the Contract. There shall not be any liability on them either personally or as employees of the City.

### **40. USE OF CITY NAME OR LOGO**

Except as otherwise provided in this Contract, the Contractor shall not refer to this Contract or the City of Colorado Springs in any advertising or promotions in such a manner as to state or imply that the product or service provided is endorsed or preferred by the City of Colorado Springs, its employees, or its Departments, or is considered by these entities to be superior to other products



or services. Any use of the name or logo of the City of Colorado Springs in advertising or promotions must be approved in writing by the City of Colorado Springs Contracts Specialist assigned to the Contract prior to such use.

#### **41. TRAVEL**

If travel expenses are included as a line item in this Contract, all travel expenses incurred and billable by the Contractor are subject to City approval. Air travel shall be limited to the round trip "economy coach" fare. Travel from the Colorado Springs Airport is encouraged. Unless there are extenuating circumstances, the Contract should take advantage of lower airfares by purchasing tickets more than 14 days in advance of travel. In-state travel by air must be more economical than travel by private vehicle. Use of a private vehicle may be reimbursed per mile at the current rate published by the IRS annually. Short-term parking, long-term parking or cab fare associated with airport departure and arrival may be allowable expenses. Valet parking will not be allowed unless it is the least expensive or only option. Car rental rates may be reimbursed for car rentals no greater than the intermediate or standard classification. The City will not reimburse any other travel methods or expenses. The City will pay for lodging, meals, and miscellaneous expenses on a per diem basis only, in accordance with the current per diem rates published by the IRS annually. The City will not pay for Contractor expenses exceeding the per diem rates. Receipts for all reimbursable expenses must be provided with the Contractor's invoice.

#### **42. ELECTRONIC SIGNATURES**

This Agreement and all other documents contemplated hereunder may be executed using electronic signatures with delivery via facsimile transmission, by scanning and transmission of electronic files in Portable Document Format (PDF) or other readily available file format, or by copy transmitted via email, or by other electronic means and in one or more counterparts, each of which shall be (i) an original, and all of which taken together shall constitute one and the same agreement, (ii) a valid and binding agreement and fully admissible under state and federal rules of evidence and (iii) enforceable in accordance with its terms.

#### **43. APPENDICES**

The following Appendices are made a part of this Agreement:

1. Appendix A – Additional Terms and Conditions
2. Appendix B – Contractor's Proposal,
3. Appendix C – Statement of Work.
4. Appendix D – Project Schedule
5. Appendix E – Insurance Requirements



**CONTRACT SIGNATURE PAGE**

**IN WITNESS WHEREOF**, the parties have caused these presents to be executed on the day and the year first above written.

This Contract is executed in one (1) original copy.

<b>THE CITY OF COLORADO SPRINGS, COLORADO:</b>

<b>SECOND PARTY:</b>
<b>SAMPLE CONTRACT ONLY</b>
Corporate Name
Signature Date
Title



### EXHIBIT 3 EXCEPTIONS

Print the words "no exceptions"(here) \_\_\_\_\_ if there are no exceptions taken to any of the terms, conditions, or specifications of these proposal documents or contract.

If there are exceptions taken to any of the terms, conditions, or specifications of the proposal document or contract, they must be clearly stated on a separate sheet of paper attached to this sheet and returned with your proposal.

**Note:** All potential Offerors are hereby advised that exceptions taken may be considered during the evaluation phase which may affect the final scoring of proposals. Offerors stipulating that the City must use their contract or agreement may be determined non-responsive and their Proposal determined unacceptable.

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_  
(City, State and Zip Code)

Authorized Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

Return this form with your Proposal.





## **EXHIBIT 4 STATEMENT OF WORK**

### **Project Description and Background:**

The scope of the Marksheffel and Zircon Channel Design project involves the design of grade control structures and bank stabilization to repair and mitigate the channel head cut within the creek corridor. The project extents are from Barnes Rd to the newly installed box culvert just South of Zircon Dr located to the West of Marksheffel Rd, totaling approximately 3,400 feet of stabilization and restoration. This project is funded by FEMA HMGP with respect to the 2023 Flood Events. Upon completion, the project will provide the functions of a natural stream corridor, restore riparian habitat, and build resilience to future events by rehabilitating the channel.

### **Project Goals:**

The City wishes to design and construct channel improvements to this section of channel that will be long lasting, maintainable, aesthetically pleasing, and within the project budget and timeline. Additional goals are listed below:

- Provide adequate stabilization out of the existing culvert on the north end of the project, provide stabilization on the downstream end of the project to tie into existing newly constructed box culvert
- Follow the FEMA process for the project
- Keep all improvements within City Property
- Provide additional water quality benefits along the project reach as possible
- Have the channel jurisdiction determined as USACE or CDPHE and obtain necessary construction permits

### **Timeline:**

The City anticipates awarding a design contract and notice to proceed around the end of February to the selected firm. The City would like to have design/construction completed as soon as possible pending all permits/approvals.

### **Funding:**

The City is being awarded a FEMA HMGP grant to fund the design and construction of the project. The budget for construction on the project is unknown at this time. The design contract will also be paid for through the FEMA grant. The City will contract design services directly with the selected design team and selection of the design team will be based off qualifications only.

### **ROW/Property:**

The City currently owns the property that the channel lies within. Additional temporary easements may be required for construction activities; it is the responsibility of the designer/City to obtain any easements required for construction.

### **Permits:**

The design team will be required to prepare and submit all permits needed for the project. Anticipated permits include:

- Channel Jurisdiction Classification (USACE or CDPHE) and Associated Permits
- City of Colorado Springs
  - City CSWMP and GEC Narrative

### **Utilities:**



There are no known existing utilities in the project reach.

**Anticipated Deliverables:**

- Construction plans and specs
- GEC Narrative and CSWMP
- Engineers cost estimate
- Permits
- Drainage Channel Report
- Geotechnical Report (as needed)
- Required ROW and easements to implement project design
- Variance Letter (as needed)

**Proposal Outline**

Follow the outline described in the RFP for the proposal. Be sure to include all the requested information. Include a project approach describing proposed possible solutions that would be investigated by the firm if selected. Include enough information so the reviewer can conclude what proposed stabilization methods the design team would propose. This DOES NOT mean to include a design of the channel in the RFP, but rather what methods would be proposed for stabilization on this project.



**EXHIBIT 5 QUALIFICATION STATEMENT**

**CITY OF COLORADO SPRINGS  
QUALIFICATION STATEMENT**

This statement will provide information which will enable the City to evaluate the qualifications of your firm and staff with regard to the requirements of this Request for Proposal. Please complete this form in its entirety and submit it (in the number of copies requested) along with the other required proposal documents. If a request in the Qualification Statement is contained in the proposal, indicate the section in the proposal where that information can be found.

**(PRINT)**

FIRM NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CITY STATE ZIP: \_\_\_\_\_  
AUTHORIZED REPRESENTATIVE: \_\_\_\_\_  
TITLE: \_\_\_\_\_  
AUTHORIZED SIGNATURE: \_\_\_\_\_  
PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_  
E-MAIL ADDRESS: \_\_\_\_\_

**1. TYPE OF BUSINESS**

**2. TYPE OF LICENSE & LOCATION**

CORPORATION  INDIVIDUAL   
PARTNERSHIP  JOINT VENTURE  \_\_\_\_\_  
OTHER: \_\_\_\_\_

**3. TYPE OF SERVICE TO BE PROVIDED FOR RFP:** \_\_\_\_\_  
\_\_\_\_\_

**4. NUMBER OF YEARS IN BUSINESS:** \_\_\_\_\_

**5. ON A SEPARATE SHEET PROVIDE A BRIEF HISTORY OF YOUR FIRM, STAFF SIZE AND EXPERIENCE. SUBMIT A RESUME FOR THE PROJECT MANAGER AND EACH KEY PERSONNEL ASSIGNED TO THIS PROJECT.**

**6. WHAT OTHER NAME(S) HAS YOUR COMPANY OPERATED UNDER:** \_\_\_\_\_  
\_\_\_\_\_

**7. HAVE YOU OR YOUR FIRM EVER FAILED TO COMPLETE ANY WORK AWARDED TO YOU? YES  NO  IF "YES", EXPLAIN:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**8. HAS ANY OFFICER OR PARTNER OF YOUR ORGANIZATION EVER BEEN AN OFFICER OR PARTNER OF ANOTHER ORGANIZATION THAT FAILED TO COMPLETE A CONTRACT WITHIN THE LAST FIVE (5) YEARS? YES  NO**   
IF "YES", EXPLAIN:



9. HAS YOUR FIRM OR ANY PARTNERS OR OFFICERS EVER BEEN INVOLVED IN ANY BANKRUPTCY ACTION? YES  NO  IF "YES", EXPLAIN:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. ARE YOU PRESENTLY INVOLVED IN ANY LITIGATION WITH ANY GOVERNMENT AGENCY? YES  NO  IF "YES", EXPLAIN TYPE, KIND, PLAINTIFF, DEFENDANT, ETC., AND STATE THE CURRENT STATUS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. BANK REFERENCE: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_

12. LIST THREE (3) SIMILAR PROJECTS (LOCAL OR STATE-WIDE) **FROM LAST FIVE (5) YEARS**-INCLUDE LOCATION OF PROJECT, SIZE OF PROJECT (CONTRACT AMOUNT), CONTACT NAME, ADDRESS, TELEPHONE NUMBERS  
NOTE: DETAILED INFORMATION ON THESE PROJECTS MAY ALSO BE REQUESTED IN THE RFP PACKAGE.

1. Location of Project: \_\_\_\_\_  
Size of Project: \_\_\_\_\_  
Contract Amount: \_\_\_\_\_  
Contact Name and Title: \_\_\_\_\_  
Contract Address: \_\_\_\_\_  
Contact telephone and FAX Numbers: \_\_\_\_\_
2. Location of Project: \_\_\_\_\_  
Size of Project: \_\_\_\_\_  
Contract Amount: \_\_\_\_\_  
Contact Name: \_\_\_\_\_  
Contract Address: \_\_\_\_\_  
Contact telephone and FAX Numbers: \_\_\_\_\_
3. Location of Project: \_\_\_\_\_  
Size of Project: \_\_\_\_\_  
Contract Amount: \_\_\_\_\_  
Contact Name: \_\_\_\_\_  
Contract Address: \_\_\_\_\_  
Contact telephone and FAX Numbers: \_\_\_\_\_

13. LIST **CURRENT** SIMILAR PROJECTS (LOCAL OR STATE-WIDE) UNDER CONTRACT- INCLUDE LOCATION OF PROJECT, SIZE OF PROJECT (CONTRACT AMOUNT) CONTACT NAME, ADDRESS, TELEPHONE NUMBERS.  
NOTE: DETAILED INFORMATION ON THESE PROJECTS MAY ALSO BE REQUESTED IN THE RFP PACKAGE.

1. Location of Project: \_\_\_\_\_  
Size of Project: \_\_\_\_\_



\_\_\_\_\_  
Contract Amount:  
\_\_\_\_\_  
Contact Name and Title:  
\_\_\_\_\_  
Contact Address:

\_\_\_\_\_  
Contact telephone and FAX Numbers:

2. \_\_\_\_\_  
Location of Project:  
\_\_\_\_\_  
Size of Project:  
\_\_\_\_\_  
Contract Amount:  
\_\_\_\_\_  
Contact Name and Title:  
\_\_\_\_\_  
Contact Address:  
\_\_\_\_\_  
Contact telephone and FAX Numbers:

3. \_\_\_\_\_  
Location of Project:  
\_\_\_\_\_  
Size of Project:  
\_\_\_\_\_  
Contract Amount:  
\_\_\_\_\_  
Contact Name and Title:  
\_\_\_\_\_  
Contact Address:  
\_\_\_\_\_  
Contact telephone and FAX Numbers:

14. LIST OF SUB-CONTRACTORS TO BE USED FOR THIS PROJECT:  
(INCLUDE NAME, ADDRESS, TELEPHONE NUMBER, TYPE OF WORK)

1. \_\_\_\_\_  
Name:  
\_\_\_\_\_  
Address:  
\_\_\_\_\_  
Telephone Number:  
\_\_\_\_\_  
Type of Work:

2. \_\_\_\_\_  
Name:  
\_\_\_\_\_  
Address:  
\_\_\_\_\_  
Telephone Number:  
\_\_\_\_\_  
Type of Work:

3. \_\_\_\_\_  
Name:  
\_\_\_\_\_  
Address:  
\_\_\_\_\_  
Telephone Number:  
\_\_\_\_\_  
Type of Work:

**IF ADDITIONAL INFORMATION IS PROVIDED ON A SEPARATE SHEET FOR ANY OF THE ITEMS, CLEARLY SPECIFY WHERE IT CAN BE LOCATED IN YOUR PROPOSAL PACKAGE.**



**EXHIBIT 6 EVALUATION SCORESHEET**

RFP EVALUATION CRITERIA DESCRIPTION	SCORE
<b>2.1 EXPERTISE AND QUALIFICATIONS AREA</b>	
<p>In this section, the Offeror must demonstrate that it meets and/or exceeds all requirements regarding expertise and qualifications of personnel proposed to complete the work defined in the Statement of Work/Scope of Services of this RFP. Qualifications of personnel are considered of the essence of the services provided. Therefore, the Offeror must provide information on Key Personnel who will be the personnel performing the consulting services.</p>	
<b>A. Relevant Experience</b>	
<p>In the Expertise and Qualifications Area, the Offeror should provide at least three references or identify contracts demonstrating that it successfully provided services/products that are the same or similar to those required in the RFP. The proposal should adequately explain the successful outcomes of the projects. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions.</p> <p>Does the proposal include at least three references or past performance citations? Are the references or past performance citations relevant to the requirements of the Statement of Work of the RFP?            Does the Offeror explain how they were successful on the projects provided as past performance?            Does the Offeror apply the past performance to the City requirement in such a way as to demonstrate added value due to experience?</p> <p><b>COMMENTS:</b></p>	<p><b>5 – Exceptional</b>  <b>4 – Very Good</b>  <b>3 – Satisfactory</b>  <b>2 – Marginal</b>  <b>1 – Unacceptable</b></p> <p>Rating: ____</p>
<b>B. Key Personnel</b>	
<p>In the Expertise and Qualifications Area, resumes must be provided for all personnel who would be performing work on the resultant Contract. Resumes do not count toward the page limit. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions. Explain how the key personnel were related to the projects cited as relevant past performance.</p> <p>Does the Offeror provide complete resumes, including education, experience, background information, accomplishments, and other pertinent information?            Does the Offeror provide resumes for all key personnel, as required by the RFP?            Do the resumes demonstrate adequate professional, technical, and management levels to accomplish the work effectively and efficiently?            Do the key personnel possess all requisite certifications, licenses, experience, etc.?</p> <p><b>COMMENTS:</b></p>	<p><b>5 – Exceptional</b>  <b>4 – Very Good</b>  <b>3 – Satisfactory</b>  <b>2 – Marginal</b>  <b>1 – Unacceptable</b></p> <p>Rating: ____</p>



Sum of Ratings in Technical Area (Add numbers in Section 1.A. and 1.B):	
Evaluation Factor:	.40
Expertise and Qualifications Area Evaluation Score (Multiply the sum of ratings in Technical Area by the evaluation factor):	
<b>2.2 TECHNICAL AREA</b>	
The Offeror must explain its overall solution, considering the scope of work or statement of work provided. The content must include, but not necessarily be limited to, the following information.	
<b>A. Understanding of Compliance with Technical Requirements</b>	
<p>In the Technical Area, the Offeror should address each work area in sufficient detail to demonstrate a clear and full understanding of the work necessary to complete the project. The proposal should not merely parrot the requirements of the RFP. Further, the Offeror should provide evidence of sufficient planning to ensure the work is completed on schedule and within budget. It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions:</p> <ol style="list-style-type: none"> <li>1. Does the proposal demonstrate a firm understanding of the requirements and goals of the Statement of Work, as well as industry standards and reasonable expectations for a company in the industry?</li> <li>2. Does the proposal fully and completely address each requirement and goal of the Statement of Work?</li> <li>3. Does the proposal provide solutions to indicate that requirements and goals will be met on schedule?</li> <li>4. Does the technical solution seem realistic?</li> <li>5. Does it generally appear that the Offeror knows and thoroughly understands the business and the RFP requirements?</li> </ol> <p><b>COMMENTS:</b></p>	<p><b>5 – Exceptional</b>  <b>4 – Very Good</b>  <b>3 – Satisfactory</b>  <b>2 – Marginal</b>  <b>1 – Unacceptable</b></p> <p>Rating: ____</p>
<b>B. Project Approach</b>	
<p>In the Technical Area, the Offeror should clearly present proposed solutions and indicate that it has performed adequate planning to accomplish project tasks as defined in the Statement of Work. Innovations, efficiencies, and detailed specifics are all encouraged.</p> <p>The Offeror must at least address the following areas:</p> <p>Schedule Management. Discuss Offeror’s approach to schedule management including updating and reporting progress of the work</p> <p>Quality Control. Discuss Offeror’s quality control plan, processes and approach to ensure that the City receives a quality product.</p> <p>Safety. Discuss Offeror’s approach and commitment to safety for its workers, the public, and City employees, if services are accomplished on a City site.</p>	<p><b>5 – Exceptional</b>  <b>4 – Very Good</b>  <b>3 – Satisfactory</b>  <b>2 – Marginal</b>  <b>1 – Unacceptable</b></p> <p>Rating: ____</p>



<p>Potential issues that Offeror foresees with this project and how Offeror would make adjustments if encountered.</p> <p>It is highly recommended that the Offeror provide sufficient content and detail to answer completely the following questions.</p> <ol style="list-style-type: none"> <li>1. Does the proposal include a complete and timely plan to accomplish each requirement, including subcontracting (if applicable)?</li> <li>2. Does the proposal demonstrate that appropriate and qualified personnel and equipment will be provided to carry out the requirement?</li> <li>3. Are the proposal concepts properly scaled to the scope and budget of the project?</li> <li>4. Does the proposal demonstrate and understanding of the key stakeholders requirement and desires?</li> <li>5. Do the proposed concept stabilization methods seem appropriate for the channel?</li> </ol> <p><b>COMMENTS:</b></p>	
Sum of Ratings in Technical Area (Add numbers in Section 2.A. and 2.B):	
Evaluation Factor:	.50
Technical Area Evaluation Score (Multiply the sum of ratings in Technical Area by the evaluation factor):	
<b>PROPOSAL PRESENTATION</b>	
<p>Presentation is an important factor. Offerors should provide a highly professional product, which is complete, accurate, easily understood, and effectively presented.</p> <p><b>COMMENTS:</b></p>	<p>5 – Exceptional  4 – Very Good  3 – Satisfactory  2 – Marginal  1 – Unacceptable</p> <p>Rating: ____</p>
Total Proposal Presentation Area (Insert number from Section 4 evaluation above):	
Evaluation Factor:	.10
Proposal Presentation Area Evaluation Score (Multiply the Total Proposal Presentation Area score by the evaluation factor):	
<b>LOCATION BONUS (IF APPLICABLE)</b>	
Total Bonus Points for location:	
<b>EXCEPTIONS PROPOSED</b>	





<p>What (if any) exceptions (redlines to our terms and conditions) were proposed? Are they acceptable?</p> <p><b>COMMENTS:</b></p>	<p><b>Pass/Fail</b></p>
<p><b>INSURANCE REQUIREMENTS</b> Does the Offeror meet all insurance requirements?</p>	<p><b>Pass/Fail</b></p>
<p><b>TOTAL SCORE – Add Evaluation Scores from Sections 1-4 and location bonus (if applicable). The sum is the total score.</b></p>	<p>Total Score:</p>



**EXHIBIT 7 FEDERAL FORMS**

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION AND OTHER RESPONSIBILITY MATTERS**

The undersigned duly authorized official of the proposer certifies to the best of its knowledge and belief, that it and its principals:

A. Are not presently debarred, suspended, proposed for debarment, and declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency.

B. Have not within a three-year period preceding this proposal been convicted of or had a civil judgement rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public (federal, state or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements or receiving stolen property.

C. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of the offenses enumerated in paragraph (B) of this certification; and

D. Have not within a three-year period preceding this application/proposal had one or more public transaction (federal, state or local) terminated for cause or default.

E. Are not on the Comptroller General's List of Ineligible Bidders or any similar list maintained by any other governmental entity.

Where the proposer is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

**(Check One)**

**I DO CERTIFY (\_\_\_\_)**

**I DO NOT CERTIFY (\_\_\_\_)**

**Date:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Title:** \_\_\_\_\_



## RESTRICTIONS ON LOBBYING CERTIFICATION

Pursuant to United States Public Law 101-121, Section 319, the undersigned duly authorized official of the proposer hereby certifies, to the best of her/his knowledge and belief, that:

1. No Federal appropriated funds have paid or will be paid, by or on behalf of the undersigned, to any person for the purpose of 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 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 or agency 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 a Standard Form-LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.
3. The undersigned duly authorized official shall require and ensure that the language of this certification be included in any award documents for subcontracts, grants, loans, and cooperative agreements, and that all subcontractors shall so 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. The submission of this Certification is a prerequisite for making or entering into this transaction, imposed by Title 31 USC Section 1352. Any proposer (person) who fails to file the required certification shall be subject to civil penalty of not less than ten thousand dollars (\$10,000) and not more than one hundred thousand dollars (\$100,000) for each such failure to file.

Proposer: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**NON-COLLUSION AFFIDAVIT**

The undersigned duly authorized official of the proposer hereby certifies, to the best of her/his knowledge and belief, that:

1. That I am an officer or employee of the \_\_\_\_\_ (proposing entity) having the authority to sign on behalf of the corporation, and,
  
2. That the prices in the attached proposal were arrived at independently by \_\_\_\_\_ (proposing entity) without collusion, consultation, communication, or any agreement, for the purpose of restricting competition as to any matter relating to such prices with any other proposer or with any other competitor regarding an understanding, or planned common course of action with any other vendor of materials, supplies, equipment, or service described in the RFP/IFB designed to limit independent proposals or competition; and
  
3. That unless otherwise required by law, the contents and prices contained in the proposal have not been communicated by \_\_\_\_\_ (proposing entity) or its employees or agents to any person not an employee or agent of \_\_\_\_\_ (proposing entity), or its surety on any bond furnished with the proposal, and will not be communicated to any such person prior to the official opening of the proposal; and,
  
4. That I have fully informed myself regarding the accuracy of the statements made in this affidavit.

Proposer: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**EQUAL EMPLOYMENT STATUS REPORT**

Contractor's Name \_\_\_\_\_

Street Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

This firm is:

<input type="checkbox"/>	Independently owned and operated
<input type="checkbox"/>	An affiliate parent company
<input type="checkbox"/>	A subsidiary of address
<input type="checkbox"/>	A division City and State

#	Statement	Has	Has Not
1	Developed and has on file an affirmative action program in conformance with 41 CFR 60-2		
2	Participated in any previous contract or subcontract subject to the equal opportunity clause either with the City of any Federal Agency		
3	Filed with the City, or where applicable, joint Reporting Committee, or other Federal Agency, all reports due under the applicable contract(s) or subcontract(s)		
4	Contractor's Equal Employment Opportunity Program been subject to a Federal Equal Opportunity Compliance Review, If so state date of Review: _____		

Signature \_\_\_\_\_

Date \_\_\_\_\_

Title \_\_\_\_\_



## **SECTION V – SCHEDULES**

### **6.0 SCHEDULES**

Schedule A	Hourly Rate Sheet (Not Evaluated)
Schedule B	Minimum Insurance Requirements
Schedule C	Marksheffel and Zircon Site Map
Schedule D	Marksheffel and Utilities Map
Schedule E	Flood Insurance Rate Map
Schedule F	Marksheffel Plans



**SCHEDULE A – HOURLY RATE SHEET (NOT EVALUATED)**

**Please submit your hourly rate sheet in separate envelope. Do not include in your proposal. The hourly rates will not be evaluated.**



**SCHEDULE B – MINIMUM INSURANCE REQUIREMENTS**

The following listed minimum insurance requirements shall be carried by all contractors and consultants unless otherwise specified in the City’s solicitation package, Special Provisions or Standard Specifications.

1.	X	Commercial General Liability for limits not less than \$1,000,000 combined single limit with \$2,000,000 aggregate for bodily injury and property damage for each occurrence. Coverage shall include blanket contractual, broad form property damage, products and completed operations.
2.	X	Workers’ Compensation and Employers Liability as required by statute. Employers Liability coverage is to be carried for a minimum limit of \$100,000.
3.	X	Automobile Liability covering any auto (including owned, hired, and non-owned autos) with a minimum of \$1,000,000 each accident combined single limit.
4.	X	Professional Liability Insurance covering any damages caused by an error, omission or any negligent Acts with limits of not less than \$1,000,000 per occurrence and in the aggregate. The coverage shall have an extended reporting period of 2 years following the date of substantial completion of the project for reporting of claims.

Except for workers’ compensation and employer’s liability insurance, the **City of Colorado Springs must be named as an additional insured**. Certificates of Insurance must be submitted before commencing the work and provide 30 days’ notice prior to any cancellation, non-renewal, or material changes to policies required under the contract.

All coverage furnished by contractor is primary, and any insurance held by the City of Colorado Springs is excess and non-contributory.

The undersigned certifies and agrees to carry and maintain the insurance requirements indicated above throughout the contract Period of Performance.

\_\_\_\_\_  
(Name of Company)

\_\_\_\_\_  
(Signature) (Date)

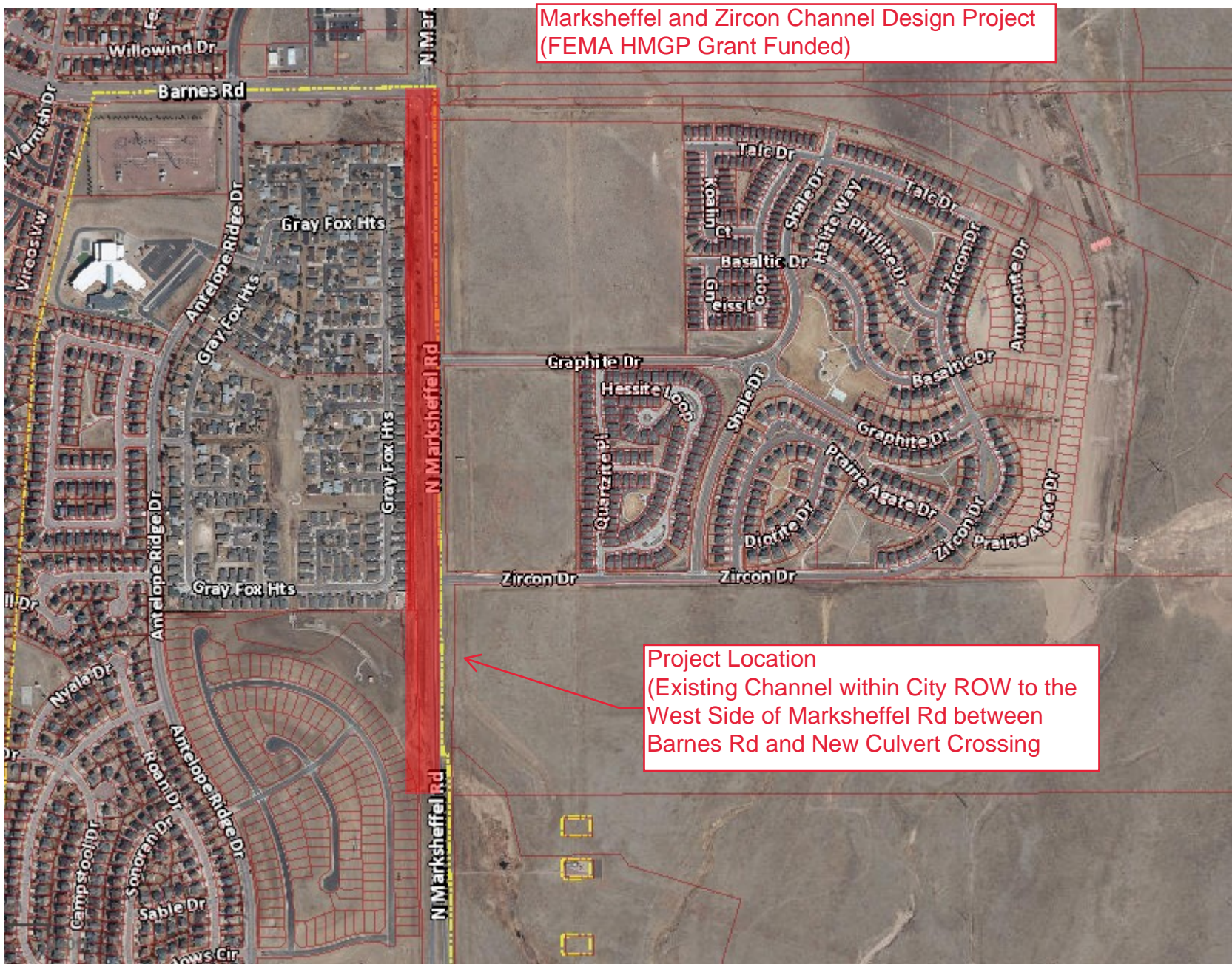




## **SCHEDULE C – MARKSHEFFEL AND ZIRCON SITE MAP**

Will follow this page.

Marksheffel and Zircon Channel Design Project  
(FEMA HMGP Grant Funded)



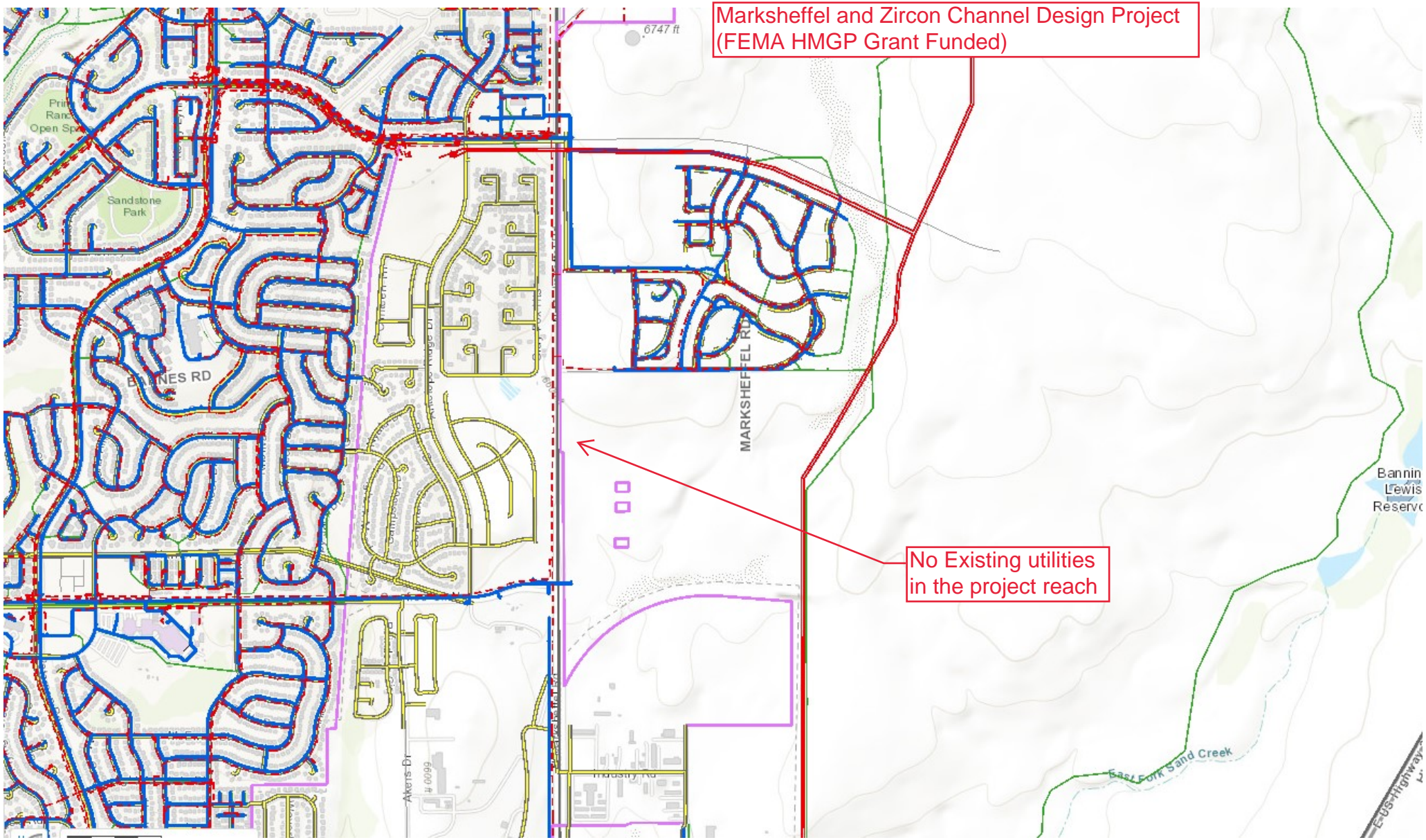
Project Location  
(Existing Channel within City ROW to the  
West Side of Marksheffel Rd between  
Barnes Rd and New Culvert Crossing)



## **SCHEDULE D – MARKSHEFFEL AND UTILITIES MAP**

Will follow this page.

Marksheffel and Zircon Channel Design Project  
(FEMA HMGP Grant Funded)



No Existing utilities  
in the project reach



## **SCHEDULE E – FLOOD INSURANCE RATE MAP**

Will follow this page.

**NOTES TO USERS**

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

**Coastal Base Flood Elevations** shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The **horizontal datum** was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the **North American Vertical Datum of 1988 (NAVD88)**. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services  
NOAA, NIMS12  
National Geodetic Survey  
SSMC-3, #9202  
1315 East-West Highway  
Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242 or visit its website at <http://www.ngs.noaa.gov/>.

**Base Map** information shown on this FIRM was provided in digital format by El Paso County, Colorado Spas Utilities, and Anderson Consulting Engineers, Inc. These data are current as of 2008.

This map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. The profile baselines depicted on this map represent the hydraulic modeling baselines that match the flood profiles and Floodway Data Tables if applicable, in the FIS report. As a result, the profile baselines may deviate significantly from the new base map channel representation and may appear outside of the floodplain.

**Corporate limits** shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact **FEMA Map Service Center (MSC)** via the FEMA Map Information eXchange (FIMX) 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. The MSC may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

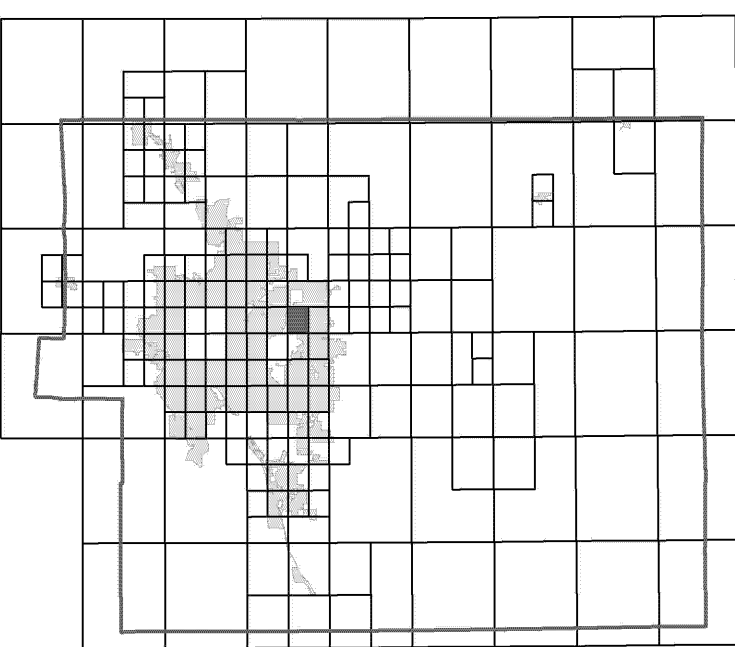
If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call 1-877-FEMA MAP (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.

**El Paso County Vertical Datum Offset Table**

Flooding Source	Vertical Datum Offset (ft)

REFER TO SECTION 3.3 OF THE EL PASO COUNTY FLOOD INSURANCE STUDY FOR STREAM BY STREAM VERTICAL DATUM CONVERSION INFORMATION

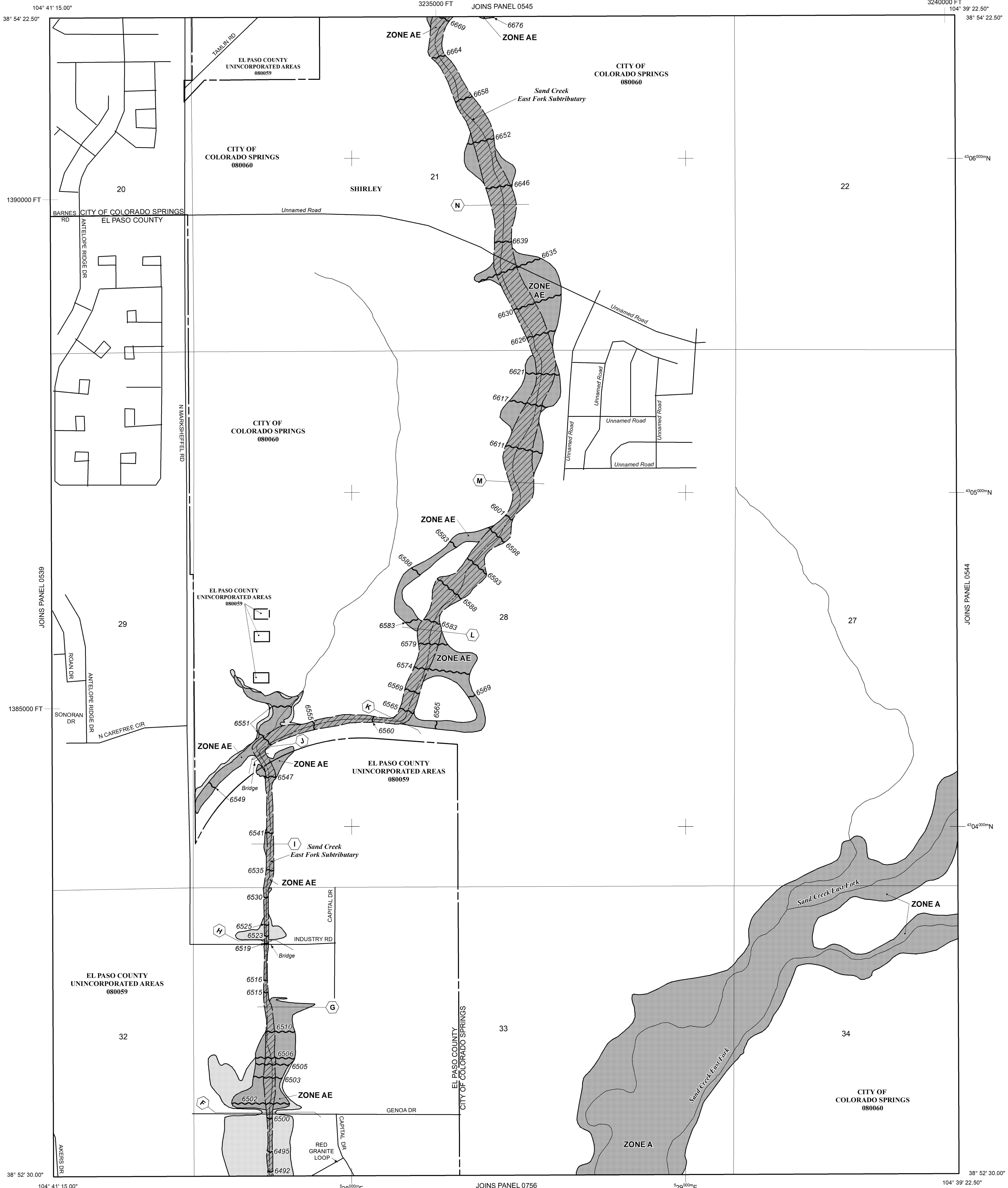
**Panel Location Map**



This Digital Flood Insurance Rate Map (DFIRM) was produced through a Cooperating Technical Partner (CTP) agreement between the State of Colorado Water Conservation Board (CWCB) and the Federal Emergency Management Agency (FEMA).



Additional Flood Hazard information and resources are available from local communities and the Colorado Water Conservation Board.



NOTE: MAP AREA SHOWN ON THIS PANEL IS LOCATED WITHIN TOWNSHIP 13 SOUTH, RANGE 65 WEST.

**LEGEND**

**SPECIAL FLOOD HAZARD AREAS (SFHAS) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD**

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equalled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

**ZONE A** No Base Flood Elevations determined.

**ZONE AE** Base Flood Elevations determined.

**ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

**ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

**ZONE AR** Special Flood Hazard Area Formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

**ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

**ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

**ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

**FLOODWAY AREAS IN ZONE AE**

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**OTHER FLOOD AREAS**

**ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot, or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

**OTHER AREAS**

**ZONE X** Areas determined to be outside the 0.2% annual chance floodplain.

**ZONE D** Areas in which flood hazards are undetermined, but possible.

**COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS**

**OTHERWISE PROTECTED AREAS (OPAs)**

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

Floodplain boundary  
Floodway boundary  
Zone D Boundary  
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.  
(EL 987)

Base Flood Elevation line and value; elevation in feet\*  
(EL 987)

\* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

— A — A — Cross section line  
— 23 — 23 — Transsect line

97° 07' 30.00" Datum of 1983 (NAD 83)  
42° 55' 00" 1000-meter Universal Transverse Mercator grid ticks, zone 13  
6000000 FT 5000-foot grid ticks; Colorado State Plane coordinate system, central zone (FIPS ZONE 5002), Lambert Conformal Conic Projection

DX5510 Bench mark (see explanation in Notes to Users section of this FIRM panel)

M1.5 River Mile

**MAP REPOSITORIES**  
Refer to Map Repositories list on Map Index

**EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP**  
MARCH 17, 1997

**EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL**  
DECEMBER 7, 2018 - to update corporate limits, to change Base Flood Elevations and Special Flood Hazard Areas, to update map format, to add roads and road names, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History Table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

**MAP SCALE 1" = 500'**

250 0 500 1000 FEET  
150 0 150 300 METERS

**NFIP** **PANEL 0543G**

**FIRM**  
**FLOOD INSURANCE RATE MAP**  
**EL PASO COUNTY, COLORADO AND INCORPORATED AREAS**

**PANEL 543 OF 1300**  
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
COLORADO SPRINGS, CITY OF	08060	0543	G
EL PASO COUNTY	08059	0543	G

Notice: This map was reissued on 05/15/2020 to make a correction. This version replaces any previous versions. See the Notice-to-User Letter that accompanied this correction for details.

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject community.

**MAP NUMBER**  
**08041C0543G**

**MAP REVISED**  
**DECEMBER 7, 2018**

Federal Emergency Management Agency



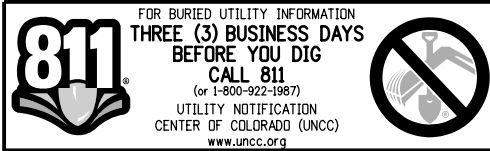
## **SCHEDULE F – MARKSHEFFEL PLANS**

- 01\_General**
- 02\_Removals**
- 03\_Roadway**
- 04\_Intersection Details**
- 05\_Signing and Striping**
- 06\_Signal**
- 07\_Construction Phasing**
- 08\_Uilities Impact**
- 09\_SWENT Erosion Control**
- 10\_SWENT Drainage**
- 11\_SWENT Water Quality**
- 12\_ROW**
- 13\_SUE**
- 14\_Cross Sections**



**01\_General**  
**Will follow this page.**





# DEPARTMENT OF PUBLIC SERVICES CITY OF COLORADO SPRINGS ENGINEERING DIVISION

## HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED MARKSHEFFEL RD AT BARNES RD PACKAGE 1 FUNDED BY THE PIKES PEAK RURAL TRANSPORTATION AUTHORITY

**REVIEWED BY:**

CITY ENGINEERING DIVISION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

TRAFFIC ENGINEERING DIVISION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

OPERATIONS AND MAINTENANCE DIVISION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PARKS AND RECREATION DEPARTMENT  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

LUMEN  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

KINDER MORGAN  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CSU ELECTRIC  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CSU FIBER OPTIC  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CSU GAS - LOW PRESSURE  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CSU GAS - HIGH PRESSURE  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CSU TRANSMISSION  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CSU WATER  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

COMCAST  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

FALCON BROADBAND  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

MAGELLAN  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

VERIZON  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

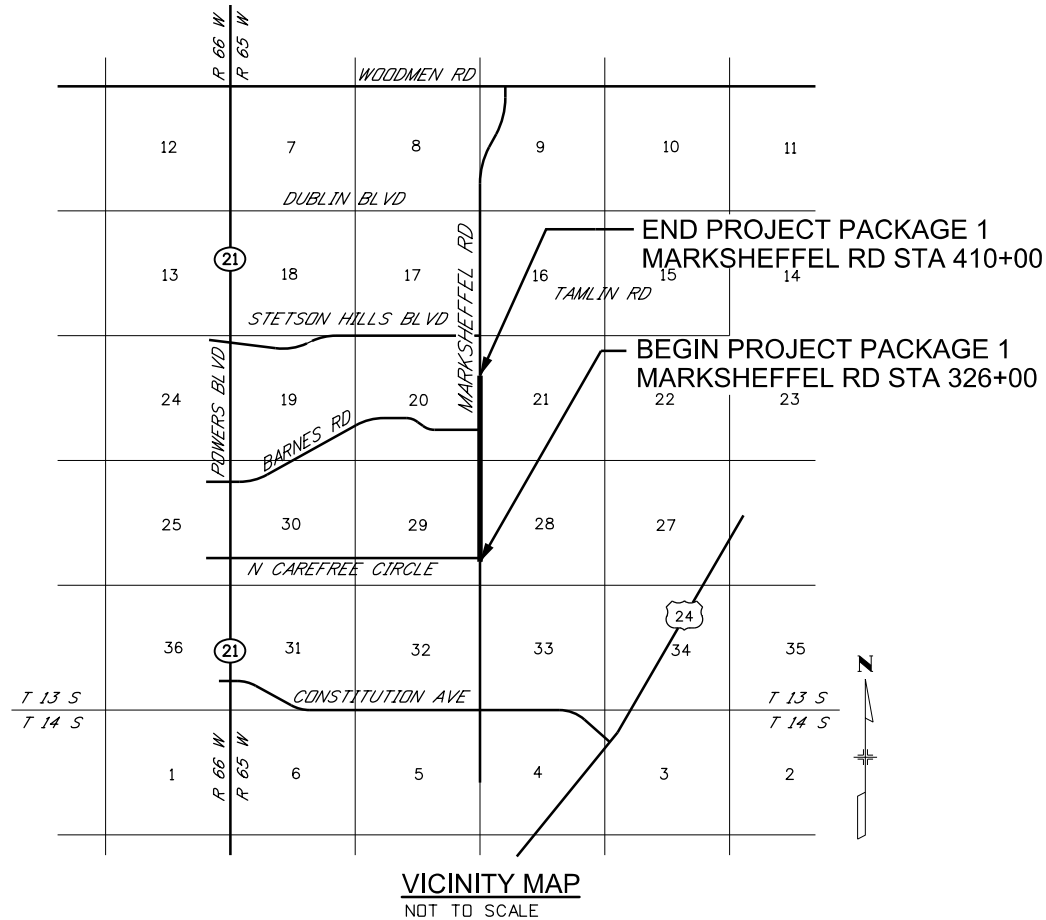
MOUNTAIN VIEW ELECTRIC  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

ZAYO  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS
3-5	GENERAL NOTES
6-13	QUANTITIES & TABULATIONS
14-17	TYPICAL SECTIONS
18-22	GEOMETRIC LAYOUT
23-28	REMOVALS
29-45	ROADWAY PLAN & PROFILE
46-51	INTERSECTION DETAILS
52-85	DRAINAGE PLAN
86-91	WATER QUALITY PLAN
92-101	SIGNING & STRIPING
102-103	TRAFFIC SIGNALS & LIGHTING
104-136	CONSTRUCTION PHASING
137-140	TEMPORARY TRAFFIC SIGNAL PLAN
141-165	UTILITIES (IMPACT)
1-38	GRADING AND EROSION CONTROL
1-19	RIGHT-OF-WAY
1-26	SUE
1-49	CROSS SECTIONS (INFORMATION ONLY)

**TABULATION OF LENGTH & DESIGN DATA**

STATION	FEET	
	ROADWAY	
MARKSHEFFEL RD (VD=50) BEGIN = STA 326+00 - STA 410+00	8400	
BARNES RD (VD=40) STA -5+60 - STA 35+53.39	4113.39	
STA 36+90.35 - STA 37+80	89.65	
ZIRCON DR (VD=15/30) STA +16 - STA +90.00	74	
GRAPHITE DR (VD=15/30) STA +10 - STA +60.00	50	
<b>SUMMARY OF PROJECT LENGTH</b>	<b>FEET</b>	<b>MILES</b>
ROADWAY (NET LENGTH)	12727.04	2.41
<b>DESIGN DATA</b>	MARKSHEFFEL RD	
MAXIMUM GRADE - MARKSHEFFEL/BARNES	6%	
- ACCESSES	10%	
MINIMUM S.S.D. HORIZONTAL	425'	
MINIMUM S.S.D. VERTICAL	425'	
MAXIMUM DESIGN SPEED	50 MPH	
CLEAR ZONE DISTANCE (TANGENT)	20'	



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**PRELIMINARY - NOT FOR CONSTRUCTION**

Print Date: 1/5/2024		<b>Sheet Revisions</b>				No Revisions:				
File Name: P1-18300DES_TitleSht.dgn		Date:	Comments	Init.		Revised:	Designer:	Structure Numbers		
Horiz. Scale: 1:1      Vert. Scale:						Void:	Detailer:	Subset Sheets:    of		
Unit Information      Unit Leader							Sheet Subset:		Sheet Number	
Project No./Code    PPRTA    10444										

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**COLORADO  
DEPARTMENT OF TRANSPORTATION  
M&S STANDARDS PLANS LIST**

July 31, 2019

Revised on April 14, 2023

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX ■, AND WILL BE ATTACHED TO THE PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868 Construction Engineering Services JBK	<b>STANDARD PLANS LIST</b>	STANDARD PLAN NO.
Creation Date: 07/31/19		Date:	Comments			STANDARDS PLANS LIST
Designer Initials: JBK	(R-X)					Standard Sheet No. 1 of 1
Last Modification Date: 04/14/23	(R-X)					Project Sheet Number:
Detailer Initials: LTA	(R-X)					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English						

**GENERAL NOTES:**

1. THE PROJECT WILL BE CONSTRUCTED IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2022) (REFERRED TO AS THE STANDARD SPECIFICATIONS), EXCEPT WHERE OTHERWISE NOTED ON THE PROJECT PLANS AND THE PROJECT SPECIAL PROVISIONS.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE ENGINEER OR APPLICABLE ENTITY.
3. THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS ON SITE FOR THE DURATION OF THIS PROJECT.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL LOCAL ORDINANCES.
5. CITY OF COLORADO SPRINGS MAINTENANCE SHALL BE ALLOWED ACCESS THROUGHOUT THE PROJECT AT ALL TIMES. ACCESS THROUGH A PARTICULAR SECTION UNDER CONSTRUCTION SHALL BE COORDINATED WITH THE ENGINEER.
6. THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
7. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
8. ALL STATIONS ARE ALONG THE PROJECT CONTROL LINES, UNLESS OTHERWISE NOTED.
9. STATIONS AND OFFSETS SHOWN ARE TO THE EDGE OF PAVEMENT AND ELEVATIONS SHOWN ARE TO THE FINISHED GRADE OF PAVEMENT, UNLESS OTHERWISE NOTED. PAVEMENT DIMENSIONS AND RADII ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS AND CROSS SECTIONS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. CONSTRUCTION ACTIVITIES, IN ADDITION TO NORMAL CONSTRUCTION PROCEDURES, SHALL INCLUDE THE PARKING OF VEHICLES OR EQUIPMENT, DISPOSAL OF LITTER AND ANY OTHER ACTION WHICH WOULD ALTER EXISTING CONDITIONS.
11. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN THE CLEARZONE SHALL BE PROTECTED BY BARRIER WITH CRASH CUSHIONS AS NECESSARY.
12. THE CONTRACTOR SHALL NOT PARK ANY VEHICLES OR EQUIPMENT IN, OR DISTURB ANY AREAS NOT APPROVED BY THE ENGINEER. STOCKPILING AND STAGING AREA LOCATIONS SHALL BE SUBMITTED AT LEAST 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. WORK SHALL NOT BEGIN UNTIL THE LOCATIONS ARE ACCEPTED IN WRITING BY THE ENGINEER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A SITE-SPECIFIC STAGING PLAN FOR ACCESS TO THE WORK AREAS AND FIELD FACILITIES TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. EARTHWORK, DRAINAGE, AND OTHER ITEMS RELATED TO THE ACCESS SHALL BE SUBSIDIARY TO THE WORK INCLUDING EROSION CONTROL MEASURE FOR RESTORATION OF THE SITE TO ORIGINAL CONDITIONS.
14. PROJECT SUPERINTENDENT SHALL BE AVAILABLE ON A 24 HOURS/7 DAYS PERIOD AND CREW WILL RESPOND WITHIN 4 HOURS OF CONTACT.
15. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN OR AS DIRECTED BY THE ENGINEER. ANY REWORK OF MATERIAL DUE TO LACK OF THIS MAINTENANCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. MAINTAINING DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK.
16. DUST CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE WORK. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
17. THE MINIMUM THICKNESS OF TOPSOIL SHALL BE 4 INCHES. IT IS ESTIMATED THAT 16,449 CU. YDS. WILL BE REQUIRED BASED ON THE AVERAGE THICKNESS OF 4 INCHES.

18. THE CONTRACTOR SHALL SUBMIT A PAVING SEQUENCE SCHEDULE TO THE ENGINEER AT LEAST 10 WORKING DAYS PRIOR TO THE PRE-PAVING CONFERENCE. PAVING SHALL NOT BEGIN UNTIL THE SCHEDULE HAS BEEN ACCEPTED IN WRITING BY THE ENGINEER.
19. THE FOLLOWING SHALL BE FURNISHED WITH EACH BITUMINOUS LAYER. THIS EQUIPMENT SHALL BE USED ON ALL PASSES AND LIFTS OF BITUMINOUS PAVEMENT PLACED.
  - a. A SKI TYPE DEVICE AT LEAST 30 FEET IN LENGTH
  - b. SHORT SKI OR SHORT SHOE
  - c. AT LEAST 1500 FEET OF CONTROL LINE AND STAKES
20. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE A SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
21. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE EXISTING PAVEMENT SURFACE BY MEANS OF A POWER BROOM VACUUM SYSTEM (PICK-UP BROOM) OR OTHER APPROVED METHOD. CLEANING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
22. A TACK COAT OF EMULSIFIED ASPHALT (SLOW-SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE THE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.
23. FOR PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
  - EMULSIFIED ASPHALT (SLOW-SETTING) .....@ 0.1 GALS./SQ. YD. (DILUTED)
  - AGGREGATE BASE COURSE (CLASS 6) .....@ 133 LBS./CU. FT.
  - PAVEMENT MARKING PAINT (HIGH BUILD)(TEMPORARY) .....@ 102 SQ. FT./GAL
24. ALL QUANTITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY TO COMPLETE THE CONSTRUCTION SHOWN IN THESE PLANS.
25. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN.
26. REMOVAL OF ASPHALT MAT SHALL BE SAWCUT TO A CLEAN, VERTICAL EDGE WHERE SHOWN, USING A CUTTING SAW OR OTHER METHOD AS APPROVED BY THE ENGINEER.
27. THE CONTRACTOR MAY USE AN EXPOSED LONGITUDINAL JOINT FOR A MAXIMUM OF ONE DAY. THE JOINT SHALL CONSIST OF A VERTICAL FACE 1 INCH DEEP AND AT THE BOTTOM OF THE VERTICAL FACE, A 3:1 SLOPE TO THE EXISTING PAVEMENT (OR SUBGRADE). THE MAXIMUM DEPTH OF THE 3:1 SHALL BE 2 INCHES. AT THE END OF ONE DAY, LONGITUDINAL JOINTS SHALL BE ON LANE LINES AND OUT OF WHEEL PATHS.
28. STRUCTURAL CONCRETE SHALL BE CONCRETE CLASS D (BOX CULVERT).
29. PRIOR TO PLACING CONCRETE PAVEMENT, THE PAVED SURFACE SHALL BE SWEEPED AND CLEANED. THIS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE PAVEMENT ITEM(S).
30. ALL REMOVED SIGNS SHALL BECOME THE PROPERTY OF THE CITY OF COLORADO SPRINGS. THE CONTRACTOR SHALL DELIVER THE REMOVED SIGNS TO THE FONTANERRO YARD AND COORDINATE WITH THE SIGN SHOP.
31. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AFFECTED PROPERTY OWNERS AT ALL TIMES DURING CONSTRUCTION.
32. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING EXISTING CONDUIT THAT IS TO REMAIN IN SERVICE. ANY CONDUIT DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE PROJECT.
33. EXCAVATION REQUIRED FOR COMPACTION OF BASES OF CUTS AND FILLS WILL BE CONSIDERED AS SUBSIDIARY TO THAT OPERATION AND WILL NOT BE PAID FOR SEPARATELY.
34. CONTRACTOR TO COMPLY WITH COMMITMENTS AGREED TO IN THE RIGHT OF WAY AGREEMENTS AS DIRECTED BY THE ENGINEER.

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OLYMPIC CITY USA



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				Sheet Subset: NOTE	Subset Sheets: 1 of 3

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35. DEPTH OF MOISTURE-DENSITY CONTROL FOR THIS PROJECT SHALL BE AS FOLLOWS:
- a. BASES OF CUTS AND FILLS 6 INCH DEPTH.
  - b. FULL DEPTH OF EMBANKMENTS FOR ROADWAYS.
36. TYPE OF COMPACTION FOR THIS PROJECT WILL BE AASHTO T-99.
37. IT IS ESTIMATED THAT 80 HOURS OF PROOF ROLLING WILL BE REQUIRED AND WILL BE PAID FOR AS ITEM 203-01100 PROOF ROLLING.
38. IT IS ESTIMATED THAT 80 HOURS OF MISCELLANEOUS BLADING WILL BE REQUIRED AND WILL BE PAID FOR AS ITEM 203-01500 BLADING.
39. UNLESS OTHERWISE SPECIFIED, MATERIALS TO BE REMOVED OR OBITERATED WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF-SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A DISPOSAL SITE AND REQUIRED PERMITS FOR THE UNUSABLE MATERIALS.
40. THE CONTRACTOR SHALL COORDINATE WITH ADJACENT LANDOWNERS WHEN INSTALLING FENCE. THE CONSTRCTOR SHALL CONDUCT FENCING OPERATIONS IN A MANNER TO PROTECT LIVESTOCK AND FENCING MUST BE MAINTAINED AT ALL TIMES.
41. THE CONTRACTOR SHALL OBTAIN A PERMIT TO WORK IN THE CITY OF COLORADO SPRINGS RIGHT-OF-WAY. A MHT IS REQUIRED FOR OBTAINING THE PERMIT.
42. REFER TO ADDITIONAL NOTES ON THE UTILITY PLANS, DRAINAGE PLANS, STORMWATER MANAGEMENT PLANS, SIGNING & PAVEMENT MARKING PLANS, TRAFFIC SIGNAL PLANS, LIGHTING PLANS, AND TRAFFIC CONTROL/PHASING PLANS.
- SURVEY NOTES:**
43. RIGHT-OF-WAY ACQUISITION BY THE CONTRACTOR WILL NOT BE NEEDED FOR THIS PROJECT. ALL WORK SHALL BE COMPLETED ENTIRELY WITHIN THE EXISTING RIGHT-OF-WAY.
44. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EASEMENTS AND RIGHT-OF-WAYS PRIOR TO CONSTRUCTION.
45. ALL RANGE POINTS, TIES, BENCHMARKS, OR OTHER SURVEY CONTROL POINTS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION MUST BE PRESERVED.
46. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTS DESIGNATED TO REMAIN FROM ANY DAMAGE DURING CONSTRUCTION OPERATIONS. ANY MONUMENTS DISTURBED BY THE CONTRACTOR SHALL BE RESET AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR AND ENGINEER SHALL NOTE THOSE MONUMENTS DESIGNATED TO REMAIN IN THE FIELD PRIOR TO CONSTRUCTION. SEE TABULATION OF SURVEY. ALL MONUMENTS WITHIN THE PROJECT SHALL BE SUBMITTED TO THE CITY OF COLORADO SPRINGS SURVEY.
- TRAFFIC CONTROL NOTES:**
47. TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION AND CDOT M&S STANDARDS, LATEST EDITION.
48. THE CONTRACTOR SHALL MAINTAIN FULL COMPLIANCE PAVEMENT MARKINGS ON THE ROADWAYS DURING ALL PHASES OF THE CONSTRUCTION PERIOD. TEMPORARY PAVEMENT MARKINGS ARE INCLUDED IN THE COST OF ITEM 627 PAVEMENT MARKING PAINT (HIGH BUILD).
49. CONSTRUCTION ACTIVITY SHALL BE SCHEDULED WITH MINIMUM IMPACT TO VEHICULAR TRAFFIC. ALLOWABLE WORK HOURS SHALL BE AS SPECIFIED IN THE PROJECT SPECIAL PROVISIONS.
50. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION IN CONFORMANCE WITH THE TEMPORARY CONSTRUCTION PHASING PLANS. NO LANE CLOSURES WILL BE PERMITTED BETWEEN THE HOURS OF 6:00 AM AND 9:00 AM AND BETWEEN THE HOURS OF 3:00 PM AND 6:00 PM. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE MODIFICATION OF THE TRAFFIC SIGNALS WITHIN THE CONSTRUCTION AREA AS NECESSARY TO MAINTAIN SAFE OPERATIONS.

51. UNIFORMED TRAFFIC CONTROL WILL BE REQUIRED DURING SIGNAL INSTALLATION AND ACTIVATION OR WHEN REQUIRED BY THE ENGINEER AND WILL BE PAID FOR AS ITEM 630-00003 – UNIFORMED TRAFFIC CONTROL. THE CONTRACTOR SHALL INFORM THE ENGINEER AT LEAST 48 HOURS PRIOR TO SIGNAL WORK.
52. ALL DEBRIS FROM THE POWER SWEEPING AND THOROUGH CLEANING SHALL BE DISPOSED OF IN ACCORDANCE WITH THE PROJECT SPECIAL PROVISIONS SECTION 104.
53. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, WRITTEN METHOD STATEMENTS FOR ALL PAVEMENT MARKING WORK PERFORMED. NO WORK SHALL BE PERFORMED WITHOUT PRIOR APPROVAL FROM THE PROJECT ENGINEER.
54. ENTRANCE/EXIT/AUXILIARY/TURN RAMP & LANE MARKINGS SHALL NOT BE CONSIDERED CORRECT IN THEIR EXISTING CONDITION. THE CONTRACTOR SHALL EVALUATE EACH LOCATION, AND IF NECESSARY, REMOVE AND REPLACE OBSOLETE OR INCORRECT MARKINGS TO COMPLIANCE WITH THE LATEST REVISION OF STANDARD PLAN 627. THE EVALUATION PROCESS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WORK.
55. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION, REMOVAL AND MAINTENANCE OF ALL NEW, EXISTING, AND TEMPORARY TRAFFIC CONTROL DEVICES LOCATED WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE PROJECT, PER THE PROJECT PLANS AND AS DIRECTED BY THE ENGINEER. THE DURATION OF THE PROJECT BEGINS FROM THE ISSUANCE OF THE NOTICE TO PROCEED UNTIL FINAL ACCEPTANCE OF THE PROJECT.
56. TEMPORARY OR PERMANENT STRIPING THAT DOES NOT MEET THE CONTRACT REQUIREMENTS OR PLACED WITH OVER SPRAY SHALL BE REMOVED AND REPLACED BY SANDBLASTING OR WATER BLASTING AT NO COST TO THE PROJECT. PAYMENT WILL NOT BE MADE FOR INFERIOR OR OVER SPRAYED STRIPING. PCCP PLACEMENT WILL BE STOPPED UNTIL CONFLICTING LINES AND OVER SPRAY ARE CORRECTED.
57. ALL STRIPING (TEMPORARY AND PERMANENT) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. REMOVAL OF TEMPORARY PAVEMENT MARKING WILL BE MEASURED AND PAID FOR AS REMOVAL OF PAVMENT MARKING.
58. A TRAFFIC CONTROL PLAN (TCP) WILL BE REQUIRED FOR ALL CONSTRUCTION WORK WITHIN THE RIGHT OF-WAY. THE CONTRACTOR SHALL IMPLEMENT A SEPARATE TCP FOR EACH CONSTRUCTION PHASE IN ACCORDANCE WITH CDOT TRAFFIC CONTROL FOR HIGHWAY CONSTRUCTION STANDARD PLAN S-630-1 AND THE MUTCD.

**SIGNING NOTES:**

59. GROUND MOUNTED SIGNS SHALL BE INSTALLED PER CITY OF COLORADO SPRINGS STANDARDS.
60. THE CONTRACTOR SHALL INVENTORY ALL EXISTING SIGNS PRIOR TO CONSTRUCTION ACTIVITIES AND PROVIDE LIST TO THE ENGINEER.
61. SIGN LOCATIONS ARE TO BE APPROVED BY THE ENGINEER BEFORE BEING PLACED.
62. THE CONTRACTOR SHALL REPAIR OR REPLACE AT THEIR EXPENSE ANY EXISTING SIGN THAT IS DAMAGED DURING CONSTRUCTION ACTIVITIES NOT SCHEDULED TO BE REMOVED.

**UTILITY NOTES:**

63. UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE. THERE MAY BE OTHER STRUCTURES, PIPELINES, UTILITIES, ETC., NOT SHOWN ON THE DRAWINGS. UTILITIES PRESENTLY EXISTING IN THE AREA OF CONSTRUCTION OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL IMPACTED EXISTING STRUCTURES, PIPELINES, UTILITIES, ETC., IN THE PROJECT SITE, AND SHALL BE RESPONSIBLE FOR ANY DAMAGES THERETO.
64. IT IS ESTIMATED THAT 200 HOURS OF POTHOLING WILL BE REQUIRED AND WILL BE PAID FOR AS ITEM 203 POTHOLING. POTHOLING WILL FOLLOW THE CITY OF COLORADO SPRINGS POTHOLING POLICY.
65. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORAAD AT 811 THREE BUSINESS DAYS IN ADVANCE

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OF ANY EXCAVATING OR GRADING. ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE ENGINEER OR APPLICABLE ENTITY AT THE CONTRACTOR'S EXPENSE.

66. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITIES AND STRUCTURES (INCLUDING THOSE IN TEMPORARY EASEMENTS) AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE ENGINEER OR APPLICABLE ENTITY AT NO ADDITIONAL COST TO THE PROJECT.

67. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL POWER PROVIDER TO INITIATE A REQUEST FOR A CONSTRUCTION RELATED TEMPORARY ELECTRICAL POWER AS SOON AS POSSIBLE. IN SOME INSTANCES, UP TO 60 DAYS MAY BE REQUIRED TO PROVIDE METERS AND ELECTRICAL CONNECTIONS.

68. THE WORK LISTED BELOW SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND IS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL KEEP THE UTILITY COMPANY(S) ADVISED OF ANY WORK BEING DONE TO THEIR FACILITY SO THAT THE UTILITY COMPANY(S) CAN COORDINATE THEIR INSPECTIONS FOR FINAL ACCEPTANCE OF THE WORK WITH THE ENGINEER:

- a. MINOR ADJUSTMENTS OF MANHOLES AND HANDHOLES

69. COOPERATION AMONG CONTRACTORS WILL BE REQUIRED. THE CONTRACTOR SHALL GIVE UTILITY COMPANIES AT LEAST THREE WEEKS ADVANCE NOTICE BEFORE CONSTRUCTION COMMENCES.

70. THE FOLLOWING IS A LIST OF KNOWN UTILITIES AND CONTACTS WITHIN THE PROJECT:

CHEROKEE METRO DISTRICT	KEVIN BROWN	O: 719-597-5080 ext 119
	JEFF MUNGER	O: 719-597-5080 ext 115
COLORADO INTERSTATE GAS	JULIE BARNUM	719-289-8283
COLORADO SPRINGS UTILITIES (WATER)	ROCKY WILEY	719-668-4675
COLORADO SPRINGS UTILITIES (GAS) LOW PRESSURE	RYAN POGUE	719-668-7840
COLORADO SPRINGS UTILITIES (GAS) HIGH PRESSURE	SCOTT JENSEN	605-430-4798
COLORADO SPRINGS UTILITIES (ELECTRIC)	RUDY DURAN	719-668-8762
COMCAST	LEO COATS	719-675-4657
EL PASO COUNTY PUBLIC WORKS	SAMANTHA SHERMAN	719-520-6460
FALCON BROADBAND	CHRIS OTRIN	719-886-7913
LUMEN (CENTURY LINK/LEVEL 3/QUEST)	ROBERT MCLEOD	303-949-2187
MAGELLAN/KINDER MORGAN	CLARA LUCERO	719-318-3179
MCI/VERIZON	JARED WILLIAMS	719-821-5430
MOUNTAIN VIEW ELECTRIC	ANDREW HAGGARD	719-641-1107
ZAYO	JAMES BLACK	719-216-8508

**ENVIRONMENTAL NOTES:**

71. IN ORDER TO AVOID VIOLATING THE MIGRATORY BIRD TREATY ACT OF 1918, IF ANY TREES OR SHRUBS ARE TO BE REMOVED OR WORK ON/UNDER BRIDGES IS TO BE COMPLETED BETWEEN APRIL 1 AND AUGUST 31, A SURVEY MUST BE COMPLETED FOR ACTIVE NESTS. IF AN ACTIVE NEST(S) IS FOUND NO WORK MAY BE DONE WITHIN 50 FEET OF THE NEST(S) UNTIL THE NEST(S) BECOMES INACTIVE. TO AVOID THE SURVEY REQUIREMENT, IT IS RECOMMENDED THAT ALL VEGETATION THAT NEEDS TO BE REMOVED, BE REMOVED AFTER AUGUST 31 AND BEFORE APRIL 1. SEE SPEC 240 FOR DETAILS.

72. WORK ACTIVITIES INCLUDING THE MOVEMENT AND PLACEMENT OF VEHICLES AND EQUIPMENT SHALL NOT DISTURB WETLANDS, THREATENED AND ENDANGERED SPECIES (OR THEIR HABITAT), OR BLACK-TAILED PRAIRIE DOG COLONIES. IF ANY SUCH SITES ARE ENCOUNTERED, CDOT REGION 2 ENVIRONMENTAL SHALL BE NOTIFIED SO THAT ALL APPLICABLE CLEARANCES AND PERMITS MAY BE OBTAINED. PLEASE CONTACT GABRIEL COSYLEON, REGION 2 ENVIRONMENTAL UNIT MANAGER AT 719-227-3244.

73. WETLAND AREAS NOT IMPACTED BY CONSTRUCTION WILL HAVE ORANGE PLASTIC FENCING PLACED AT THE PROJECT'S LIMITS OF DISTURBANCE PRIOR TO THE START OF CONSTRUCTION TO PREVENT DAMAGE. THE FENCING SHALL BE PLACED ACROSS THE WIDTH OF WETLAND (PARALLEL TO THE ROAD) AND ALONG THE UPSLOPE SIDE OF THE WETLAND TO THE LIMITS OF THE ROW. NO FENCING WILL BE PLACED ALONG THE RIVERSIDE OF THE WETLAND. THE LOCATIONS OF FENCING ARE SPECIFIED IN THE STORMWATER MANAGEMENT PLAN (SWMP) OF THE PROJECT; HOWEVER, SHOULD WETLAND AREAS NEED TO BE TEMPORARILY IMPACTED DURING CONSTRUCTION, THE AREA OF IMPACT WILL BE COVERED IN GEOTEXTILE FABRIC PRIOR TO CONSTRUCTION TO MINIMIZE IMPACT.

74. RESTORATION OF THE PROJECT AREA WILL INCLUDE REMOVAL OF ALL DEBRIS, LITTER, EXCAVATION SPOILS, AND WASTE MATERIALS GENERATED BY CONSTRUCTION.

75. TEMPORARY STAGING AREAS FOR CONSTRUCTION EQUIPMENT AND MATERIALS WILL UTILIZE PREVIOUSLY DISTURBED AREAS SUCH AS AGRICULTURAL FIELDS, ROADS, GRAVELED PARKING AREAS, AND SHOULDER PULL OUTS. MAJOR REPAIRS TO CONSTRUCTION EQUIPMENT WILL BE PERFORMED OFFSITE, WHERE PRACTICAL. EQUIPMENT OPERATION OFF THE HIGHWAY PRISM SHALL BE MINIMIZED TO THE EXTENT POSSIBLE TO PREVENT POSSIBLE IMPACTS TO BIOLOGICAL RESOURCES.

76. THE CONTRACTOR SHALL REMOVE ON A DAILY BASIS ALL SEDIMENT AND CONSTRUCTION DEBRIS FROM THE FLOW LINES TO AVOID POLLUTANTS FROM DISCHARGING INTO WATERWAYS. THE COST OF REMOVAL SHALL BE INCLUDED IN THE WORK.

77. BMPS SHALL BE IMPLEMENTED TO CONTROL SEDIMENTATION AND WIND OR WATER EROSION AND DEPOSITION. THESE MEASURES INCLUDE: CONTROLLING SURFACE WATER RUNOFF IN RELATION TO SLOPES AND OTHER GRADED AREAS, PLACING BMPS ALONG THE TOES OF GRADED SLOPES, RE-VEGETATING AREAS AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING AND USING BIODEGRADABLE EROSION CONTROL BLANKETING WHERE NEEDED, PLACING SILT CURTAINS AROUND CONSTRUCTION AREAS TO REDUCE EROSION OF DISTURBED SOILS AND SILTATION OF NATURAL DRAINAGE CHANNELS, AND APPLYING WATER TO GRADED AREAS AND TEMPORARY (HAUL) ROADS DURING CONSTRUCTION TO CONTROL FUGITIVE DUST. FILL SLOPES SHALL BE VERTICAL TRACKED TO MINIMIZE EROSION AS SOON AS POSSIBLE FOLLOWING FINAL GRADE.

78. WHERE EXCAVATION IS REQUIRED, ONLY THE MINIMAL AMOUNT OF AREA SHALL BE CLEARED OR GRADED IN ORDER TO MAINTAIN VEGETATIVE GROUND COVER FOR EROSION PROTECTION.

79. NATIVE VEGETATION COVER SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE.

80. FUELING AND ROUTINE MAINTENANCE OF CONSTRUCTION EQUIPMENT SHALL ONLY OCCUR AT DESIGNATED AREAS, AT LEAST 75 FEET FROM WETLAND AND AQUATIC HABITATS AND AWAY FROM DRAINAGE OR DITCHES TO PRECLUDE ADVERSE WATER QUALITY IMPACTS TO EXISTING DRAINAGES AND WETLAND HABITATS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT ADVERSE IMPACTS TO WATER QUALITY. MAJOR REPAIRS TO EQUIPMENT WILL BE MADE OFFSITE.

81. CONSTRUCTION EQUIPMENT SHALL BE CHECKED FREQUENTLY FOR LEAKS. ANY LEAKS OR SPILLS WILL BE CLEANED UP IMMEDIATELY TO PREVENT THE CONTAMINATION OF SOLID OR RESIDUE ON PAVED SURFACES. SPILL AREAS WILL NOT BE "HOSED DOWN", DRY CLEANUP METHODS WILL BE USED.

82. WOOD WASTES SUCH AS SAWDUST OR CHIPS WILL NOT BE BURIED ONSITE.

83. EXPOSED AGGREGATE WASH-WATER WILL BE INTERCEPTED AND PREVENTED FROM REACHING AMBIENT WATERS AND STORMWATER DRAINS USING BMPS AND/OR TEMPORARY SUMPS ALLOWING IT TO PERCOLATE INTO PERMEABLE SOILS.

84. CONSTRUCTION WILL BE PHASED SO THAT THE ACREAGE OF EXPOSED SOILS AT ANY GIVEN TIME IS MINIMIZED UNTIL TEMPORARY INTERIM BMPS CAN BE IMPLEMENTED (VEHICLE TRACKING, SURFACE ROUGHENING, MULCHING).

85. SOILS WILL BE STABILIZED AS QUICKLY AS POSSIBLE THROUGH IMMEDIATE PLANTINGS OF SEED, FOLLOWED BY MULCH AND TACKIFIER ONCE AN AREA HAS BEEN FINISH GRADED.

86. PUMPING AND DISCHARGE OF WATER FROM DEWATERING OPERATIONS MAY REQUIRE A DISCHARGE PERMIT FROM THE CDPHE WATER QUALITY CONTROL DIVISION. DISCHARGE PERMITS OR ALTERNATE ARRANGEMENTS FOR WATER MANAGEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR (SEE STANDARD SPECIFICATION 107.25(B) 6). APPLICABLE CONDITIONS FOR THE DISCHARGE INCLUDING MONITORING AND REPORTING SHALL BE INCLUDED IN THE COST OF THE WORK AND SHALL NOT BE COMPENSATED SEPARATELY.

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**PRELIMINARY - NOT FOR CONSTRUCTION**



SUMMARY OF APPROXIMATE QUANTITIES - PACKAGE 1

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	REMOVAL TOTALS		ROADWAY TOTALS		DRAINAGE TOTALS		TRAFFIC TOTALS		EROSION CONTROL		LIGHTING TOTALS		UTILITY TOTALS		MISCELLANEOUS		PROJECT TOTALS		
			PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	
420-00132	GEOTEXTILE (SEPARATOR) (CLASS 1)	SY			2,589		1,959													4,548	
503-00018	DRILLED SHAFT (18 INCH)	LF							20											20	
503-00036	DRILLED SHAFT (36 INCH)	LF							68											68	
504-08255	MASONRY LANDSCAPE WALL (DRY STACK)	SF			1,036															1,036	
506-00012	RIPRAP (SPECIAL)	EACH					1													1	
506-00212	RIPRAP (12 INCH)	CY					58													58	
506-00409	SOIL RIPRAP (9 INCH)	CY					532													532	
507-00000	CONCRETE SLOPE AND DITCH PAVING	CY			67															67	
514-00100	HAND RAIL	LF			200															200	
515-00122	WATERPROOFING (MEMBRANE)(SPECIAL)	SY					312													312	
601-03030	CONCRETE CLASS D (FOREBAY)	CY					26													26	
601-03030	CONCRETE CLASS D (TRICKLE CHANNEL)	CY					37													37	
601-03030	CONCRETE CLASS D (BOX CULVERT)	CY					204													204	
602-00000	REINFORCING STEEL	LB					40,200													40,200	
603-01185	18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					1,982													1,982	
603-01245	24 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					1,048													1,048	
603-01425	42 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					1,038													1,038	
603-01545	54 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					1,136													1,136	
603-01605	60 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF					1,553													1,553	
603-05021	24 INCH REINFORCED CONCRETE END SECTION	EACH					3													3	
603-05600	24 INCH CONCRETE VERTICAL BEND (PREFAB)	EACH					5													5	
603-05601	24 INCH X 42 INCH CONCRETE TEE (PREFAB)	EACH					1													1	
603-05602	18 INCH X 18 INCH CONCRETE TEE (PREFAB)	EACH					1													1	
604-00305	INLET TYPE C (5 FOOT)	EACH					1													1	
604-00310	INLET TYPE C (10 FOOT)	EACH					2													2	
604-00505	INLET TYPE D (5 FOOT)	EACH					4													4	
604-00510	INLET TYPE D (10 FOOT)	EACH					1													1	
604-19105	INLET TYPE R L 5 (5 FOOT)	EACH					10													10	
604-19110	INLET TYPE R L 5 (10 FOOT)	EACH					5													5	
604-19205	INLET TYPE R L 10 (5 FOOT)	EACH					9													9	
604-19210	INLET TYPE R L 10 (10 FOOT)	EACH					2													2	
604-19215	INLET TYPE R L 10 (15 FOOT)	EACH					1													1	
604-19305	INLET TYPE R L 15 (5 FOOT)	EACH					8													8	
604-19310	INLET TYPE R L 15 (10 FOOT)	EACH					5													5	
604-19505	INLET TYPE R L 20 (5 FOOT)	EACH					1													1	
604-20000	OUTLET STRUCTURE	EACH					1													1	
604-31010	MANHOLE BOX BASE (10 FOOT)	EACH					3													3	
604-31015	MANHOLE BOX BASE (15 FOOT)	EACH					18													18	
604-31020	MANHOLE BOX BASE (20 FOOT)	EACH					4													4	
604-31025	MANHOLE BOX BASE (25 FOOT)	EACH					2													2	
607-01000	FENCE BARBED WIRE WITH METAL POSTS	LF			5,063															5,063	
607-11525	FENCE (PLASTIC)	LF			5,982															5,982	
607-53136	FENCE CHAIN LINK (36 INCH)	LF			237															237	
607-60114	14 FOOT GATE	EACH			2															2	
608-00000	CONCRETE SIDEWALK	SY			4,263															4,263	

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 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:		MARKSHEFFEL ROAD SUMMARY OF APPROXIMATE QUANTITIES			
Revised:				Designer: JLS	Structure Numbers
Void:				Detailer: TAH	
		Sheet Subset: SOAQ	Subset Sheets: 2 of 4	Sheet Number	

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**SUMMARY OF APPROXIMATE QUANTITIES - PACKAGE 1**

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	REMOVAL TOTALS		ROADWAY TOTALS		DRAINAGE TOTALS		TRAFFIC TOTALS		EROSION CONTROL		LIGHTING TOTALS		UTILITY TOTALS		MISCELLANEOUS		PROJECT TOTALS	
			PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST.
608-00010	CONCRETE CURB RAMP	SY			174														174	
608-00022	CONCRETE BIKEWAY (6 INCH)	SY			5,580														5,580	
609-20010	CURB TYPE 2 (SECTION B)	LF			156														156	
609-21010	CURB AND GUTTER TYPE 2 (SECTION I-B)	LF			8,976														8,976	
609-21020	CURB AND GUTTER TYPE 2 (SECTION II-B)	LF			13,140														13,140	
610-00030	MEDIAN COVER MATERIAL (PATTERNED CONCRETE)	SF			44,296														44,296	
610-00031	PLOWABLE MEDIAN NOSE	EACH			5														5	
612-00001	DELINEATOR (TYPE I)	EACH			13														13	
612-00003	DELINEATOR (TYPE III)	EACH			4														4	
613-00200	2 INCH ELECTRICAL CONDUIT	LF							690										690	
613-00206	2 INCH ELECTRICAL CONDUIT (BORED)	LF							1,130										1,130	
613-00300	3 INCH ELECTRICAL CONDUIT	LF							465										465	
613-00306	3 INCH ELECTRICAL CONDUIT (BORED)	LF							875										875	
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF											880						880	
613-07002	TYPE TWO PULL BOX	EACH											6						6	
613-07003	TYPE THREE PULL BOX	EACH							4										4	
613-07004	TYPE FOUR PULL BOX	EACH							1										1	
613-10000	WIRING	LS							1										1	
613-13000	LUMINAIRE (LED)	EACH							4				12						16	
613-40010	LIGHT STANDARD FOUNDATION	EACH											6						6	
613-50150	SECONDARY SERVICE PEDESTAL	EACH							1										1	
614-00011	SIGN PANEL (CLASS I)	SF							712										712	
614-00216	STEEL SIGN POST (2X2 INCH TUBING)	LF							594										594	
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EACH							8										8	
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH							26										26	
614-72860	PEDESTRIAN PUSH BUTTON	EACH							8										8	
614-72886	INTERSECTION DETECTION SYSTEM (CAMERA)	EACH							4										4	
614-75848	TRAFFIC SIGNAL CONTROLLER AND CABINET (INSTALL ONLY)	EACH							1										1	
614-81165	TRAFFIC SIGNAL-LIGHT POLE STEEL (1-65 FOOT MAST ARM)	EACH							4										4	
614-84000	TRAFFIC SIGNAL PEDESTAL POLE STEEL	EACH							4										4	
614-86106	TELEMETRY (FIELD)(INSTALL ONLY)	EACH							1										1	
620-00001	FIELD OFFICE (CLASS 1)	EACH															1		1	
621-00450	DETOUR PAVEMENT	SY			4,614														4,614	
625-00000	CONSTRUCTION SURVEYING	LS															1		1	
625-00001	CONSTRUCTION SURVEYING (HOURLY)	HOURLY															100		100	
626-00000	MOBILIZATION	LS															1		1	
626-01103	PUBLIC INFORMATION SERVICES (TIER III)	LS															1		1	
627-00008	MODIFIED EPOXY PAVEMENT MARKING	GAL							155										155	
627-00013	PAVEMENT MARKING PAINT (HIGH BUILD)(TEMPORARY)	GAL															490		490	
627-30405	PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD- SYMBOL)	SF							1,012										1,012	
627-30410	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOP LINE)	SF							2,941										2,941	
629-01001	SURVEY MONUMENT (TYPE 1)	EACH															23		23	
630-00000	FLAGGING	HOURLY															2,000		2,000	
630-00007	TRAFFIC CONTROL INSPECTION	DAY															410		410	
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY															274		274	

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Horiz. Scale: 1:1      Vert. Scale:						Void:	Detailer: TAH				
Unit Information      Unit Leader							Sheet Subset: SOAQ	Subset Sheets: 3 of 4	Sheet Number		
<b>Project No./Code</b> PPRTA    10444											



**SUMMARY OF APPROXIMATE QUANTITIES - PACKAGE 1**

CONTRACT ITEM NO.	CONTRACT ITEM	UNIT	REMOVAL TOTALS		ROADWAY TOTALS		DRAINAGE TOTALS		TRAFFIC TOTALS		EROSION CONTROL		LIGHTING TOTALS		UTILITY TOTALS		MISCELLANEOUS		PROJECT TOTALS		
			PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST	PLAN	AS CONST.	
630-80335	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH																8		8	
630-80336	BARRICADE (TYPE 3 M-B) (TEMPORARY)	EACH																12		12	
630-80337	BARRICADE (TYPE 3 M-C) (TEMPORARY)	EACH																4		4	
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH																120		120	
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH																120		120	
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH																4		4	
630-80356	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (A TYPE)	EACH																4		4	
630-80360	DRUM CHANNELIZING DEVICE	EACH																300		300	
630-80363	DRUM CHANNELIZING DEVICE (WITH LIGHT) (FLASHING)	EACH																20		20	
630-80370	CONCRETE BARRIER (TEMPORARY)	LF																6,501		6,501	
630-80380	TRAFFIC CONE	EACH																300		300	
630-80384	TUBULAR MARKER	EACH																100		100	
630-80403	DELINEATOR (TYPE III) (TEMPORARY)	EACH																100		100	
630-85115	IMPACT ATTENUATOR (QUADGUARD) (TEMPORARY)	EACH																8		8	
630-86801	TRAFFIC SIGNAL (TEMPORARY)(RESET)	LS																1		1	
700-70010	F/A MINOR CONTRACT REVISIONS	FA																1		1	
700-70380	F/A EROSION CONTROL	FA																1		1	
700-7XXXX	F/A UNSUITABLE MATERIAL	FA																1		1	
700-7XXXX	F/A TEMPORARY SEEDING	FA																1		1	
700-7XXXX	F/A DAMAGE TO TRAFFIC CONTROL DEVICES	FA																1		1	
700-7XXXX	F/A ECONOMIC ADJUSTMENT	FA																1		1	
700-7XXXX	F/A ROADWAY MAINTENANCE AND REPAIRS	FA																1		1	

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**COLORADO SPRINGS**  
OLYMPIC CITY USA



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Sheet Subset: SOAQ		Subset Sheets: 4 of 4	Sheet Number

TABULATION OF REMOVALS																									
LOCATION			201-00001	202-00010		202-00035		202-00042		202-00190		202-00200		202-00203		202-00220		202-00222		202-00240		202-01000		202-05026	
			CLEARING AND GRUBBING	REMOVAL OF TREE		REMOVAL OF PIPE		REMOVAL OF ELECTRICAL CONDUIT		REMOVAL OF CONCRETE MEDIAN COVER MATERIAL		REMOVAL OF SIDEWALK		REMOVAL OF CURB AND GUTTER		REMOVAL OF ASPHALT MAT		REMOVAL OF DETOUR PAVEMENT		REMOVAL OF ASPHALT MAT (PLANING)		REMOVAL OF FENCE		SAWING ASPHALT MATERIAL (6 INCH)	
			ACRE		EACH		LF		LS		SY		SY		LF		SY		SY		SY		LF		LF
PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
331+00	TO	340+00	4.6							0	0	179		6501		1534						2800		77	
340+00	TO	354+00	10.4							0	35	337		7682										41	
354+00	TO	368+00	5.6							0	44	269		8663										29	
368+00	TO	382+00	18.1			1154				0	0	0		7786										0	
382+00	TO	388+05	1.3							0	0	0		1599										48	
26+40	TO	34+50	0.7							362	282	2833		5140		214		4910						93	
<b>TOTAL</b>			<b>40.7</b>		<b>13</b>	<b>1154</b>		<b>1</b>		<b>362</b>	<b>361</b>	<b>3618</b>		<b>37371</b>		<b>1748</b>		<b>4910</b>		<b>2800</b>		<b>288</b>			
<b>QUANTITY RECONCILIATION</b>																									

NOTES: 1. SEE TRAFFIC TABS FOR ADDITIONAL REMOVAL QUANTITIES.  
 2. SEE DRAINAGE TABS FOR ADDITIONAL REMOVAL QUANTITIES.  
 3. SEE LIGHTING TABS FOR ADDITIONAL REMOVAL QUANTITIES.

TABULATION OF ROADWAY ITEMS																							
LOCATION			207-00205	504-08255		507-00000		514-00100		607-01000		607-11525		607-53136		607-60114		608-00000		608-00010		608-00022	
			TOPSOIL (4 INCH)	MASONRY LANDSCAPE WALL (DRY STACK)		CONCRETE SLOPE AND DITCH PAVING		HAND RAIL		FENCE BARBED WIRE WITH METAL POSTS		FENCE (PLASTIC)		FENCE CHAIN LINK (36 INCH)		14 FOOT GATE		CONCRETE SIDEWALK		CONCRETE CURB RAMP		CONCRETE BIKEWAY (6 INCH)	
			CY		SF		CY		LF		LF		LF		LF		EACH		SY		SY		SY
PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
331+00	TO	340+00	1996			59				884								600				982	
340+00	TO	354+00	4255							1340				111		2		997		51		1440	
354+00	TO	368+00	1902							1298								964		51		1468	
368+00	TO	382+00	7838		1036	8		200		1242				126				974		72		1356	
382+00	TO	388+05	258							300								200				333	
26+40	TO	34+50	199															527					
<b>TOTALS</b>			<b>16449</b>		<b>1036</b>	<b>67</b>		<b>200</b>		<b>5063</b>	<b>5982</b>		<b>237</b>		<b>2</b>		<b>4263</b>		<b>174</b>		<b>5580</b>		
<b>QUANTITY RECONCILIATION</b>																							

NOTES: 1. ABC (CLASS 6) IS 4" THICK UNDER CONCRETE SIDEWALK, CONCRETE BIKEWAY, CONCRETE CURB RAMP, AND CURB AND GUTTER AND INCIDENTAL TO EACH ITEM. SEE HMA TABULATION FOR ABC QUANTITIES.

TABULATION OF ROADWAY ITEMS - CONTINUATION																	
LOCATION			609-20010	609-21010		609-21020		610-00030		610-00031		612-00001		612-00003		621-00450	
			CURB TYPE 2 (SECTION B)	CURB AND GUTTER TYPE 2 (SECTION I-B)		CURB AND GUTTER TYPE 2 (SECTION II-B) <sup>(2)</sup>		MEDIAN COVER MATERIAL (PATTERNED CONCRETE)		PLOWABLE MEDIAN NOSE		DELINEATOR (TYPE I)		DELINEATOR (TYPE III)		DETOUR PAVEMENT	
			LF		LF		LF		SF		EACH		EACH		EACH		SY
PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
331+00	TO	340+00		1800		1800						2				1534	
340+00	TO	354+00		2501		3455		13032				7					
354+00	TO	368+00		734		3392		12383				4					
368+00	TO	382+00	156	1777		3100		11061		2			4		2618		
382+00	TO	388+05		585		615		4462									
26+40	TO	34+50		1579		779		3359		3					462		
<b>TOTALS</b>			<b>156</b>	<b>8976</b>		<b>13140</b>		<b>44296</b>		<b>5</b>	<b>13</b>		<b>4</b>		<b>4614</b>		
<b>QUANTITY RECONCILIATION</b>																	

NOTES: 1. ABC (CLASS 6) IS 4" THICK UNDER CONCRETE SIDEWALK AND CURB AND GUTTER AND INCIDENTAL TO EACH ITEM. SEE HMA TABULATION FOR ABC QUANTITIES.  
 2. CURB AND GUTTER TRANSITIONS INCLUDED IN CURB AND GUTTER TYPE 2 (SECTION II-B).

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Print Date: 1/5/2024	0000	Sheet Revisions			  	MARKSHEFFEL ROAD TABULATIONS		
File Name: PI-18300DES_TABS_01.dgn		Date:	Comments	Init.		No Revisions:	Designer: JLS	Structure Numbers:
Horiz. Scale: 1:1      Vert. Scale:						Revised:	Detailer: TAH	
Unit Information      Unit Leader						Void:	Sheet Subset: TABS	Subset Sheets: 1 of 4
Project No./Code    PPRTA 10444						Sheet Number		

SUMMARY OF EARTHWORK QUANTITIES	
<b>203-00060 EMBANKMENT (COMPLETE IN PLACE)</b>	
	<b>CUBIC YARDS</b>
BARNES	15
MARKSHEFFEL PACKAGE 1 (331+00 TO 385+00)	118,279
POND 3	6,571
REQUIRED 3' COVER - CHEROKEE WATERLINE INCLUDED IN PACKAGE 1	-
KINDER MORGAN ACCESS	2,015
<b>TOTAL EMBANKMENT MATERIAL (COMPLETE IN PLACE)</b>	<b>124,865</b>
<b>FOR INFORMATION ONLY</b>	
<b>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)</b>	
	<b>CUBIC YARDS</b>
BARNES	9,297
INCLUDE BARNES INTERSECTION	
MARKSHEFFEL PACKAGE 1	51,008
INCLUDES CIG ACCESS, ZIRCON, GRAPHITE	
STRUCTURE EXCAVATION (10X6 CBC, DUAL 4X3 CBC'S)	631
PAY ITEM INCLUDED IN DRAINAGE PIPE (CIP) ITEMS	
POND 3	8,307
REQUIRED EXCAVATION - CHEROKEE WATERLINE PAY ITEM INCLUDED IN WATERLINE PIPE (CIP) ITEMS	-
KINDER MORGAN ACCESS	6
<b>TOTAL EXCAVATION MATERIAL</b>	<b>69,243</b>
<b>203-00050 UNSUITABLE MATERIAL</b>	<b>500</b>
<b>FOR INFORMATION ONLY - EARTHWORK QUANTITIES BALANCE</b>	
<b>MATERIAL NEEDED FOR EMBANKMENT (FILL)</b>	
	<b>CUBIC YARDS</b>
EMBANKMENT MATERIAL	124,865
COMPACTION FACTOR = 1.15	
<b>TOTAL ADJUSTED EMBANKMENT MATERIAL (COMPLETE IN PLACE)</b>	<b>143,595</b>
<b>MATERIAL PRODUCED BY EXCAVATION (CUT)</b>	
	<b>CUBIC YARDS</b>
EXCAVATION MATERIAL	69,243
<b>EMBANKMENT (NET) COMPACTED</b>	
TOTAL ADJUSTED EMBANKMENT MATERIAL	143,595
TOTAL EXCAVATION MATERIAL	69,243
<b>BALANCE</b>	
<b>TOTAL EMBANKMENT MATERIAL IMPORT FOR PACKAGE 1</b>	<b>74,352</b>

NOTES:  
1. THE CORRIDOR REPORT EARTHWORK CALCULATIONS ARE CALCULATED FROM INROADS SS2.

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Print Date: 1/5/2024 File Name: P1-18300DES_TABS_02.dgn Horiz. Scale: 1:1      Vert. Scale: Unit Information      Unit Leader <b>Project No./Code</b> PPRTA    10444	0000	<b>Sheet Revisions</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Date:</th> <th style="width: 55%;">Comments</th> <th style="width: 30%;">Init.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date:	Comments	Init.													   <p style="font-size: small;">5755 Mark Dabling Blvd. Suite 220 Colorado Springs, CO 80919 Phone: 719-520-5800 Fax: 719-520-0108</p>	No Revisions:  Revised:  Void:	<b>MARKSHEFFEL ROAD TABULATIONS</b>  Designer: JLS    Structure Detailer:    TAH    Numbers Sheet Subset:    TABS    Subset Sheets: 2    of    4	Sheet Number
Date:	Comments	Init.																			

TABULATION OF PAVING																						
PAY ITEM			304-06007		304-09006		403-00720		403-33741		403-33742		403-33644		403-34741		FOR INFORMATION ONLY		412-00800		420-00132	
LOCATION			AGGREGATE BASE COURSE (CLASS 6)		AGGREGATE BASE COURSE (SPECIAL)		HOT MIX ASPHALT (PATCHING) (ASPHALT) <sup>(1)</sup>		HOT MIX ASPHALT (GRADING S) (75) (PG 64-22)		HOT MIX ASPHALT (GRADING S)(75)(PG 64-22)		HOT MIX ASPHALT (GRADING SX) (75) (PG 64-22)		HOT MIX ASPHALT (GRADING SX) (75) (PG 64-22)		EMULSIFIED ASPHALT (SLOW-SETTING) <sup>(2)</sup>		CONCRETE PAVEMENT (8 INCH)		GEOTEXTILE (SEPARATOR) (CLASS 1)	
									BOTTOM MAT ONLY				SAFETY EDGE <sup>(4)</sup>		TOP MAT ONLY						Full-Depth Pavement Section	
									5.0" THICK <sup>(3)</sup>		2.0" THICK											
Begin		End	CY		SY		TON		SY		SY		SY		GAL		SY		SY			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
331+00	TO	340+00	3011						7466		0				7466		373		36		2589	
340+00	TO	354+00	5359				50		13262		346				13608		680		365			
354+00	TO	368+00	5050		734		50		12177		139		46		12315		616		61			
368+00	TO	382+00	7467						19508		0				19508		975					
382+00	TO	388+05	1502						3911		0				3911		196					
26+40	TO	34+50	1575						3966						4512		226					
<b>TOTALS</b>			<b>23964</b>		<b>734</b>		<b>100</b>		<b>60291</b>		<b>485</b>		<b>46</b>		<b>61321</b>		<b>3066</b>		<b>462</b>		<b>2589</b>	
<b>QUANTITY RECONCILIATION</b>																						

- NOTES: 1. HMA UNIT WEIGHT IS ESTIMATED AT 146.7 LB/CF.  
2. EMULSIFIED ASPHALT IS APPLIED AT .05 GAL/SY (DILUTED) AND INCLUDED IN THE COST OF THE HMA (SY).  
3. THE FIRST LIFT OF HMA ASSUMES A 5% INCREASE IN VOLUME FOR BASE COURSE IRREGULARITIES.  
4. THE SAFETY EDGE IS MEASURED ALONG THE OUTSIDE EDGE OF SHOULDER.

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Unit Information      Unit Leader						Void:	Sheet Subset: TABS	Subset Sheets: 3 of 4
Project No./Code    PPRTA    10444						Sheet Number		

TABULATION OF MISCELLANEOUS ITEMS																			
LOCATION	203-01100		203-01500		203-01597		620-00001		625-00000		625-00001		626-00000		626-01103		627-00013		
	PROOF ROLLING		BLADING		POTHOLING		FIELD OFFICE (CLASS 1)		CONSTRUCTION SURVEYING		CONSTRUCTION SURVEYING (HOURLY)		MOBILIZATION		PUBLIC INFORMATION SERVICES (TIER III)		PAVEMENT MARKING PAINT (HIGH BUILD) (TEMPORARY)		
	HOUR		HOUR		HOUR		EACH		LS		HOUR		LS		LS		GAL		
	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
PROJECT TOTAL		80		80		200		1		1		100		1		1		490	
QUANTITY RECONCILIATION																			

TABULATION OF LIGHTING ITEMS				
ITEM NO.	ITEM DESCRIPTION	UNIT	PLAN	FINAL
202-00705	REMOVAL OF LIGHT STANDARD FOUNDATION	EACH	6	
210-00750	RESET LIGHT STANDARD	EACH	6	
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	880	
613-07002	TYPE TWO PULL BOX	EACH	6	
613-13000	LUMINAIRE (LED)	EACH	12	
613-40010	LIGHT STANDARD FOUNDATION	EACH	6	

TABULATION OF FORCE ACCOUNT ITEMS															
LOCATION	700-70010		700-70380		700-7XXXX		700-7XXXX		700-7XXXX		700-7XXXX		700-7XXXX		
	F/A MINOR CONTRACT REVISIONS		F/A EROSION CONTROL		F/A UNSUITABLE MATERIAL		F/A TEMPORARY SEEDING		F/A DAMAGE TO TRAFFIC CONTROL DEVICES		F/A ECONOMIC ADJUSTMENT		F/A ROADWAY MAINTENANCE AND REPAIRS		
	F A		F A		F A		F A		F A		F A		F A		
	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
PROJECT TOTAL		1		1		1		1		1		1		1	
QUANTITY RECONCILIATION															

TABULATION OF TRAFFIC CONTROL ITEMS																														
LOCATION	630-0000		630-00007		630-00012		630-80335		630-80336		630-80337		630-80341		630-80342		630-80355		630-80356		630-80360		630-80363		630-80370		630-80380			
	FLAGGING		TRAFFIC CONTROL INSPECTION		TRAFFIC CONTROL MANAGEMENT		BARRICADE (TYPE 3 M-A) (TEMPORARY)		BARRICADE (TYPE 3 M-B) (TEMPORARY)		BARRICADE (TYPE 3 M-C) (TEMPORARY)		CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)		CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)		PORTABLE MESSAGE SIGN PANEL		ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (A TYPE)		DRUM CHANNELIZING DEVICE		DRUM CHANNELIZING DEVICE (WITH LIGHT) (FLASHING)		CONCRETE BARRIER (TEMPORARY)		TRAFFIC CONE			
	HR		DAY		DAY		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		EACH		LF		EACH	
	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
PROJECT TOTAL		2000		410		274		8		12		4		120		120		4		4		300		20		6501		300		
QUANTITY RECONCILIATION																														

TABULATION OF TRAFFIC CONTROL ITEMS - CONTINUED									
LOCATION	630-80384		630-80403		630-85115		630-86801		
	TUBULAR MARKER		DELINEATOR (TYPE III) (TEMPORARY)		IMPACT ATTENUATOR (QUADGUARD) (TEMPORARY) (RESET)		TRAFFIC SIGNAL (TEMPORARY) (RESET)		
	EACH		EACH		EACH		LS		
	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	FINAL
PROJECT TOTAL		100		100		8		1	
QUANTITY RECONCILIATION									

TABULATION OF UTILITY ITEMS							
LOCATION	210-00050		210-04016		210-04025		
	RESET FIRE HYDRANT		MODIFY MANHOLE (SPECIAL)		MODIFY STRUCTURE		
	EACH		EACH		EACH		
	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	FINAL
331+00	TO	340+00					
340+00	TO	354+00		2			
354+00	TO	368+00					
368+00	TO	382+00	1			2	
382+00	TO	388+05					
TOTALS			1	2	2		
QUANTITY RECONCILIATION							

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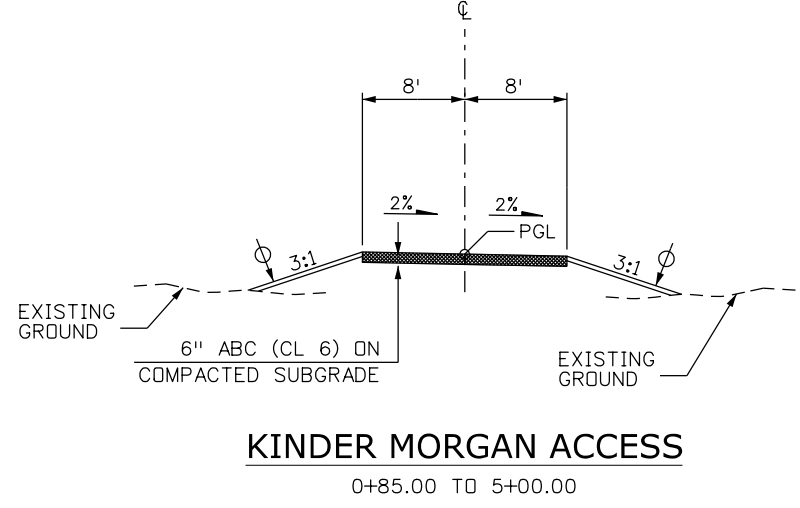
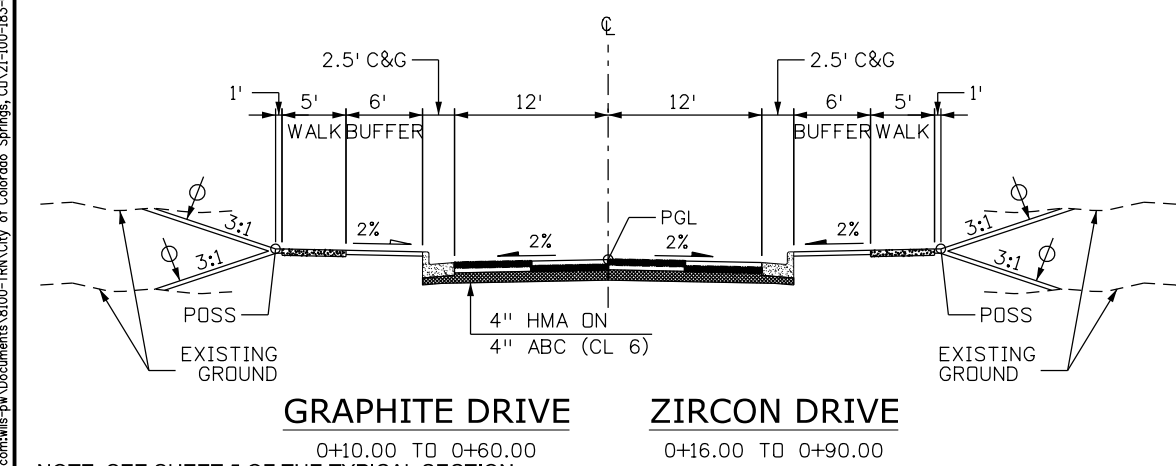
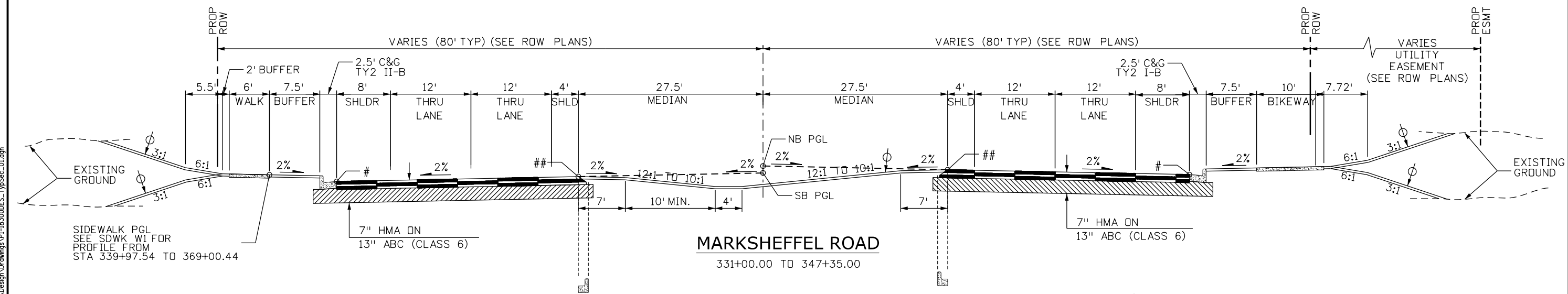
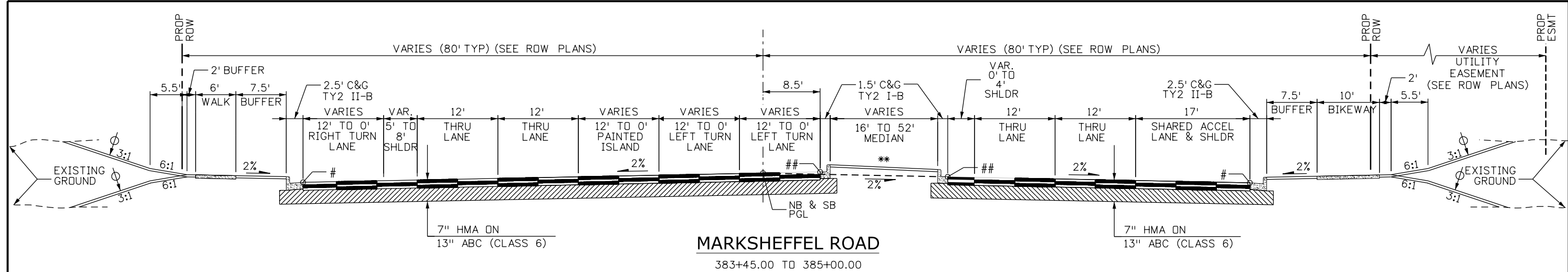
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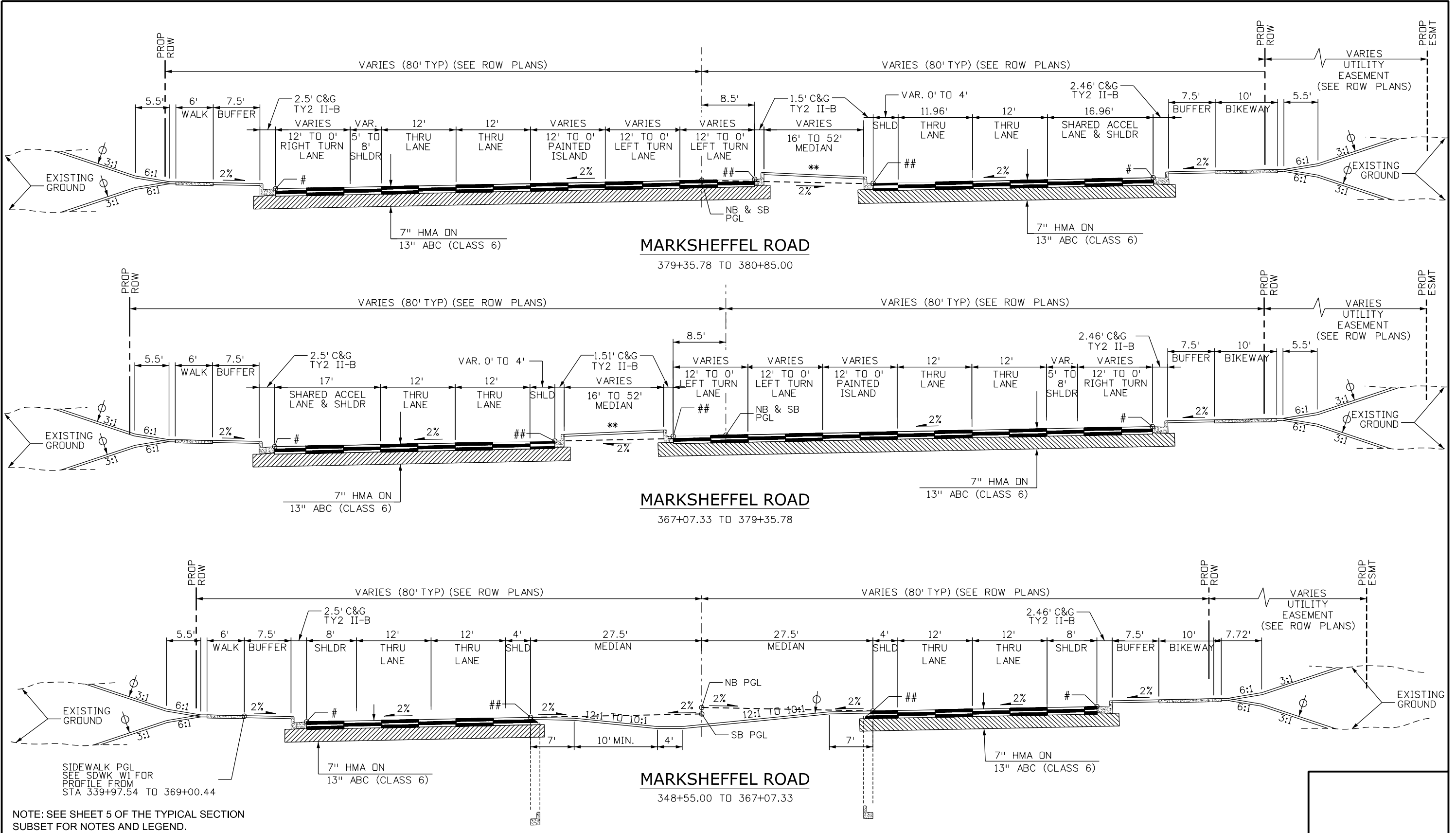
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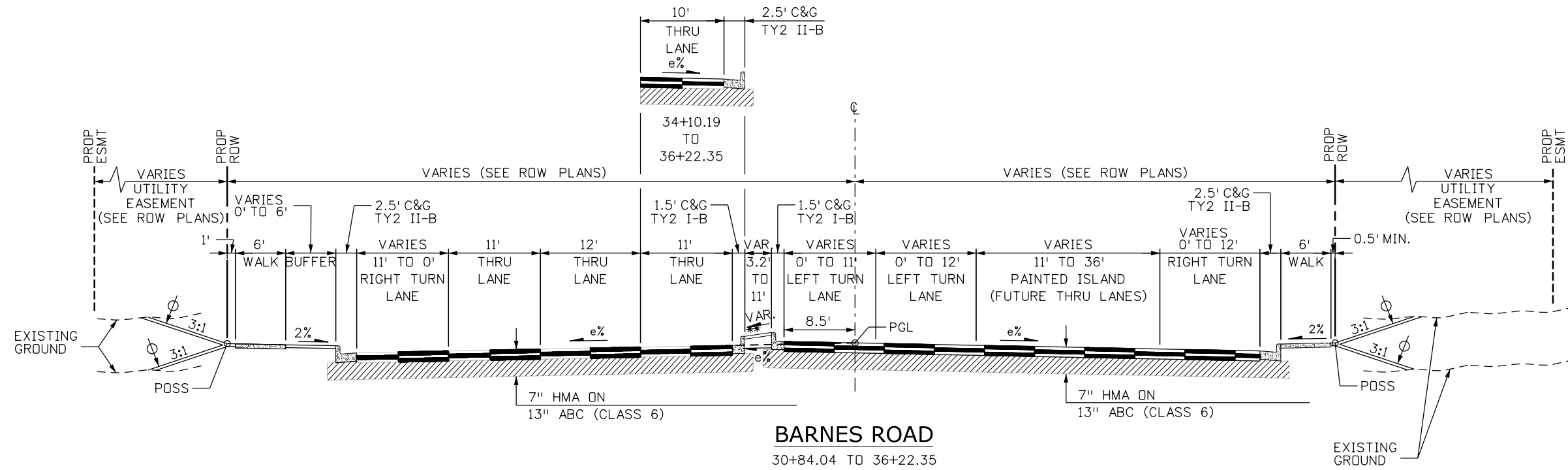
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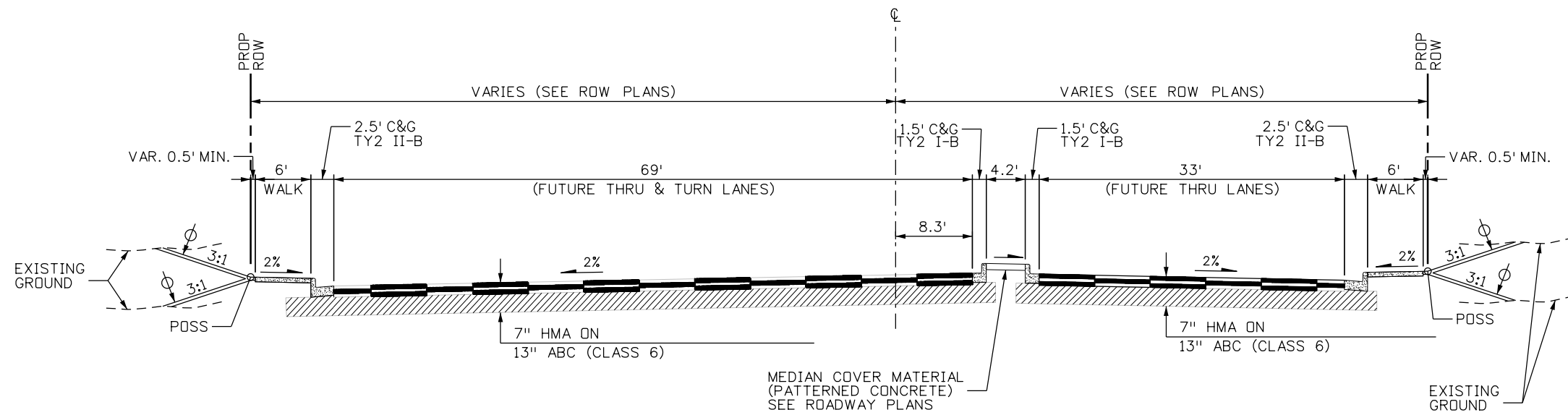
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Sheet Number	

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**BARNES ROAD**  
30+84.04 TO 36+22.35



MEDIAN COVER MATERIAL  
(PATTERNED CONCRETE)  
SEE ROADWAY PLANS  
**BARNES ROAD**  
36+22.35 TO 37+78.33

NOTE: SEE SHEET 5 OF THE TYPICAL SECTION  
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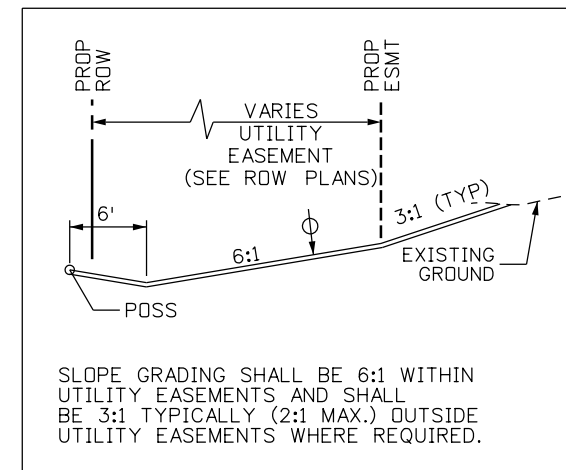
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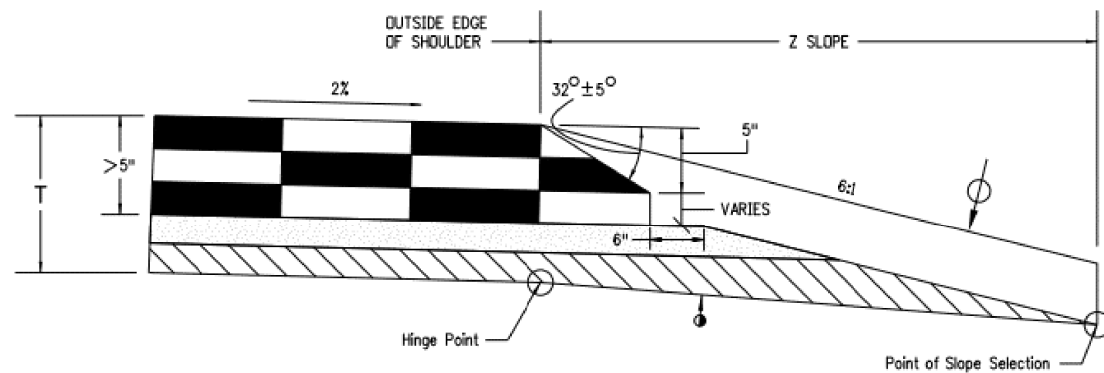


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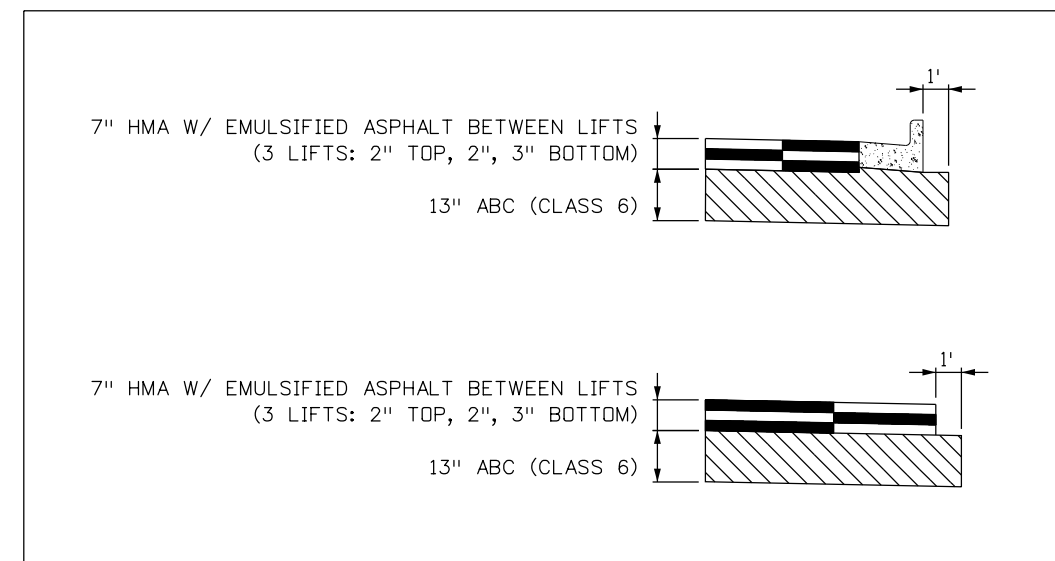
- \* SEE UTILITY EASEMENT GRADING DETAIL
- \*\* SEE ROADWAY AND DRAINAGE PLANS FOR EXTENTS OF MEDIAN COVER MATERIAL (RANDOM ROCK, SAN DIEGO BUFF), CURB & GUTTER, AND MEDIAN DITCHES.
- ⊕ THE CONTRACTOR SHALL PLACE TOPSOIL TO THIS LINE AFTER COMPLETION OF PAVING OPERATIONS. THICKNESS OF TOPSOIL SHALL BE 4 INCHES. TOPSOIL SHALL BE SEEDED AND MULCHED ACCORDING TO THE SPECIFICATIONS.
- POSS POINT OF SLOPE SELECTION
- e% ROADWAY CROSS SLOPE. SEE ROADWAY ELEVATIONS ON PROFILE SHEETS
- # SEE OUTSIDE EDGE OF PAVEMENT ELEVATIONS ON PROFILE SHEETS
- ## SEE INSIDE EDGE OF PAVEMENT PROFILE



**UTILITY EASEMENT GRADING**



**SAFETY EDGE DETAIL FOR HOT MIX ASPHALT PAVEMENT GREATER THAN 5 INCHES**



**PAVING DETAILS**

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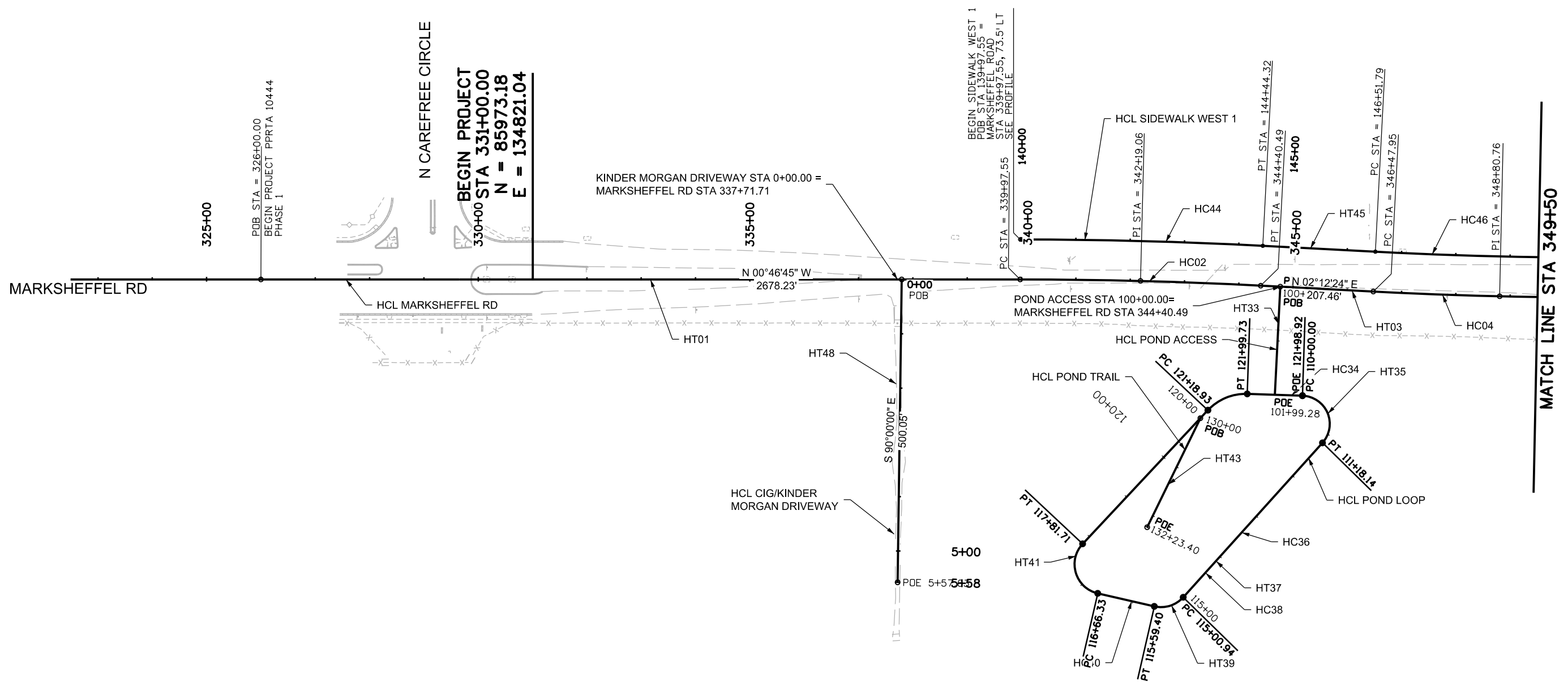
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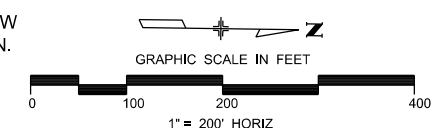
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Know what's below.  
Call before you dig.



NOTES:  
 SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.  
 SEE GEOMETRIC LAYOUT SHEETS 4 FOR MORE INFORMATION.



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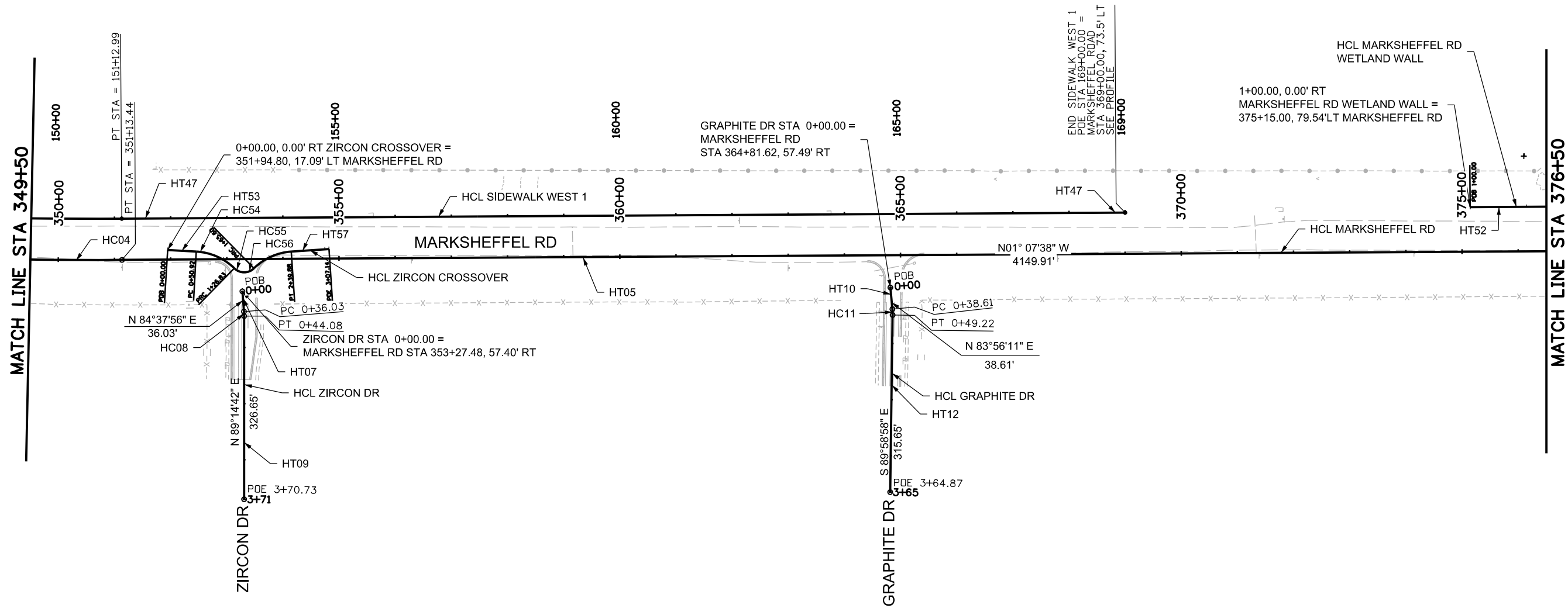
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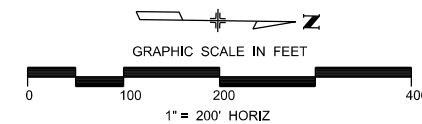


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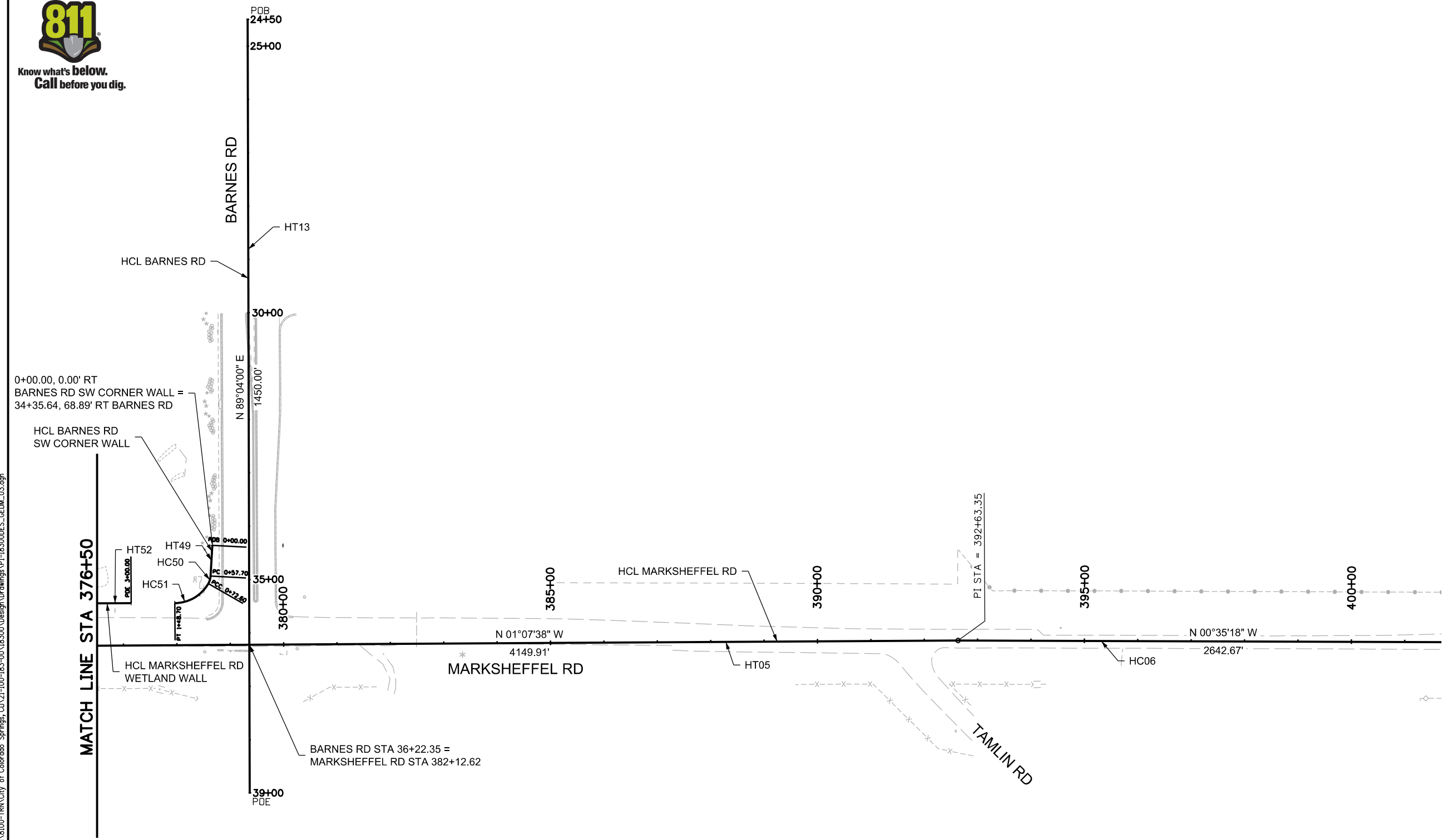
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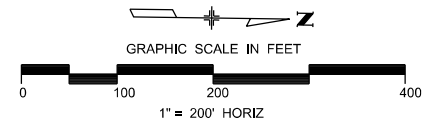


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NOTES:  
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SEE GEOMETRIC LAYOUT SHEETS 4 FOR MORE INFORMATION.



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Detailer:	TAH	Numbers	
Sheet Subset:	GEOM	Subset Sheets: 3	of 5

Sheet Number
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**MARKSHEFFEL ROAD**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT01	POB	313+19.31	84192.62	134845.26	N 0°46'45" W		2678.23	
	PC	339+97.54	86870.60	134808.84				
HC02	PC	339+97.54	86870.60	134808.84		8500.00	442.94	2°59'09" Right
	PI	342+19.06	87092.10	134805.82				
	PT	344+40.49	87313.46	134814.35				
HT03	PT	344+40.49	87313.46	134814.35	N 2°12'24" E		207.46	
	PC	346+47.95	87520.77	134822.34				
HC04	PC	346+47.95	87520.77	134822.34		8000.00	465.48	3°20'02" Left
	PI	348+80.76	87753.40	134831.30				
	PT	351+13.43	87986.16	134826.72				
HT05	PT	351+13.43	87986.16	134826.72	N 1°07'38" W		4149.91	
	PI	392+63.34	92135.27	134745.09				
HT06	PI	392+63.34	92135.27	134745.09	N 0°35'18" W		2642.67	
	POE	419+06.01	94777.80	134717.95				

**ZIRCON DRIVE**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT07	POB	+00	88201.30	134879.90	N 84°37'56" E		36.03	
	PC	+36.03	88205.05	134915.77				
HC08	PC	+36.03	88204.67	134915.77		100.00	8.05	4°36'46" Right
	PI	+40.06	88205.05	134919.78				
	PT	+44.08	88205.10	134923.81				
HT09	PT	+44.08	88205.10	134923.81	N 89°14'42" E		326.65	
	POE	3+70.73	88209.40	135250.43				

**GRAPHITE DRIVE**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT10	POB	+00.00	89355.22	134857.29	N 83°56'11" E		38.61	
	PC	+38.61	89359.30	134895.68				
HC11	PC	+38.61	89359.30	134895.68		100.00	10.61	6°04'52" Right
	PI	+43.92	89359.86	134900.96				
	PT	+49.22	89359.86	134906.27				
HT12	PT	+49.22	89359.86	134906.27	S 89°58'58" E		315.65	
	POE	3+64.87	89359.77	135221.92				

**BARNES ROAD**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HC13	POB	24+50.00	90788.87	133599.01	N 89°04'00" E		1450.00	
	POE	39+00.00	90812.49	135048.81				

**POND ACCESS**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT33	POB	100+00.00	87349.53	134815.74	S 87°54'12" E		199.28	
	POE	101+99.28	87342.24	135014.89				

**POND LOOP**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HC34	POB/PC	110+00.00	87392.99	135015.85		52.00	118.14	130°10'00" Right
	PI	111+11.94	87504.91	135017.99				
	PT	111+18.14	87431.09	135102.14				
HT35	PT	111+18.14	87431.09	135102.14	S 48°44'29" E		382.81	
	PC	115+00.94	87178.65	135389.91				
HC36	PC	115+00.94	87178.65	135389.91		55.00	58.46	60°53'51" Right
	PI	115+33.27	87157.33	135414.21				
	PT	115+59.40	87125.72	135407.41				
HT37	PT	115+59.40	87125.72	135407.41	S 12°09'21" W		106.93	
	PC	116+66.33	87021.19	135384.89				
HC38	PC	116+66.33	87021.19	135384.89		55.00	115.39	120°12'15" Right
	PI	117+61.98	86927.68	135364.75				
	PT	117+81.71	86992.13	135294.06				
HT39	PT	117+81.71	86992.13	135294.06	N 47°38'23" W		337.21	
	PC	121+18.93	87219.34	135044.89				
HC40	PC	121+18.93	87219.34	135044.89		95.00	80.80	48°43'53" Right
	PI	121+61.95	87248.33	135013.10				
	PT	121+99.73	87291.35	135013.92				
HT41	PT	121+99.73	87291.35	135013.92	N 1°05'30" E		101.66	
	POE/PC	123+01.39	87392.99	135015.85				

**POND TRAIL**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT43	POB	130+00.00	87205.72	135059.83	S 64°46'24" E		223.40	
	POE	132+23.40	87110.51	135261.92				

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Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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Suite 220  
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Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:	<b>MARKSHEFFEL ROAD GEOMETRIC LAYOUT</b>	
Revised:		
Void:	Designer: JLS	Structure Numbers
	Detailer: TAH	
	Sheet Subset: GEOM	Subset Sheets: 4 of 5
	Sheet Number	

**SDWK W1**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HC44	POB/PC	139+97.55	86869.60	134735.34		8573.50	446.77	2°59'09" Right
	PI	142+20.99	87093.02	134732.30				
	PT	144+44.32	87316.29	134740.91				
HT45	PT	144+44.32	87316.29	134740.91	N 2°12'24" E		207.46	
	PC	146+51.79	87523.60	134748.89				
HC46	PC	146+51.79	87523.60	134748.89		7926.50	461.21	3°20'02" Left
	PI	148+82.45	87754.09	134757.78				
	PT	151+12.99	87984.72	134753.24				
HT47	PT	151+12.99	87984.72	134753.24	N 1°07'38" W		1787.01	
	POE	169+00.00	89771.38	134718.08				

**KINDER MORGAN ACCESS**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT48	POB	0+00.00	86652.62	134811.91	S 90°00'00" E		557.63	
	POE	5+57.63	86652.62	135369.54				

**BARNES SW CORNER WALL**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT49	POB	0+00.00	90736.04	134585.63	S 87°34'54" E		57.70	
	PC	0+57.70	90733.61	134643.28				
HC50	PC	0+57.70	90733.61	134643.28		32.00	14.89	26°40'01" Right
	PI	0+65.29	90733.20	134650.86				
	PCC	0+72.60	90729.60	134657.49				
HC51	PCC	0+72.60	90729.60	134657.49		72.93	76.10	59°47'15" Right
	PI	1+14.52	90709.22	134694.13				
	POE/PT	1+48.70	90667.30	134694.95				

**MARKSHEFFEL WETLAND WALL**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT52	POB	1+00.00	90385.70	134699.96	N 1°06'40" W		200.00	
	POE	3+00.00	90585.66	134696.08				

**ZIRCON CROSSOVER**

ITEM	DESCRIPTION	STATION	NORTHING	EASTING	BEARING	RADIUS	LENGTH	DELTA
HT53	POB	0+00.00	88067.18	134808.03	N 2°13'44" E		50.92	
	PC	0+50.92	88118.06	134810.01				
HC54	PC	0+50.92	88118.06	134810.01		105.00	75.91	41°25'26" Right
	PI	0+90.62	88157.73	134811.56				
	PRC	1+26.83	88186.45	134838.96				
HC55	PRC	1+26.83	88186.45	134838.96		25.00	38.77	88°51'14" Left
	PI	1+51.33	88204.18	134855.88				
	PRC	1+65.60	88221.45	134838.49				
HC56	PRC	1+65.60	88221.45	134838.49		105.00	74.28	40°31'55" Right
	PI	2+04.37	88248.77	134810.98				
	PT	2+39.88	88287.41	134807.82				
HT57	PT	2+39.88	88287.41	134807.82	N 4°40'09" W		67.26	
	POE/PC	3+07.14	88354.45	134802.35				

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Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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FAX: 719-520-0108

No Revisions:	<b>MARKSHEFFEL ROAD GEOMETRIC LAYOUT</b>	
Revised:		
Void:	Designer: JLS	Structure Numbers
	Detailer: TAH	
	Sheet Subset: GEOM	Subset Sheets: 5 of 5
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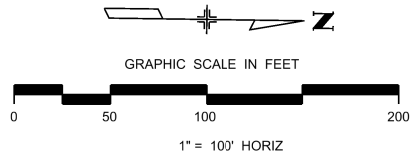
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**02\_Removals**  
**Will follow this page.**



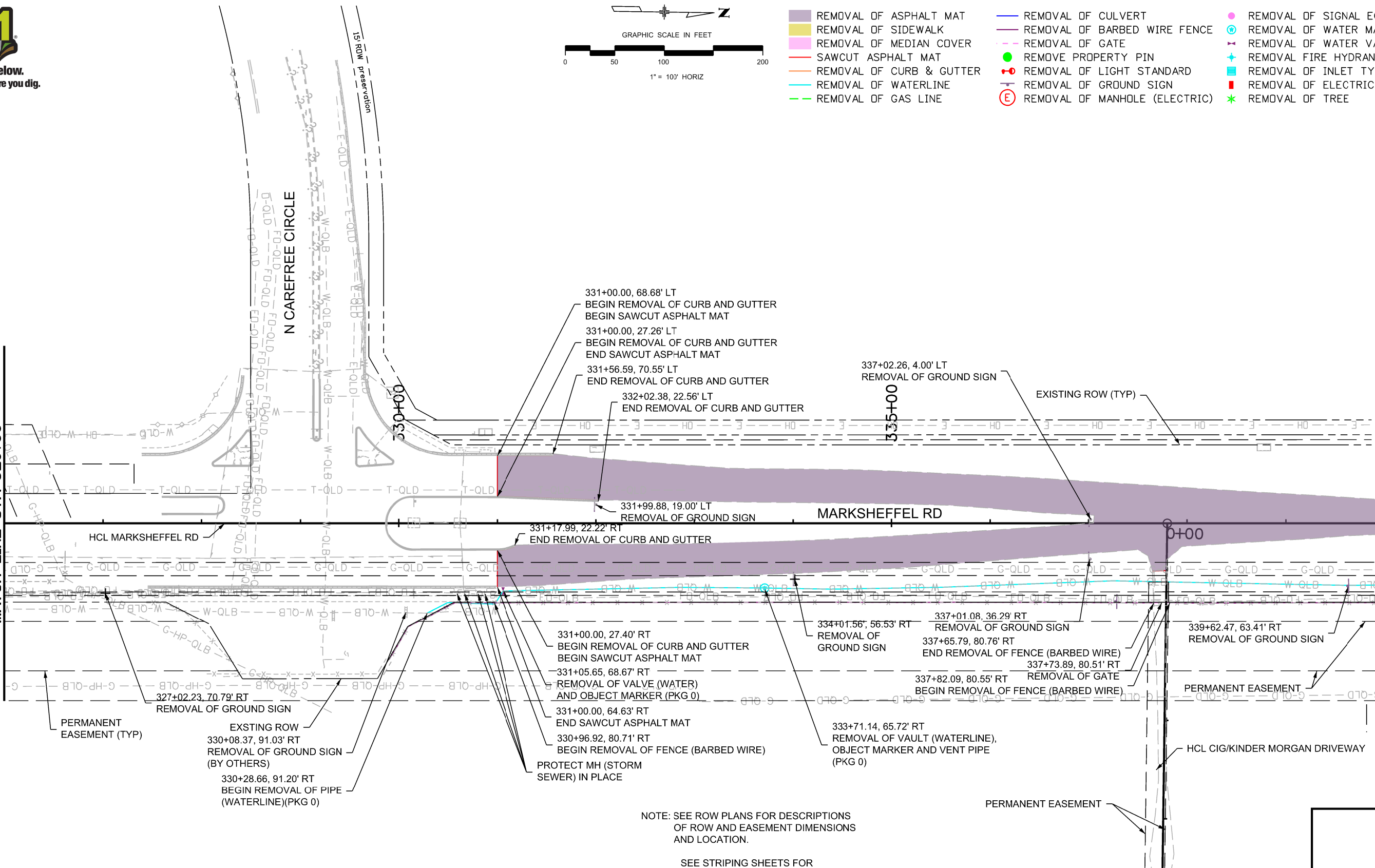
Know what's below.  
Call before you dig.



- REMOVAL OF ASPHALT MAT
- REMOVAL OF SIDEWALK
- REMOVAL OF MEDIAN COVER
- SAWCUT ASPHALT MAT
- REMOVAL OF CURB & GUTTER
- REMOVAL OF WATERLINE
- REMOVAL OF GAS LINE
- REMOVAL OF CULVERT
- REMOVAL OF BARBED WIRE FENCE
- REMOVAL OF GATE
- REMOVE PROPERTY PIN
- REMOVAL OF LIGHT STANDARD
- REMOVAL OF GROUND SIGN
- REMOVAL OF MANHOLE (ELECTRIC)
- REMOVAL OF SIGNAL EQUIPMENT
- REMOVAL OF WATER MANHOLE/VAULT
- REMOVAL OF WATER VALVE
- REMOVAL FIRE HYDRANT
- REMOVAL OF INLET TYPE C
- REMOVAL OF ELECTRIC VAULT
- REMOVAL OF TREE

BEGIN PACKAGE ONE  
MATCH LINE STA 326+00

MATCH LINE STA 340+00



NOTE: SEE ROW PLANS FOR DESCRIPTIONS  
OF ROW AND EASEMENT DIMENSIONS  
AND LOCATION.

SEE STRIPING SHEETS FOR  
ADDITIONAL REMOVALS

Print Date: 1/5/2024
File Name: P1-18300DES_Removal_01.dgn
Horiz. Scale: 1:100      Vert. Scale:
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Project No./Code    PPRTA    10444

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Revised:
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MARKSHEFFEL ROAD REMOVAL PLAN			
Designer:	JLS	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	REM	Subset Sheets: 1	of 6

Sheet Number
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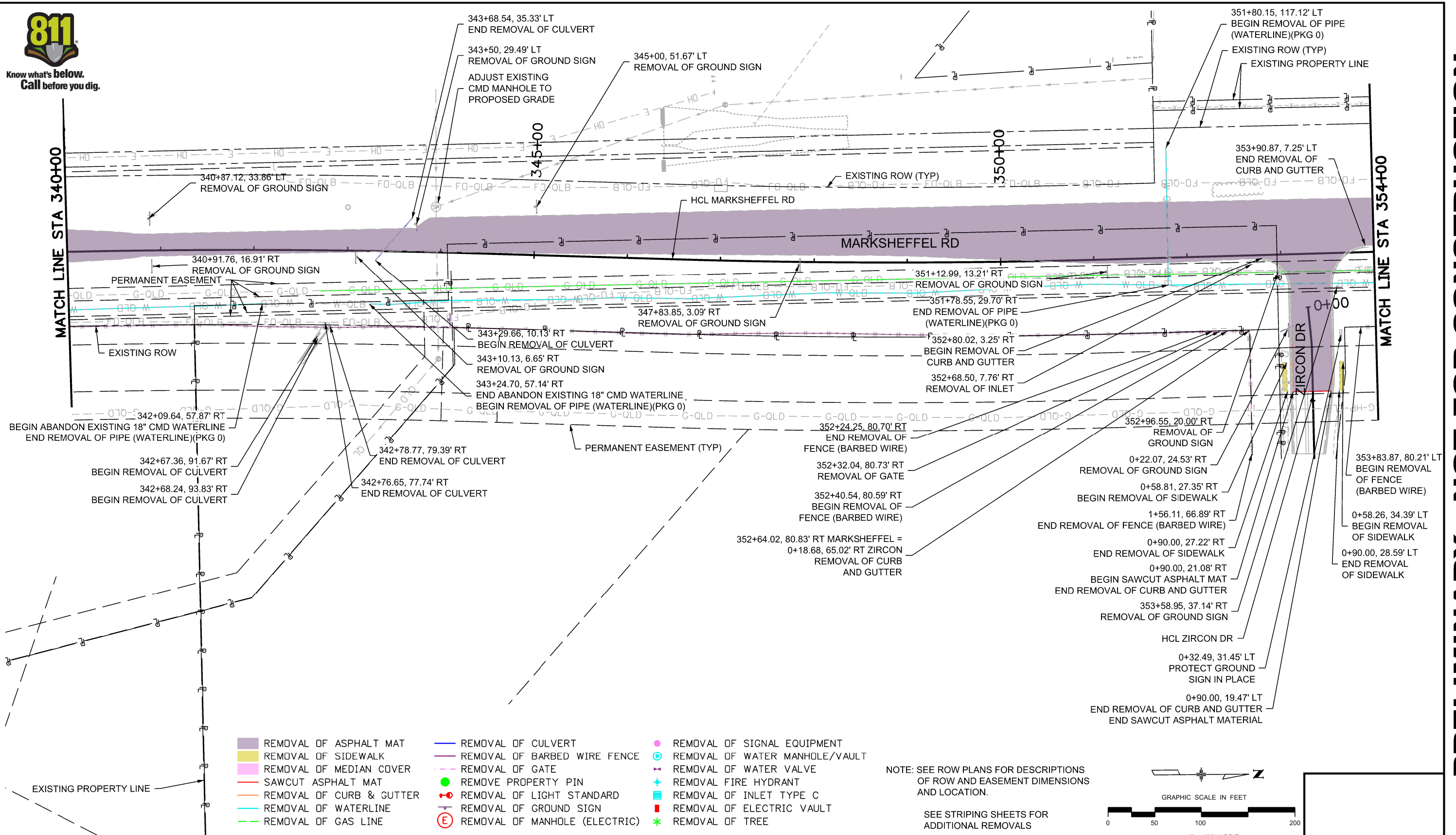
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Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

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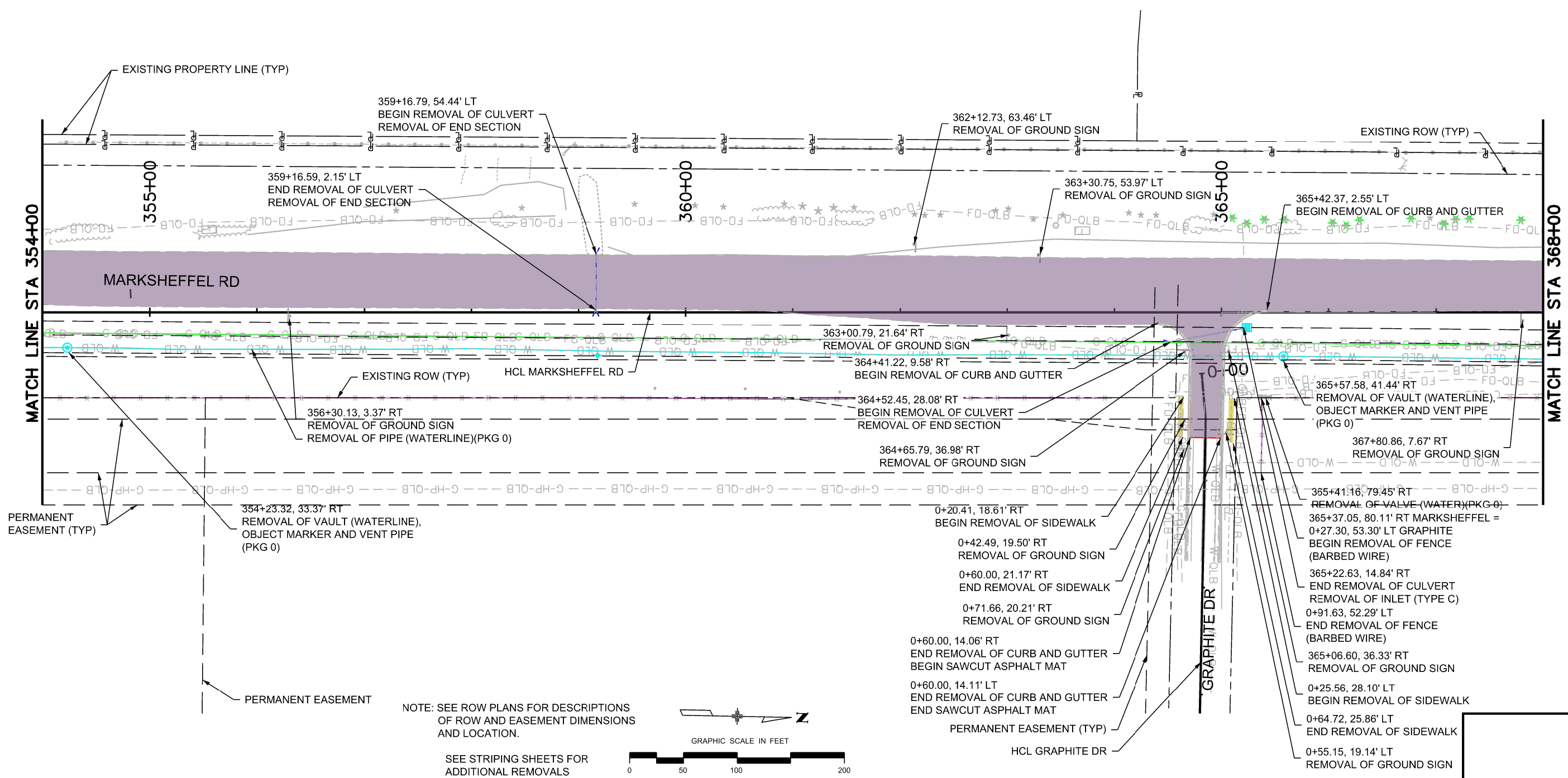
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Void:	Detailer: TAH	Subset Sheets: 2 of 6	Sheet Number
Sheet Subset: REM			

**0000**



Know what's below.  
Call before you dig.

- REMOVAL OF ASPHALT MAT
- REMOVAL OF SIDEWALK
- REMOVAL OF MEDIAN COVER
- SAWCUT ASPHALT MAT
- REMOVAL OF CURB & GUTTER
- REMOVAL OF WATERLINE
- REMOVAL OF GAS LINE
- REMOVAL OF CULVERT
- REMOVAL OF BARBED WIRE FENCE
- REMOVAL OF GATE
- REMOVE PROPERTY PIN
- REMOVAL OF LIGHT STANDARD
- REMOVAL OF GROUND SIGN
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- REMOVAL OF WATER MANHOLE/VAULT
- REMOVAL OF WATER VALVE
- REMOVAL FIRE HYDRANT
- REMOVAL OF INLET TYPE C
- REMOVAL OF ELECTRIC VAULT
- REMOVAL OF TREE



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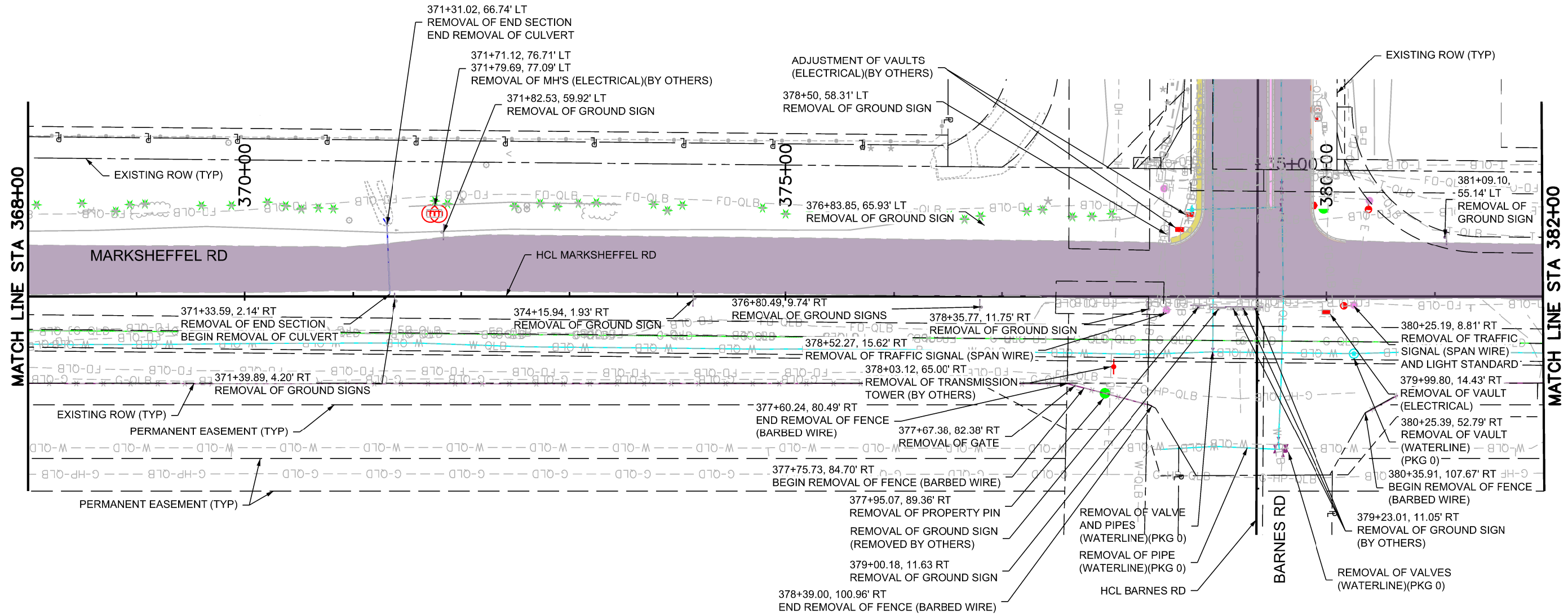
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Unit Information	Unit Leader				
Project No./Code	PPRTA 10444				
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		No Revisions:		<b>MARKSHEFFEL ROAD REMOVAL PLAN</b>	
		Revised:			
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		Detailer: TAH			
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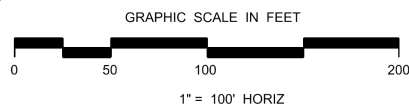


Know what's below.  
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- REMOVAL OF SIDEWALK
- REMOVAL OF MEDIAN COVER
- SAWCUT ASPHALT MAT
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- REMOVAL OF WATER VALVE
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- REMOVAL OF ELECTRIC VAULT
- REMOVAL OF TREE



NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.



SEE STRIPING SHEETS FOR ADDITIONAL REMOVALS

Print Date: 1/5/2024
File Name: P1-18300DES_Removal_04.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

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Date:	Comments	Init.

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Designer:	JLS	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	REM	Subset Sheets:	4 of 6

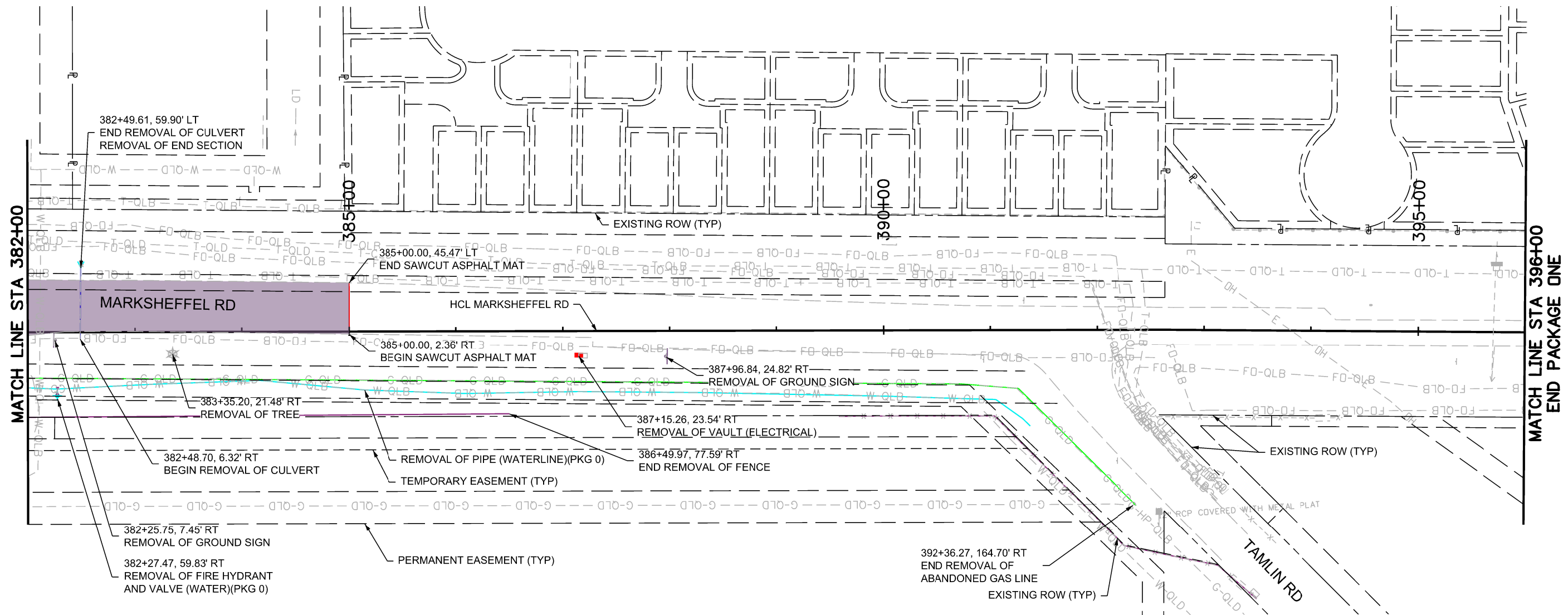
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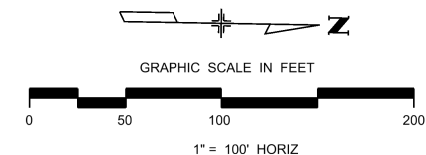
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- REMOVAL OF ELECTRIC VAULT
- REMOVAL OF TREE

NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

SEE STRIPING SHEETS FOR ADDITIONAL REMOVALS



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Horiz. Scale: 1:100
Unit Information
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Sheet Revisions		
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Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subsets: 5 of 6
Sheet Subset: REM		Subset Sheets: 5 of 6
Sheet Number		

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**03\_Roadway**  
**Will follow this page.**



Know what's below.  
Call before you dig.

EXISTING ROW (TYP)

N CAREFREE CIRCLE

EXIST ROW

331+00.00, 77.00' LT  
BEGIN 6' SDWK  
331+00.00, 68.50' LT  
BEGIN CDOT C&G TYPE 2  
(SECTION IIB)  
331+00.00, 27.50' LT  
BEGIN HMA  
BEGIN CDOT C&G TYPE 2  
(SECTION IB)

335+30.50, 68.50' LT  
PC BEGIN TAPER  
335+45.48, 68.05' LT  
PT  
16.6:1 TAPER  
336+13.85, 63.95' LT  
PC  
336+28.82, 63.50' LT  
PT END TAPER

6' SDWK  
SEE SDWK W1 FOR  
PROFILE FROM STA  
339+97.54 to 369+00.44  
339+88.87, 27.50' LT  
PC BEGIN TAPER

BEGIN PACKAGE ONE  
MATCH LINE STA 326+00

MATCH LINE STA 340+00

HCL MARKSHEFFEL RD

MARKSHEFFEL RD

EXISTING ROW (TYP)

331+00.00, 27.50' RT  
BEGIN HMA  
BEGIN CDOT C&G TYPE 2  
(SECTION IB)  
331+00.00, 63.50' RT  
CDOT C&G TYPE 2  
(SECTION IIB)  
331+00.00, 83.50' RT  
BEGIN 10' CONCRETE BIKEWAY

331+00.00, 84.50' RT  
BEGIN BARBED WIRE FENCE  
PER CDOT STD DWG M-607-1

PERMANENT EASEMENT (TYP)

EXISTING EDGE OF ASPH

BEGIN CONCRETE PAVEMENT (8 INCH)

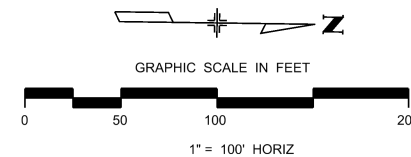
337+92.15, 66.00' RT  
END CONCRETE PAVEMENT (8 INCH)  
PER CITY DRIVEWAY DETAIL D-16B  
337+78.40, 84.50' RT  
INSTALL 14' GATE  
PER CDOT STD DWG M-607-1

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- MILL & OVERLAY 2"
- HMA
- CONCRETE SIDEWALK/BIKEWAY
- CONCRETE MEDIAN COVER/RANDOM ROCK/SAN DIEGO BUFF
- CONCRETE CROSS PAN
- CONCRETE CURB RAMP
- ABC
- ABC (RECYCLED ASPHALT PAVEMENT)
- CONCRETE PAVEMENT (8 INCH)
- C&G TYPE 2 (SECTION IB)
- C&G TYPE 2 (SECTION IIB)
- CURB TYPE 2 (SECTION B)

NOTES: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

ALL CURB & GUTTER DIMENSIONS, STATION & OFFSET, ELEVATION LABELS, AND CURVE DATA ARE TO THE LIP OF CURB UNLESS OTHERWISE NOTED.



5+00

Print Date: 1/5/2024
File Name: P1-18300DES_PnP_01pn.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

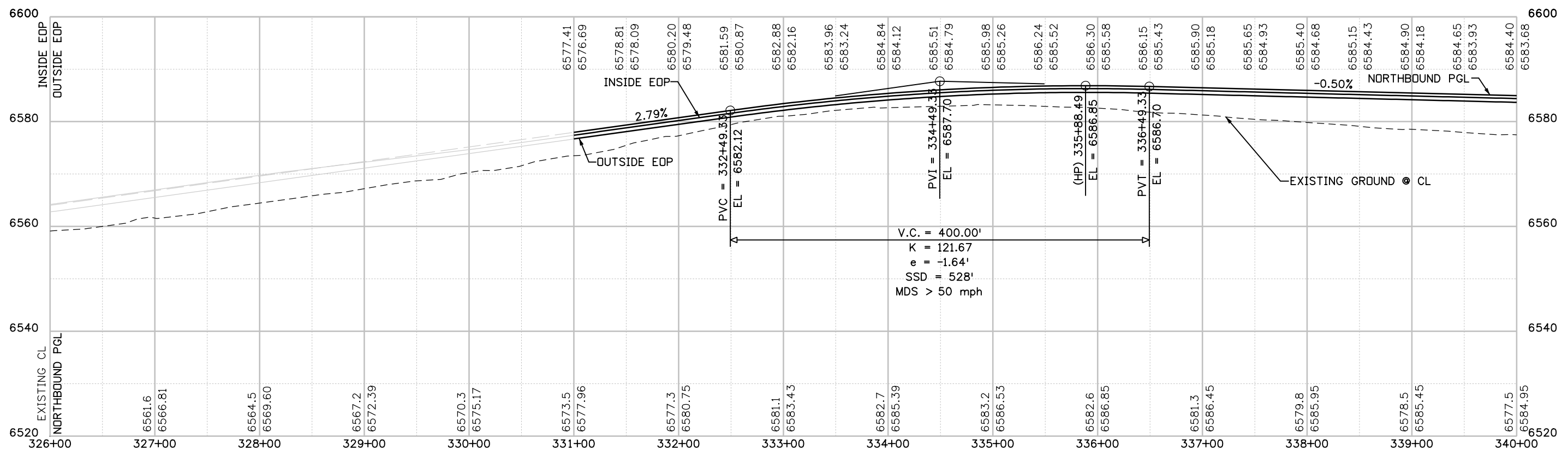
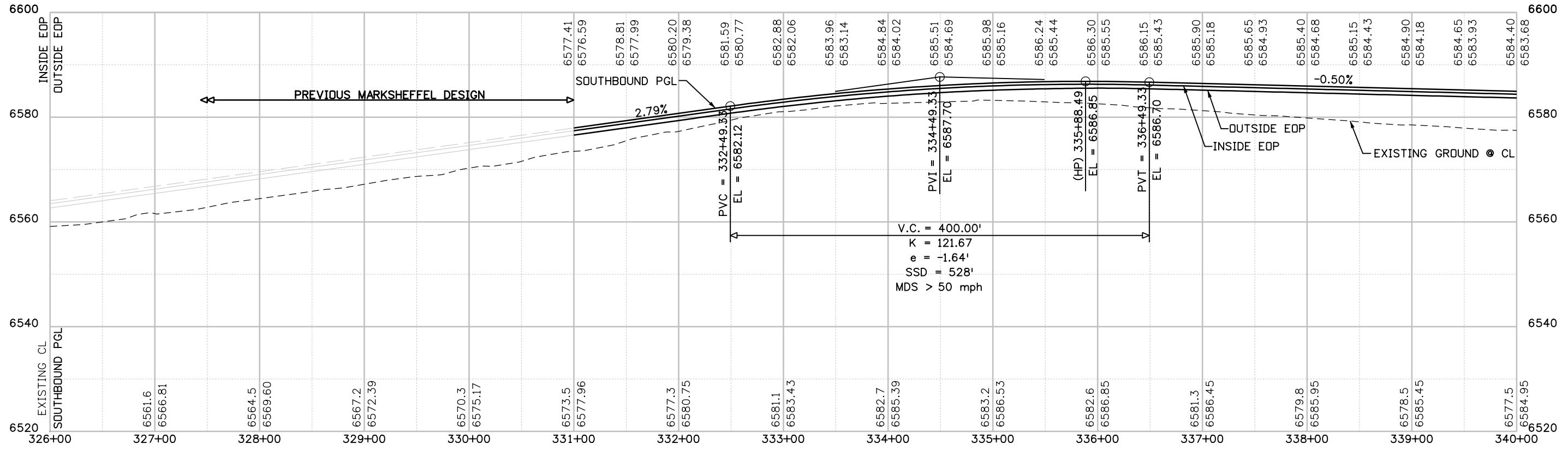
Sheet Revisions		
Date:	Comments	Init.

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FAX: 719-520-0108

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MARKSHEFFEL ROAD ROADWAY PLAN	
Designer: RMP	Structure Numbers
Detailer: TAH	
Sheet Subset: DES-PnP	Subset Sheets: 1 of 17

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Print Date: 1/5/2024
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Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

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**PPRTA**



**WILSON & COMPANY**

5755 Mark Dabling Blvd.  
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Phone: 719-520-5800  
FAX: 719-520-0108

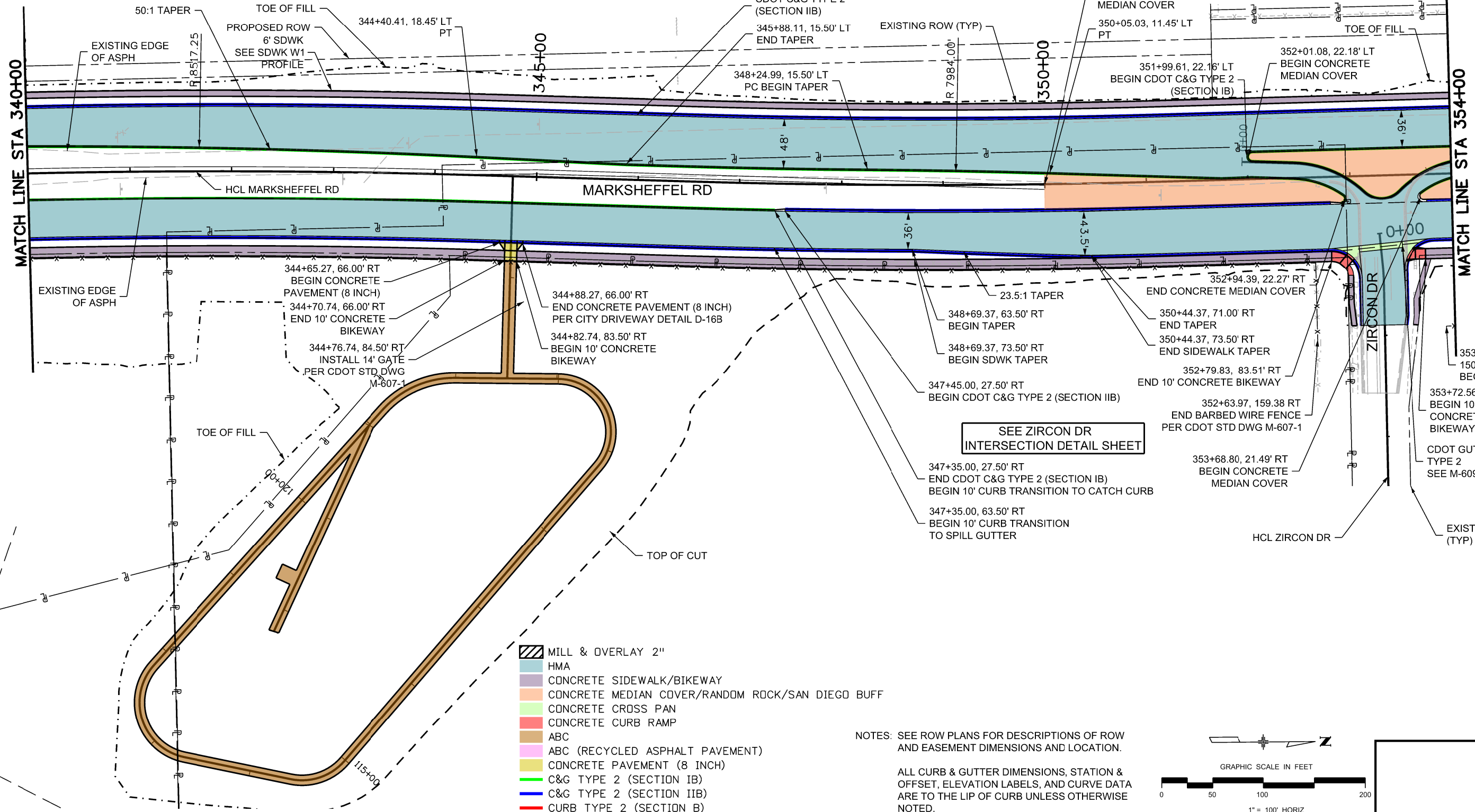
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Void:	<b>- SB ROADWAY PROFILE</b>	
	Designer: RMP	Structure Numbers
	Detailer: TAH	
	Sheet Subset: DES-PnP	Subset Sheets: 2 of 17

Sheet Number
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Know what's below.  
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Print Date: 1/5/2024
File Name: P1-18300DES_PnP_03p.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

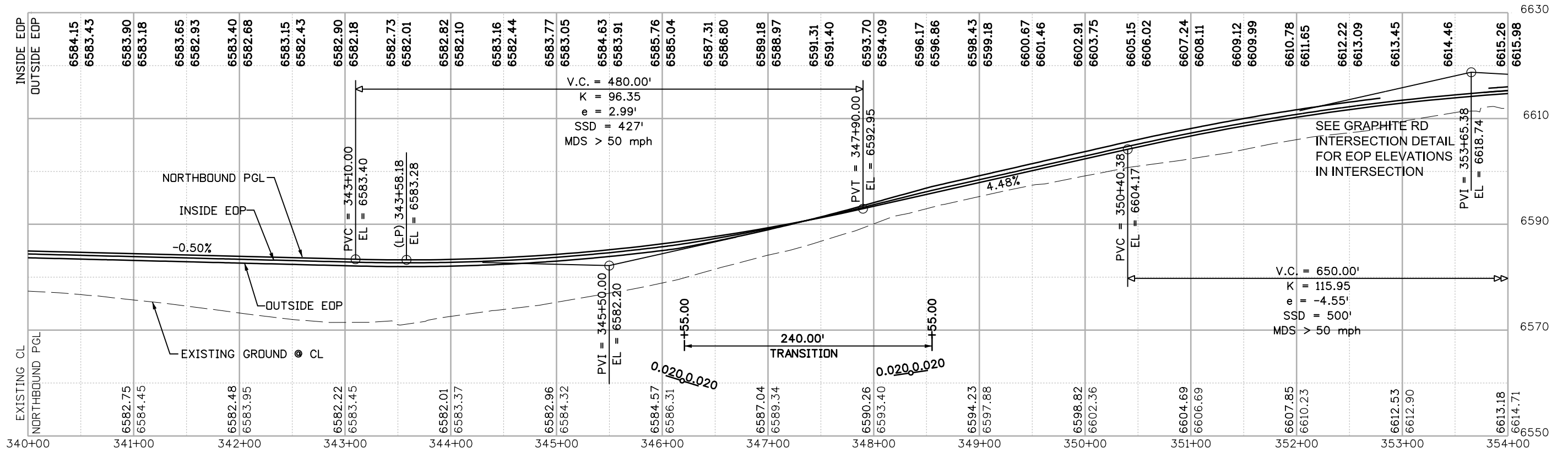
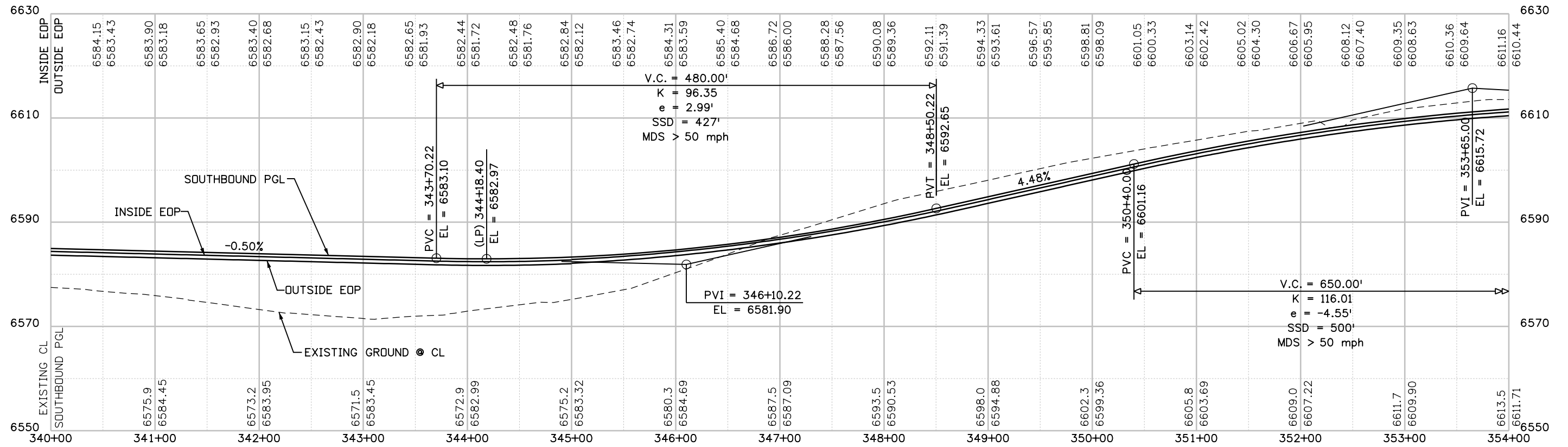
**WILSON & COMPANY**  
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No Revisions:
Revised:
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MARKSHEFFEL ROAD ROADWAY PLAN			
Designer:	RMP	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	DES-PnP	Subset Sheets:	3 of 17

Sheet Number
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 File Name: P1-18300DES\_PnF\_04pr.dgn  
 Horiz. Scale: 1:100      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**COLORADO SPRINGS**  
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**PPRTA**  
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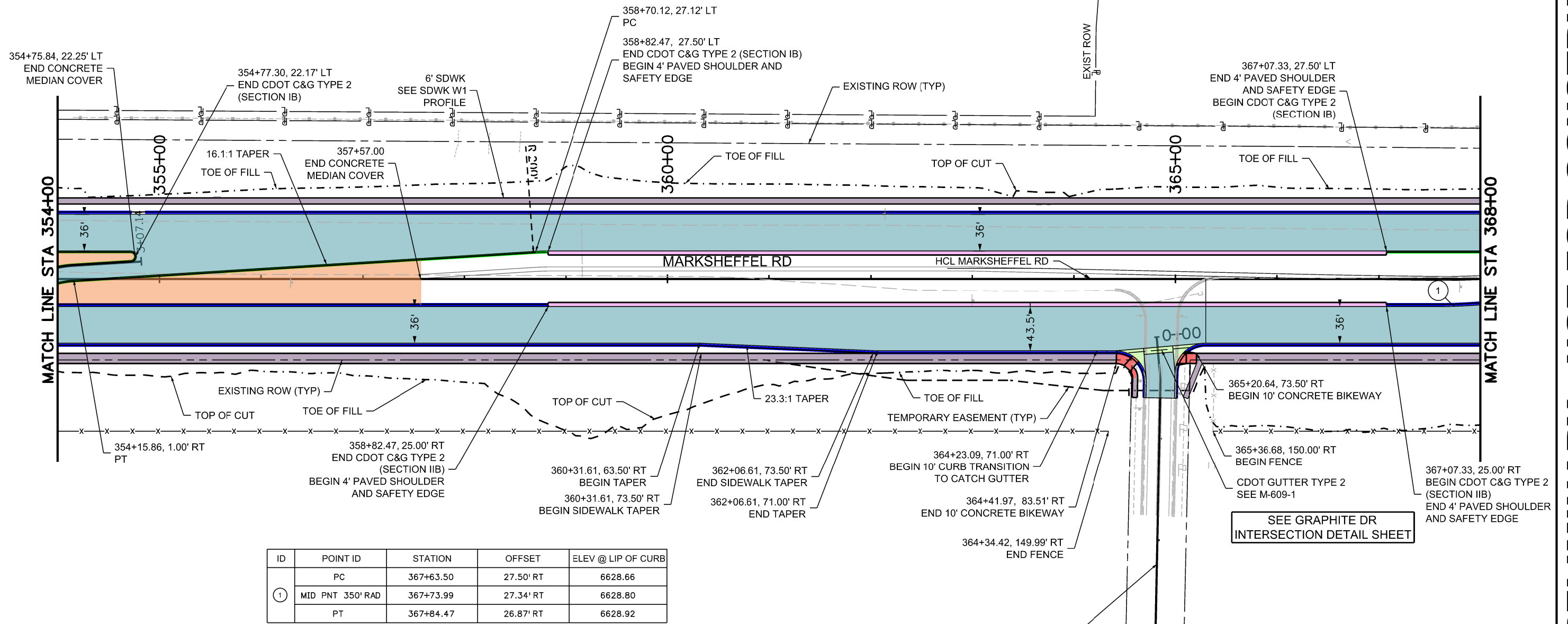
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Sheet Number
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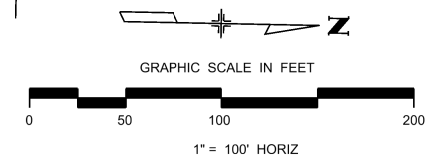
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- HMA
- CONCRETE SIDEWALK/BIKEWAY
- CONCRETE MEDIAN COVER/RANDOM ROCK/SAN DIEGO BUFF
- CONCRETE CROSS PAN
- CONCRETE CURB RAMP
- ABC
- ABC (RECYCLED ASPHALT PAVEMENT)
- CONCRETE PAVEMENT (8 INCH)
- C&G TYPE 2 (SECTION IB)
- C&G TYPE 2 (SECTION IIB)
- CURB TYPE 2 (SECTION B)



ID	POINT ID	STATION	OFFSET	ELEV @ LIP OF CURB
①	PC	367+63.50	27.50' RT	6628.66
	MID PNT 350' RAD	367+73.99	27.34' RT	6628.80
	PT	367+84.47	26.87' RT	6628.92

NOTES: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

ALL CURB & GUTTER DIMENSIONS, STATION & OFFSET, ELEVATION LABELS, AND CURVE DATA ARE TO THE LIP OF CURB UNLESS OTHERWISE NOTED.



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Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

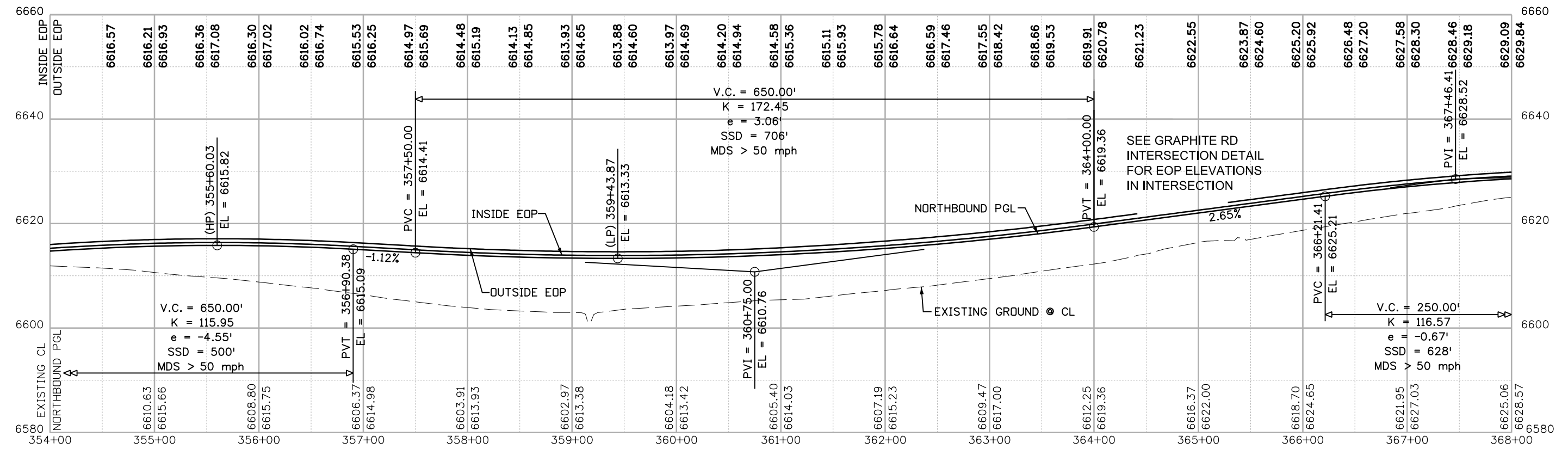
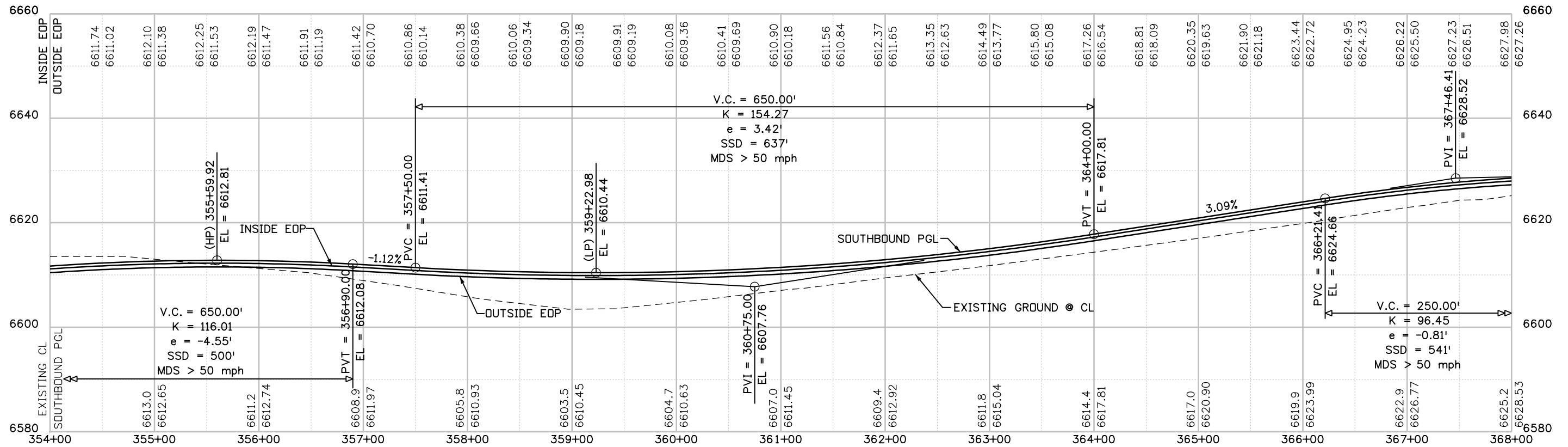
5755 Mark Dabling Blvd.  
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Colorado Springs, CO 80919  
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No Revisions:
Revised:
Void:

MARKSHEFFEL ROAD ROADWAY PLAN			
Designer:	RMP	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	DES-PnP	Subset Sheets:	5 of 17

Sheet Number
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 Horiz. Scale: 1:100      Vert. Scale:  
 Unit Information      Unit Leader  
**Project No./Code**    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:		<b>MARKSHEFFEL ROAD                  ROADWAY PROFILE</b>	
Revised:			
Void:		Designer: RMP Detailer: TAH	Structure Numbers
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		Sheet Number	



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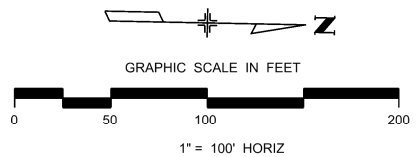
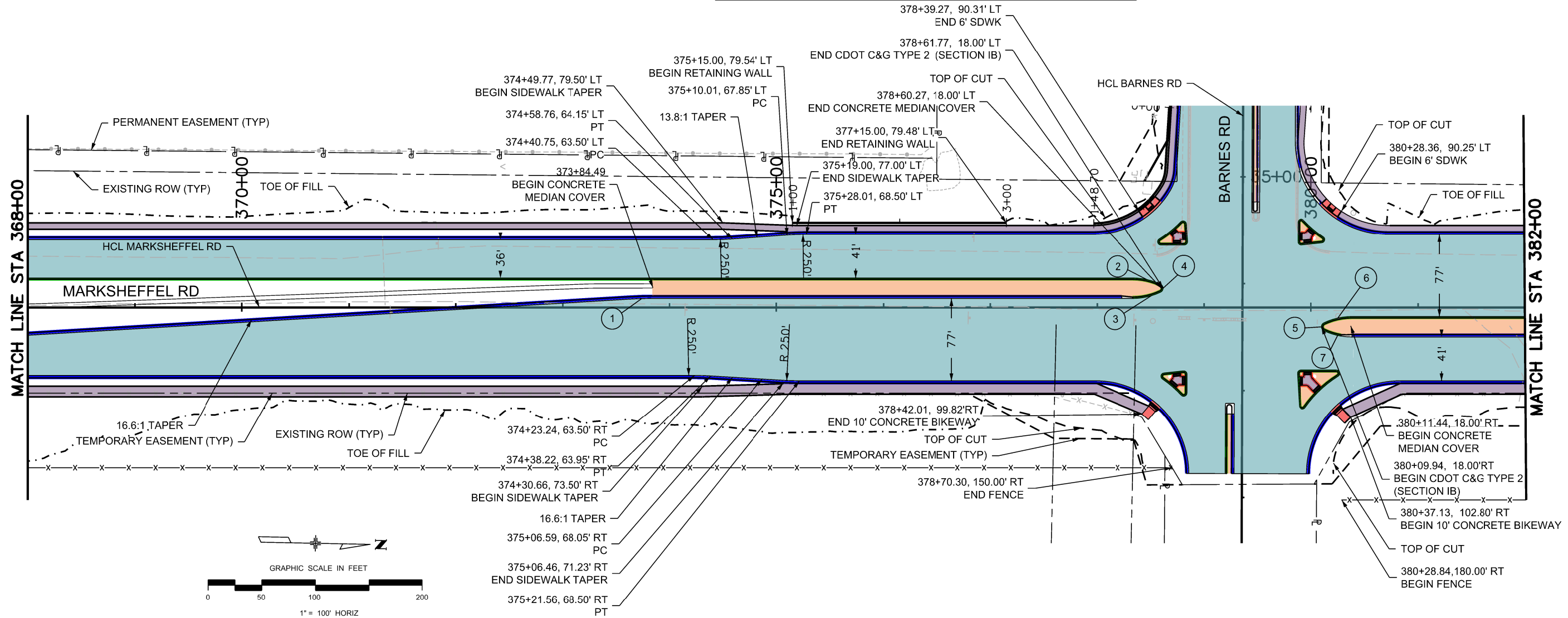
- MILL & OVERLAY 2"
- HMA
- CONCRETE SIDEWALK/BIKEWAY
- CONCRETE MEDIAN COVER/RANDOM ROCK/SAN DIEGO BUFF
- CONCRETE CROSS PAN
- CONCRETE CURB RAMP
- ABC
- ABC (RECYCLED ASPHALT PAVEMENT)
- CONCRETE PAVEMENT (8 INCH)
- C&G TYPE 2 (SECTION IB)
- C&G TYPE 2 (SECTION IIB)
- CURB TYPE 2 (SECTION B)

NOTES: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

ALL CURB & GUTTER DIMENSIONS, STATION & OFFSET, ELEVATION LABELS, AND CURVE DATA ARE TO THE LIP OF CURB UNLESS OTHERWISE NOTED.

ID	POINT ID	STATION	OFFSET	ELEV @ LIP OF CURB
①	PC	373+63.53	7.87' LT	6636.85
	MID PNT 350' RAD	373+74.00	8.34' LT	6637.25
	PT	373+84.49	8.50' LT	6637.66
②	PC	378+33.35	27.50' LT	6657.33
	MID PNT 61' RAD	378+46.74	26.01' LT	6657.77
	PT	378+59.49	21.61' LT	6658.23
③	PC	378+33.35	8.50' LT	6657.71
	MID PNT 61' RAD	378+46.74	9.99' LT	6658.09
	PT	378+59.49	14.39' LT	6658.38
④	PC	378+59.49	14.39' LT	6658.38
	MID PNT 4' RAD	378+61.77	18.00' LT	6658.37
	PT	378+59.49	21.61' LT	6658.23

ID	POINT ID	STATION	OFFSET	ELEV @ LIP OF CURB
⑤	PC	380+12.23	14.39' RT	6663.35
	MID PNT 4' RAD	380+09.94	18.00' RT	6663.35
	PT	380+12.23	21.61' RT	6663.49
⑥	PC	380+12.23	14.39' RT	6663.35
	MID PNT 61' RAD	380+24.97	9.99' RT	6663.63
	PT	380+38.37	8.50' RT	6663.98
⑦	PC	380+12.23	21.61' RT	6663.49
	MID PNT 61' RAD	380+24.97	26.01' RT	6663.95
	PT	380+38.37	27.50' RT	6664.36



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Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Sheet Revisions		
Date:	Comments	Init.



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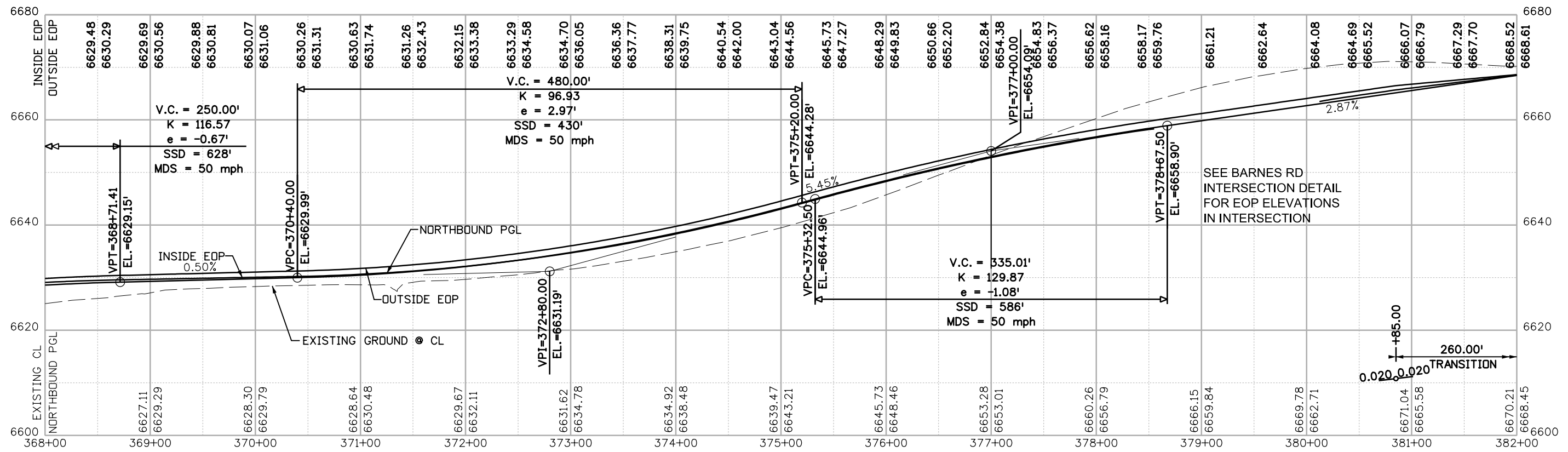
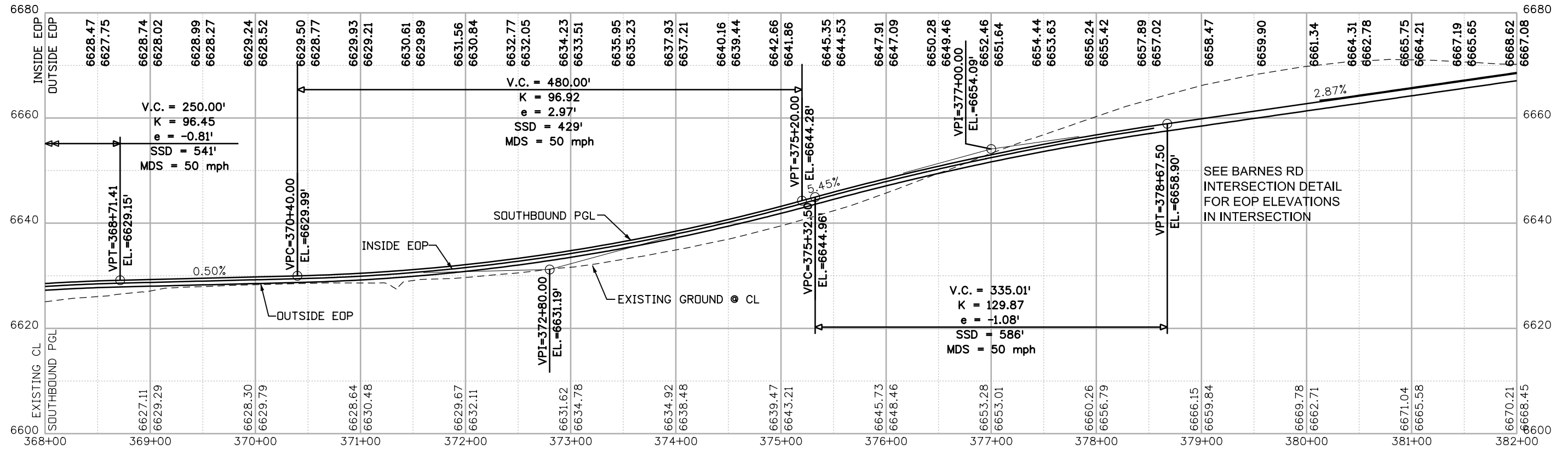
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Designer:	RMP	Structure	
Detailer:	TAH	Numbers	
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Sheet Number
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SEE BARNES RD INTERSECTION DETAIL FOR EOP ELEVATIONS IN INTERSECTION

SEE BARNES RD INTERSECTION DETAIL FOR EOP ELEVATIONS IN INTERSECTION

+85.00  
260.00'  
0.020 0.020 TRANSITION

Print Date: 1/5/2024	
File Name: P1-18300DES_PnP_08pr.dgn	
Horiz. Scale: 1:100	Vert. Scale:
Unit Information	Unit Leader
Project No./Code	PPRTA 10444

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Date:	Comments	Init.

**COLORADO SPRINGS**  
OLYMPIC CITY USA

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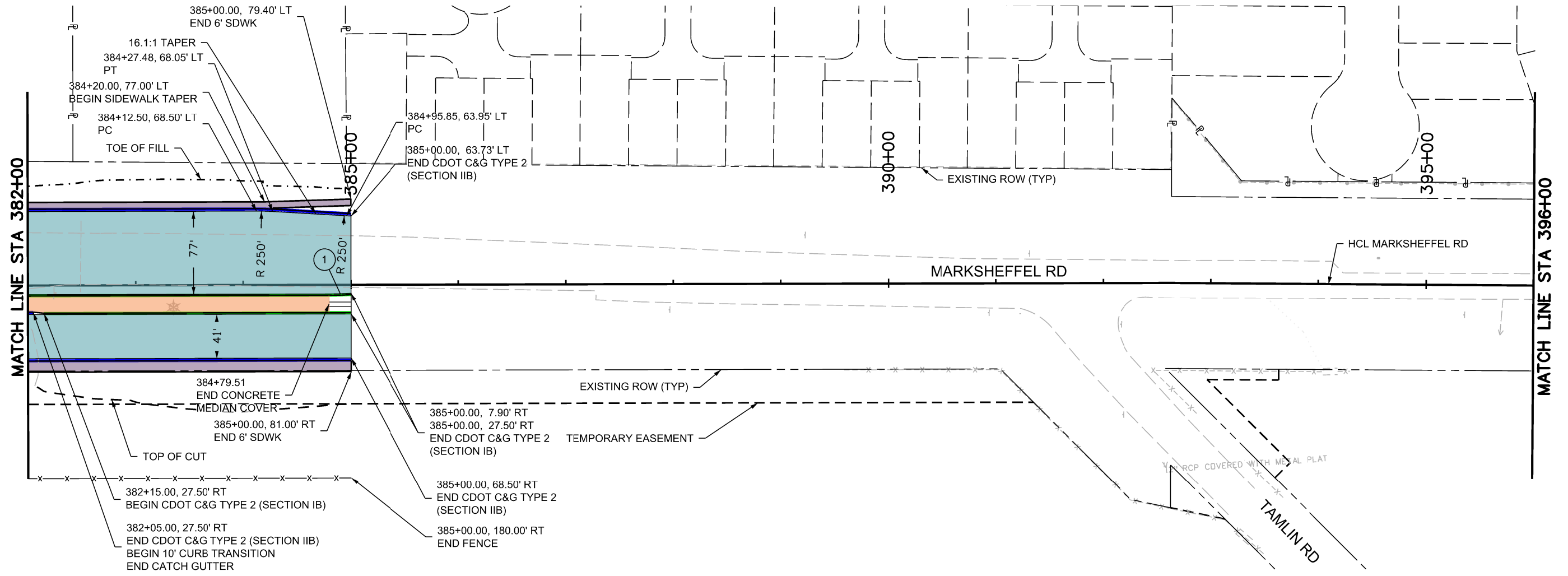
5755 Mark Dabling Blvd.  
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Phone: 719-520-5800  
Fax: 719-520-0108

MARKSHEFFEL ROAD ROADWAY PROFILE	
No Revisions:	
Revised:	
Void:	
Designer: RMP	Structure Numbers
Detailer: TAH	
Sheet Subset: DES-PnP	Subset Sheets: 8 of 17
Sheet Number	



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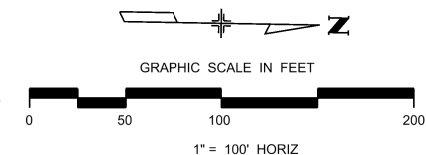
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- HMA
- CONCRETE SIDEWALK/BIKEWAY
- CONCRETE MEDIAN COVER/RANDOM ROCK/SAN DIEGO BUFF
- CONCRETE CROSS PAN
- CONCRETE CURB RAMP
- ABC
- ABC (RECYCLED ASPHALT PAVEMENT)
- CONCRETE PAVEMENT (8 INCH)
- C&G TYPE 2 (SECTION IIB)
- C&G TYPE 2 (SECTION IIB)
- CURB TYPE 2 (SECTION B)



ID	POINT ID	STATION	OFFSET	ELEV @ LIP OF CURB
①	PC	384+79.51	8.50' RT	6677.08
	MID PNT 350' RAD	384+89.76	8.35' RT	6677.43
	PT	385+00.00	7.90' RT	6677.78

NOTES: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

ALL CURB & GUTTER DIMENSIONS, STATION & OFFSET, ELEVATION LABELS, AND CURVE DATA ARE TO THE LIP OF CURB UNLESS OTHERWISE NOTED.



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Unit Information
Project No./Code PPRTA 10444

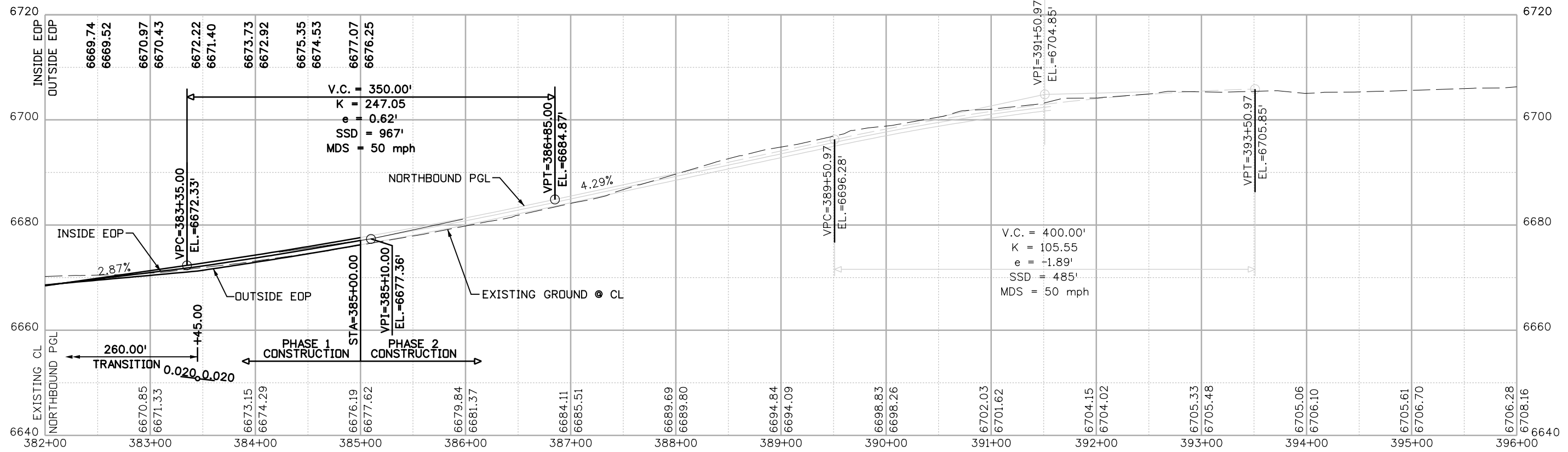
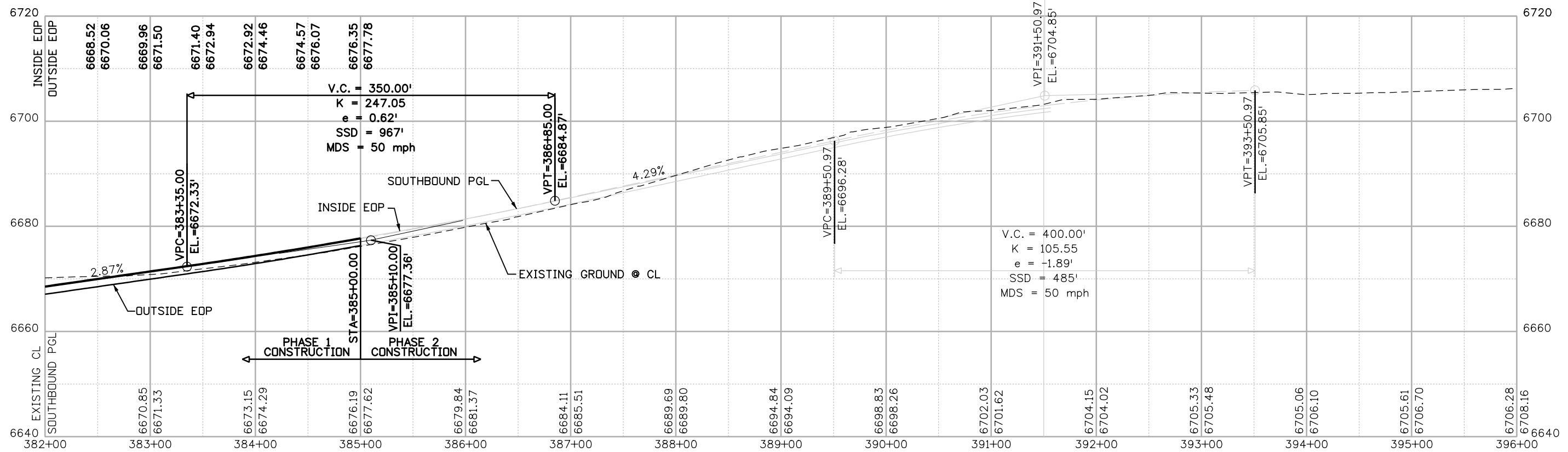
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	Date:	Comments	Init.

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Print Date: 1/5/2024
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Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**COLORADO SPRINGS**  
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**PPRTA**  
Pikes Peak Regional Transportation Authority

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Revised:	Designer: RMP	Structure Numbers
Void:	Detailer: TAH	
	Sheet Subset: DES-PnPr	Subset Sheets: 10 of 17

Sheet Number
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Know what's below.  
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BEGIN PROJECT STA 24+50

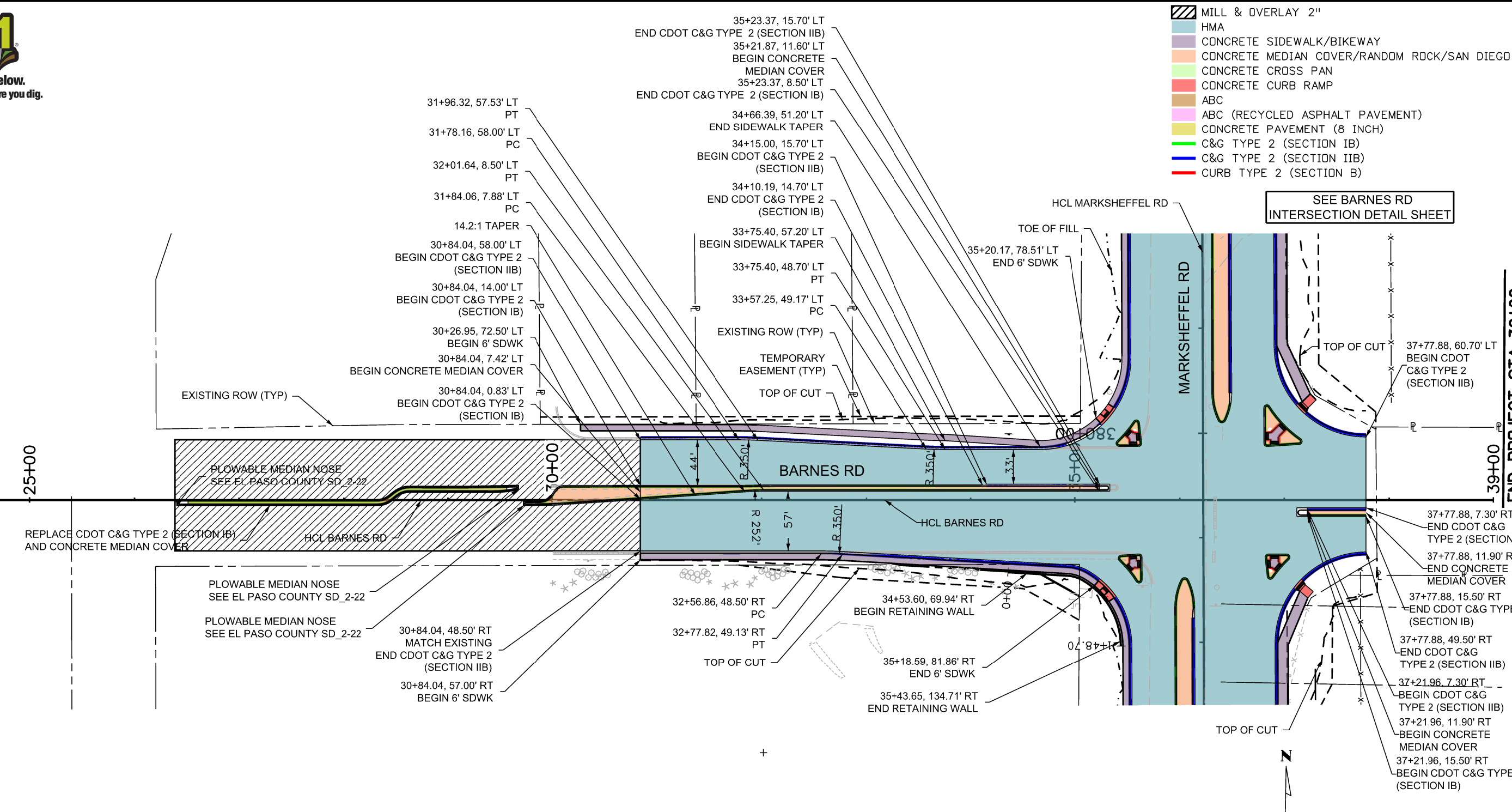
24+50

25+00

END PROJECT STA 39+00

39+00

- MILL & OVERLAY 2"
- HMA
- CONCRETE SIDEWALK/BIKEWAY
- CONCRETE MEDIAN COVER/RANDOM ROCK/SAN DIEGO BUFF
- CONCRETE CROSS PAN
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- ABC (RECYCLED ASPHALT PAVEMENT)
- CONCRETE PAVEMENT (8 INCH)
- C&G TYPE 2 (SECTION IB)
- C&G TYPE 2 (SECTION IIB)
- CURB TYPE 2 (SECTION B)



SEE BARNES RD INTERSECTION DETAIL SHEET

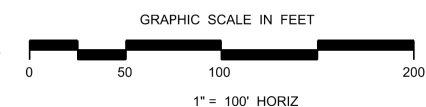
REPLACE CDOT C&G TYPE 2 (SECTION IB) AND CONCRETE MEDIAN COVER

PLOWABLE MEDIAN NOSE SEE EL PASO COUNTY SD\_2-22

PLOWABLE MEDIAN NOSE SEE EL PASO COUNTY SD\_2-22

NOTES: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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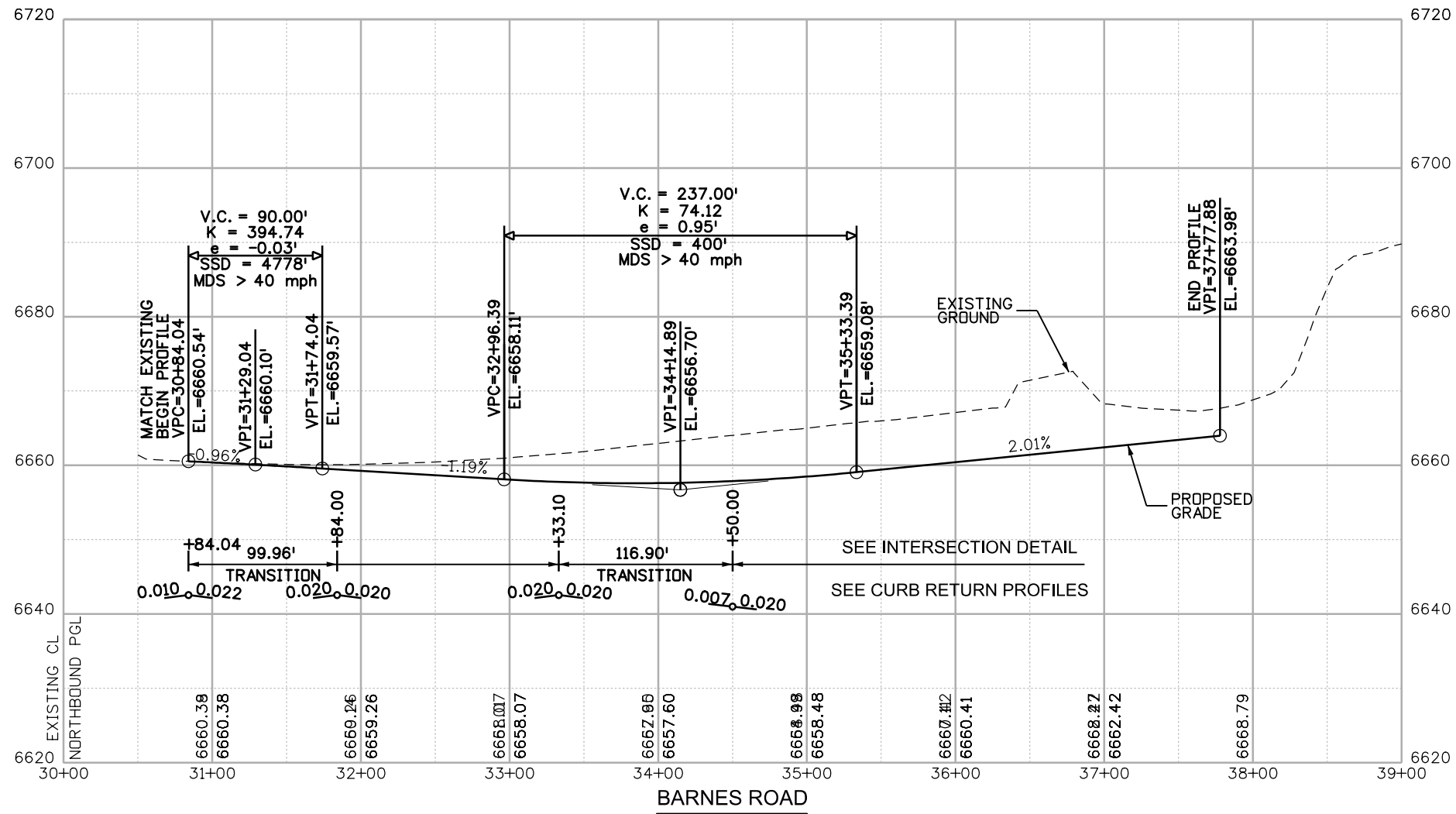
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Project No./Code PPRTA 10444

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Revised:	Designer: RMP	Structure Numbers	
Void:	Detailer: TAH	Sheet Subset: DES-PnP	Subset Sheets: 11 of 17
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Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

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Sheet Revisions		
Date:	Comments	Init.



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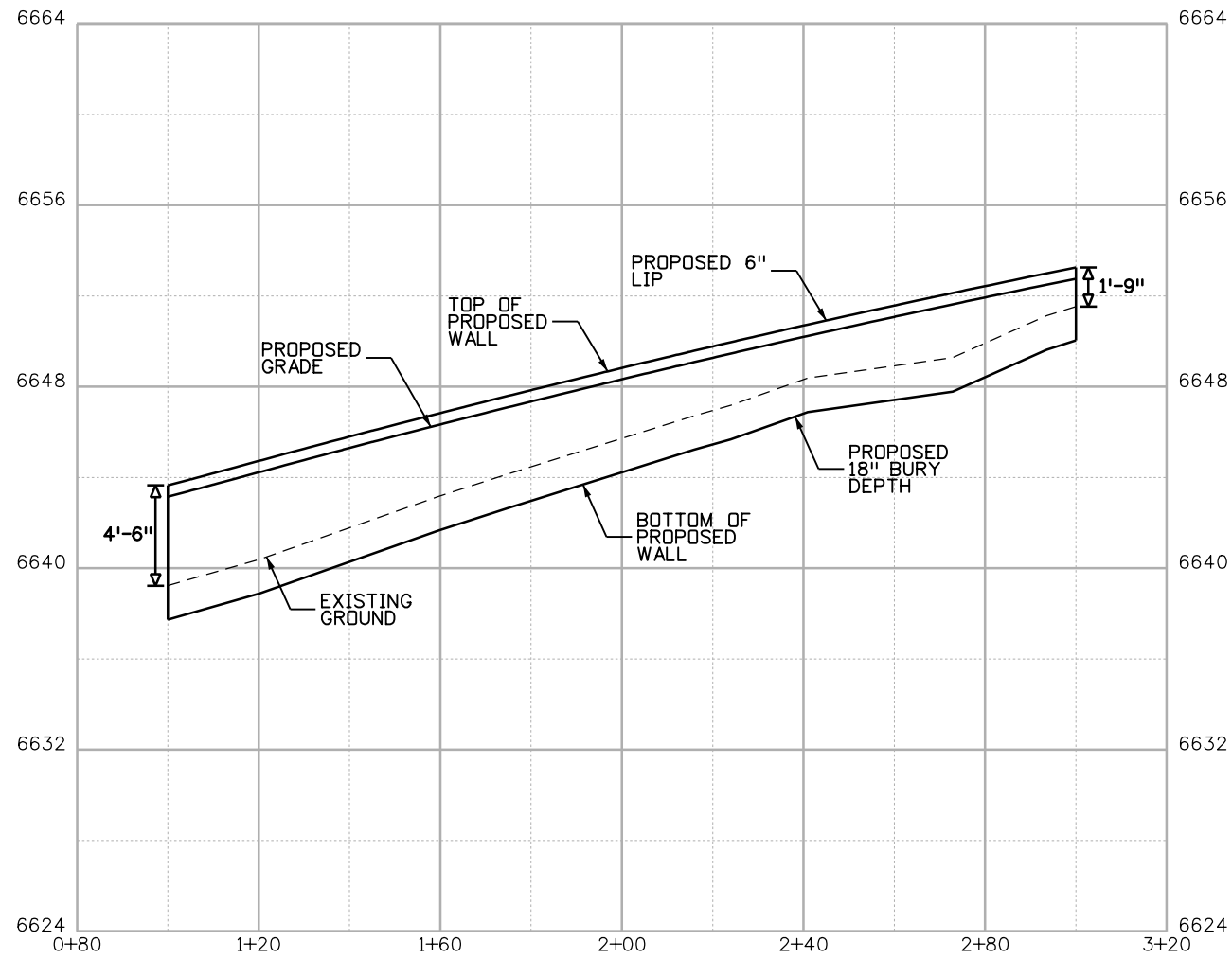
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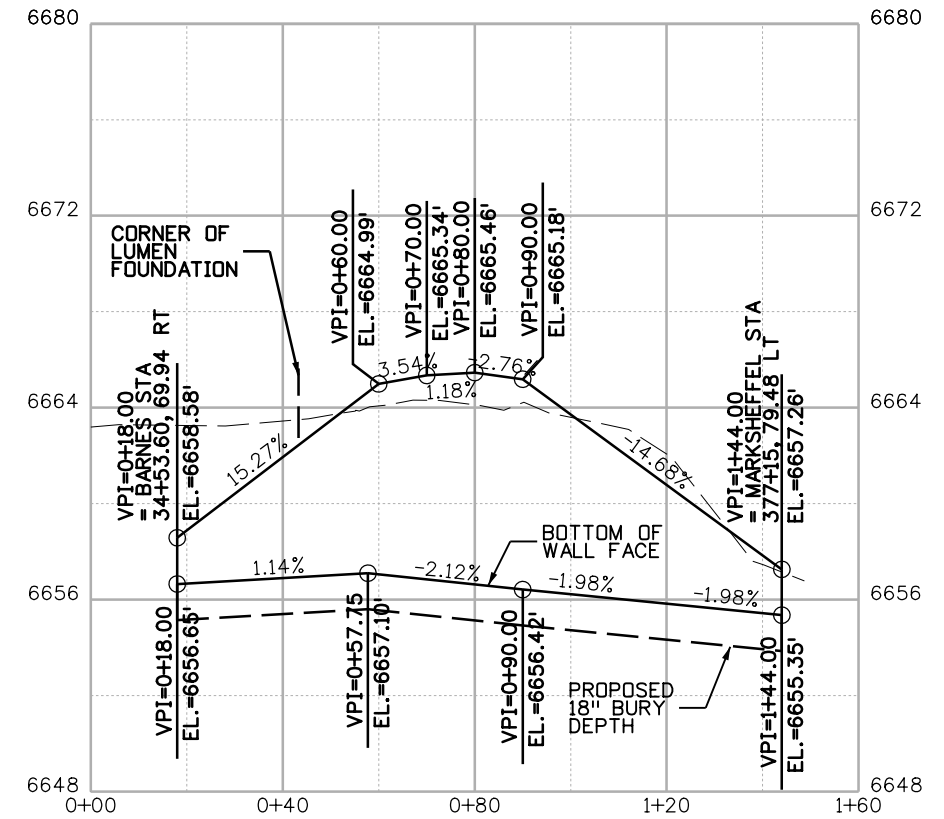
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FAX: 719-520-0108

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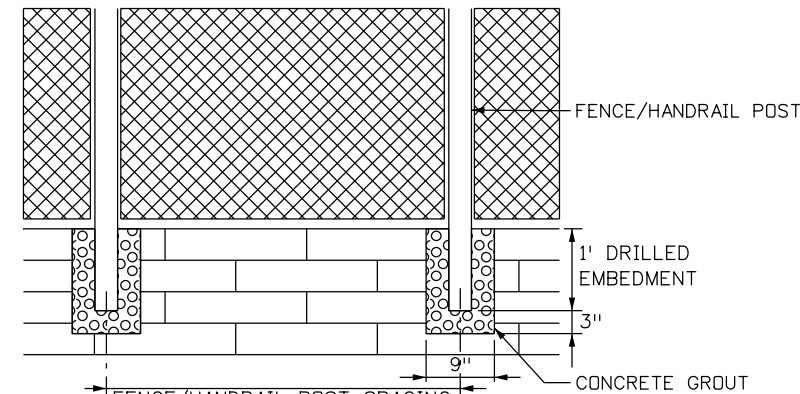
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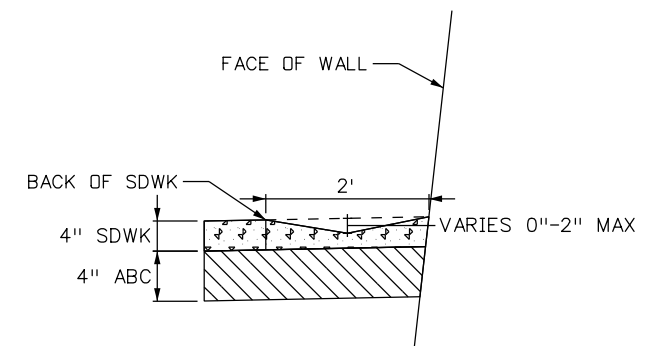
**MARKSHEFFEL WETLAND WALL**



**BARNES SW CORNER WALL**



**WALL FENCE/HANDRAIL DETAIL**  
NTS



**WALL SLOPE-PAVING DETAIL**  
NTS

T:\Augh 6:42:33 PM pwt\wis-pw\lentley.com\wis-pw\Documents\8100-TRM\City of Colorado Springs\CD\21-100-183-00\18300DES\_PnP\_13pr.dgn

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Date:	Comments	Init.

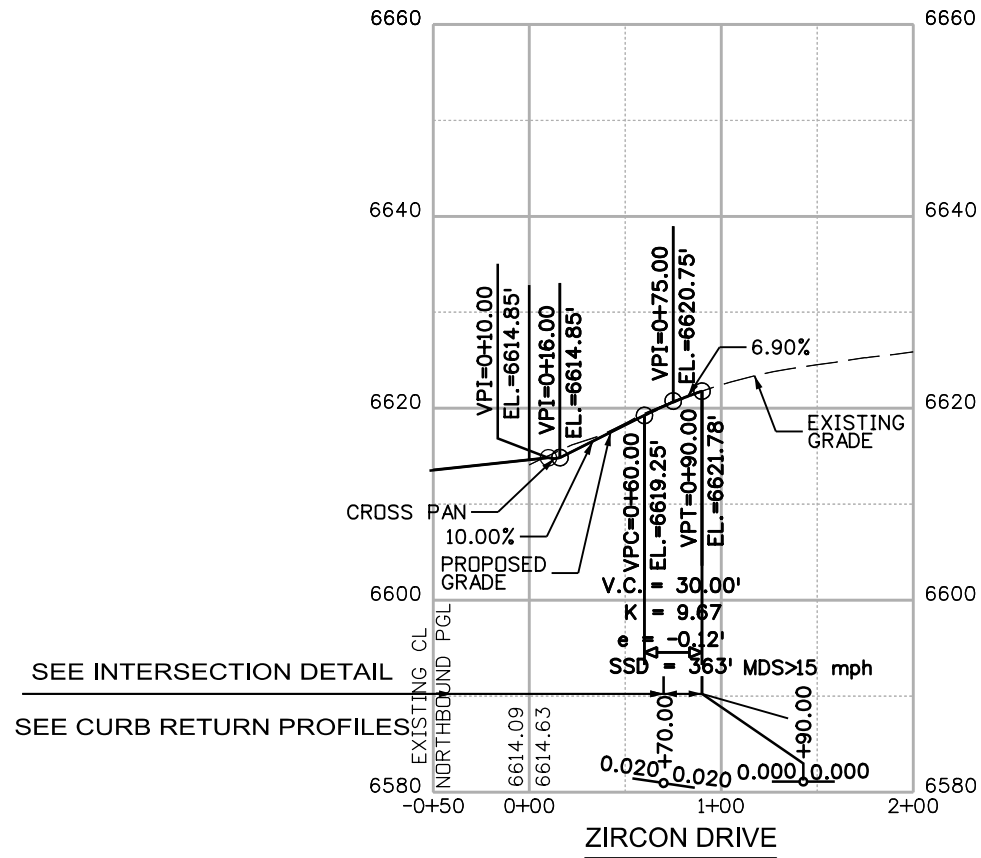
**COLORADO SPRINGS**  
OLYMPIC CITY USA

**PPRTA**

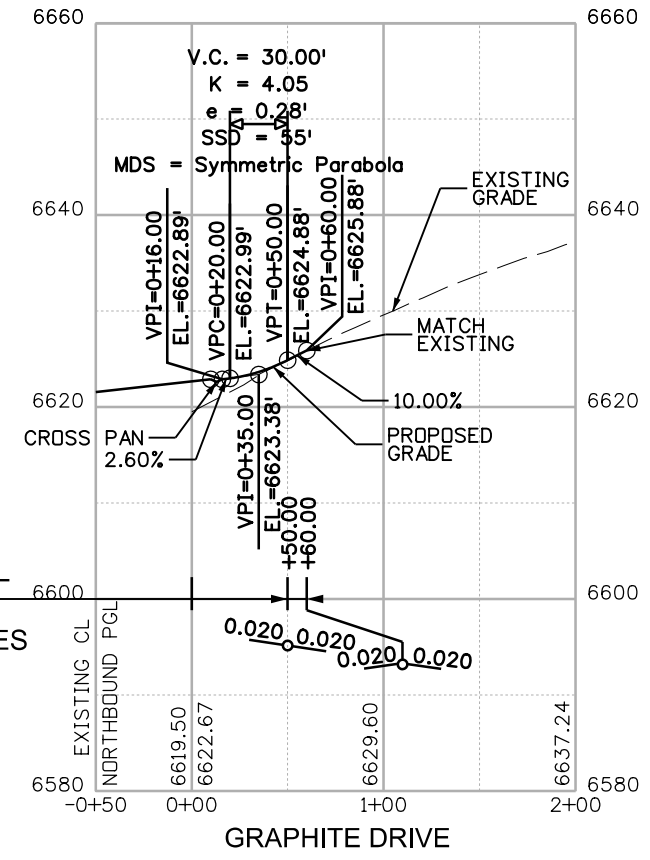
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No Revisions:	<b>BARNES ROAD WALL PROFILES</b>	
Revised:		
Void:		
Designer: RMP	Structure Numbers	Sheet Number
Detailer: TAH		
Sheet Subset: DES-PnP	Subset Sheets: 13 of 17	



SEE INTERSECTION DETAIL  
 SEE CURB RETURN PROFILES



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Unit Information      Unit Leader
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Sheet Revisions		
Date:	Comments	Init.



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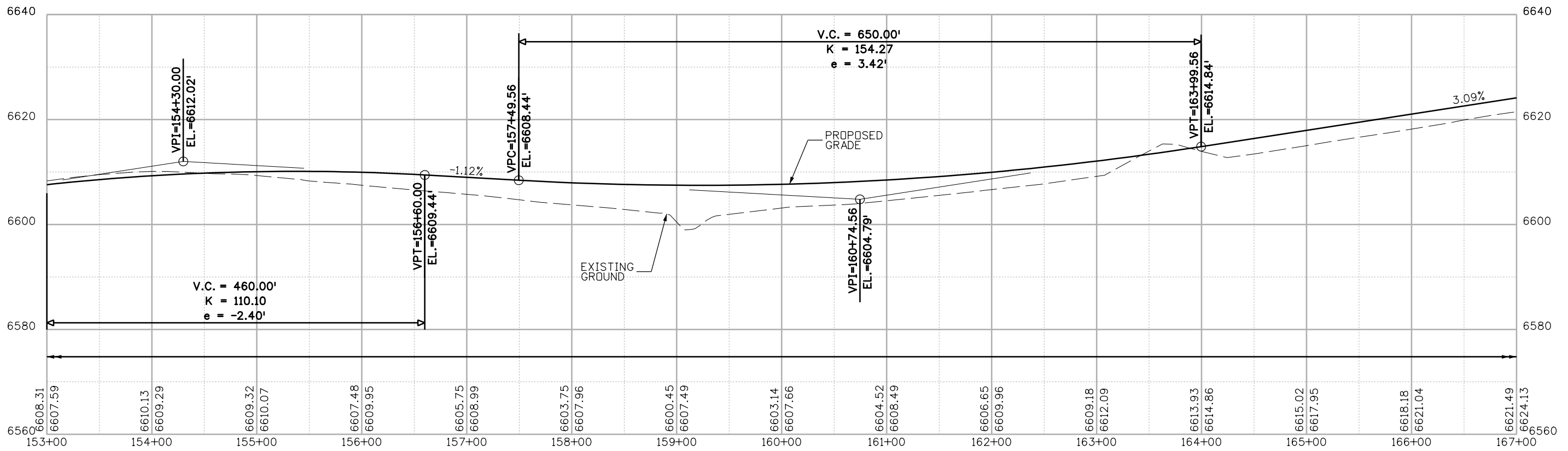
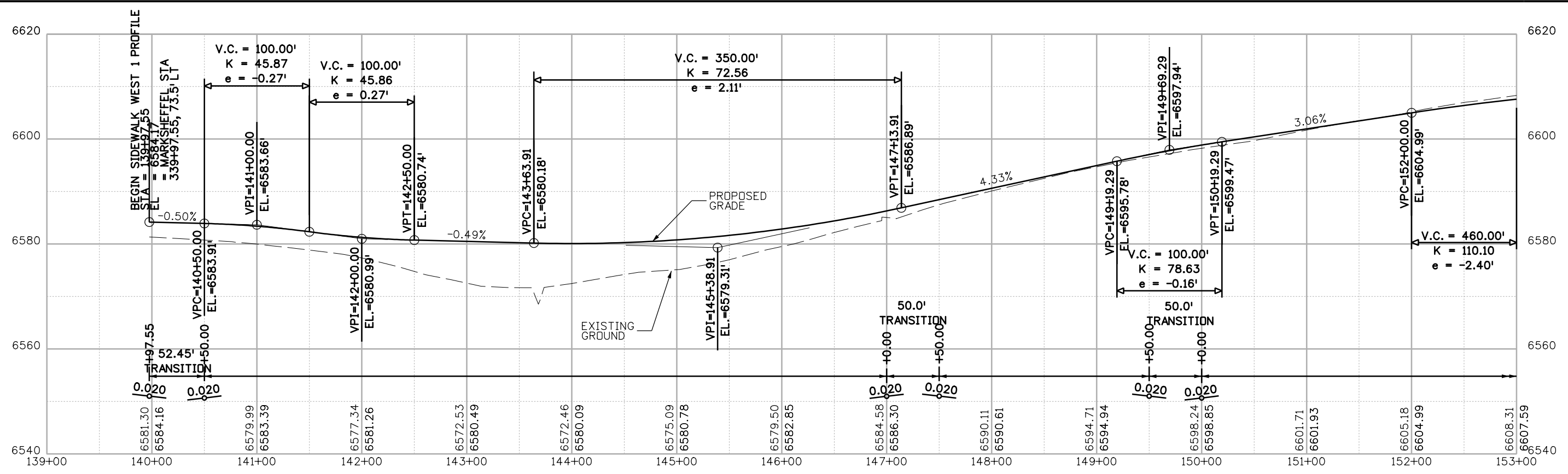




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	Designer: RMP	Structure Numbers
	Detailer: TAH	
	Sheet Subset: DES-PnP	Subset Sheets: 14 of 17

Sheet Number



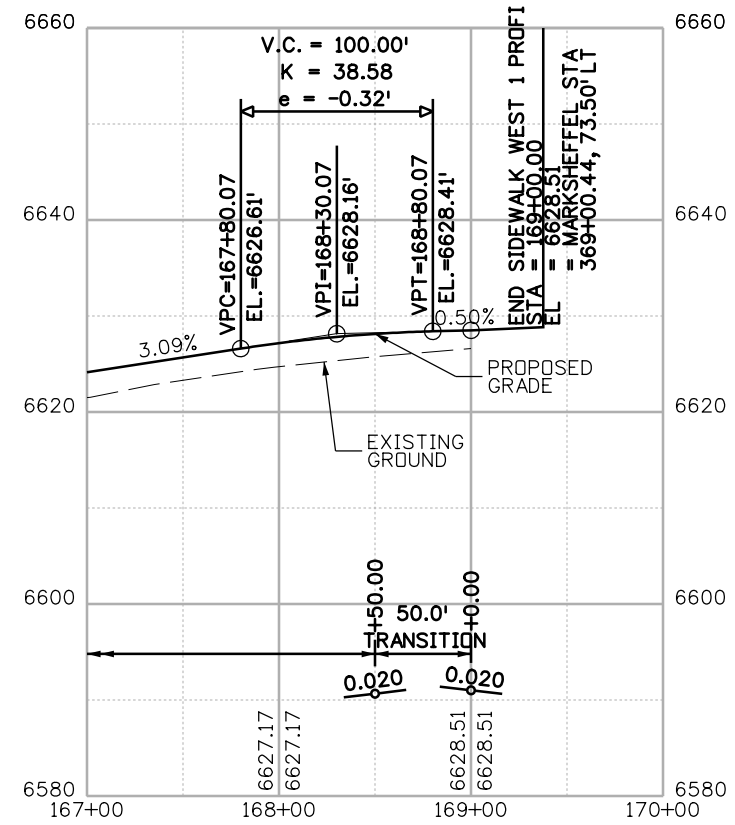
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Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:	
Revised:	
Void:	
<b>SIDEWALK WEST 1 ROADWAY PROFILE</b>	
Designer: RMP	Structure Numbers
Detailer: TAH	
Sheet Subset: DES-PnPr	Subset Sheets: 15 of 17
Sheet Number	



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Print Date: 1/5/2024
File Name: P1-18300DES_PnP_16pr.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

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Sheet Revisions		
Date:	Comments	Init.



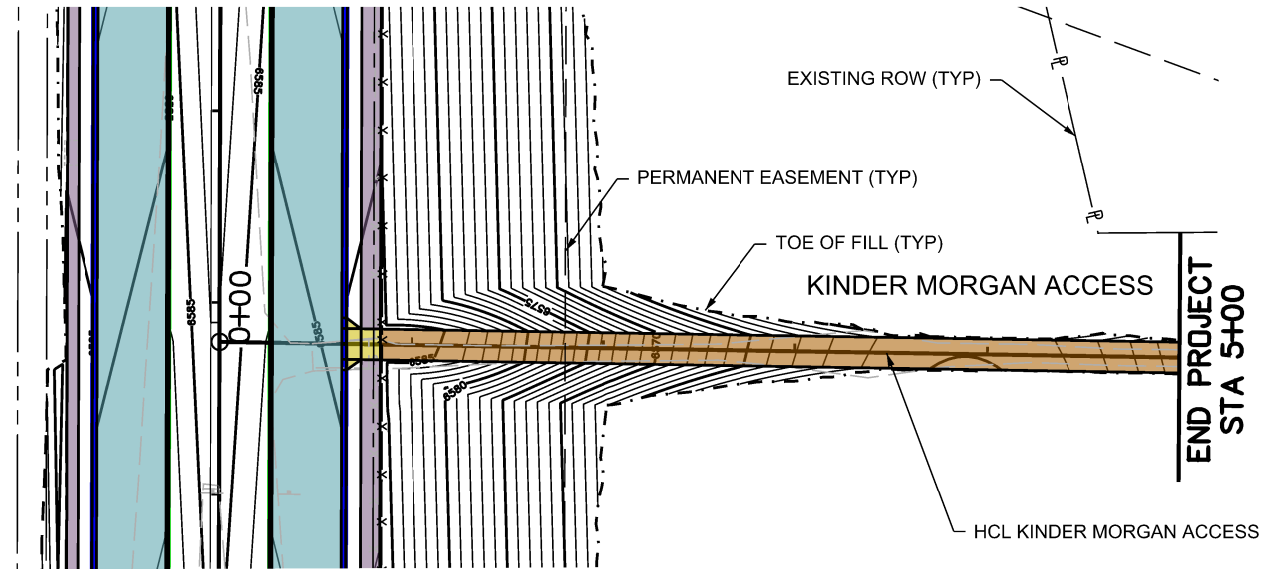
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No Revisions:
Revised:
Void:

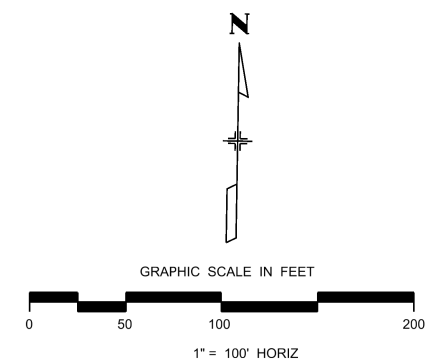
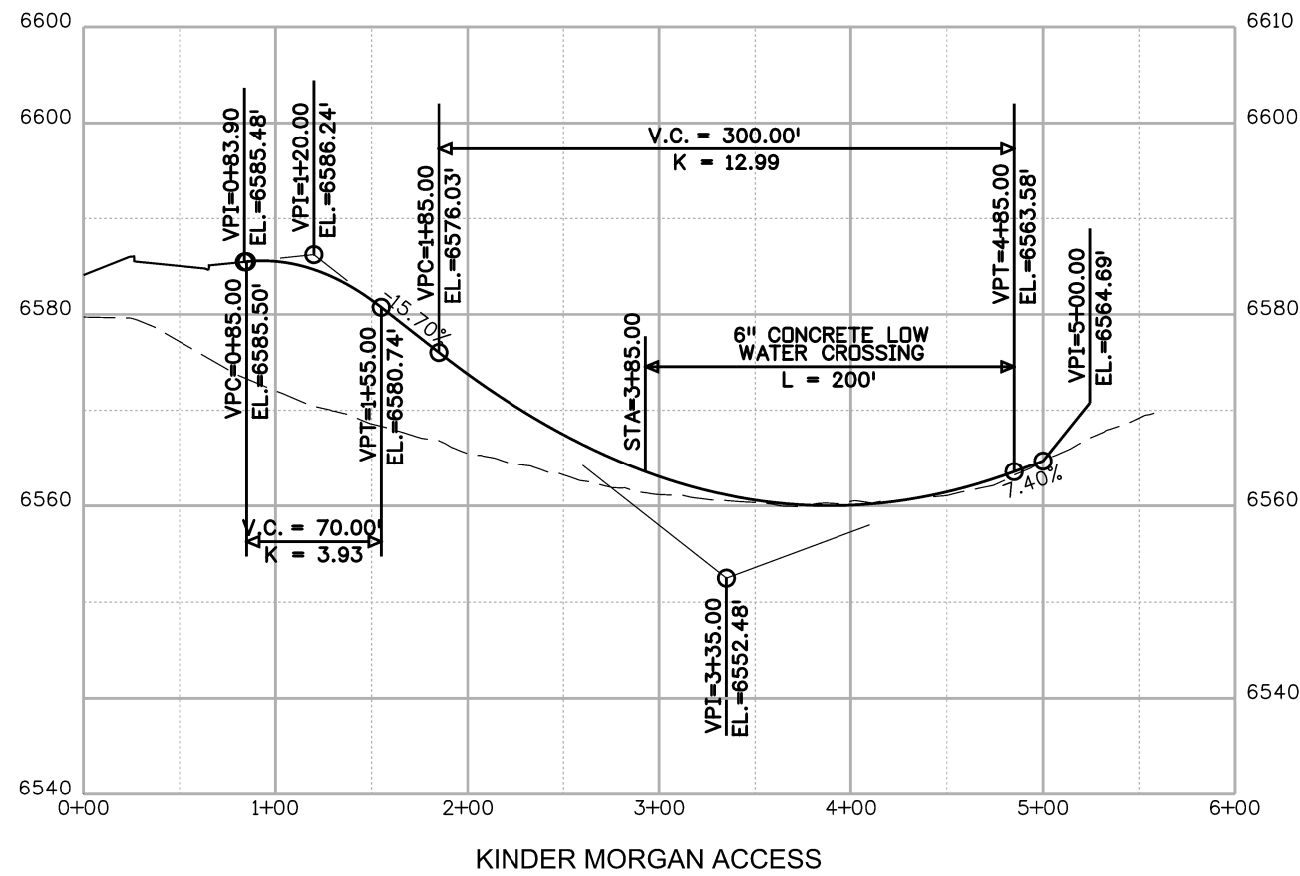
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Designer:	RMP	Structure Numbers	
Detailer:	TAH	Structure Numbers	
Sheet Subset:	DES-PnP	Subset Sheets: 16 of 17	Sheet Number



Know what's below.  
Call before you dig.



- MILL & OVERLAY 2"
- HMA
- CONCRETE SIDEWALK/BIKEWAY
- CONCRETE MEDIAN COVER/RANDOM ROCK/SAN DIEGO BUFF
- CONCRETE CROSS PAN
- CONCRETE CURB RAMP
- ABC
- ABC (RECYCLED ASPHALT PAVEMENT)
- CONCRETE PAVEMENT (8 INCH)
- C&G TYPE 2 (SECTION IB)
- C&G TYPE 2 (SECTION IIB)
- CURB TYPE 2 (SECTION B)



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Print Date: 1/5/2024
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Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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Revised:
Void:

KINDER MORGAN ACCESS ROADWAY PLAN/PROFILE CROSS SECTION			
Designer:	RMP	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	DES-PnP	Subset Sheets:	17 of 17

Sheet Number
--------------

PRELIMINARY - NOT FOR CONSTRUCTION



**04\_Intersection Details**  
**Will follow this page.**





Know what's below.  
Call before you dig.

34+67.35, 60.50' RT (BARNES RD) =  
1+66.21 SW CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

378+47.38, 96.79' LT  
EL = 6656.83  
TOP OF CUT

TYPE 3A DEPRESSED  
LANDING CURB RAMP ON  
RADIUS CITY STANDARD D-8E

378+53.18, 90.58' LT  
EL = 6656.38

PLOWABLE MEDIAN NOSE  
SEE EL PASO COUNTY  
SD\_2-22

378+69.86, 72.46' LT  
EL = 6657.49

378+84.20, 67.06' LT  
EL = 6658.04

RAISED INTERSECTION ISLAND  
CURB RAMP CITY STANDARD D-8K

378+74.75, 58.50' LT  
EL = 6657.94

RAISED INTERSECTION ISLAND  
CURB RAMP CITY STANDARD D-8K

SEE ROADWAY PLAN FOR  
MARKSHEFFEL MEDIAN NOSE  
DETAIL INFORMATION

RAISED INTERSECTION ISLAND  
CURB RAMP CITY STANDARD D-8K

RAISED INTERSECTION ISLAND  
CURB RAMP CITY STANDARD D-8K

378+84.05, 68.36' RT  
EL = 6660.74

379+87.64, 68.75' RT  
EL = 6663.73

378+55.82, 89.83' RT  
EL = 6660.90

TYPE 1 CURB RAMP  
CITY STANDARD D-8B

379+97.30, 68.44' RT  
EL = 6664.00

TYPE 1 CURB RAMP  
CITY STANDARD D-8B

PLOWABLE MEDIAN NOSE  
SEE EL PASO COUNTY  
SD\_2-22

37+78.31, 49.50' RT (BARNES RD) =  
1+56.94 SE CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

378+45.03, 102.44' RT  
EL = 6661.52

378+69.85, 73.34' RT  
EL = 6660.53

377+98.75, 68.50' RT  
(MARKSHEFFEL) =  
+20.00 SE CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

378+74.55, 59.97' RT  
EL = 6660.31

378+33.35, 8.50' LT  
BEGIN CDOT C&G TYPE 2  
(SECTION IB)

378+23.35, 8.50' LT  
END CDOT C&G TYPE 2  
(SECTION IIB)  
BEGIN 10' CURB TRANSITION

NOTE: ALL CURB & GUTTER DIMENSIONS, STATION  
& OFFSET, ELEVATION LABELS, AND CURVE DATA  
ARE TO THE LIP OF PAN UNLESS OTHERWISE NOTED.

34+66.39, 48.70' LT (BARNES RD) =  
+25.00 NW CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

TYPE 3A DEPRESSED  
LANDING CURB RAMP ON  
RADIUS CITY STANDARD D-8E

380+15.65, 89.22' LT  
EL = 6661.05

380+21.16, 95.69' LT  
EL = 6661.50

380+72.01, 68.50' LT (MARKSHEFFEL) =  
1+61.95 NW CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

379+87.71, 66.71' LT  
EL = 6661.02

380+02.05, 73.22' LT  
EL = 6661.23

379+97.15, 59.18' LT  
EL = 6661.44

380+28.00, 26.61' RT  
END CDOT C&G TYPE 2 (SECTION IIB)  
BEGIN 10' CURB TRANSITION

380+38.37, 27.50' RT  
BEGIN CDOT C&G TYPE 2 (SECTION IIB)  
BEGIN CATCH GUTTER

379+96.94, 58.50' RT  
EL = 6663.79

380+22.19, 93.24' RT  
EL = 6665.19

380+82.95, 68.50' RT  
(MARKSHEFFEL) =  
1+46.36 NE CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

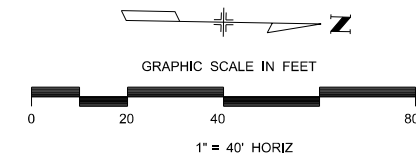
380+34.28,  
105.61' RT  
EL = 6666.38

37+77.35, 60.70' LT (BARNES RD) =  
+10.00 NE CURB RETURN  
SEE BARNES ROAD CURB  
RETURN PROFILE SHEET

ID	POINT #	POINT ID	STATION	OFFSET	ELEV @ LIP OF PAN
2	PRC 2	LIP RTN	378+58.24	64.04' LT	6657.35
	CC 2	3' RAD	378+44.95	60.67' LT	-----
	PT 2	LIP RTN	378+59.84	58.50' LT	6657.51

ID	POINT #	POINT ID	STATION	OFFSET	ELEV @ LIP OF PAN
3	PRC 3	LIP RTN	378+78.31	80.29' LT	6657.59
	CC 3	3' RAD	378+81.50	81.02' LT	-----
	PT 3	LIP RTN	378+83.46	78.40' LT	6657.79
4	PC 4	LIP RTN	378+81.56	58.50' LT	6658.14
	CC 4	3' RAD	378+83.75	59.45' LT	-----
	PT 4	LIP RTN	378+84.55	61.70' LT	6658.16

ID	POINT #	POINT ID	STATION	OFFSET	ELEV @ LIP OF PAN
7	PC 7	LIP RTN	379+87.75	79.89' LT	6660.59
	CC 7	3' RAD	379+89.66	82.67' LT	-----
	PRC 7	LIP RTN	379+92.95	81.92' LT	6660.67
8	PC 8	LIP RTN	379+87.69	61.53' LT	6661.12
	CC 8	3' RAD	379+88.68	59.29' LT	-----
	PT 8	LIP RTN	379+91.00	58.53' LT	6661.28
9	PC 9	LIP RTN	380+10.16	60.56' LT	6661.79
	CC 9	3' RAD	380+12.75	62.81' LT	-----
	PRC 9	LIP RTN	380+11.52	66.02' LT	6661.72
11	PC 11	LIP RTN	379+87.22	61.68' RT	6663.58
	CC 11	3' RAD	379+88.03	59.44' RT	-----
	PT 11	LIP RTN	379+90.22	58.50' RT	6663.60
12	PC 12	LIP RTN	379+89.01	92.04' RT	6664.07
	CC 12	3' RAD	379+91.19	94.75' RT	-----
	PRC 12	LIP RTN	379+94.46	93.58' RT	6664.25
13	PC 13	LIP RTN	380+23.92	58.50' RT	6664.57
	CC 13	3' RAD	380+26.80	60.67' RT	-----
	PRC 13	LIP RTN	380+25.52	64.04' RT	6664.72
16	PRC 16	LIP RTN	378+61.22	66.70' RT	6660.05
	CC 16	3' RAD	378+60.02	63.49' RT	-----
	PT 16	LIP RTN	378+62.61	61.25' RT	6659.99
17	PRC 17	LIP RTN	378+78.81	81.92' RT	6661.09
	CC 17	3' RAD	378+82.10	82.67' RT	-----
	PT 17	LIP RTN	378+84.01	79.89' RT	6661.15
18	PC 18	LIP RTN	378+80.75	59.30' RT	6660.47
	CC 18	3' RAD	378+83.07	60.06' RT	-----
	PT 18	LIP RTN	378+84.07	62.30' RT	6660.62



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 Project No./Code    PPRTA 10444

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Date:	Comments	Init.

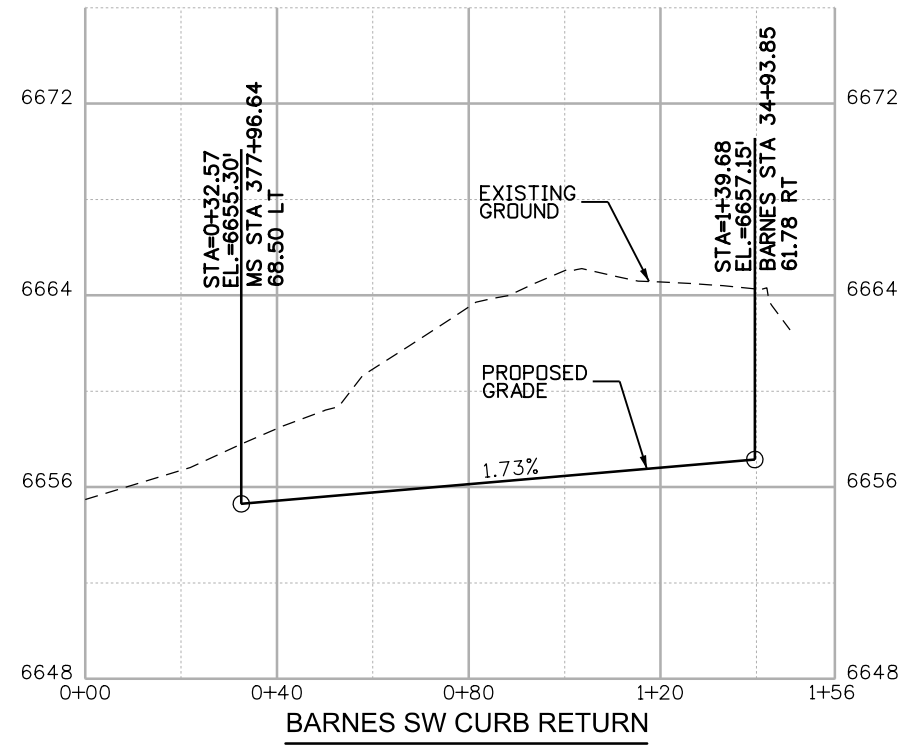
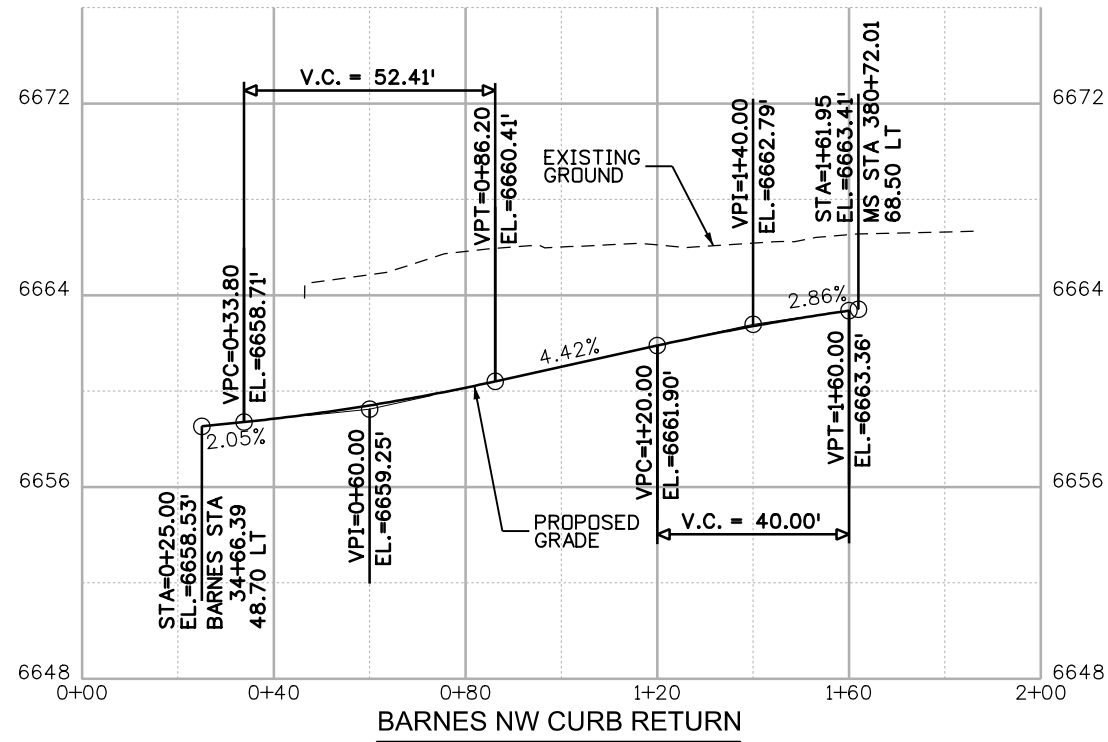
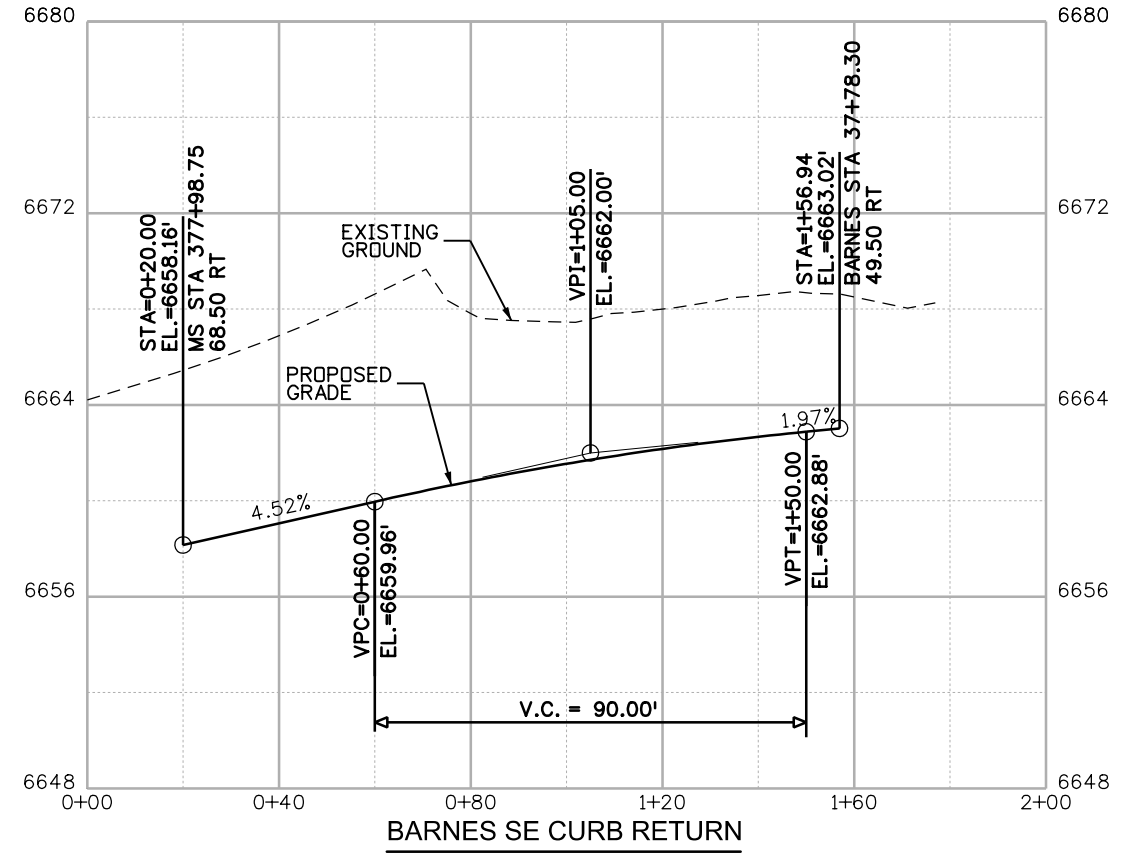
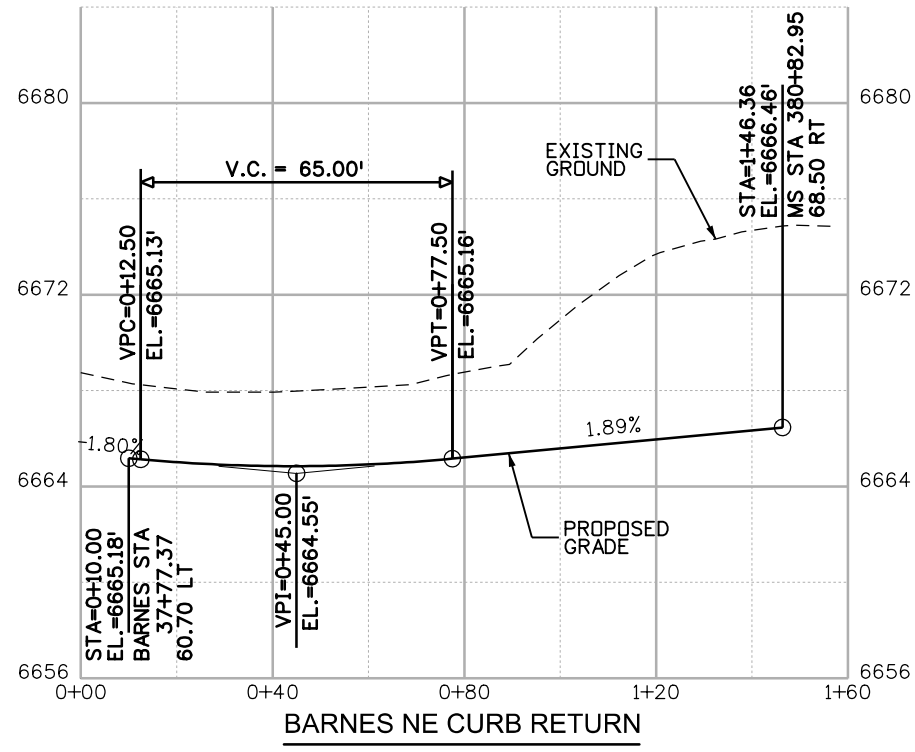
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 Suite 220  
 Colorado Springs, CO 80919  
 Phone: 719-520-5800  
 FAX: 719-520-0108

No Revisions:  
 Revised:  
 Void:

MARKSHEFFEL ROAD  
 INTERSECTION DETAIL  
 BARNES RD

Designer: RMP    Structure Numbers  
 Detailer: JLN  
 Sheet Subset: INT-DET    Subset Sheets: 1 of 6    Sheet Number

**PRELIMINARY - NOT FOR CONSTRUCTION**



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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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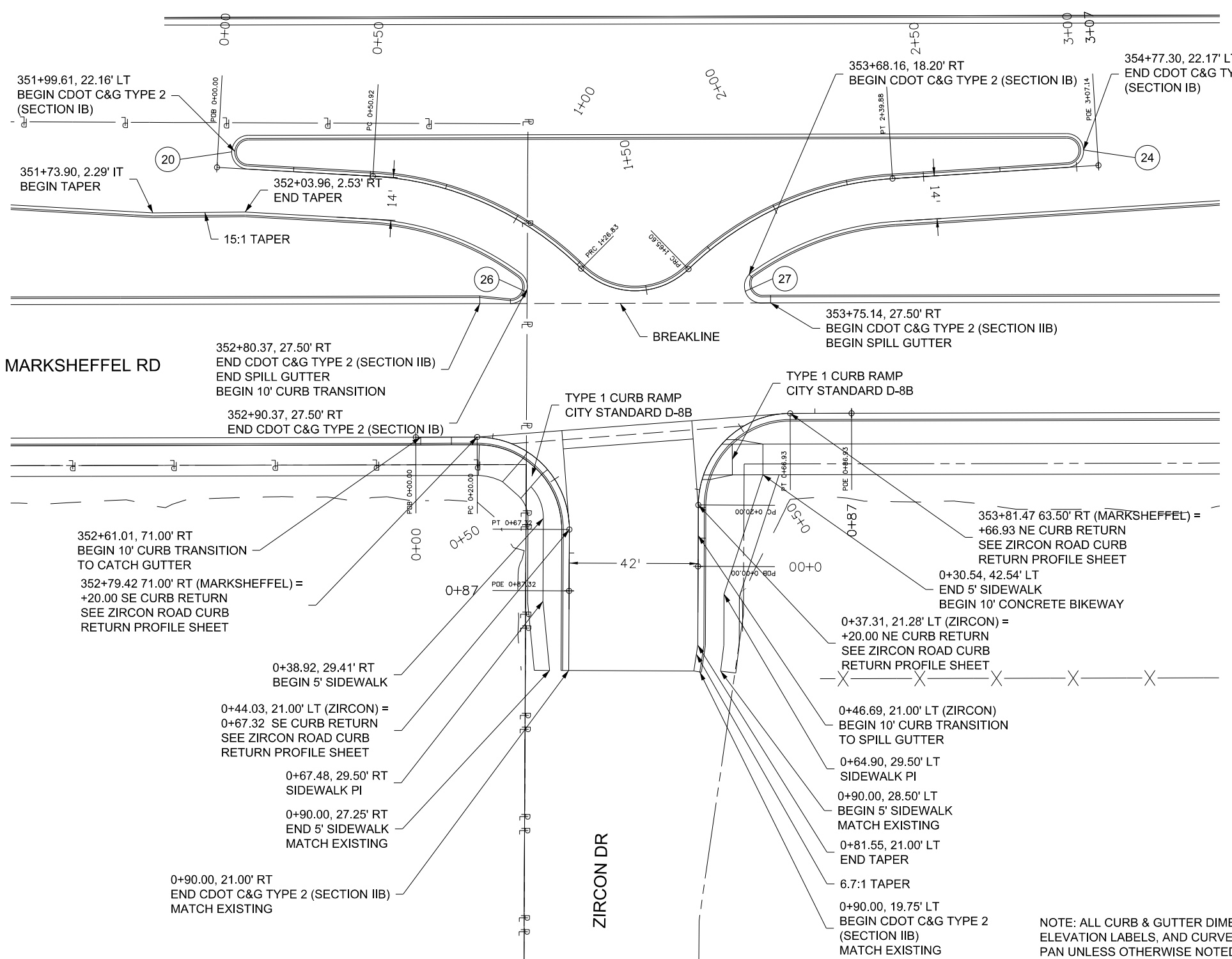
5755 Mark Dabling Blvd.  
Suite 220  
Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:	MARKSHEFFEL ROAD SOUTH BARNES ROAD APPROACH CURB RETURN PROFILES	
Revised:	Designer: RMP	Structure Numbers
Void:	Detailer: TAH	
	Sheet Subset: INT-DET	Subset Sheets: 2 of 6
		Sheet Number



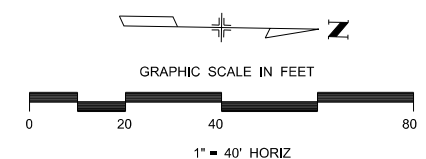
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BM Morrison 11:13:38 PM p:\w\wils-pw\benley.com\p1-18300DES-Detail-int\_03.dgn



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20	PC 22	LIP RTN	352+04.78	16.51' LT	6607.04
	CC 22	5.5' RAD	351+99.61	22.16' LT	-----
	PT 22	LIP RTN	352+05.11	27.50' LT	6606.83
24	PC 26	LIP RTN	354+71.81	27.50' LT	6611.92
	CC 26	5.5' RAD	354+77.30	22.17' LT	-----
	PT 26	LIP RTN	354+72.15	16.51' LT	6612.15
26	PC 28	LIP RTN	352+90.37	27.50' RT	6613.23
	CC 28	5.5' RAD	352+95.59	23.72' RT	-----
	PCC 28	LIP RTN	352+93.65	17.58' RT	6612.84
27	PC 29	LIP RTN	353+68.96	17.51' RT	6614.44
	CC 29	5.5' RAD	353+66.90	23.67' RT	-----
	PCC 29	LIP RTN	353+72.14	27.50' RT	6614.85

NOTE: ALL CURB & GUTTER DIMENSIONS, STATION & OFFSET, ELEVATION LABELS, AND CURVE DATA ARE TO THE LIP OF PAN UNLESS OTHERWISE NOTED.



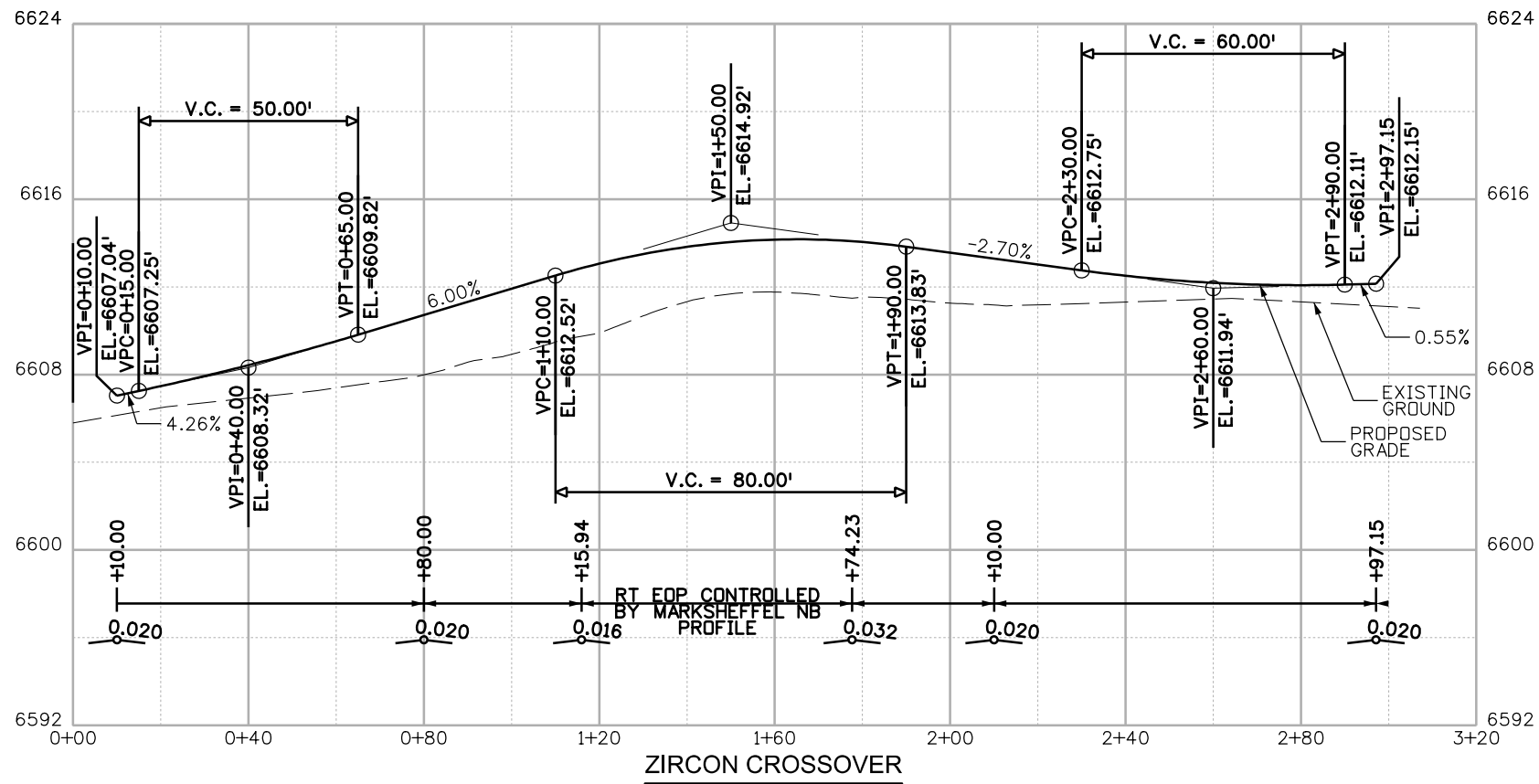
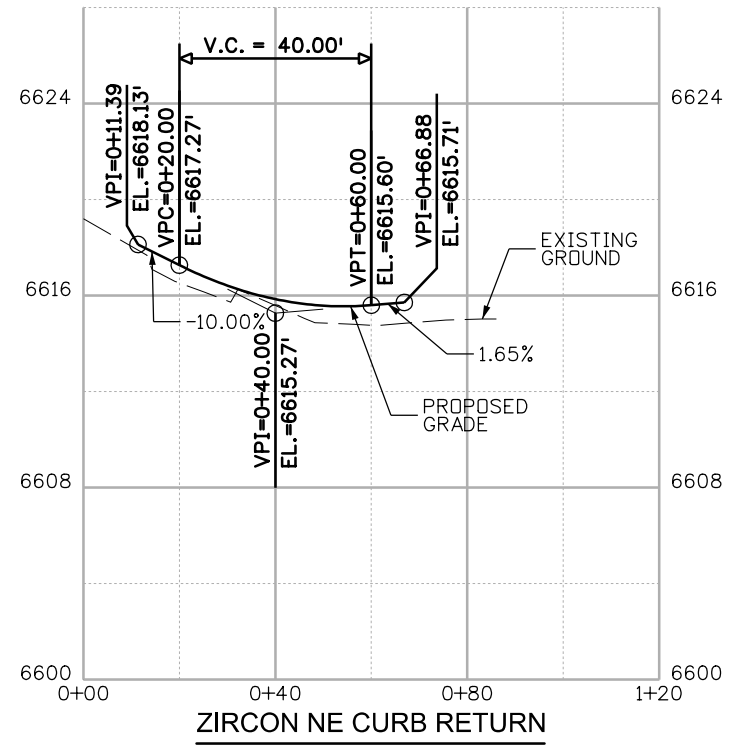
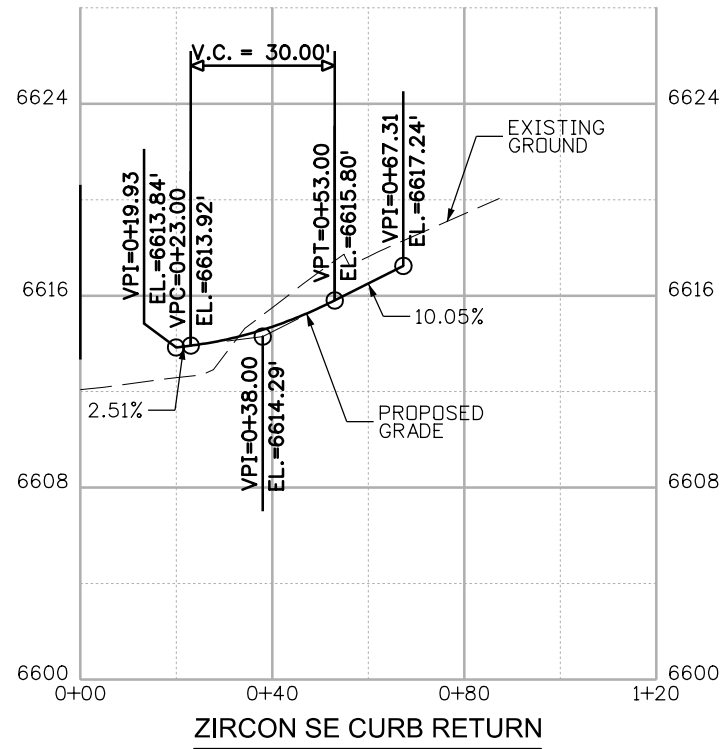
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Horiz. Scale: 1:40
Unit Information
Project No./Code PPRTA 10444

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Date:	Comments	Init.

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No Revisions:	MARKSHEFFEL ROAD INTERSECTION DETAIL ZIRCON DR	
Revised:	Designer: RMP	Structure Numbers
Void:	Detailer: JLN	Sheet Subset: INT-DET
		Subset Sheets: 3 of 6
		Sheet Number

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Print Date: 1/5/2024
File Name: PI-18300DES_Detail-int_04.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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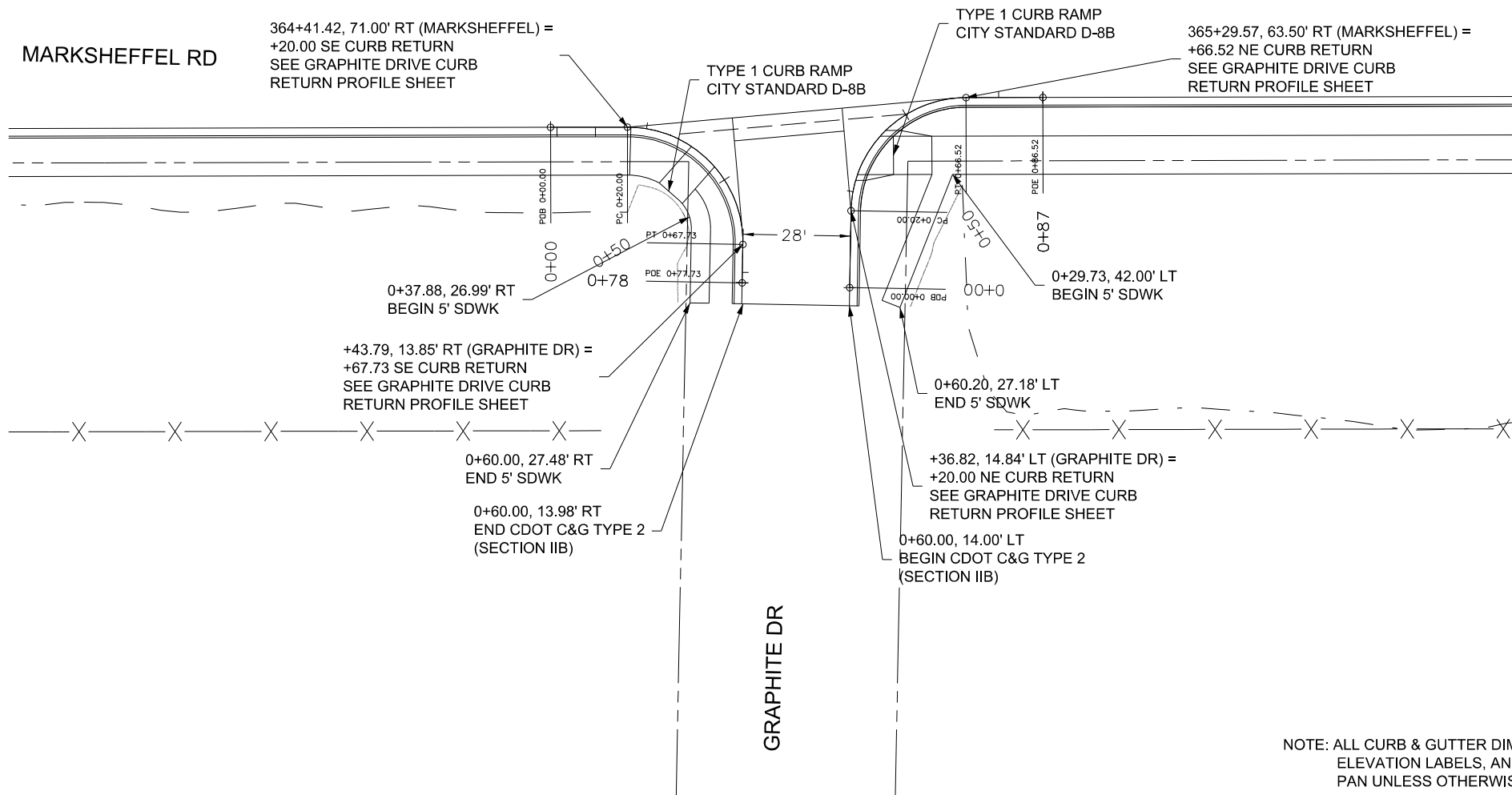
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MARKSHEFFEL ROAD ZIRCON ROAD APPROACH CURB RETURN PROFILES			
Designer:	RMP	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	INT-DET	Subset Sheets:	4 of 6

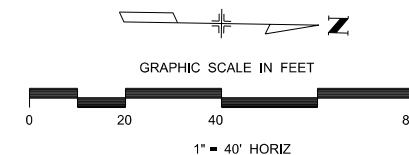
Sheet Number
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NOTE: ALL CURB & GUTTER DIMENSIONS, STATION & OFFSET, ELEVATION LABELS, AND CURVE DATA ARE TO THE LIP OF PAN UNLESS OTHERWISE NOTED.



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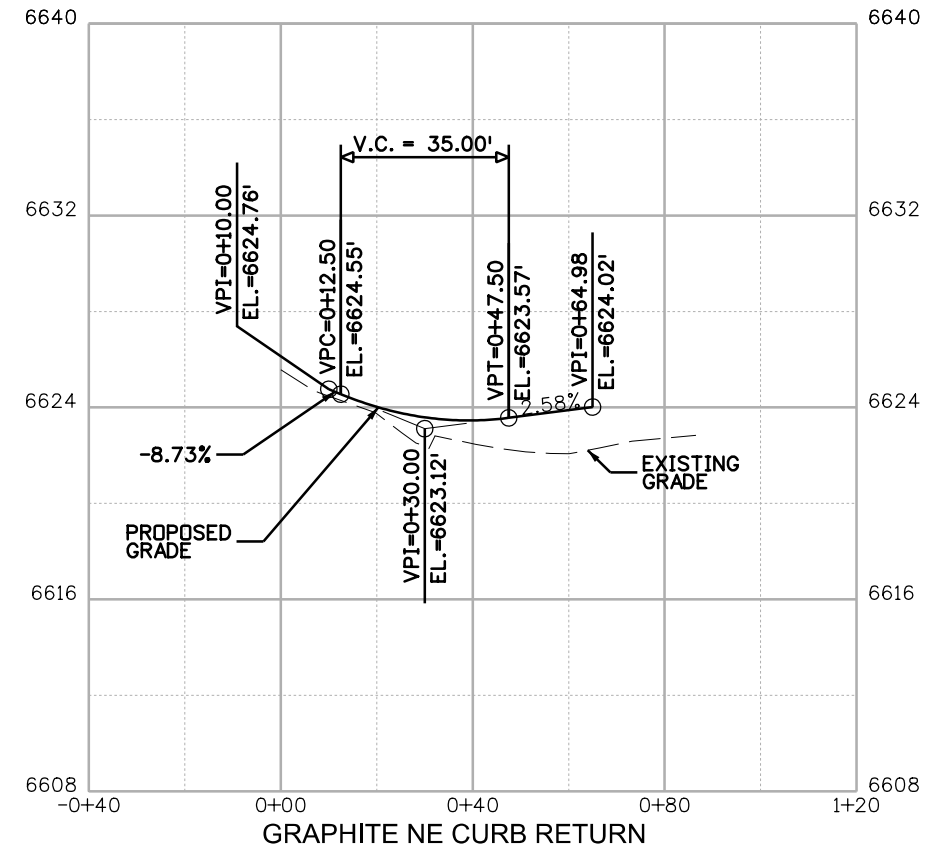
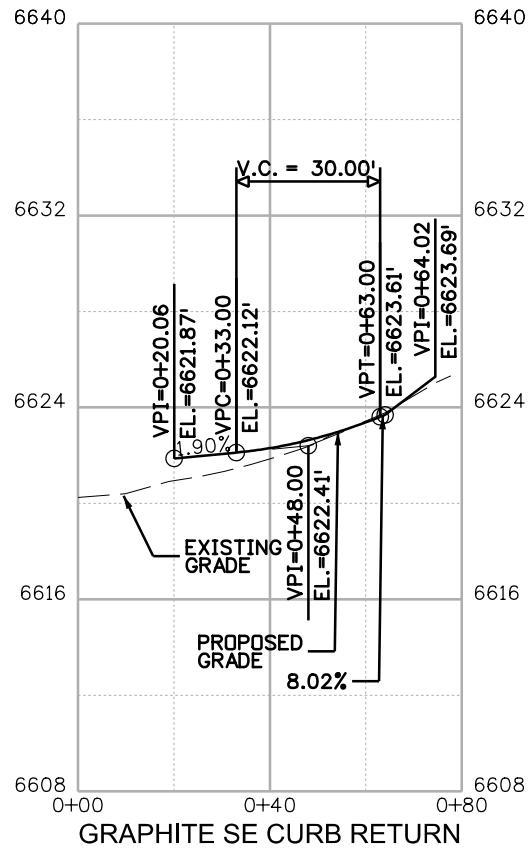
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Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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FAX: 719-520-0108

No Revisions:	MARKSHEFFEL ROAD INTERSECTION DETAIL GRAPHITE RD		
Revised:	Designer: RMP	Structure Numbers	
Void:	Detailer: JLN	Sheet Subset: INT-DET	
		Subset Sheets: 5 of 6	Sheet Number

**PRELIMINARY - NOT FOR CONSTRUCTION**



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File Name: P1-18300DES_Detail-int_06.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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FAX: 719-520-0108

No Revisions:	<b>MARKSHEFFEL ROAD GRAPHITE ROAD APPROACH CURB RETURN PROFILES</b>	
Revised:		
Void:		
Designer: RMP	Structure Numbers	Sheet Number
Detailer: TAH		
Sheet Subset: INT-DET	Subset Sheets: 6 of 6	



**05\_Signing and Striping  
Will follow this page.**



**PRELIMINARY - NOT FOR CONSTRUCTION**

Sign Number	Station	Direction	Location	Sign	Panel Size (in.)	Background Color	Legend	202-00810	202-00821	614-00011	614-00216	Notes
								REMOVAL OF GROUND SIGN	REMOVAL OF SIGN PANEL	SIGN PANEL (CLASS I)	STEEL SIGN POST (2X2 INCH TUBING)	
<b>Northbound Marksheffel Road</b>												
101	x 328+00	NB	RHT	W8-18	REMOVE	Yellow	ROAD MAY FLOOD	1				
102	x 330+15	NB	RHT	W9-1	REMOVE	Yellow	RIGHT LANE ENDS	1				
103	x 334+00	NB	RHT	W4-2	REMOVE	Yellow	[lane ends]	1				
104	a 334+07	NB	RHT	R2-1(50)	36 x 48	White	SPEED LIMIT 50			12	14	
105	x 337+00	NB	RHT	W6-2	REMOVE	Yellow	[divided highway ends]	1				
106	x 340+90	NB	RHT	W6-3	REMOVE	Yellow	[two-way traffic]	1				
107	x 343+30	NB	RHT	W8-19	REMOVE	Yellow	[flood gauge]	1				
108	x 347+80	NB	RHT	W2-2R	REMOVE	Yellow	[side road warning]	1				
		NB	RHT	W16-8P		Yellow	Zircon Dr					
109	a 348+32	NB	RHT	W2-2R	36 x 36	Yellow	[side road warning]			9	14	
		NB	RHT	W16-8P	36 x 12	Yellow	Zircon Dr**			3		
110	a 350+46	NB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
111	x 351+15	NB	RHT	R3-7R	REMOVE	White	RIGHT LANE MUST TURN RIGHT	1				
112	a 352+32	NB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
		SB	LFT	R5-1	36 x 36	Red	DO NOT ENTER			9		
113	a 352+55	SB	MED	R5-1	36 x 36	Red	DO NOT ENTER			9	13	
114	x 352+90	NB	RHT	D3-1	REMOVE	Green	Zircon Dr	1				
		NB	RHT	D3-1	REMOVE	Green	Marksheffel Rd					
115	x 353+60	WB	RHT	R1-1	REMOVE	Red	STOP	1				
116	a 353+71	NB	MED	R4-7R	36 x 48	White	[keep right]			12	14	
		NB	MED	OM3-L	12 x 36	Yellow	[object marker]			3		
117	x 356+25	NB	RHT	W2-2R	REMOVE	Yellow	[side road warning]	1				
				W16-8P		Yellow	Graphite Dr					
118	a 360+00	NB	RHT	W2-2R	36 x 36	Yellow	[side road warning]			9	14	
				W16-8P	48 x 12	Yellow	Graphite Dr**			4		
119	a 362+07	NB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
120	x 363+00	NB	RHT	R3-7R	REMOVE	White	RIGHT LANE MUST TURN RIGHT	1				
121	a 363+50	NB	MED	D3-2	72 x 36	Green	Barnes Rd NEXT SIGNAL**			18	26	
122	a 364+25	NB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
		SB	LFT	R5-1	36 x 36	Red	DO NOT ENTER			9		
123	a 364+25	SB	MED	R5-1	36 x 36	Red	DO NOT ENTER			9	13	
124	x 364+60	NB	RHT	D3-1	REMOVE	Green	Graphite Dr	1				
				D3-1	REMOVE	Green	Marksheffel Rd					
125	a 364+85	WB	MED	R6-1R	36 x 12	White	ONE WAY			3		
126	x 365+05	WB	RHT	R1-1	REMOVE	Red	STOP	1				
127	a 367+80	NB	RHT	R2-1(50)	36 x 48	White	SPEED LIMIT 50			12	14	
128	x 367+80	NB	RHT	R2-1(50)	REMOVE	White	SPEED LIMIT 50	1				
129	x 371+35	NB	RHT	W12-54	REMOVE	Yellow	TRUCKS ENTERING HWY	1				
130	x 374+10	NB	RHT	R14-1(special)	REMOVE	White	TRUCK ROUTE <^	1				
131	a 375+15	NB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
132	x 376+80	NB	RHT	R3-7L	REMOVE	White	LEFT LANE MUST TURN LEFT	1				
133	x 378+35	NB	RHT	R3-7L	REMOVE	White	LEFT LANE MUST TURN LEFT	1				
134	a 378+40	NB	RHT	R1-2	36x36x36	Red	YIELD			3.9	13	
135	x 379+00	EB	T	OM4-3	REMOVE	Red	[object marker]	1				
				OM4-3	REMOVE	Red	[object marker]					
				W1-7		Yellow	<->					
136	a 380+05	NB	OVR	R3-5L	30 x 36	White	[left arrow] ONLY			7.5		Mount to signal mast arm
137	a 380+05	NB	OVR	R3-5L	30 x 36	White	[left arrow] ONLY			7.5		Mount to signal mast arm
138	a 380+05	NB	OVR	R14-1(special)	24 x 30	White	TRUCK ROUTE <A**			5		Mount to signal mast arm
139	a 380+05	NB	OVR	D3-1	84 x 24	Green	Barnes Rd**			14		Mount to signal mast arm
140	a 380+20	NB	MED	R4-7R	36 x 48	White	[keep right]			12	14	
				OM3-L	12 x 36	Yellow	[object marker]			3		
141	x 382+20	NB	RHT	R2-1(50)	REMOVE	White	SPEED LIMIT 50	1				
142	a 382+50	NB	RHT	R2-1(50)	36 x 48	White	SPEED LIMIT 50			12	14	
<b>Zircon Dr</b>												
207	b 0+34	NB	RHT	D3-1	42 x 12	Green	Zircon Dr**			3.5		
		WB	RHT	D3-1	60 x 12	Green	Marksheffel Rd**			5	15	
		WB	RHT	R1-1	36 x 36	Red	STOP			9		
208	x 0+45	EB	RHT	R3-17	REMOVE	White	BIKE LANE	1				
209	x 0+80	EB	RHT	R2-1(30)	REMOVE	White	SPEED LIMIT 30	1				
210	a 0+85	EB	RHT	R3-17	24 x 18	White	BIKE LANE			3		
211	a 1+88	EB	RHT	R2-1(30)	30 x 36	White	SPEED LIMIT 30			7.5		
<b>Graphite Dr</b>												
212	b 0+30	NB	RHT	D3-1	48 x 12	Green	Graphite Dr**			4		
		WB	RHT	D3-1	60 x 12	Green	Marksheffel Rd**			5	15	
		WB	RHT	R1-1	36 x 36	Red	STOP			9		
213	x 0+40	EB	RHT	R3-17	REMOVE	White	BIKE LANE	1				
214	x 0+50	WB	RHT	R3-17	REMOVE	White	BIKE LANE	1				
		WB	RHT	R3-17bP		White	ENDS					
215	x 0+70	EB	RHT	R2-1(30)	REMOVE	White	SPEED LIMIT 30	1				
216	a 0+92	EB	RHT	R3-17	24 x 18	White	BIKE LANE			3		
217	a 1+41	WB	RHT	R3-17	24 x 18	White	BIKE LANE			3		
		WB	RHT	R3-17bP	24 x 8	White	ENDS			1.33		
218	a 1+82	EB	RHT	R2-1(30)	30 x 36	White	SPEED LIMIT 30			7.5		

**\*\*Boldface indicates special layout**  
 Direction NB: Northbound  
 Direction SB: Southbound  
 Direction EB: Eastbound  
 Direction WB: Westbound  
 Location RHT: Right side of road  
 Location LFT: Left side of road  
 Location MED: Within median  
 Location T: Far side of T-intersection  
 Location OVR: Overhead  
 Color FYG: Fluorescent Yellow-Green

Sign Number	Station	Direction	Location	Sign	Panel Size (in.)	Background Color	Legend	202-00810	202-00821	614-00011	614-00216	Notes
								REMOVAL OF GROUND SIGN	REMOVAL OF SIGN PANEL	SIGN PANEL (CLASS I)	STEEL SIGN POST (2X2 INCH TUBING)	
<b>Southbound Marksheffel Road</b>												
143	a 384+15	SB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
144	x 382+20	SB	RHT	W8-18	REMOVE	Yellow	ROAD MAY FLOOD	1				
145	x 381+10	SB	RHT	R3-7R	REMOVE	White	RIGHT LANE MUST TURN RIGHT	1				
146	a 380+25	SB	RHT	R1-2	36x36x36	Red	YIELD			3.9	13	
147	a 378+70	SB	OVR	R3-5L	30 x 36	White	[left arrow] ONLY			7.5		Mount to signal mast arm
148	a 378+70	SB	OVR	R3-5L	30 x 36	White	[left arrow] ONLY			7.5		Mount to signal mast arm
149	a 378+70	SB	OVR	R14-1(special)	24 x 30	White	TRUCK ROUTE >A**			5		Mount to signal mast arm
150	a 378+70	SB	OVR	D3-1	84 x 24	Green	Barnes Rd**			14		Mount to signal mast arm
151	a 378+50	SB	MED	R4-7R	36 x 48	White	[keep right]			12	14	
				OM3-L	12 x 36	Yellow	[object marker]			3		
152	x 378+50	SB	RHT	Special	REMOVE	Blue	BEGIN COUNTY MAINTENANCE	1				
		NB	LFT	Special	REMOVE	Blue	END COUNTY MAINTENANCE					
153	x 376+60	SB	RHT	R2-1(50)	REMOVE	White	SPEED LIMIT 50	1				
154	a 372+00	SB	RHT	R2-1(50)	36 x 48	White	SPEED LIMIT 50			12	14	
155	x 371+90	SB	RHT	W2-2L	REMOVE	Yellow	[side road warning]	1				
				W16-8P		Yellow	Graphite Dr					
156	a 366+89	SB	MED	D3-2	60 x 36	Green	Zircon Dr NEXT LEFT**			15	26	
157	x 363+25	SB	RHT	Special	REMOVE	Yellow	WATCH FOR HIGH WATER	1				
158	x 362+15	SB	RHT	W2-2L	REMOVE	Yellow	[side road warning]	1				
				W16-8P		Yellow	Zircon Dr					
159	b 354+73	SB	MED	W12-1	36 x 36	Yellow	[double arrow]			9		
		SB	MED	OM3-C	12 x 36	Yellow	[object marker]			3		
		NB	LFT	R5-1a	42 x 30	Red	WRONG WAY			8.75		
160	a 353+80	SB	MED	R1-2	36x36x36	Red	YIELD			3.9	16	
		SB	MED	R3-4	36 x 36	White	[no u-turn]			9		
161	a 353+71	SB	MED	R1-2	36x36x36	Red	YIELD			3.9	13	
		NB	LFT	R5-1	36 x 36	Red	DO NOT ENTER			9		
162	a 352+92	SB	MED	R4-7R	36 x 48	White	[keep right]			12	14	
		SB	MED	OM3-L	12 x 36	Yellow	[object marker]			3		
163	a 352+64	SB	MED	W4-1L	36 x 36	Yellow	[Merging Traffic]			9	13	
164	a 349+09	SB	MED	W4-1L	36 x 36	Yellow	[Merging Traffic]			9	13	
165	x 345+00	SB	RHT	R2-1(50)	REMOVE	White	SPEED LIMIT 50	1				
166	x 343+70	SB	RHT	W8-19	REMOVE	Yellow	[flood gauge]	1				
167	a 341+52	SB	MED	D3-2	84 x 36	Green	N Carefree Cir NEXT SIGNAL**			21	26	
168	x 340+95	SB	RHT	W6-1	REMOVE	Yellow	[divided highway]	1				
169	x 337+00	SB	MED	R4-7R	REMOVE	White	[keep right]	1				
170	a 335+38	SB	RHT	R3-7R	36 x 36	White	RIGHT LANE MUST TURN RIGHT			9	13	
<b>Eastbound Barnes Road</b>												
171	x 16+85											



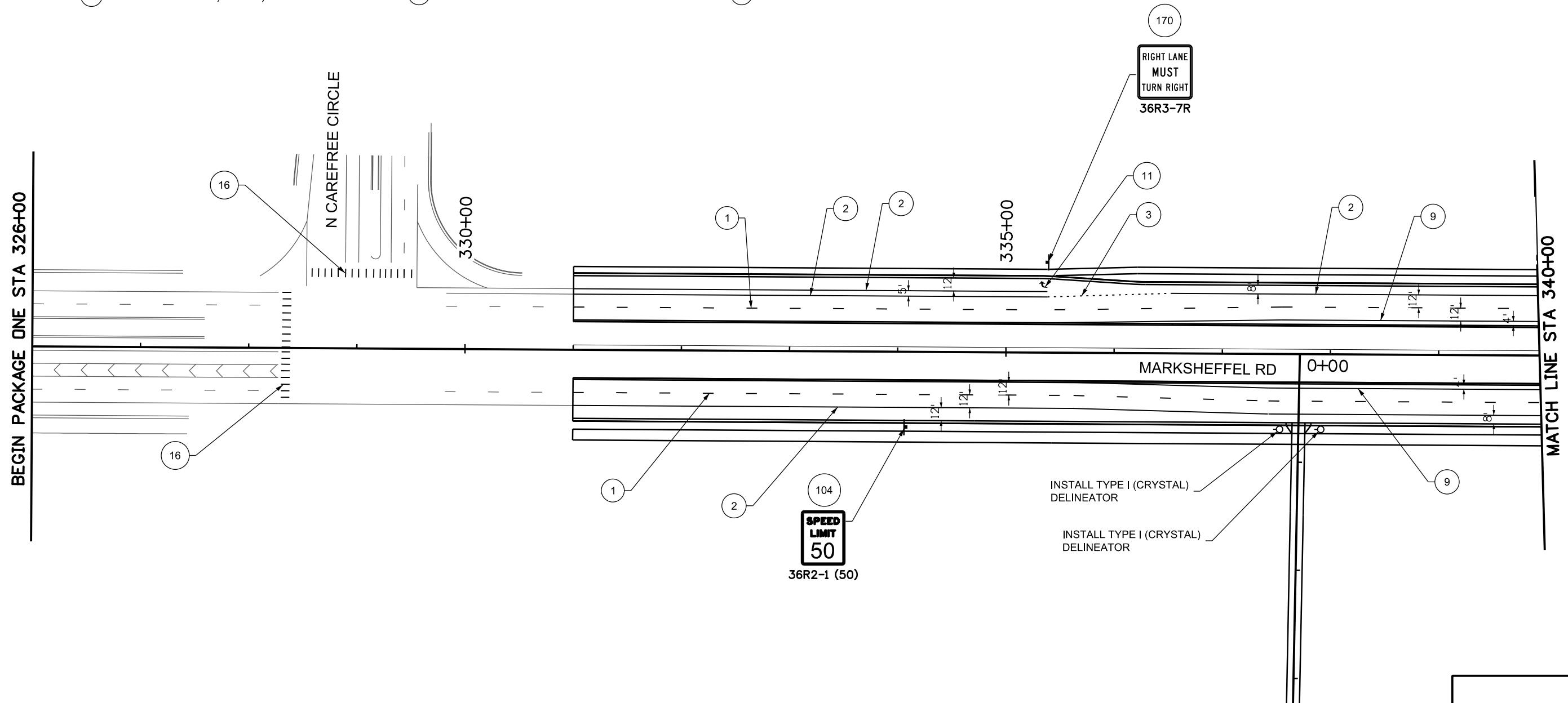
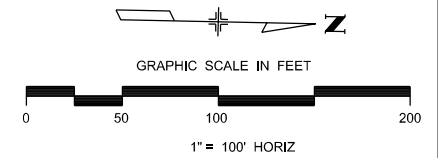




Know what's below.  
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### PAVEMENT MARKING LEGEND

- |                                       |                                       |                      |
|---------------------------------------|---------------------------------------|----------------------|
| ① LANE LINES, WHITE, 4" WIDE          | ⑦ LANE DROP LINE, WHITE, 8" WIDE      | ⑬ MERGE ARROW SYMBOL |
| ② EDGE LINE, WHITE, 4" WIDE           | ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE | ⑭ SCHOOL SYMBOL      |
| ③ DOTTED LINE, WHITE, 4" WIDE         | ⑨ EDGE LINE, YELLOW, 4" WIDE          | ⑮ ONLY SYMBOL        |
| ④ CHANNELIZING LINE, WHITE, 8" WIDE   | ⑩ EXTENSION LINE, YELLOW, 4" WIDE     | ⑯ CROSSWALK MARKINGS |
| ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE | ⑪ RIGHT ARROW SYMBOL                  | ⑰ YIELD LINE         |
| ⑥ EXTENSION LINE, WHITE, 8" WIDE      | ⑫ LEFT ARROW SYMBOL                   | ⑱ STOP LINE          |



NOTE: SEE REMOVAL SHEETS FOR SIGNS TO BE REMOVED.

Print Date: 10/18/2023
File Name: P1-18300SS_Plan_01.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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 5755 Mark Dabling Blvd.  
 Suite 220  
 Colorado Springs, CO 80919  
 Phone: 719-520-5800  
 FAX: 719-520-0108

No Revisions:	
Revised:	
Void:	
MARKSHEFFEL ROAD SIGNING & STRIPING PLAN	
Designer: EJL	Structure Numbers
Detailer: JLN	
Sheet Subset: SS	Subset Sheets: 3 of 10

Sheet Number **91**

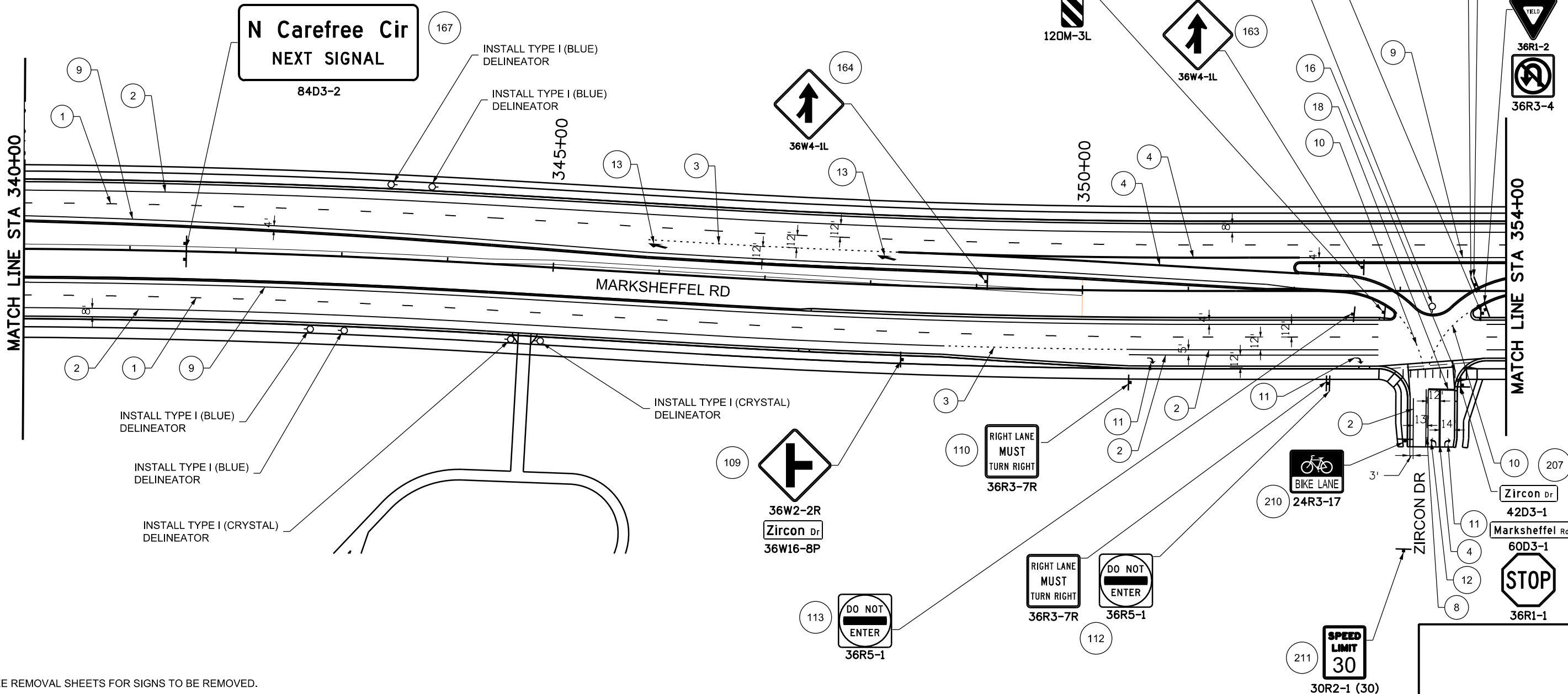
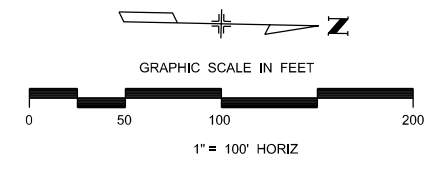
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### PAVEMENT MARKING LEGEND

- |                                       |                                       |                      |
|---------------------------------------|---------------------------------------|----------------------|
| ① LANE LINES, WHITE, 4" WIDE          | ⑦ LANE DROP LINE, WHITE, 8" WIDE      | ⑬ MERGE ARROW SYMBOL |
| ② EDGE LINE, WHITE, 4" WIDE           | ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE | ⑭ SCHOOL SYMBOL      |
| ③ DOTTED LINE, WHITE, 4" WIDE         | ⑨ EDGE LINE, YELLOW, 4" WIDE          | ⑮ ONLY SYMBOL        |
| ④ CHANNELIZING LINE, WHITE, 8" WIDE   | ⑩ EXTENSION LINE, YELLOW, 4" WIDE     | ⑯ CROSSWALK MARKINGS |
| ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE | ⑪ RIGHT ARROW SYMBOL                  | ⑰ YIELD LINE         |
| ⑥ EXTENSION LINE, WHITE, 8" WIDE      | ⑫ LEFT ARROW SYMBOL                   | ⑱ STOP LINE          |



NOTE: SEE REMOVAL SHEETS FOR SIGNS TO BE REMOVED.

Print Date: 10/18/2023
File Name: P1-18300SS_Plan_02.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

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No Revisions:	MARKSHEFFEL ROAD SIGNING & STRIPING PLAN		
Revised:	Designer: EJL	Structure Numbers	
Void:	Detailer: JLN	Sheet Subset: SS	Subset Sheets: 4 of 10
			Sheet Number 92

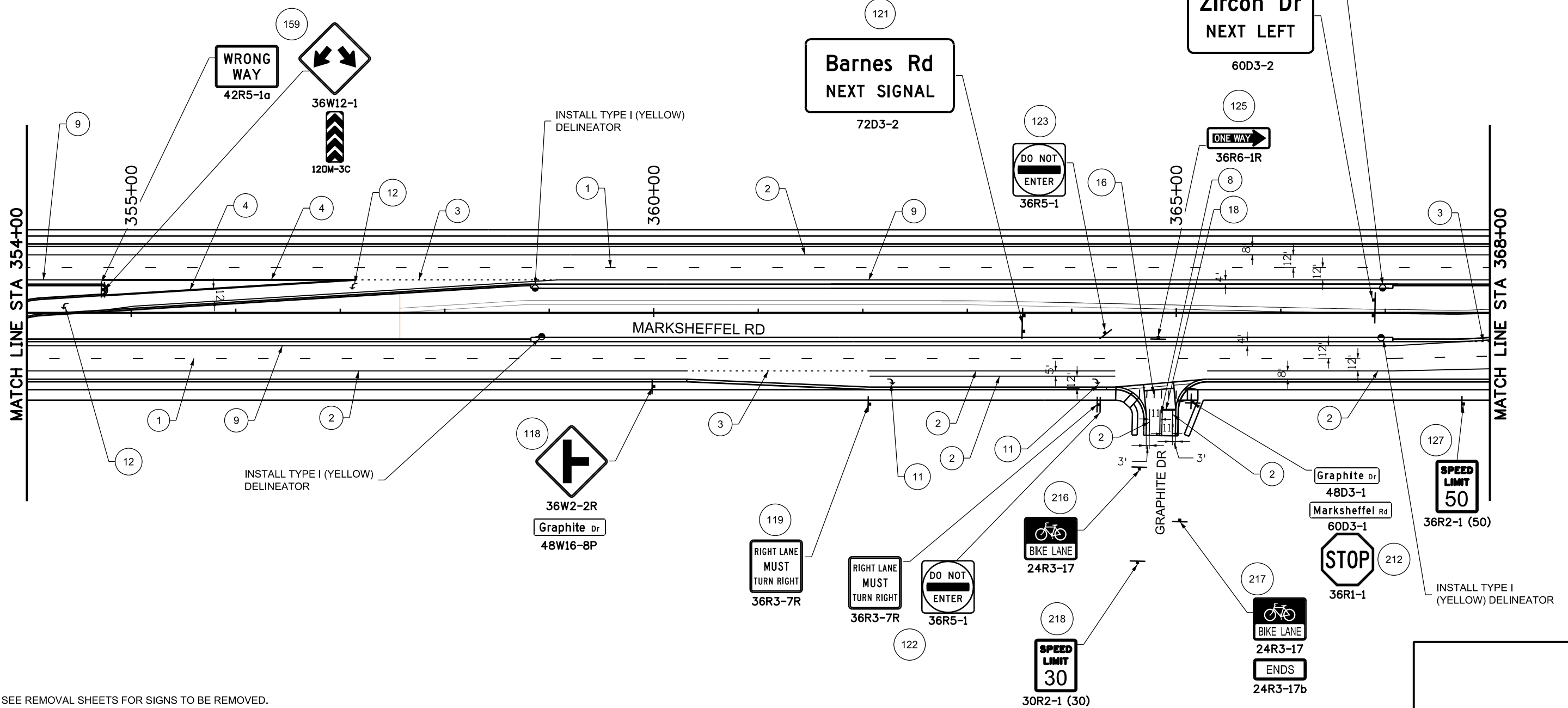
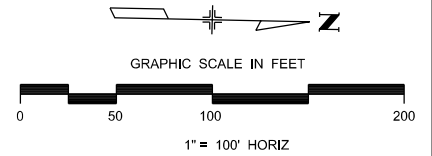
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### PAVEMENT MARKING LEGEND

- |                                       |                                       |                      |
|---------------------------------------|---------------------------------------|----------------------|
| ① LANE LINES, WHITE, 4" WIDE          | ⑦ LANE DROP LINE, WHITE, 8" WIDE      | ⑬ MERGE ARROW SYMBOL |
| ② EDGE LINE, WHITE, 4" WIDE           | ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE | ⑭ SCHOOL SYMBOL      |
| ③ DOTTED LINE, WHITE, 4" WIDE         | ⑨ EDGE LINE, YELLOW, 4" WIDE          | ⑮ ONLY SYMBOL        |
| ④ CHANNELIZING LINE, WHITE, 8" WIDE   | ⑩ EXTENSION LINE, YELLOW, 4" WIDE     | ⑯ CROSSWALK MARKINGS |
| ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE | ⑪ RIGHT ARROW SYMBOL                  | ⑰ YIELD LINE         |
| ⑥ EXTENSION LINE, WHITE, 8" WIDE      | ⑫ LEFT ARROW SYMBOL                   | ⑱ STOP LINE          |



NOTE: SEE REMOVAL SHEETS FOR SIGNS TO BE REMOVED.

Print Date: 10/18/2023
File Name: P1-18300SS_Plan_03.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

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MARKSHEFFEL ROAD SIGNING & STRIPING PLAN			
Designer:	EJL	Structure	
Detailer:	JLN	Numbers	
Sheet Subset:	SS	Subset Sheets: 5	of 10

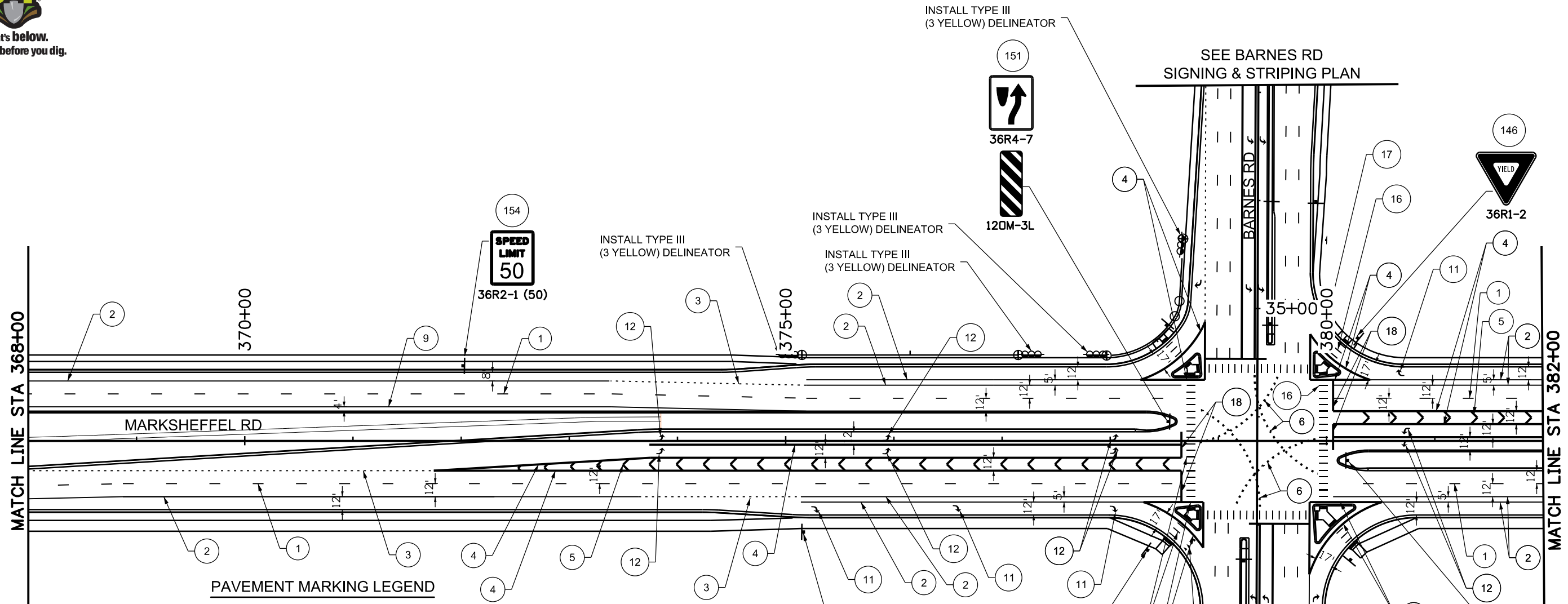
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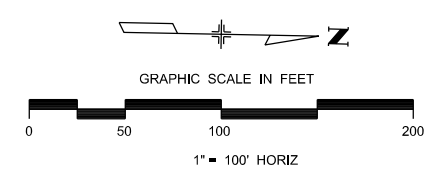
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NOTES: SIGNAL MAST ARM-MOUNTED SIGNS SHOWN ON TRAFFIC SIGNAL PLAN.  
SEE REMOVAL SHEETS FOR SIGNS TO BE REMOVED.



PAVEMENT MARKING LEGEND

- ① LANE LINES, WHITE, 4" WIDE
- ② EDGE LINE, WHITE, 4" WIDE
- ③ DOTTED LINE, WHITE, 4" WIDE
- ④ CHANNELIZING LINE, WHITE, 8" WIDE
- ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE
- ⑥ EXTENSION LINE, WHITE, 8" WIDE
- ⑦ LANE DROP LINE, WHITE, 8" WIDE
- ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE
- ⑨ EDGE LINE, YELLOW, 4" WIDE
- ⑩ EXTENSION LINE, YELLOW, 4" WIDE
- ⑪ RIGHT ARROW SYMBOL
- ⑫ LEFT ARROW SYMBOL
- ⑬ MERGE ARROW SYMBOL
- ⑭ SCHOOL SYMBOL
- ⑮ ONLY SYMBOL
- ⑯ CROSSWALK MARKINGS
- ⑰ YIELD LINE
- ⑱ STOP LINE



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Print Date: 10/18/2023
File Name: P1-18300SS_Plan_04.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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MARKSHEFFEL ROAD SIGNING & STRIPING PLAN			
Designer:	EJL	Structure	
Detailer:	JLN	Numbers	
Sheet Subset:	SS	Subset Sheets: 6	of 10

Sheet Number	94
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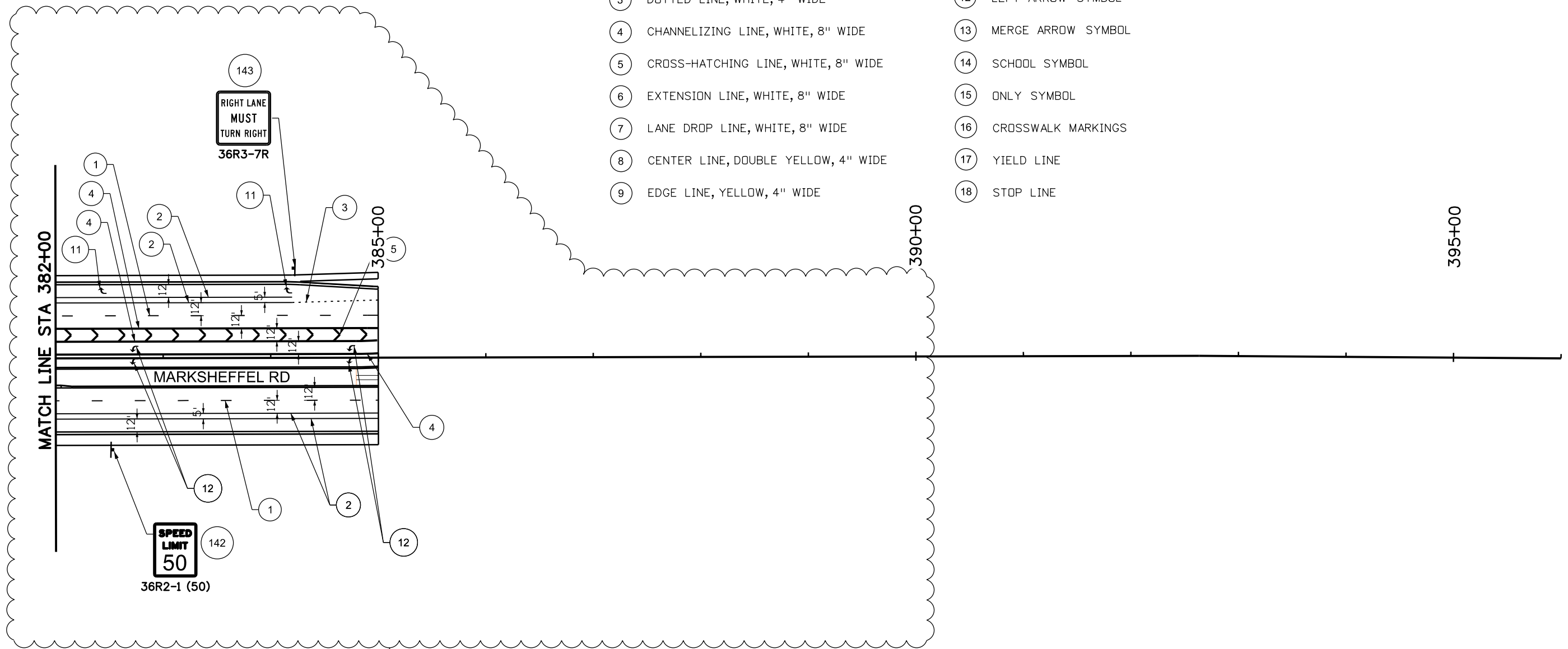


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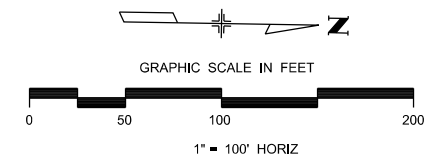
### PAVEMENT MARKING LEGEND

NOTE: SEE REMOVAL SHEETS FOR SIGNS TO BE REMOVED.

- ① LANE LINES, WHITE, 4" WIDE
- ② EDGE LINE, WHITE, 4" WIDE
- ③ DOTTED LINE, WHITE, 4" WIDE
- ④ CHANNELIZING LINE, WHITE, 8" WIDE
- ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE
- ⑥ EXTENSION LINE, WHITE, 8" WIDE
- ⑦ LANE DROP LINE, WHITE, 8" WIDE
- ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE
- ⑨ EDGE LINE, YELLOW, 4" WIDE
- ⑩ EXTENSION LINE, YELLOW, 4" WIDE
- ⑪ RIGHT ARROW SYMBOL
- ⑫ LEFT ARROW SYMBOL
- ⑬ MERGE ARROW SYMBOL
- ⑭ SCHOOL SYMBOL
- ⑮ ONLY SYMBOL
- ⑯ CROSSWALK MARKINGS
- ⑰ YIELD LINE
- ⑱ STOP LINE



THE INTERIM SIGNING AND STRIPING THROUGH THIS TRANSITION AREA WILL BE HANDLED WITH CONSTRUCTION PHASING PLANS AT A FUTURE TIME.



J:\Naumann\_314441 PM.dwg \wils-pw\benley.com\wils-pw\Documents\8100-TRN-City of Colorado\_Springs, CO\21-100-183-00\183000\Traffic\ITS\Drawings\PI-18300SS\_Plan\_05.dgn

Print Date: 10/13/2023
File Name: P1-18300SS_Plan_05.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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**COLORADO SPRINGS**  
OLYMPIC CITY USA

**PPRTA**  
PLANETAL TRANSPORTATION

**WILSON & COMPANY**  
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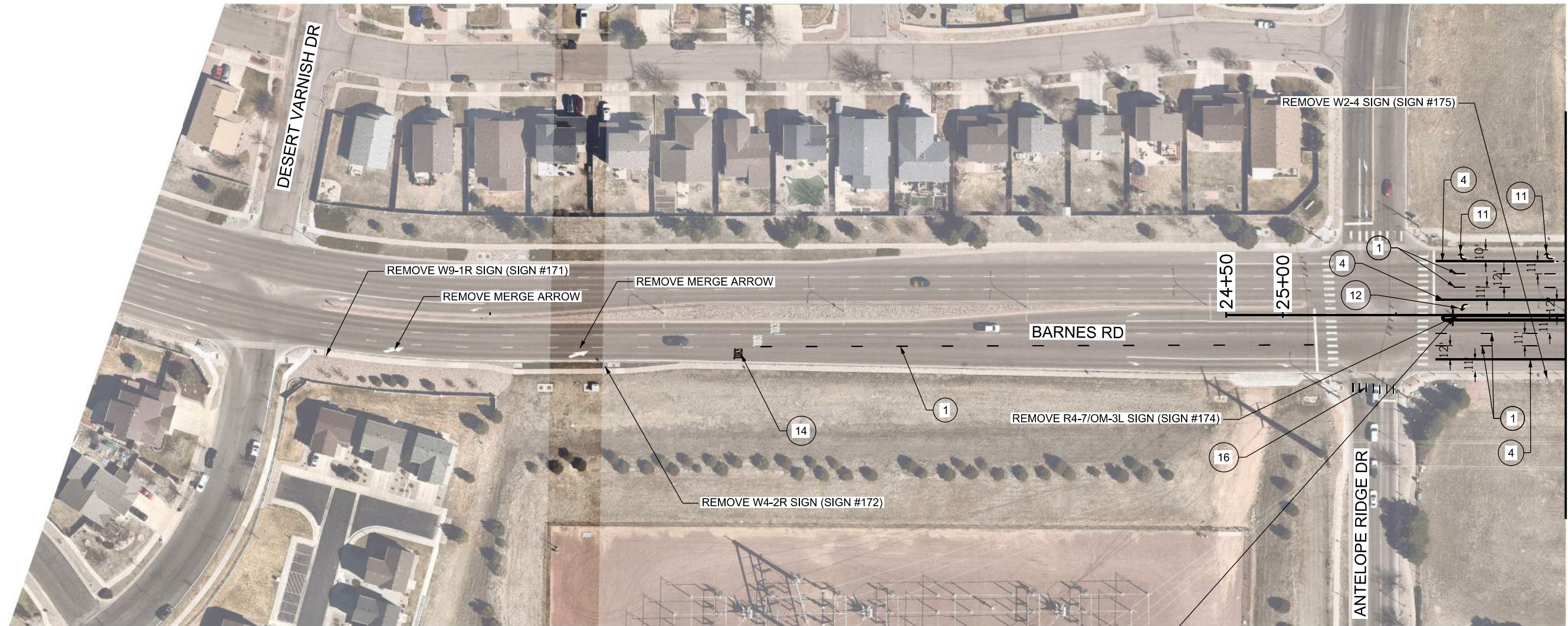
MARKSHEFFEL ROAD SIGNING & STRIPING PLAN			
Designer:	EJL	Structure Numbers	
Detailer:	JLN	Structure Numbers	
Sheet Subset:	SS	Subset Sheets: 7 of 10	

Sheet Number	95
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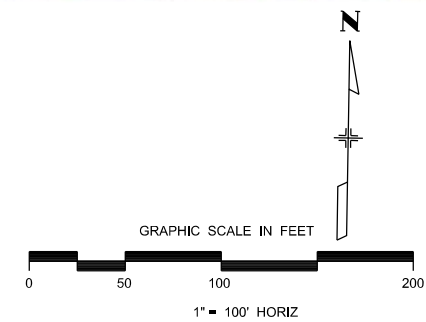


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**PAVEMENT MARKING LEGEND**

- |                                       |                                       |                      |                      |
|---------------------------------------|---------------------------------------|----------------------|----------------------|
| ① LANE LINES, WHITE, 4" WIDE          | ⑥ EXTENSION LINE, WHITE, 8" WIDE      | ⑪ RIGHT ARROW SYMBOL | ⑮ ONLY SYMBOL        |
| ② EDGE LINE, WHITE, 4" WIDE           | ⑦ LANE DROP LINE, WHITE, 8" WIDE      | ⑫ LEFT ARROW SYMBOL  | ⑯ CROSSWALK MARKINGS |
| ③ DOTTED LINE, WHITE, 4" WIDE         | ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE | ⑬ MERGE ARROW SYMBOL | ⑰ YIELD LINE         |
| ④ CHANNELIZING LINE, WHITE, 8" WIDE   | ⑨ EDGE LINE, YELLOW, 4" WIDE          | ⑭ SCHOOL SYMBOL      | ⑱ STOP LINE          |
| ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE | ⑩ EXTENSION LINE, YELLOW, 4" WIDE     |                      |                      |



\\naumann-31447-pw\pwc\wilson\pwc\Documents\8100-TRM\City of Colorado Springs, CO\21-100-183-00\18300SS\_Traffic\_ITS Drawings\PI-18300SS\_Plan\_06.dgn

Print Date: 10/13/2023
File Name: P1-18300SS_Plan_06.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:
Revised:
Void:

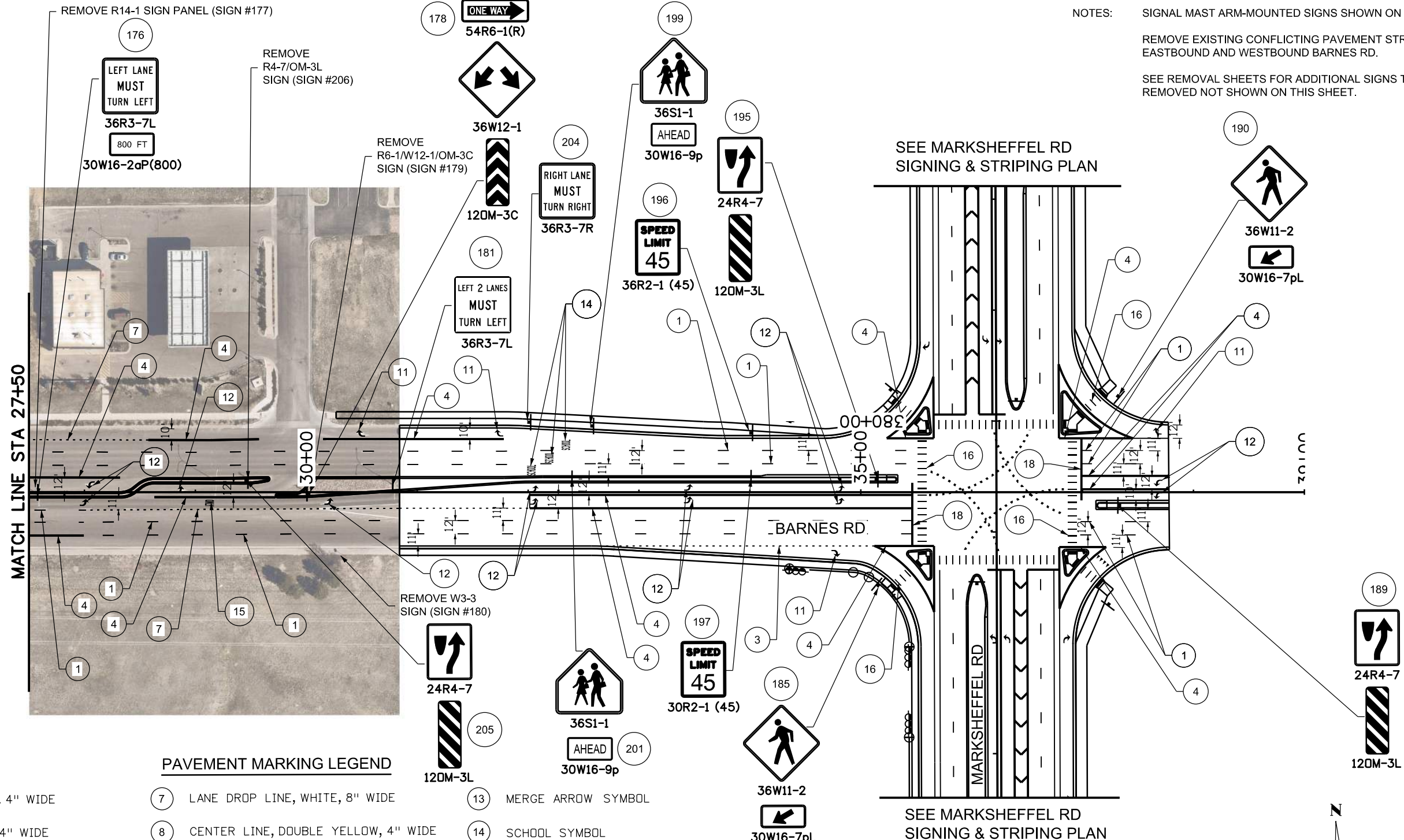
BARNES ROAD SIGNING & STRIPING PLAN			
Designer:	EJL	Structure	
Detailer:	JLN	Numbers	
Sheet Subset:	SS	Subset Sheets: 8	of 10

Sheet Number	96
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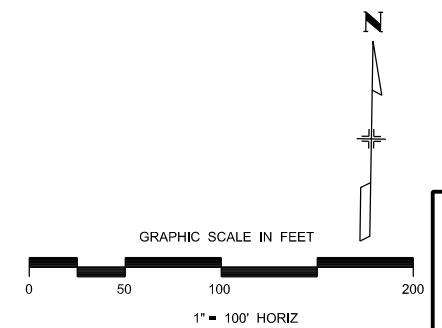


NOTES:

- SIGNAL MAST ARM-MOUNTED SIGNS SHOWN ON TRAFFIC SIGNAL PLAN.
- REMOVE EXISTING CONFLICTING PAVEMENT STRIPING ON EASTBOUND AND WESTBOUND BARNES RD.
- SEE REMOVAL SHEETS FOR ADDITIONAL SIGNS TO BE REMOVED NOT SHOWN ON THIS SHEET.

PAVEMENT MARKING LEGEND

- ① LANE LINES, WHITE, 4" WIDE
- ② EDGE LINE, WHITE, 4" WIDE
- ③ DOTTED LINE, WHITE, 4" WIDE
- ④ CHANNELIZING LINE, WHITE, 8" WIDE
- ⑤ CROSS-HATCHING LINE, WHITE, 8" WIDE
- ⑥ EXTENSION LINE, WHITE, 8" WIDE
- ⑦ LANE DROP LINE, WHITE, 8" WIDE
- ⑧ CENTER LINE, DOUBLE YELLOW, 4" WIDE
- ⑨ EDGE LINE, YELLOW, 4" WIDE
- ⑩ EXTENSION LINE, YELLOW, 4" WIDE
- ⑪ RIGHT ARROW SYMBOL
- ⑫ LEFT ARROW SYMBOL
- ⑬ MERGE ARROW SYMBOL
- ⑭ SCHOOL SYMBOL
- ⑮ ONLY SYMBOL
- ⑯ CROSSWALK MARKINGS
- ⑰ YIELD LINE
- ⑱ STOP LINE



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Print Date: 10/24/2023
File Name: P1-18300SS_Plan_07.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:
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BARNES ROAD SIGNING & STRIPING PLAN			
Designer:	EJL	Structure	
Detailer:	JLN	Numbers	
Sheet Subset:	SS	Subset Sheets:	9 of 10

Sheet Number	97
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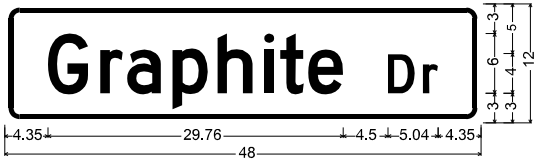
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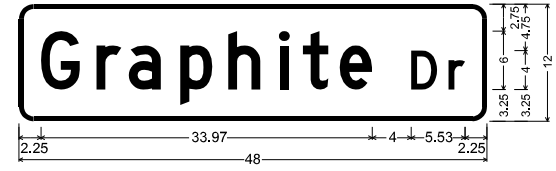
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SIGN #118b



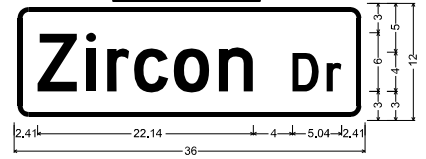
W16-8P;  
1.50" Radius, 0.50" Border, 0.38" Indent, Black on, Yellow;  
"Graphite Dr", D 2K;  
Table of letter and object lefts  
G 4.35 r 9.63 a 12.33 p 16.89 h 21.45 i 26.13 t 27.75 e 30.57 D 38.61 r 42.13

SIGN #212a



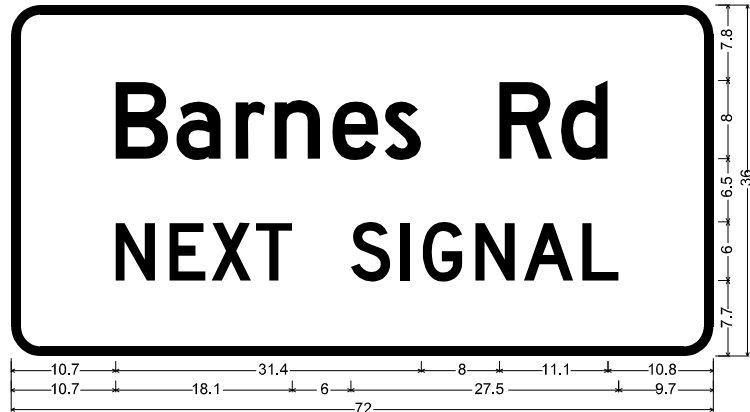
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G 2.25 r 7.96 a 11.25 p 16.55 h 21.46 i 26.76 t 29.12 e 32.88 D 40.22 r 44.05

SIGN #109b



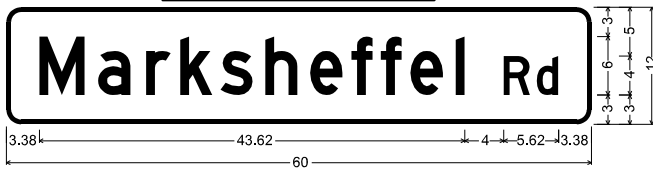
W16-8P;  
1.50" Radius, 0.50" Border, 0.38" Indent, Black on, Yellow;  
"Zircon Dr", D 2K;  
Table of letter and object lefts  
Z 2.41 r 7.39 a 9.55 i 12.31 p 16.39 n 21.01 e 28.55 D 32.07

SIGN #121a



D3-2(1)\_VARx36;  
3.0" Radius, 1.0" Border, White on, Green;  
"Barnes Rd", D 2K; "NEXT", D 2K; "SIGNAL", D 2K;

SIGNS #207b & #212b



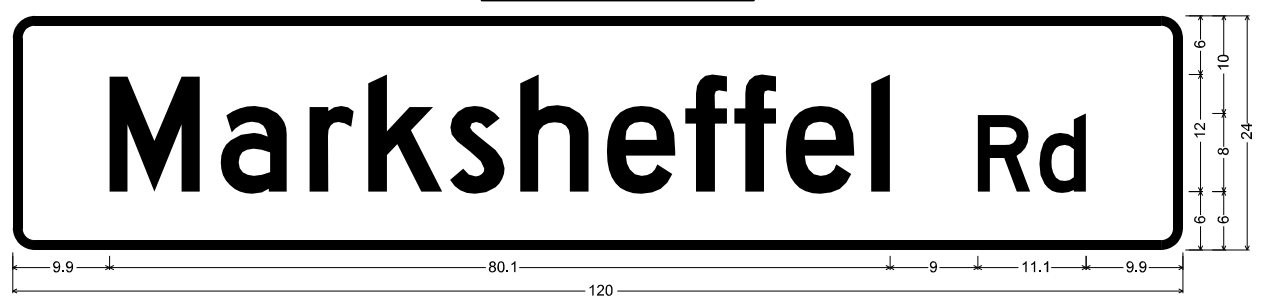
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"Marksheffel Rd", D 80% spacing;  
Table of letter and object lefts  
M 3.38 a 9.42 r 14.32 k 17.82 s 21.96 h 26.55 e 31.15 f 35.38 R 38.38 i 41.44 l 46.07 R 51.00 d 54.39

SIGN #156a



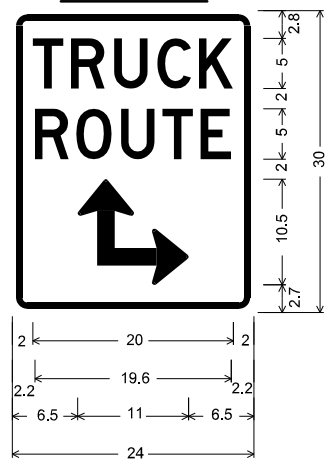
D3-2(1)\_VARx36;  
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"Zircon Dr", D 2K; "NEXT", D 2K; "LEFT", D 2K;

SIGNS #188a & #193a



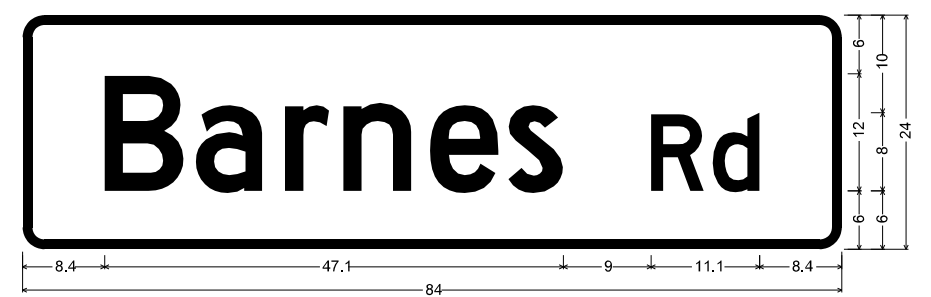
D3-1;  
2.3" Radius, 1.0" Border, White on, Green;  
"Marksheffel Rd", D 2K;  
Table of letter and object lefts  
M 9.9 a 21.3 r 30.4 k 36.4 s 44.8 h 52.0 e 60.9 f 69.0 t 74.0 e 79.3 i 88.0 R 99.0 d 105.3

SIGN #149a



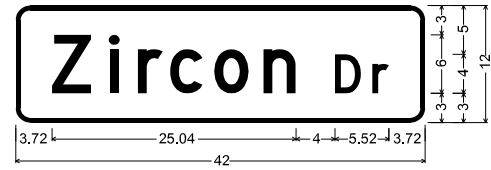
1.5" Radius, 0.6" Border, 0.4" Indent, Black on, White;  
"TRUCK", D 80% spacing;  
"ROUTE", D 80% spacing;  
90 Deg Double Headed Arrow 11.0" X 10.5";

SIGNS #139a & #150a



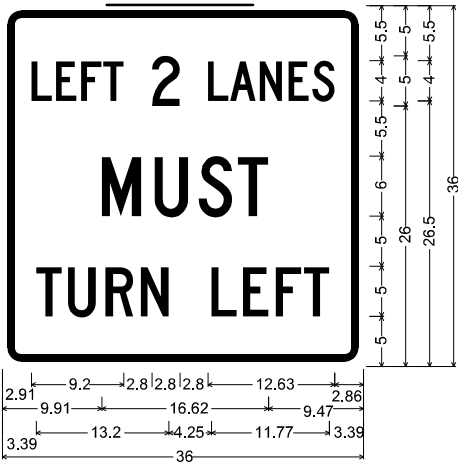
D3-1;  
2.3" Radius, 1.0" Border, White on, Green;  
"Barnes Rd", D 2K;  
Table of letter and object lefts  
B 8.4 a 17.8 r 26.9 n 32.9 e 41.8 s 49.8 R 64.5 d 70.8

SIGN #207a



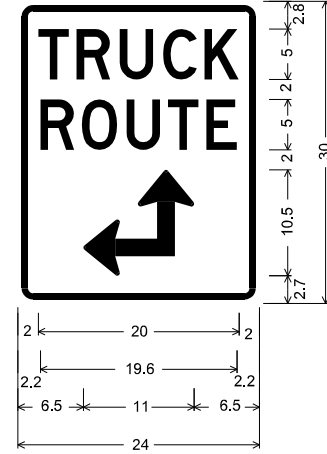
1.50" Radius, 0.50" Border, White on, Green;  
"Zircon Dr", D;  
Table of letter and object lefts  
Z 3.72 i 9.65 r 12.55 c 15.84 o 20.37 n 25.41 D 32.76 r 38.58

SIGN #181a



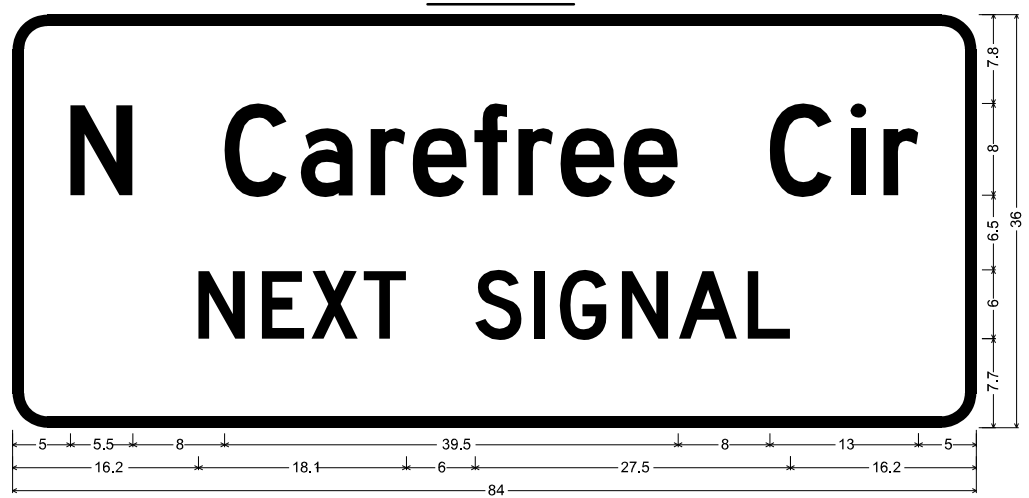
R3-7L(special);  
1.88" Radius, 0.75" Border, 0.50" Indent, Black on, White;  
"LEFT 2 LANES", C 2K 70% spacing;  
"MUST", C 2K; "TURN LEFT", C 2K 85% spacing;

SIGN #138a



1.5" Radius, 0.6" Border, 0.4" Indent, Black on, White;  
"TRUCK", D 80% spacing;  
"ROUTE", D 80% spacing;  
90 Deg Double Headed Arrow 11.0" X 10.5";

SIGN #167a



D3-2(1)\_VARx36;  
3.0" Radius, 1.0" Border, White on, Green;  
"N Carefree Cir", D 2K; "NEXT", D 2K; "SIGNAL", D 2K;

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Print Date: 10/13/2023
File Name: P1-18300SS_Detail_01.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code      PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:	MARKSHEFFEL RD / BARNES RD SIGNING & STRIPING PLAN SPECIAL SIGN LAYOUTS	
Revised:	Designer: EUL	Structure Numbers
Void:	Detailer: JLN	Sheet Subsets: 10 of 10
	Sheet Subset: SS	Subset Sheets: 10 of 10

Sheet Number	98
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**06\_Signal**  
**Will follow this page.**



Know what's below.  
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### TRAFFIC SIGNAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THE LATEST EDITION OF THE COLORADO SPRINGS CITY TRAFFIC SIGNAL INSTALLATION & PARTS SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009 EDITION), AND BY THE TRAFFIC ENGINEER, OR DESIGNEE, AT THE PRE-CONSTRUCTION MEETING.
2. REFER TO THE "TRAFFIC SIGNAL GROUNDING METHODS" MANUAL LOCATED ON THE CITY WEBSITE FOR INFORMATION ON HOW TO GROUND THE TRAFFIC SIGNAL SYSTEM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES PRIOR TO ANY EXCAVATING AND IF CHANGES ARE REQUIRED, HAVING THE TRAFFIC ENGINEER OR DESIGNEE RELOCATE THE FACILITY.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADING, SAFETY PRECAUTIONS (CFR1926), AND REMOVAL AND DISPOSAL OF EXCESS DIRT AND MATERIALS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DIGGING OF POLE BASE HOLE, PROVIDING FORMS, SET UP OF BOLTS, CONDUIT STUBOUTS, J-BOX AND THE FORMING, POURING AND FINISHING OF CONCRETE. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS.
6. CONCRETE TO BE STATE CLASS BZ POURED AGAINST VIRGIN (UNDISTURBED) SOIL. ALL BASES SHALL BE VIBRATED TO ELIMINATE AIR POCKETS. A COPY OF SIGNED BATCH TICKET MUST ACCOMPANY BILLING.
7. SIGNAL FOUNDATIONS SHALL BE TROWEL FINISHED WITH STUBOUT DIRECTIONS SCRIBED AT EDGE.
8. CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEER, OR DESIGNEE, FOR INSPECTION OF FORM, BOLTS AND STUBOUT LAYOUT 24 HOURS PRIOR TO INTENT OF POUR, AND (2-HOUR MINIMUM CONFIRMATION) PRIOR TO POURING CONCRETE. (POURING BASES WITHOUT AN INSPECTION WILL RESULT IN CONTRACTOR REMOVING SAID BASE AND INSTALLING A NEW ONE AT CONTRACTOR EXPENSE WITHIN ONE WEEK). EXPOSED BOLT THREADS AND NUTS SHALL BE FREE OF CONCRETE AND DEBRIS. ONLY 1" OF THREAD EXPOSED BETWEEN CAISSON AND BOTTOM OF ANCHOR BOLT NUT. THE TRAFFIC SIGNAL INSPECTOR SHALL INSPECT FINISHED BASE PRIOR TO ACCEPTANCE.
9. CONTRACTOR MUST SUPPLY VERIFICATION OF POLE DATA WHEN FURNISHING OWN POLES.
10. FINISHED PRODUCT SHOULD CONFORM TO CURRENT COLORADO SPRINGS CITY TRAFFIC SIGNAL STANDARDS FOR COSMETICS AND QUALITY IN WORKMANSHIP AS STATED IN THIS DOCUMENT. IF CONTRACTOR HAS ANY QUESTIONS OR DOESN'T UNDERSTAND SOMETHING, THEN ASK FOR INTERPRETATION BEFORE CONTINUING WORK.
11. CONDITIONAL ACCEPTANCE: ONCE CONSTRUCTION OF THE TRAFFIC SIGNAL HAS BEEN SATISFACTORILY COMPLETED, THE SIGNALS ARE "CONDITIONALLY ACCEPTED" BY OWNER. AT THIS TIME, THE SIGNAL IS TURNED ON AND THE "BURN-IN" PERIOD BEGINS. THE BURN-IN PERIOD WILL LAST 15 DAYS. DURING THE BURN-IN PERIOD THE SIGNAL SYSTEM IS ALLOWED TO OPERATE UNDER REAL WORLD CONDITIONS. ANY MALFUNCTION OCCURRING DURING THIS PERIOD WILL REQUIRE A REPAIR OR REPLACEMENT AND IF THE MALFUNCTION IS SERIOUS ENOUGH, THE BURN-IN PERIOD MUST BE RESTARTED.
12. FINAL ACCEPTANCE: AFTER THE BURN-IN PERIOD IS COMPLETED, ALL PUNCH LIST ITEMS HAVE BEEN CORRECTED AND THE CONTRACTOR HAS MET ALL CONTRACT REQUIREMENTS (SUCH AS FINAL CLEAN UP OF WORK SITE, AS BUILT DRAWINGS AND BORE LOGS), THE SIGNAL WILL BE ACCEPTED BY THE CITY OF COLORADO SPRINGS.
13. CONTRACTOR SHALL GUARANTEE MATERIALS AND WORKMANSHIP FOR A TWO YEAR WARRANTY PERIOD.
14. CITY OF COLORADO SPRINGS TRAFFIC ENGINEERING DIVISION RESERVES THE RIGHT TO BILL CONTRACTOR FOR MATERIALS AND LABOR FOR REPAIR AND/OR REPLACEMENT OF CONTRACT WORK DUE TO FAULTY CRAFTSMANSHIP DURING WARRANTY PERIOD.
15. A MINIMUM OF TWO SIGNAL HEADS SHALL BE MAINTAINED OVER TRAVELED LANES WHEN CONSTRUCTION ON LIVE INTERSECTION REQUIRES TRAFFIC TO MOVE FROM NORMALLY TRAVELED LANES. SIGNAL HEADS NOT OVER TRAVELED LANES SHALL BE BAGGED.
16. IF CONTRACTOR REQUESTS TRAFFIC ENGINEERING PERSONNEL DURING NON-DUTY HOURS (AFTER BUSINESS HOURS, WEEKENDS AND/OR HOLIDAYS), CONTRACTOR WILL BE BILLED FOR ALL OVERTIME OF PERSONNEL. MINIMUM BILLING FOR OVERTIME PERSONNEL AND VEHICLES IS 2 HOURS AT STANDARD OVERTIME RATES.
17. THE CONTRACTOR SHALL SUBMIT AN "AS-BUILT" OR CORRECTED PLAN SHOWING, IN DETAIL, ALL CONSTRUCTION CHANGES INCLUDING BUT NOT LIMITED TO, BORE LOGS, POT HOLE LOGS, WIRING, CABLE, POLES, CONTROLLER CABINET, DETECTION SYSTEMS, AND LOCATION OF ALL CONDUITS WITHIN 7 DAYS OF INSTALLATION.
18. ALL TRAFFIC SIGNAL EQUIPMENT THAT IS REMOVED SHALL REMAIN THE PROPERTY OF THE CITY OF COLORADO SPRINGS. SUCH PROPERTY IS TO BE RETURNED BY THE CONTRACTOR TO THE 420 W. FONTANERO, CITY TRAFFIC SIGNALS SHOP. CONTRACTOR MUST CONTACT THE SIGNAL SHOP (719-385-6721) TO MAKE ARRANGEMENTS FOR DELIVERY. ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED IN THE SAME CONDITION AS REMOVED. POLES WILL BE STRIPPED CLEAN OF ALL ATTACHED PARTS BEFORE DELIVERY.
19. CONTRACTOR SHALL, AT HIS SOLE EXPENSE, REPLACE OR RECONSTRUCT SIDEWALKS, CURBS, GUTTERS, PAVEMENT AND ANY OTHER IMPROVEMENTS REMOVED, BROKEN OR DAMAGED BY CONTRACTOR WITH MATERIAL AND METHODS THAT CONFORM TO CURRENT CITY STANDARDS.
20. THE CONTRACTOR SHALL HAVE FULL MAINTENANCE RESPONSIBILITY OF THE TRAFFIC SIGNAL FROM THE TIME OF NOTICE TO PROCEED TO THE INITIAL ACCEPTANCE AND/OR COMPLETION OF REMOVALS IN THE CASE OF REBUILDS.
21. ALL NEW INSTALLATIONS REQUIRE ALL VEHICLE AND PEDESTRIAN INDICATIONS TO BE CITY OF COLORADO SPRINGS APPROVED LEDS. THREE SECTION SIGNAL HEADS MOUNTED ON MAST ARMS SHALL HAVE BACK-PLATES WITH REFLECTIVE PAINT OR TAPE AROUND ITS BORDER.
22. CONTRACTOR WILL BE BILLED FOR ALL MATERIALS AND DOUBLE TIME FOR STAFF WHOM ARE PULLED OFF EXISTING JOBS TO INSPECT THE REPAIRS OF DAMAGED TRAFFIC SIGNAL SYSTEM PARTS.

23. SIGNAL HEADS SHALL NOT BE INSTALLED IF A LONG DELAY OCCURS PRIOR TO TURNING THE SIGNAL ACTIVE. DURING DOWN TIME, ALL SIGNAL INDICATIONS SHALL ONLY BE BAGGED WITH TRAFFIC SIGNAL HEAD COVERS. SIGNAL HEADS SHALL NOT BE INSTALLED ON A NEW INTERSECTION PRIOR TO RECEIVING POWER TO METER PEDESTAL.
24. ACCEPTABLE TIMES FOR TURNING A NEW OR REBUILT INTERSECTION OPERATIONAL IS BETWEEN 9:00 AM MONDAYS THROUGH 12:00 PM THURSDAYS.
25. CONTRACTORS INSTALLING SIGNAL FOUNDATIONS SHALL TERMINATE THE SIGNAL CONDUITS INTO A STANDARD J-BOX LOCATION.
26. BASE MOUNT CABINETS SHALL HAVE A FRONT AND REAR CONCRETE PAD POURED THE WIDTH OF THE ROCK FIBER BASE, APPROXIMATELY 52" X 56".
27. CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS AND MARKINGS THAT CONFLICT WITH THE NEW TRAFFIC SIGNAL ONCE THE SIGNAL IS ACTIVE.

### Marksheffel Rd & Barnes Rd Traffic Signal Quantities

CDOT Item No.	CDOT Item Name	Unit	TOTAL QUANTITY
202-00828	Removal of Traffic Signal Equipment	LS	1
503-00018	Drilled Shaft (18 inch)	LF	20
503-00036	Drilled Shaft (36 inch)	LF	68
613-00200	2 Inch Electrical Conduit	LF	690
613-00206	2 Inch Electrical Conduit (Bored)	LF	1130
613-00300	3 Inch Electrical Conduit	LF	465
613-00306	3 Inch Electrical Conduit (Bored)	LF	875
613-07003	Pull Box (Type 3)	EACH	4
613-07004	Pull Box (Type 4)	EACH	1
613-10000	Wiring	LS	1
613-13000	Luminaire (LED)	EACH	4
613-50150	Secondary Service Pedestal	EACH	1
614-70150	Pedestrian Signal Face (16) (Countdown)	EACH	8
614-70336	Traffic Signal Face (12-12-12)	EACH	26
614-72860	Pedestrian Push Button	EACH	8
614-72886	Intersection Detection System (Camera)	EACH	4
614-75848	Traffic Signal Controller and Cabinet (Install Only)	EACH	1
614-81165	Traffic Signal-Light Pole Steel (1-65 Foot Mast Arm)	EACH	4
614-84000	Traffic Signal Pedestal Pole Steel	EACH	4
614-86106	Telemetry (Field) (Install Only)	EACH	1

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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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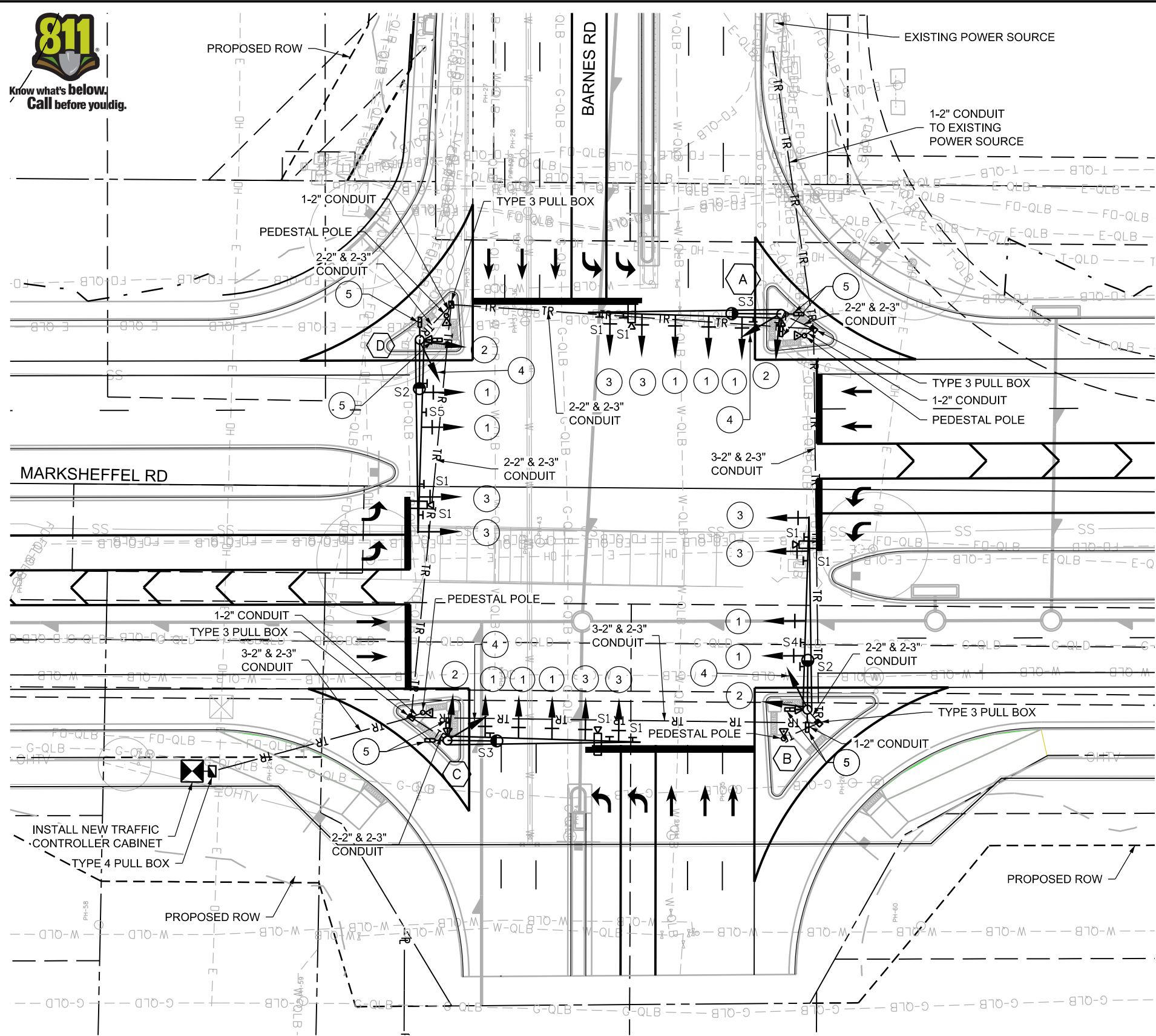
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MARKSHEFFEL ROAD TRAFFIC SIGNAL PLAN GENERAL NOTES	
Designer: E.JL	Structure Numbers
Detailer: JLN	
Sheet Subset: SIGNAL	Subset Sheets: 1 of 1

Sheet Number	99
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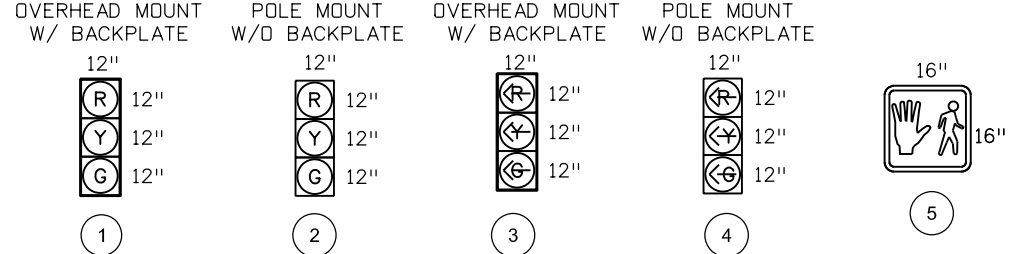
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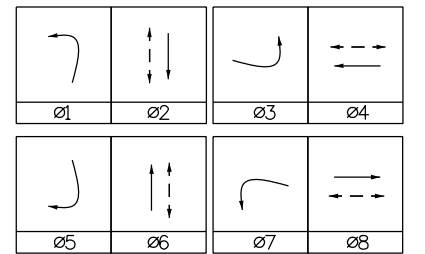
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### SIGNAL HEADS AND SIGNS



### SIGNAL PHASING



### TRAFFIC SIGNAL POLE SCHEDULE

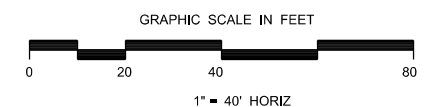
POLE LOCATION	A NW CORNER	B NE CORNER	C SE CORNER	D SW CORNER
MAST ARM LENGTH (FT)	65	65	65	65
CAISSON DIA (IN)	36	36	36	36
CAISSON PAY LN (FT)	17	17	17	17
NORTHING	134697.84	134833.93	134846.73	134708.92
EASTING	90864.49	90875.89	90752.17	90740.19

### NOTES

- REMOVE EXISTING SIGNAL EQUIPMENT AND RETURN TO CITY OF COLORADO SPRINGS. SEE NOTE 18 ON THE PREVIOUS PAGE.
- POWER SOURCE IS EXISTING TRANSFORMER ON THE NW CORNER PROVIDING POWER TO TEMPORARY SIGNAL.
- CSU WILL DESIGN CIRCUITRY AND WIRING FOR LUMINAIRES MOUNTED ON SIGNAL POLES.

### LEGEND

- SIGNAL POLE W/ MAST ARM
- 16" x 16" PEDESTRIAN SIGNAL WITH COUNTDOWN TIMER
- TRAFFIC SIGNAL HEAD W/O BACKPLATE
- TRAFFIC SIGNAL HEAD W/ BACKPLATE
- SIGN
- POWER METER PEDESTAL
- VEHICLE DETECTION CAMERA
- TRAFFIC CONTROLLER CABINET
- PULL BOX
- PEDESTAL POLE (5 FEET)
- PEDESTRIAN PUSH BUTTON
- TRAFFIC SIGNAL/POWER SUPPLY CONDUIT
- LUMINAIRE (LED) (W/ 15' ARM) (35' MOUNTING HEIGHT)



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Print Date: 10/13/2023

File Name: P1-18300SIG\_Plan\_01.dgn

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Date:	Comments	Init.



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No Revisions:

Revised:

Void:

**MARKSHEFFEL ROAD  
TRAFFIC SIGNAL PLAN  
BARNES RD**

Designer: E.JL    Structure Numbers

Detailer: JLN    Structure Numbers

Sheet Subset: SIGNAL    Subset Sheets: 2 of 2

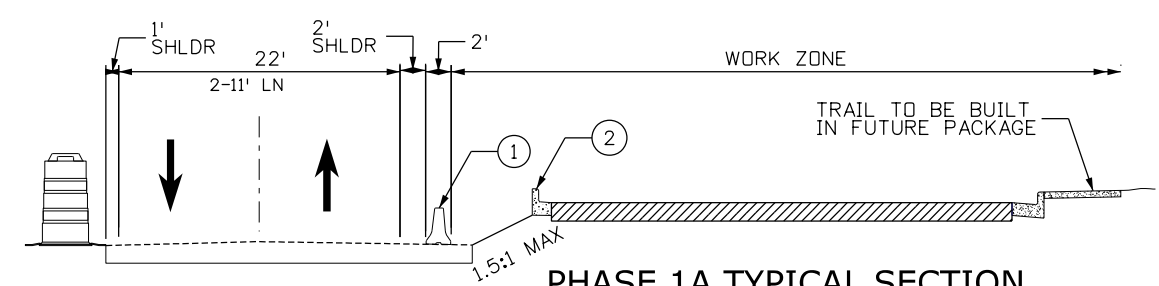
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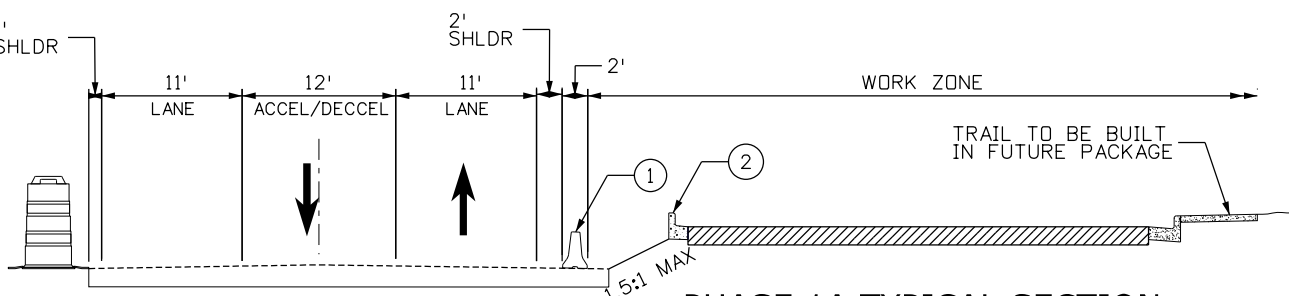
**07\_Construction Phasing**  
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- NOTE:
1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MUTCD AND THE COLORADO SUPPLEMENT THERETO, THE STANDARD HIGHWAY SIGNS AND THE COLORADO SUPPLEMENT THERETO, THE NCHRP 350 REQUIREMENTS, AND THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
  2. PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
  3. ALL TEMPORARY CONCRETE BARRIERS AND END TREATMENTS SHALL BE CRASHWORTHY.
  4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN APPROVED METHOD OF HANDLING TRAFFIC (MHT) FROM CITY OF COLORADO SPRINGS TRAFFIC.



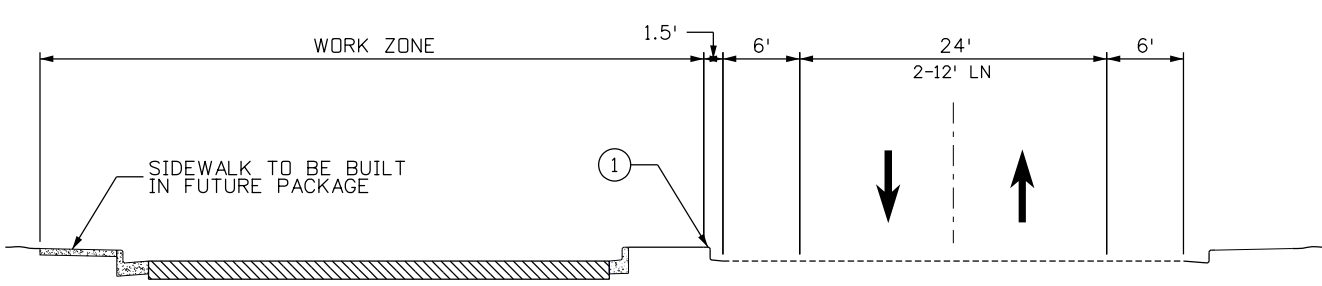
- NOTE:
1. PLACE TEMPORARY CONCRETE BARRIER ON EDGE OF PAVEMENT
  2. CURB CANNOT BE CONSTRUCTED IN LEFT TURN BAYS. IT WIL BE BUILT IN PHASE 2 OR 3.

**PHASE 1A TYPICAL SECTION**  
**MARKSHEFFEL ROAD**  
STA. 335+00 TO 345+00



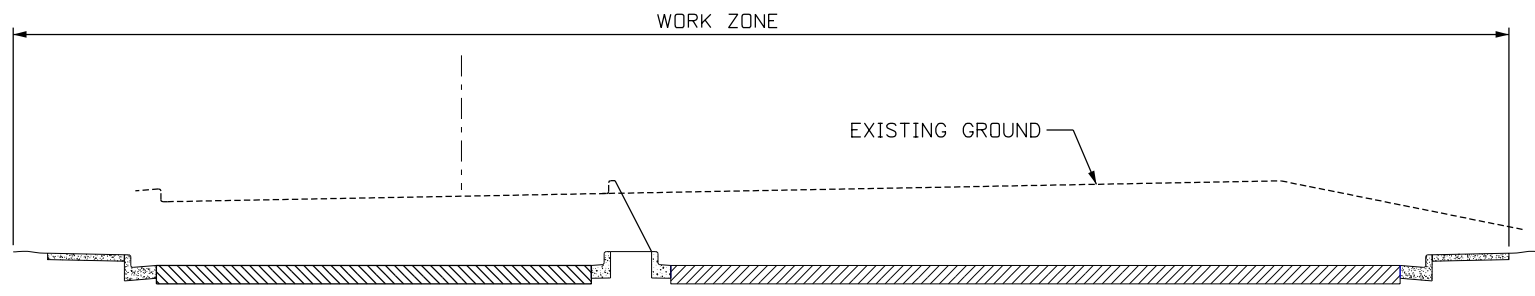
- NOTE:
1. PLACE TEMPORARY CONCRETE BARRIER ON EDGE OF PAVEMENT
  2. CURB CANNOT BE CONSTRUCTED IN LEFT TURN BAYS. IT WIL BE BUILT IN PHASE 2 OR 3.
  3. STRIPING TO BE LAID OUT FROM WEST EDGE OF PAVEMENT.
  4. PLACE BARRELS ON GROUND ALONG WEST EDGE OF PAVEMENT

**PHASE 1A TYPICAL SECTION**  
**MARKSHEFFEL ROAD**  
STA. 345+00 TO 391+50



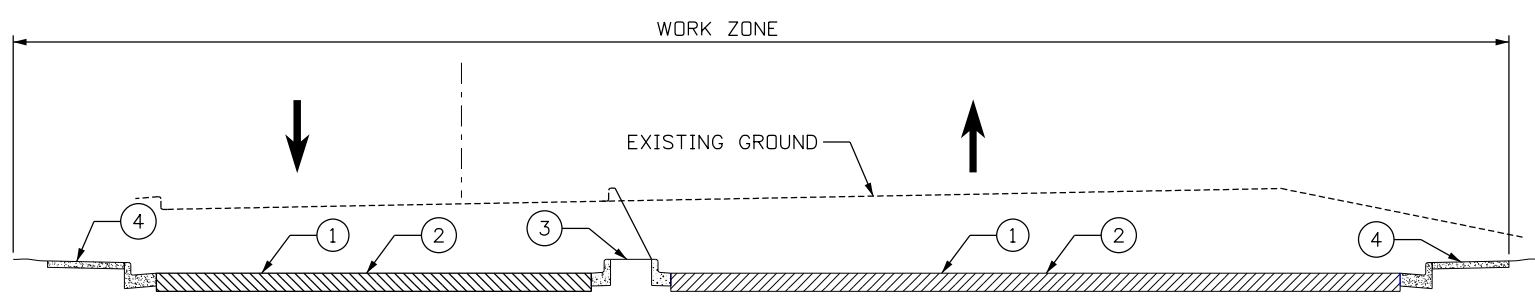
- NOTE:
1. PLACE TEMPORARY CONCRETE BARRIER IN AREAS WHERE THE MEDIAN CURB WAS NOT CONSTRUCTED IN LEFT TURN BAYS.

**PHASE 2 TYPICAL SECTION**  
**MARKSHEFFEL ROAD**  
STA. 335+00 TO 391+50



- NOTE:
1. CLOSE BARNES ROAD FROM MARKSHEFFEL TO CONSTRUCT ROADWAY IMPROVEMENTS

**PHASE 1B TYPICAL SECTION**  
**BARNES ROAD**  
STA. 30+84 TO 34+66



- NOTE:
1. PLACE (1) LIFT EMULSIFIED ASPHALT AND TOP LIFT OF PAVEMENT
  2. INSTALL PERMANENT SIGNS & STRIPPING
  3. REMOVE DETOUR PAVING AND INSTALL MEDIANS & ISLAND
  4. CONSTRUCT TRAIL AND SIDEWALK PAVEMENT
  5. ONE LANE OF TRAFFIC TO BE MAINTAINED IN EACH DIRECTION

**PHASE 3 TYPICAL SECTION**  
**MARKSHEFFEL ROAD**  
STA. 335+00 TO 391+50

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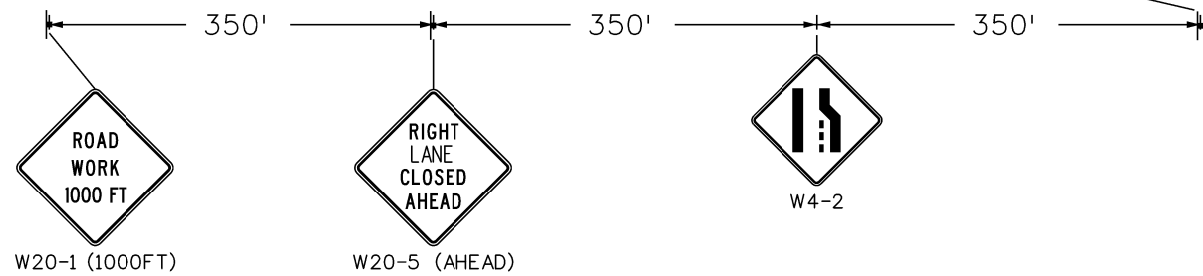
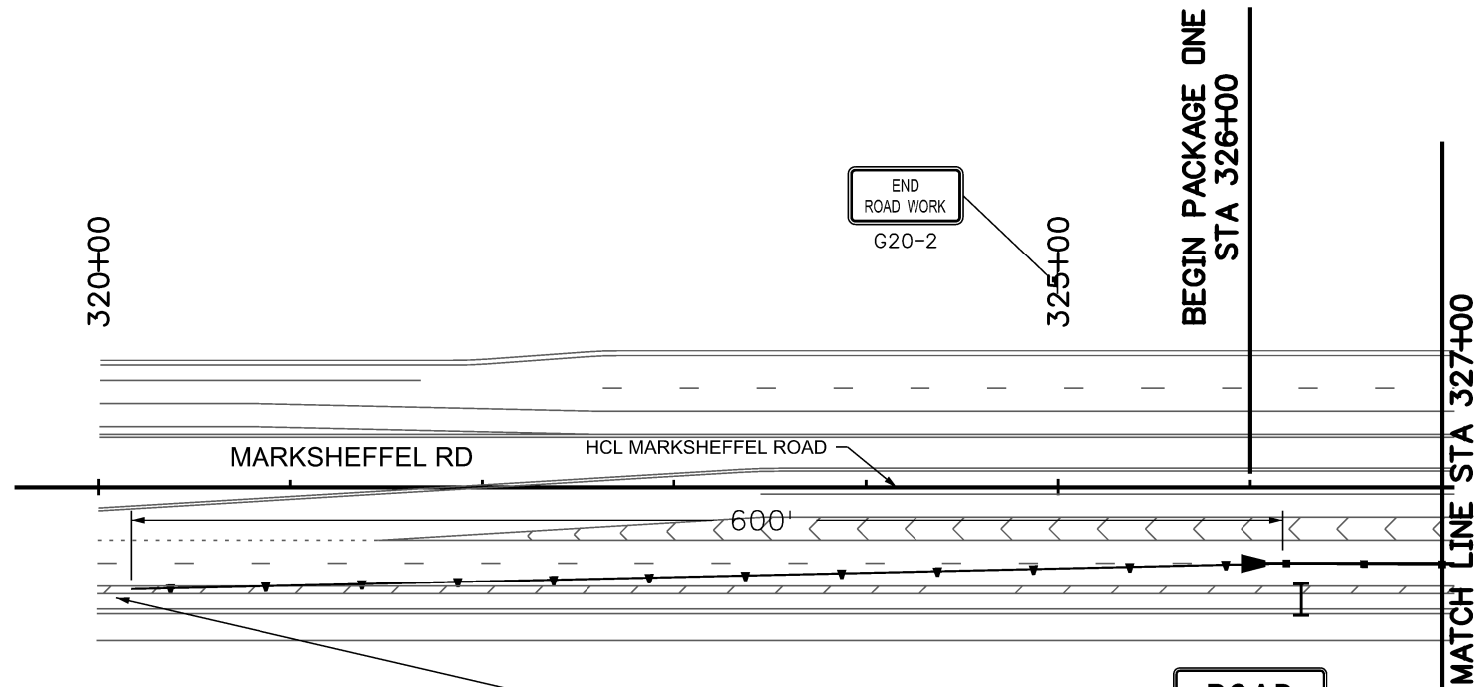
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Colorado Springs, CO 80919  
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FAX: 719-520-0108

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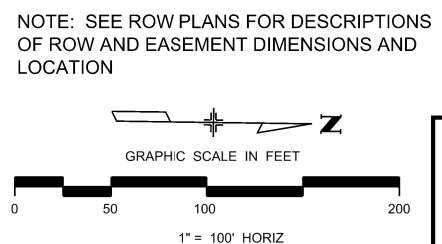


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- BUILT IN PREVIOUS PHASE
- BUILT IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

- NOTE:
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  2. PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
  3. ALL TEMPORARY CONCRETE BARRIERS AND END TREATMENTS SHALL BE CRASHWORTHY.
  4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN APPROVED METHOD OF HANDLING TRAFFIC (MHT) FROM CITY OF COLORADO SPRINGS TRAFFIC.
  5. ALL TEMPORARY PAVEMENT MARKINGS TO BE PAVEMENT MARKING PAINT (HIGH BUILD)(TEMPORARY)



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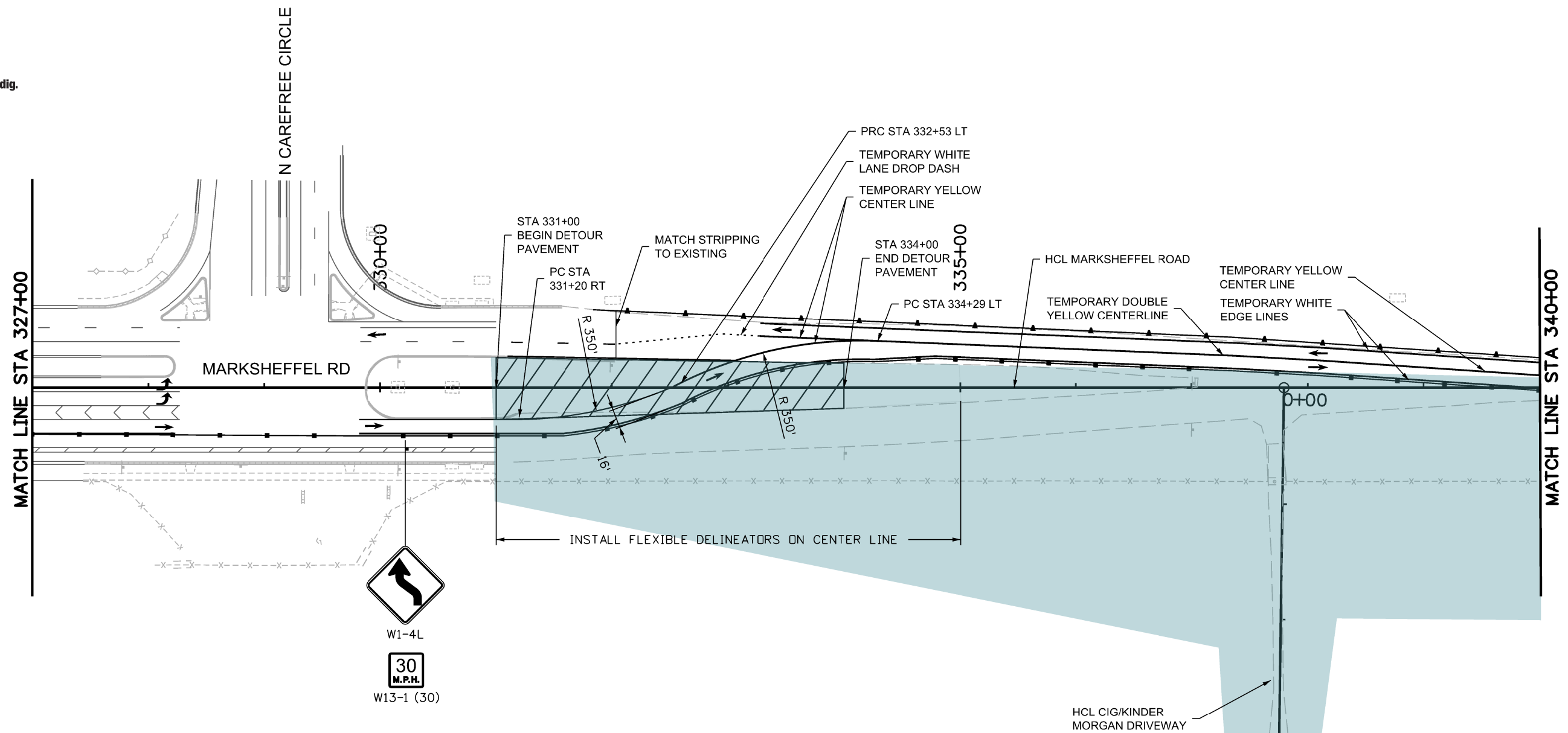
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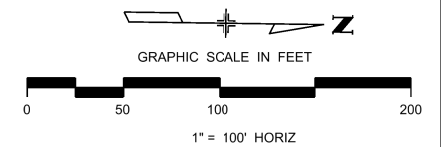


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- BUILT IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

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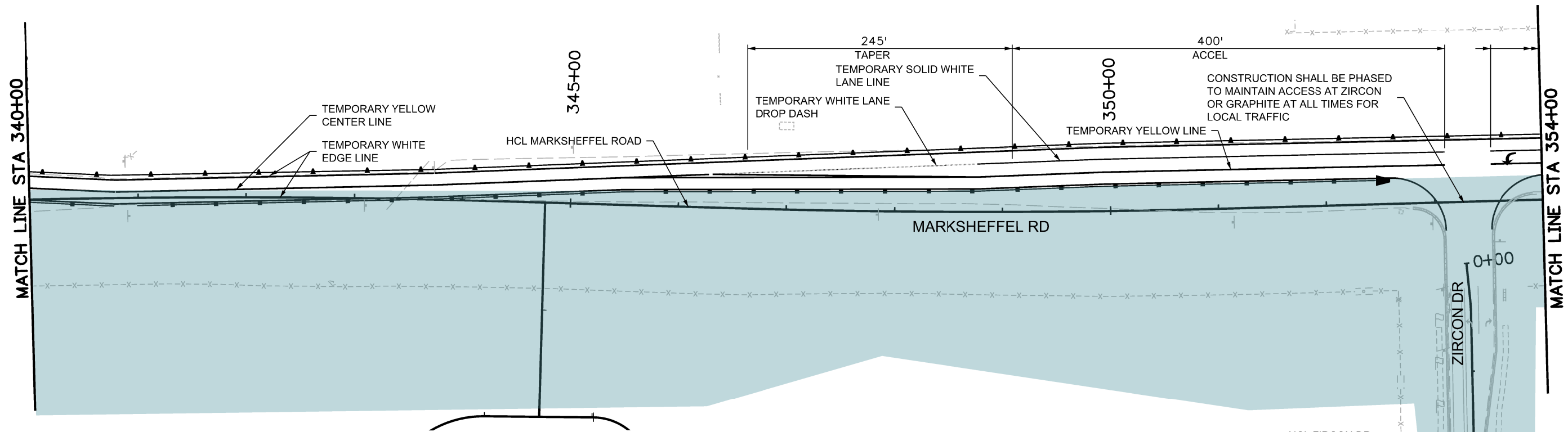
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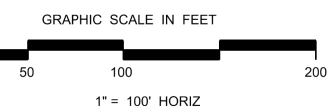


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- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE



W20-1 (AHEAD)



NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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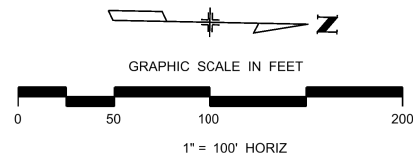
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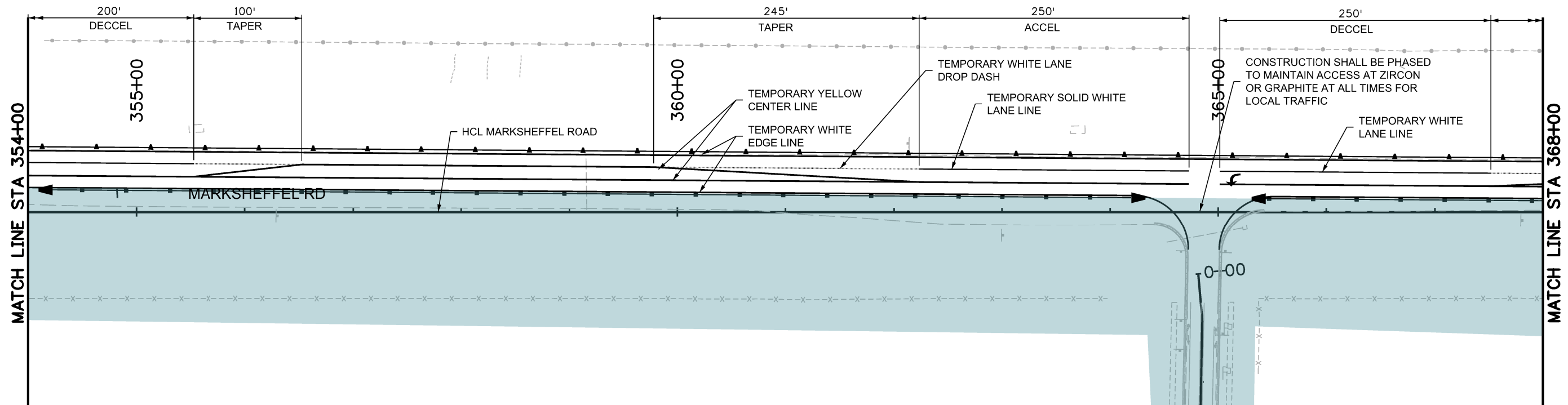
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- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

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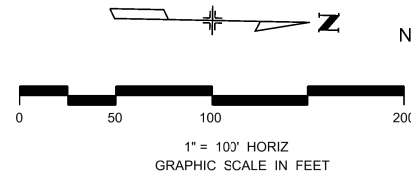
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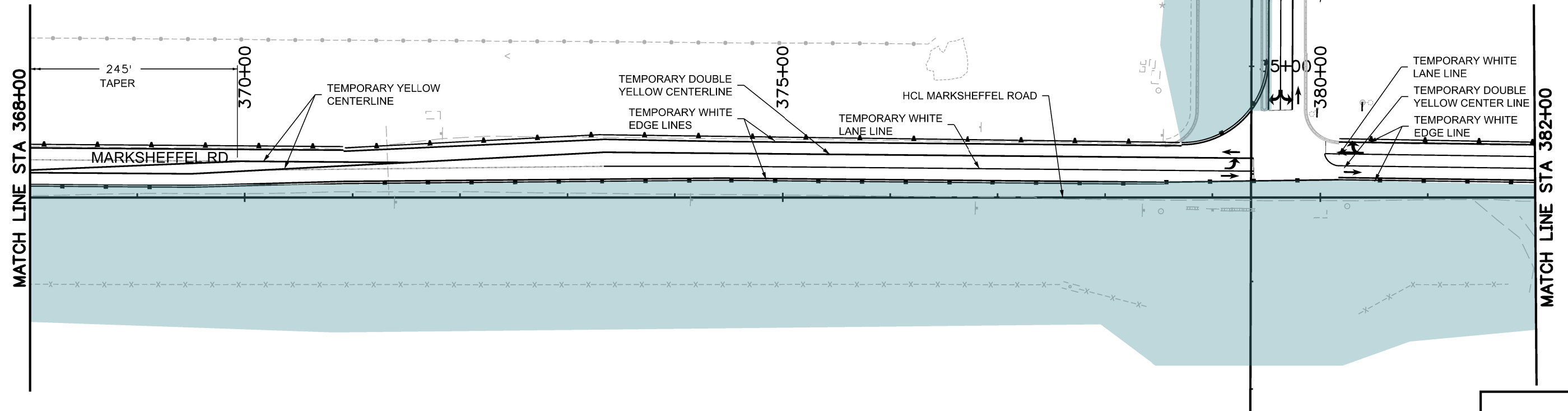
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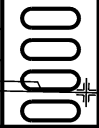
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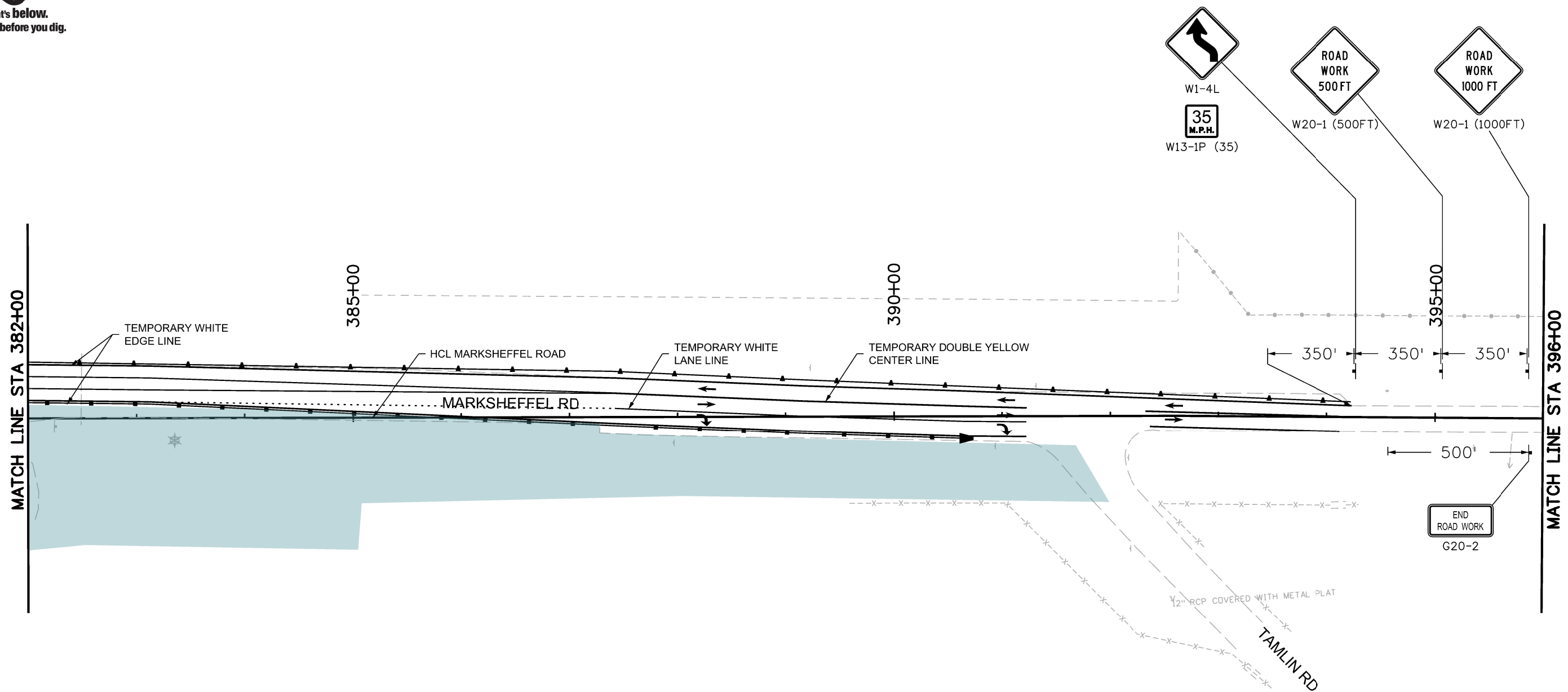
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GRAPHIC SCALE IN FEET  
0 50 100 200  
1" = 100' HORIZ

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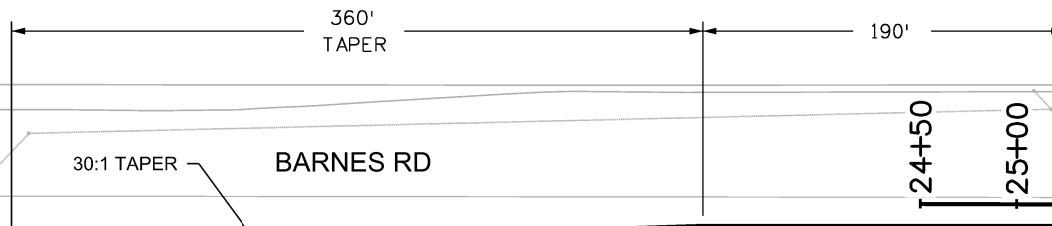


1" = 100' HORIZ  
GRAPHIC SCALE IN FEET

BEGIN PROJECT WEST BARNES RD

DESERT VARNISH DR

ANTELOPE RIDGE DR



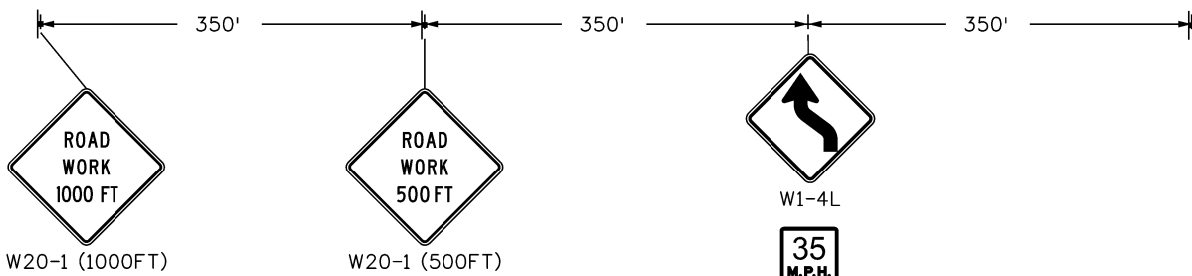
TEMPORARY WHITE LANE LINE

HCL BARNES RD

TEMPORARY WHITE EDGE LINE

TEMPORARY YELLOW CENTER LINE  
TEMPORARY WHITE LANE LINE

MATCH LINE STA 27+00



- BUILT IN PREVIOUS PHASE
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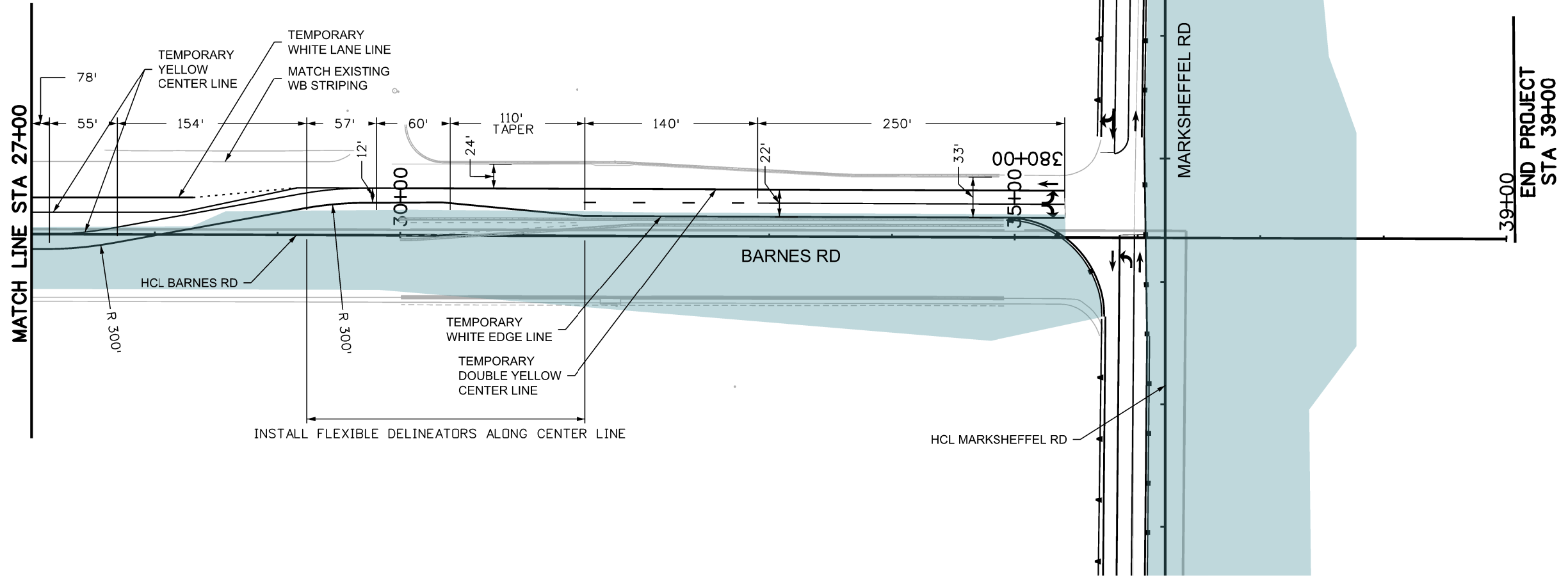
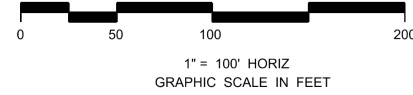
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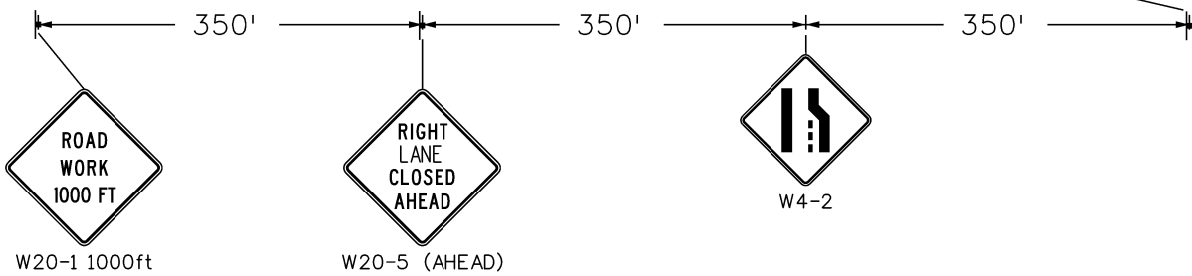
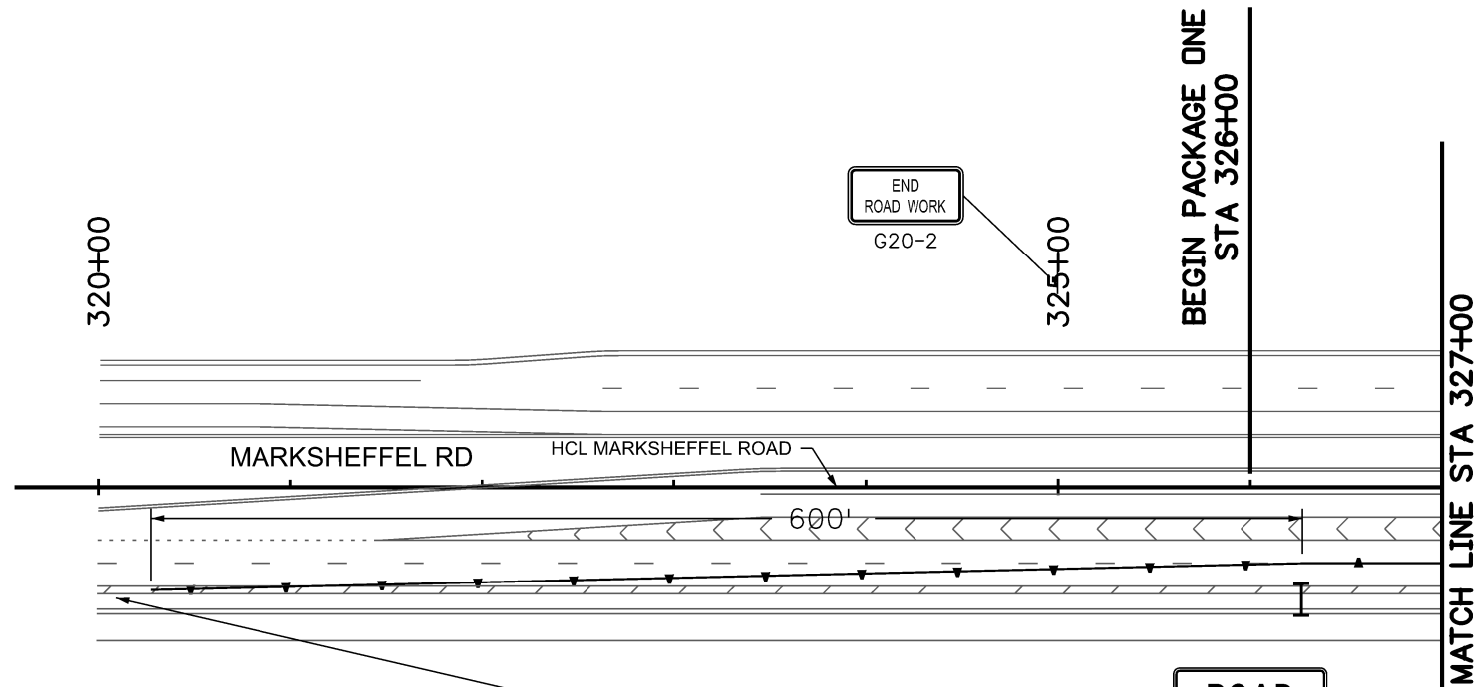
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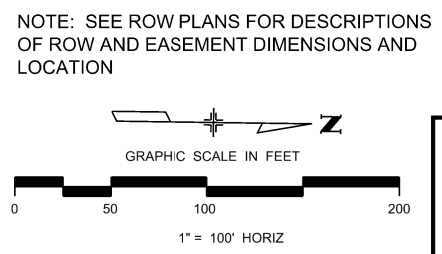


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FAX: 719-520-0108

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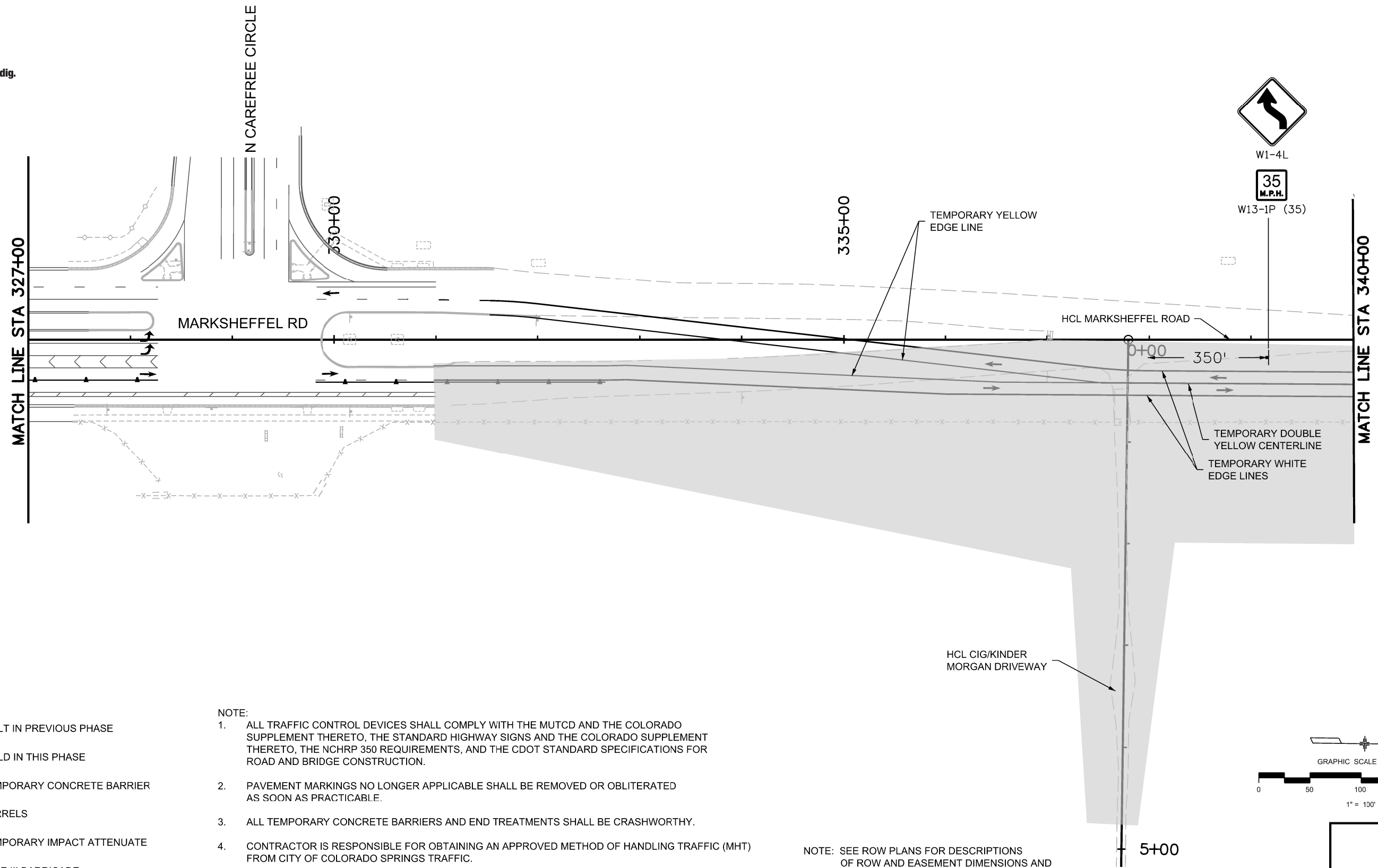
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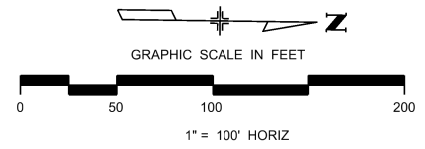


W13-1P (35)

- BUILT IN PREVIOUS PHASE
- BUILT IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

- NOTE:
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  - ALL TEMPORARY PAVEMENT MARKINGS TO BE PAVEMENT MARKING PAINT (HIGH BUILD)(TEMPORARY)

NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.



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Print Date: 1/5/2024
File Name: P1-18300TC_Phasing_10_Pn1B.dgn
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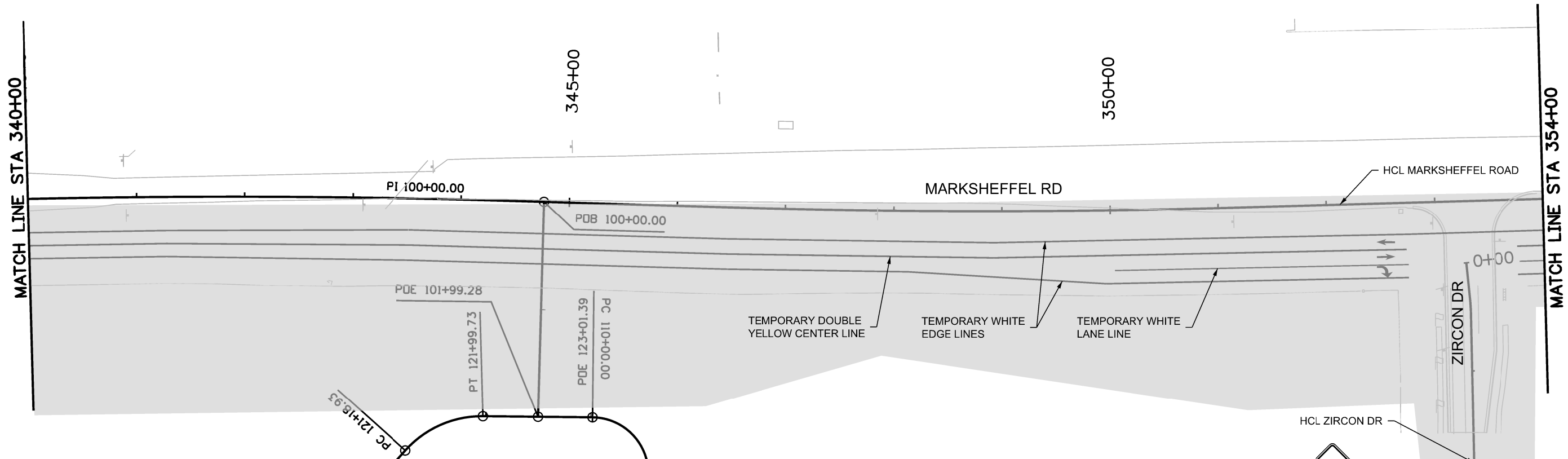
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- BUILD IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE



W20-1 (AHEAD)



GRAPHIC SCALE IN FEET



NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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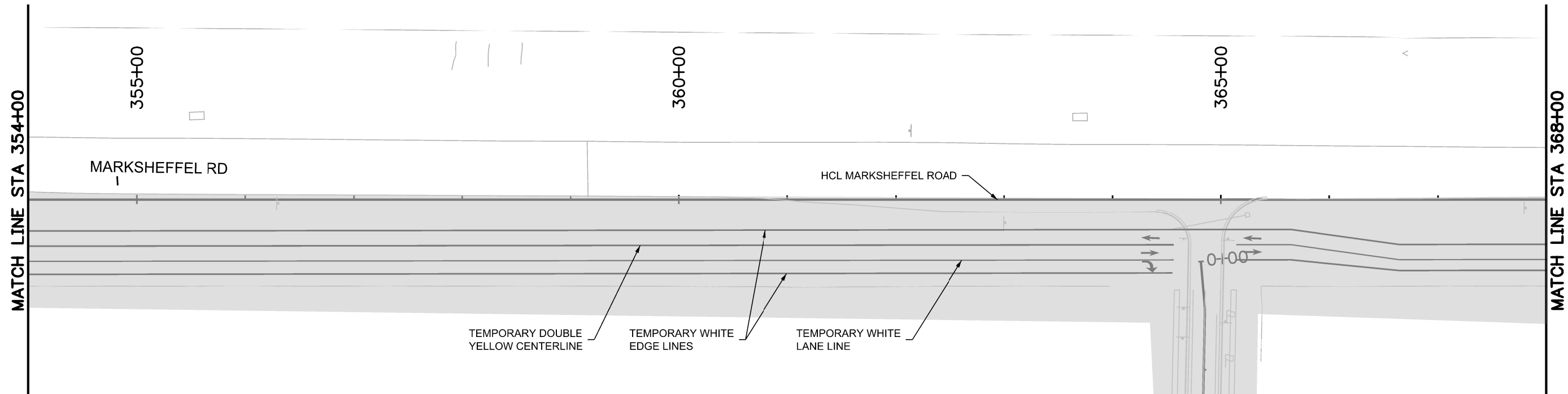
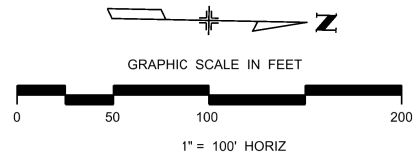
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W20-1 (AHEAD)

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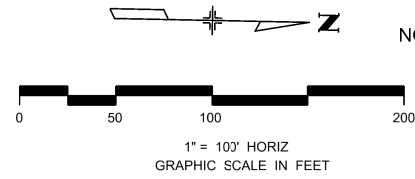
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Sheet Number

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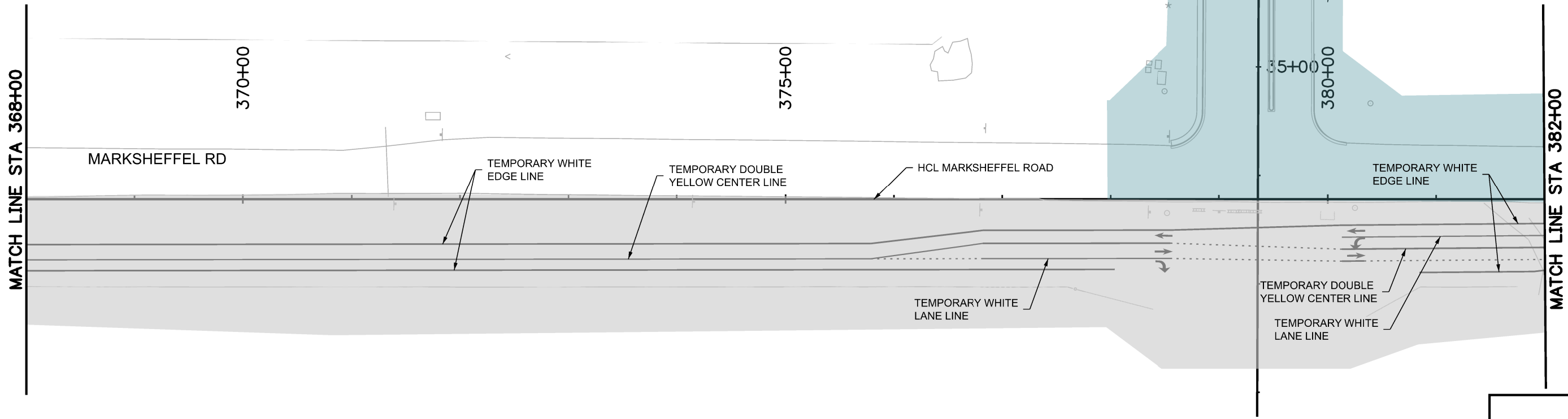
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**ROAD CLOSED**  
R11-2

**ROAD CLOSED**  
R11-2



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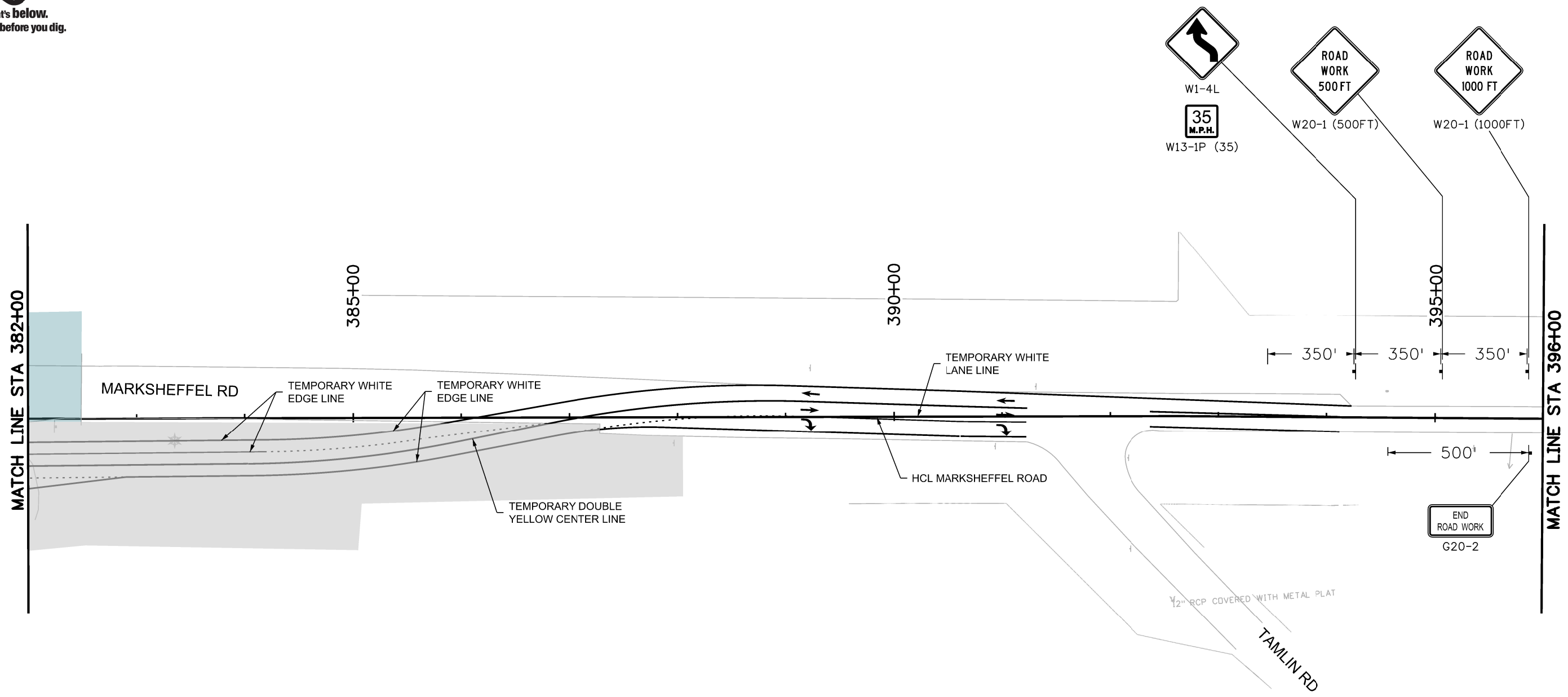
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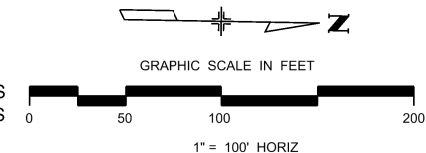


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1" = 100' HORIZ  
GRAPHIC SCALE IN FEET

BEGIN PROJECT WEST BARNES RD

DESERT VARNISH DR

BARNES RD

HCL BARNES RD

ANTELOPE RIDGE DR

24+50

25+00

MATCH LINE STA 27+00

- BUILT IN PREVIOUS PHASE
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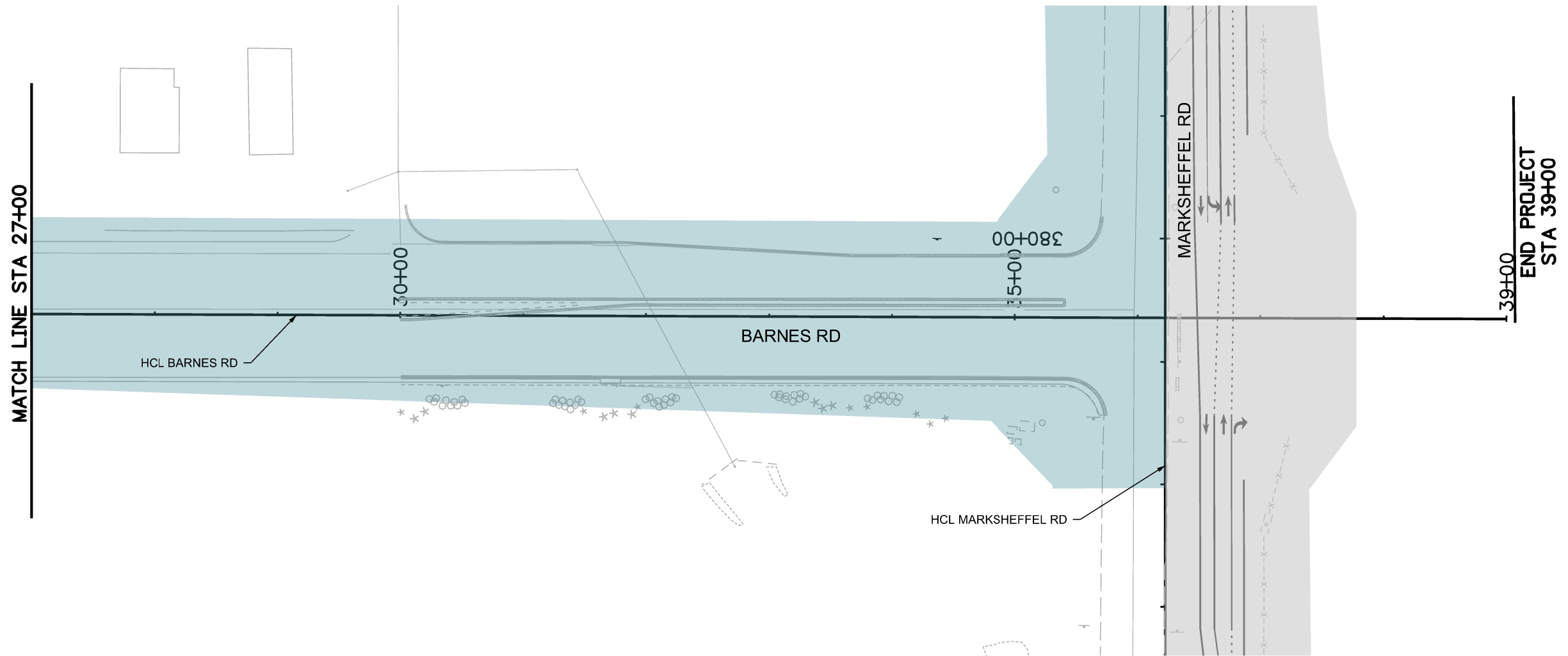
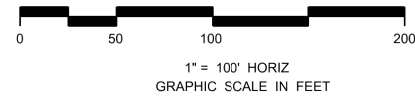
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



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-  BUILD IN THIS PHASE
-  TEMPORARY CONCRETE BARRIER
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NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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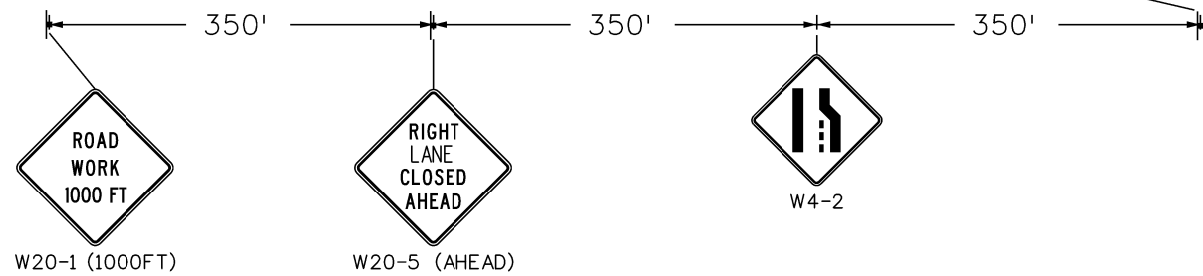
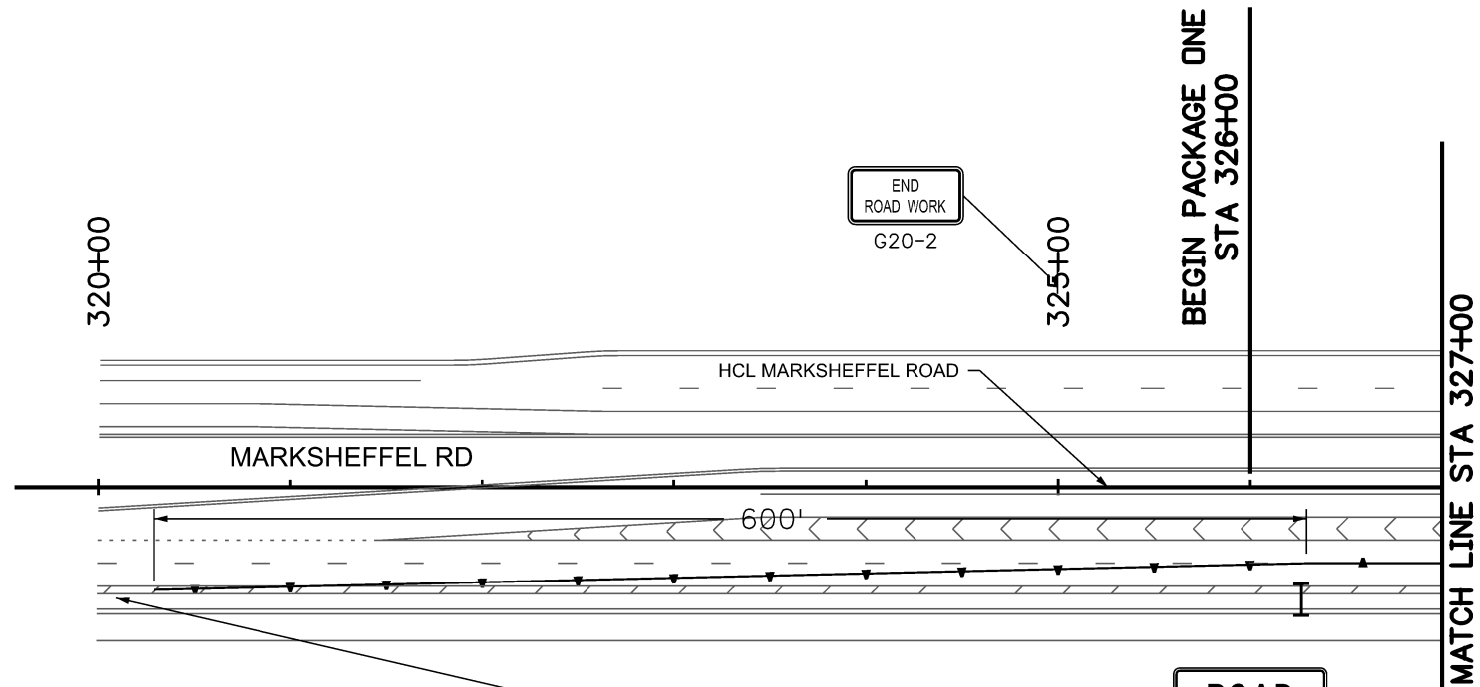
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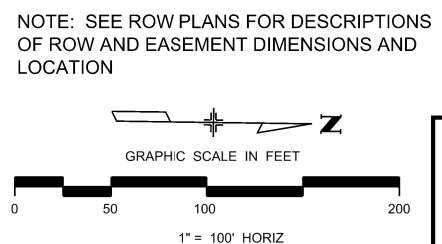


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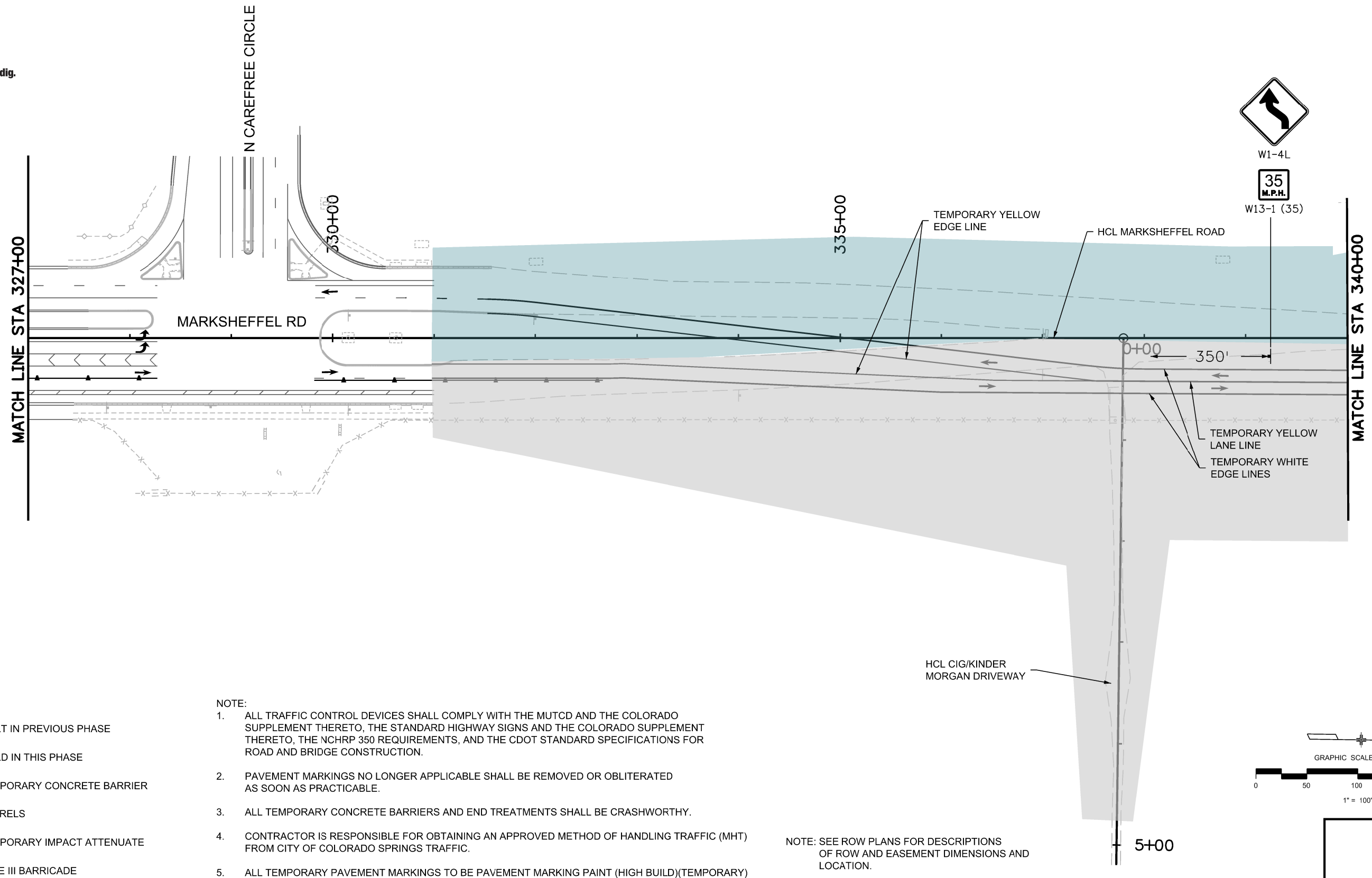
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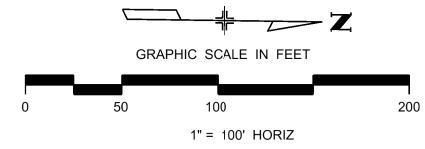
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Unit Information	Unit Leader																																															
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 Phone: 719-520-5800  
 FAX: 719-520-0108

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 OLYMPIC CITY USA

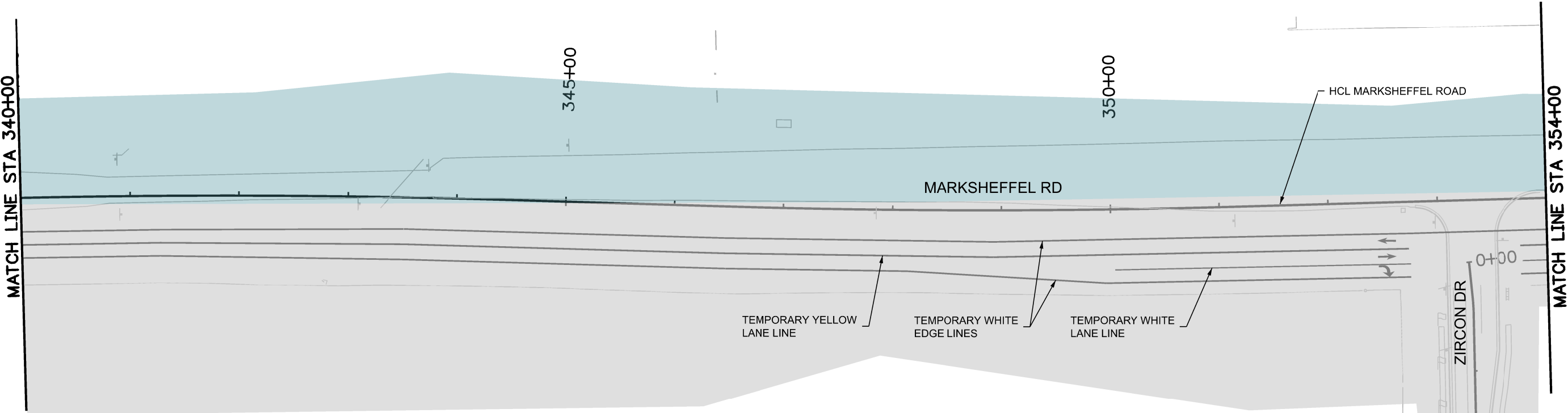






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MATCH LINE STA 340+00



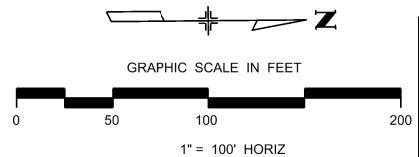
MATCH LINE STA 354+00

- BUILT IN PREVIOUS PHASE
- BUILD IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

**NOTE:**

1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MUTCD AND THE COLORADO SUPPLEMENT THERETO, THE STANDARD HIGHWAY SIGNS AND THE COLORADO SUPPLEMENT THERETO, THE NCHRP 350 REQUIREMENTS, AND THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
3. ALL TEMPORARY CONCRETE BARRIERS AND END TREATMENTS SHALL BE CRASHWORTHY.
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5. ALL TEMPORARY PAVEMENT MARKINGS TO BE PAVEMENT MARKING PAINT (HIGH BUILD)(TEMPORARY)

NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.



Print Date: 1/5/2024
File Name: P1-18300TC_Phasing_19_Pn2.dgn
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Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

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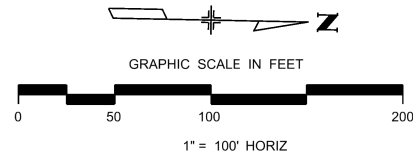
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Detailer:	BKM	Numbers	
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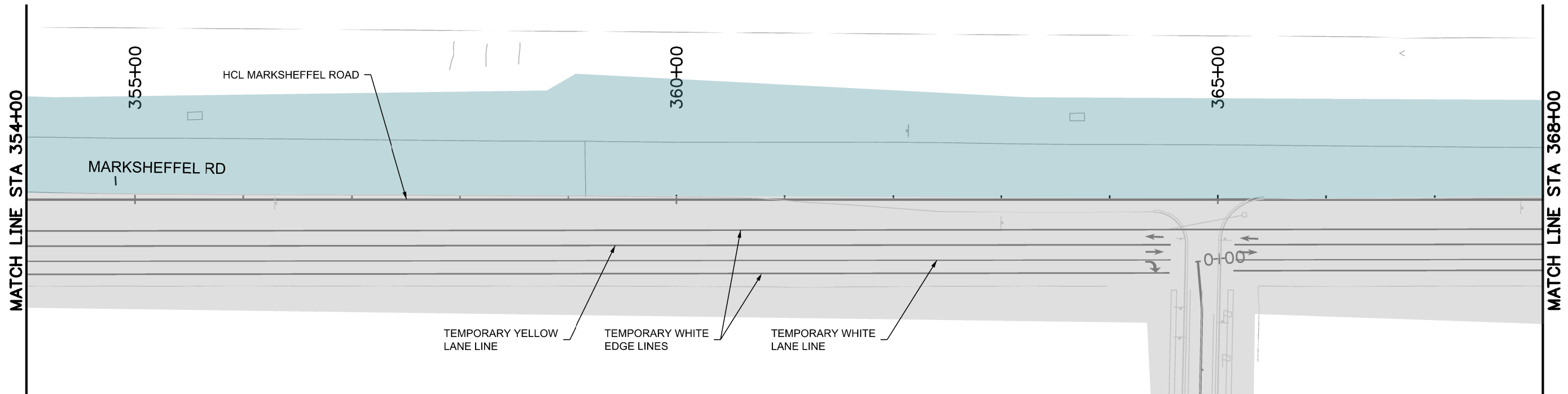
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NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.



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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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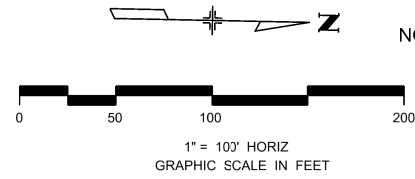
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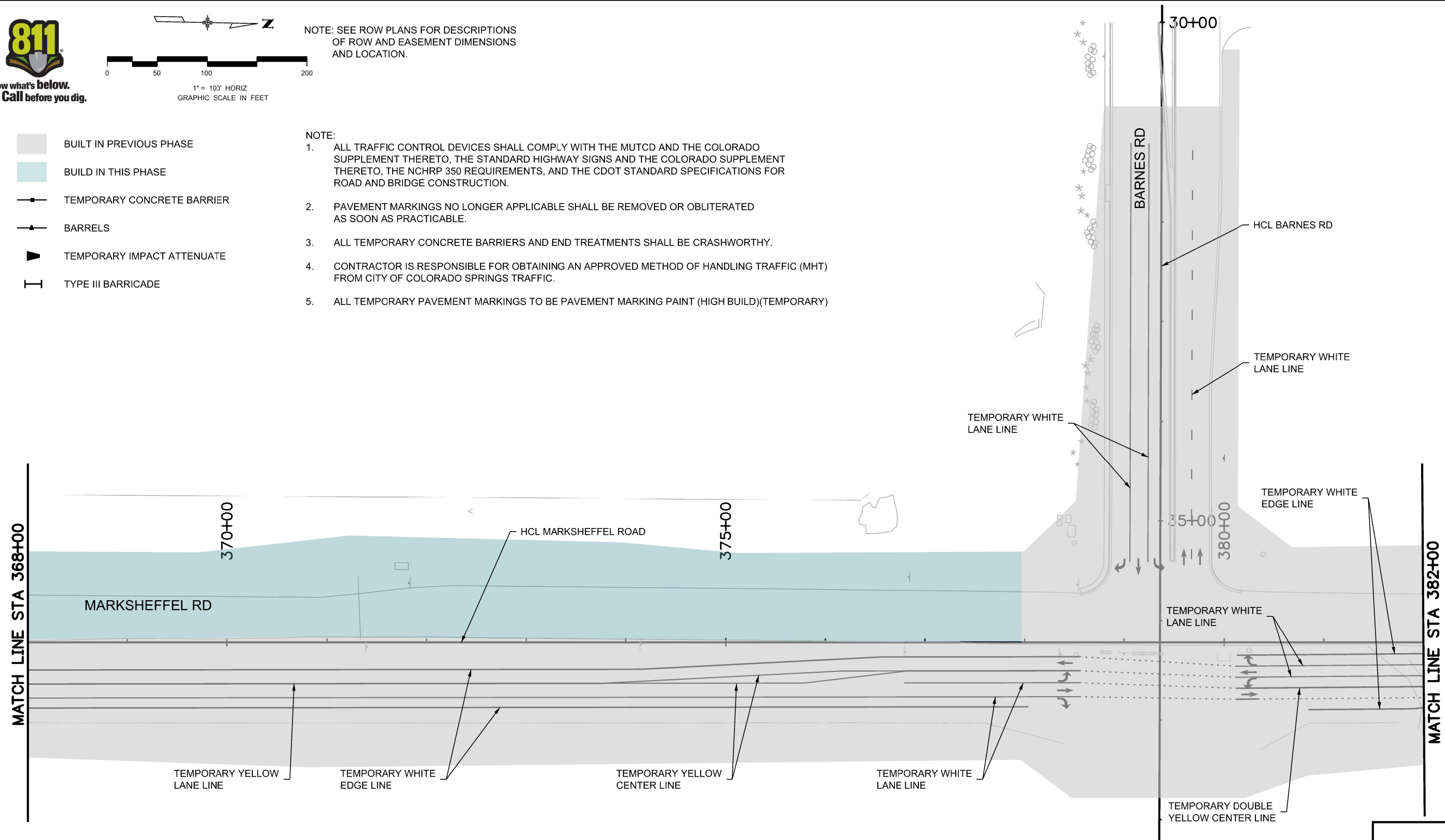


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Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

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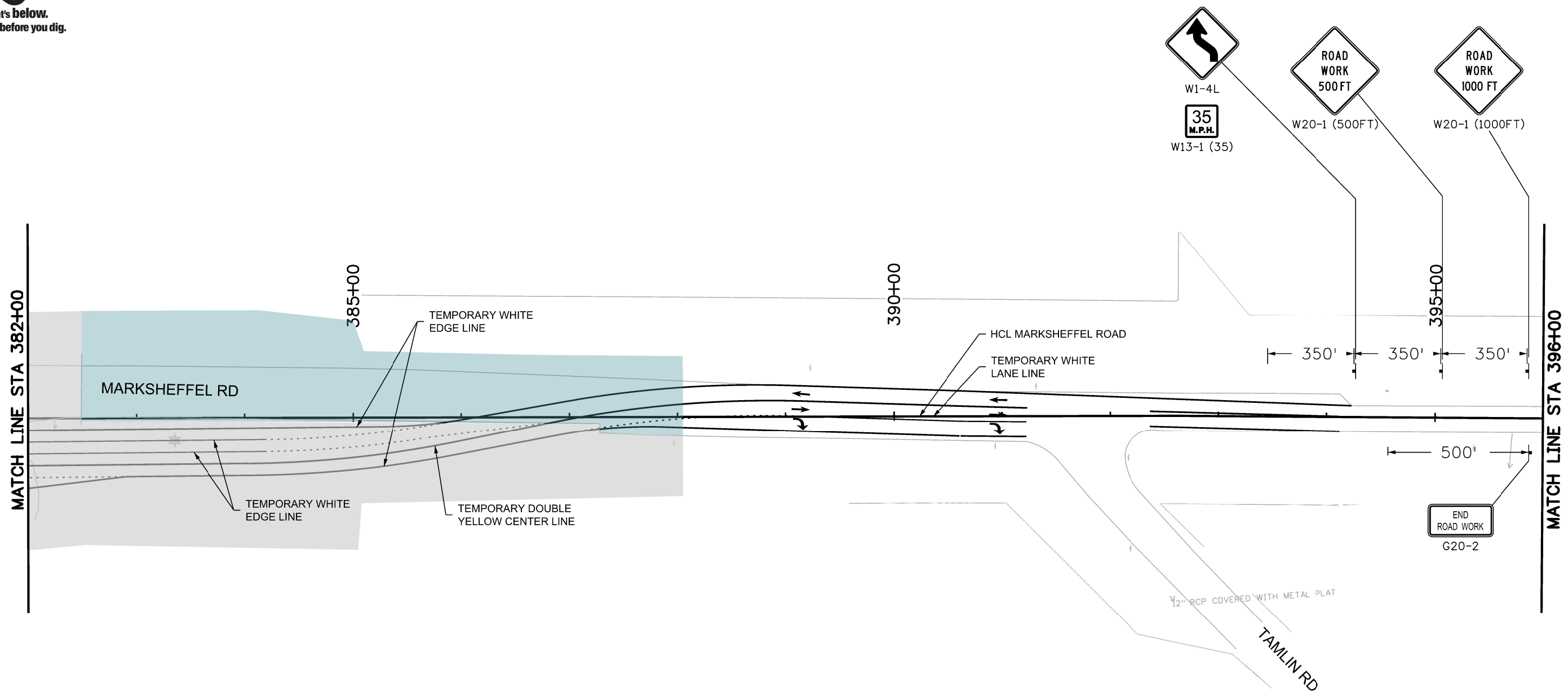
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- BUILT IN PREVIOUS PHASE
- BUILD IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

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NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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 File Name: P1-18300TC\_Phasing\_22\_Pn2.dgn  
 Horiz. Scale: 1:100      Vert. Scale:  
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Sheet Subset: PHASING		Subset Sheets: 23 of 37	

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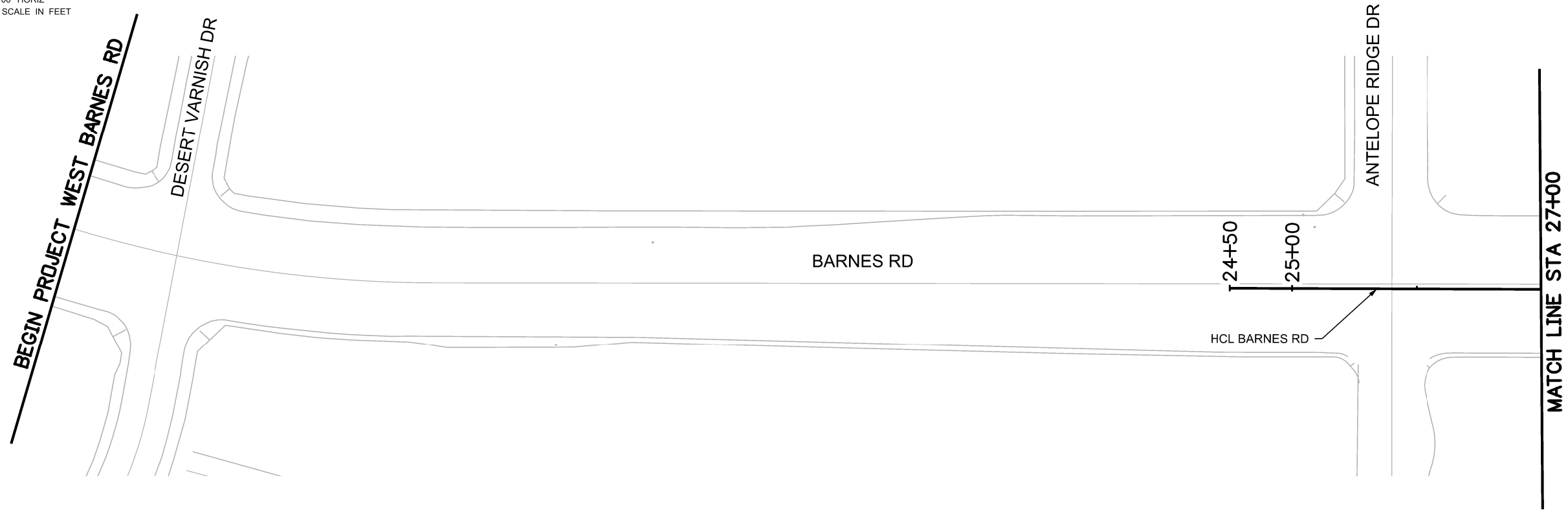
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1" = 100' HORIZ  
GRAPHIC SCALE IN FEET



- BUILT IN PREVIOUS PHASE
- BUILT IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
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NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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Horiz. Scale: 1:100	Vert. Scale:
Unit Information	Unit Leader
Project No./Code	PPRTA 10444

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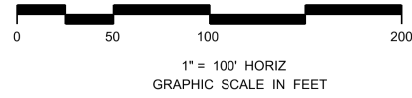
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Detailer:	BKM	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	24 of 37

Sheet Number

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HCL BARNES RD

BARNES RD







30+00

35+00  
380+00

MARKSHEFFEL RD

HCL MARKSHEFFEL RD

39+00  
END PROJECT  
STA 39+00

-  BUILT IN PREVIOUS PHASE
-  BUILD IN THIS PHASE
-  TEMPORARY CONCRETE BARRIER
-  BARRELS
-  TEMPORARY IMPACT ATTENUATE
-  TYPE III BARRICADE

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NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

Print Date: 1/5/2024	
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Horiz. Scale: 1:100	Vert. Scale:
Unit Information	Unit Leader
Project No./Code	PPRTA 10444

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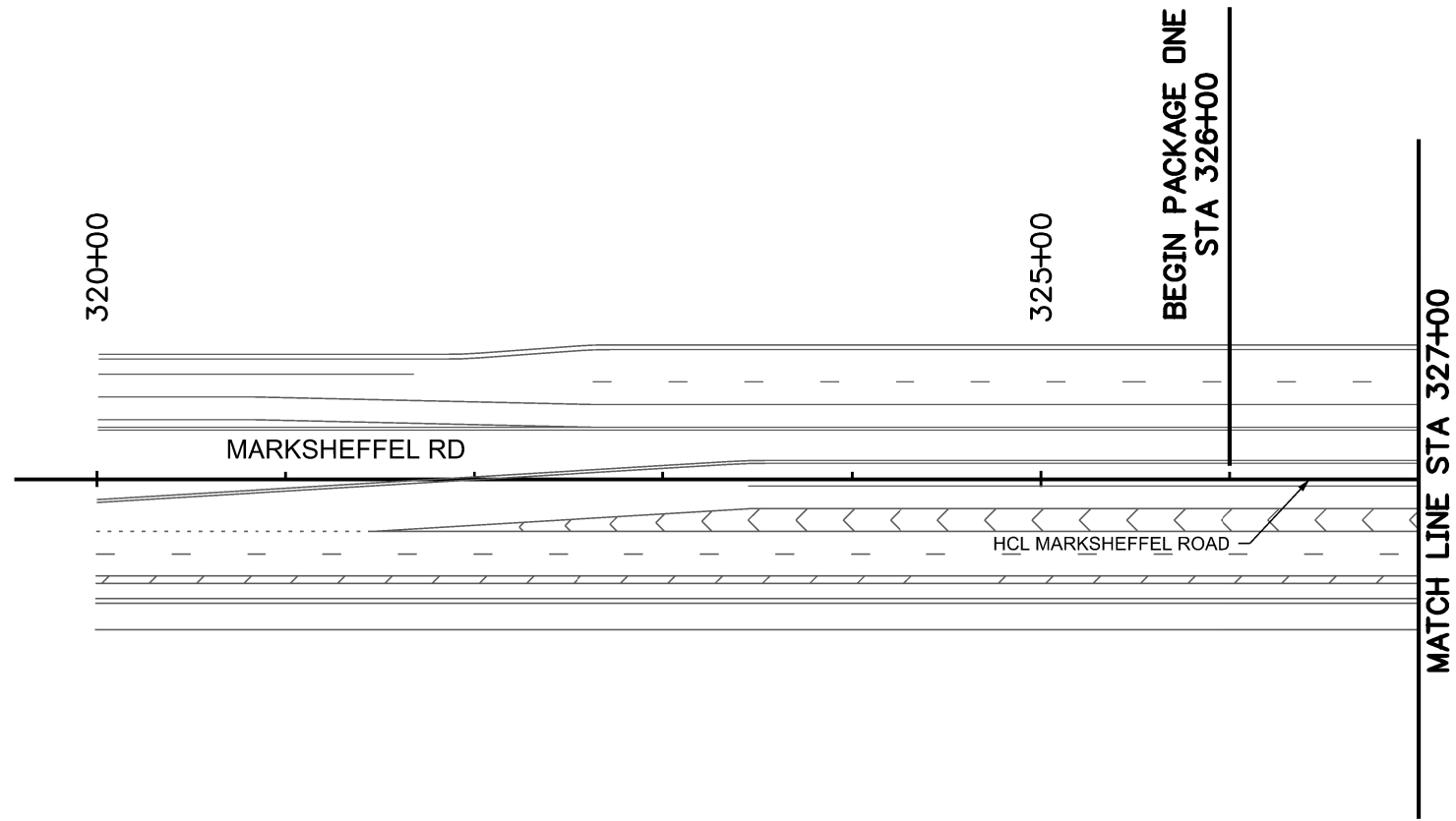
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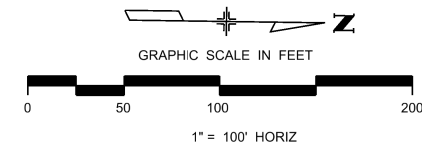


- BUILT IN PREVIOUS PHASE
- BUILD IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
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Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

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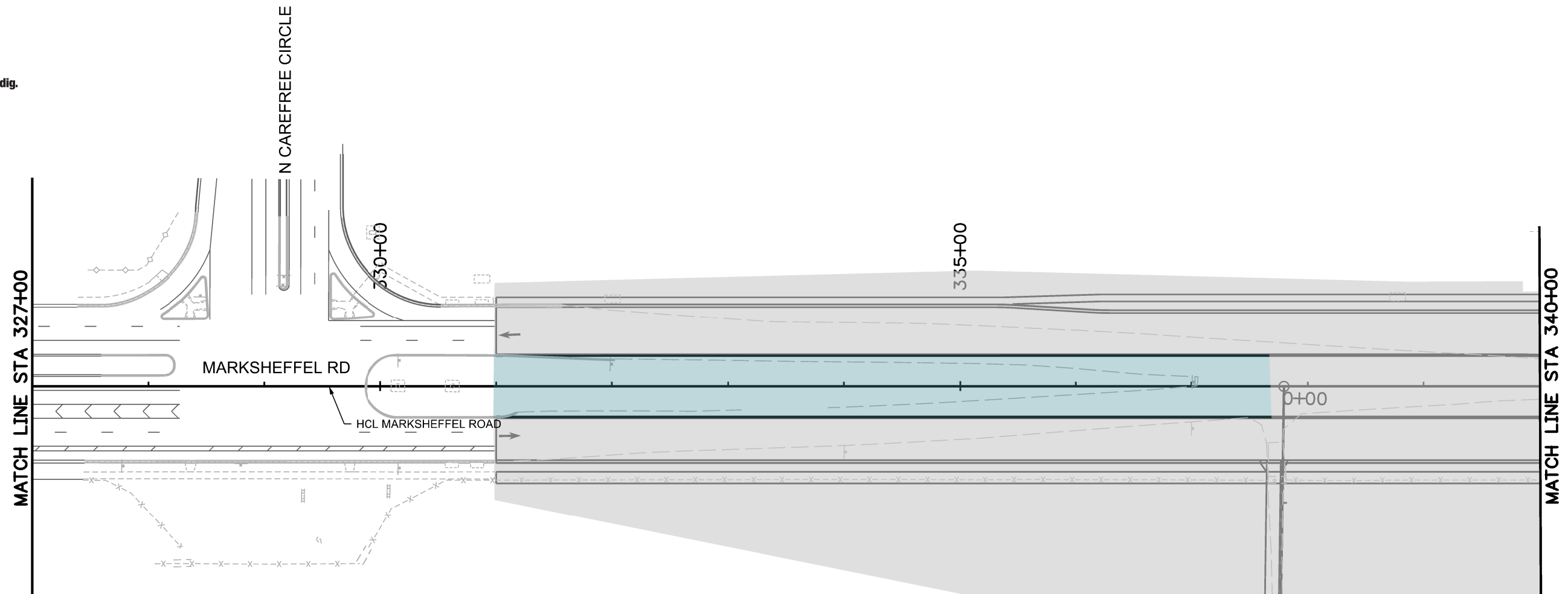
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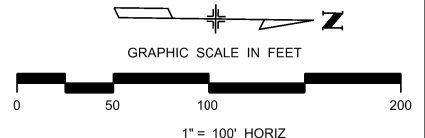
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Unit Information      Unit Leader
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Sheet Number
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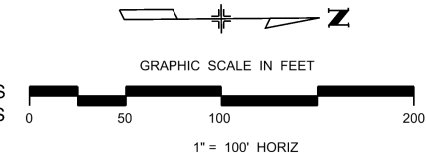
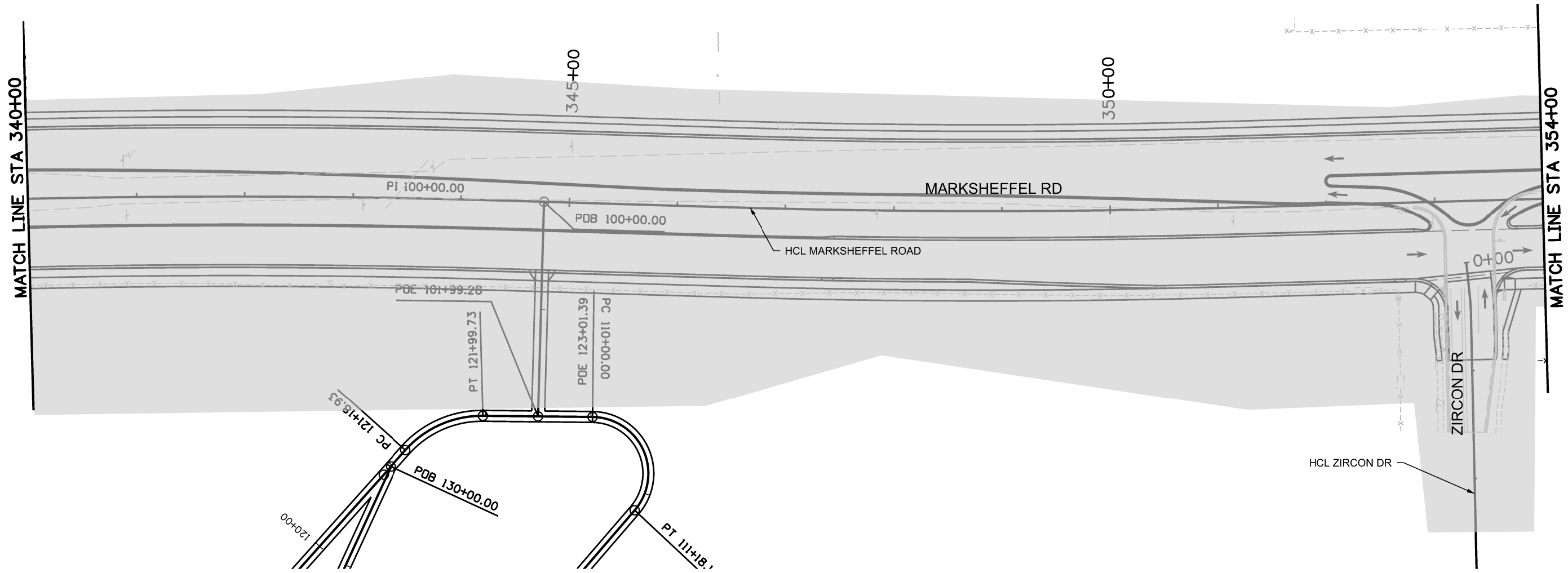


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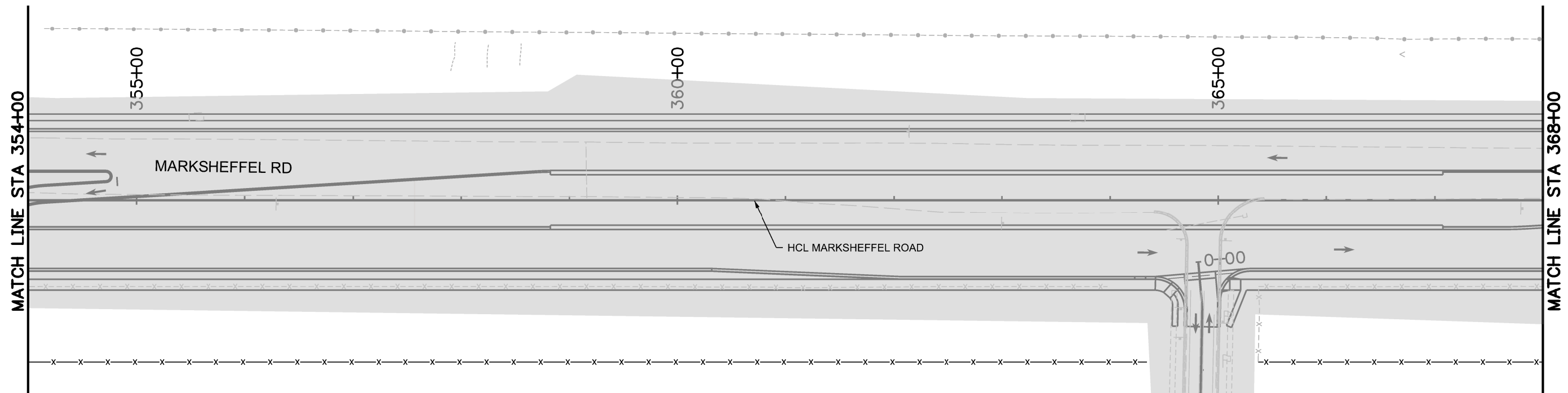
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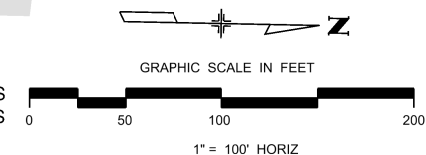


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Sheet Subset:	PHASING	Subset Sheets:	29 of 37

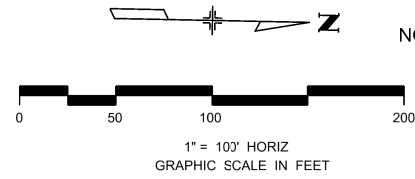
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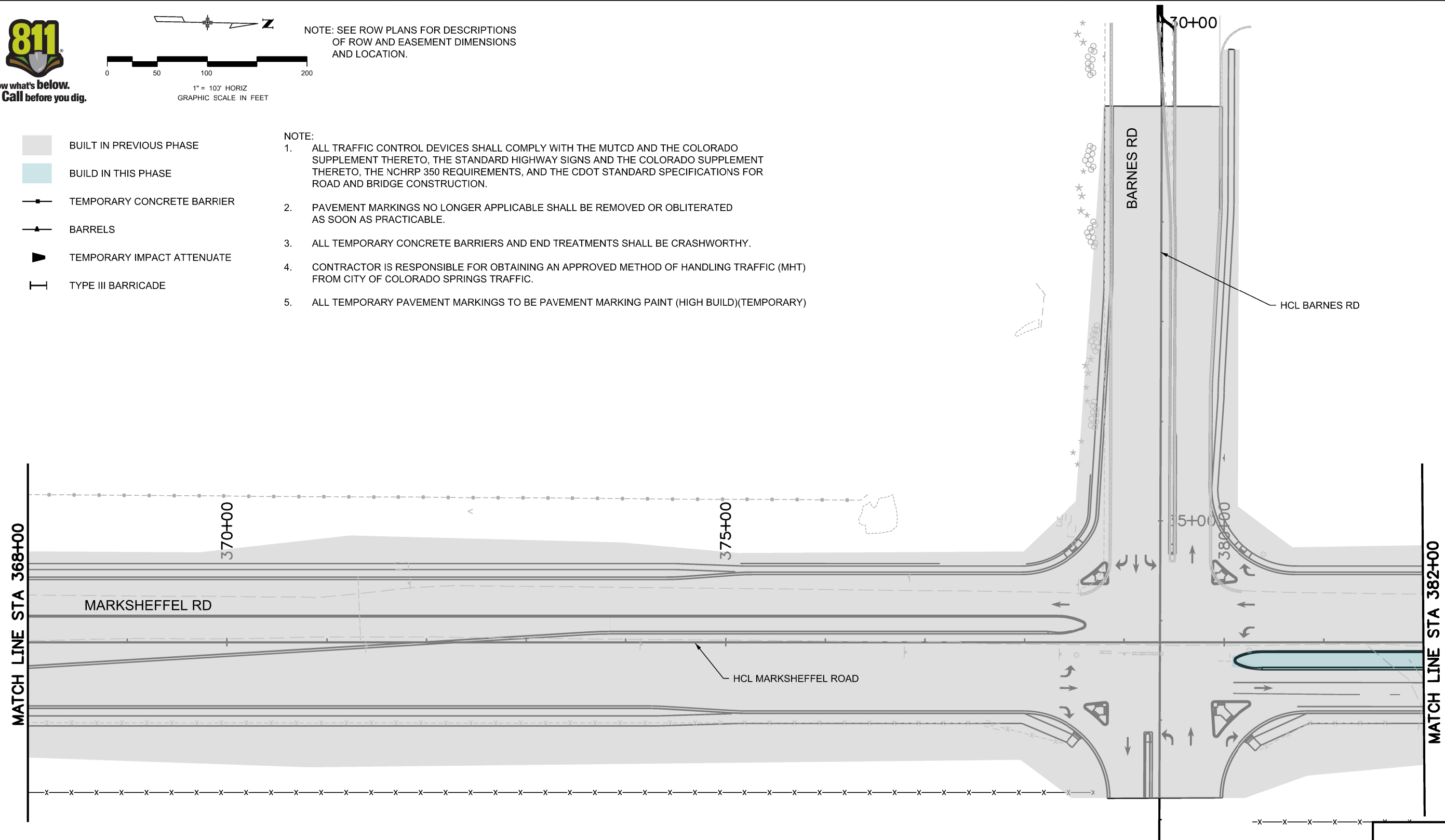


NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

- BUILT IN PREVIOUS PHASE
- BUILT IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

NOTE:

1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MUTCD AND THE COLORADO SUPPLEMENT THERETO, THE STANDARD HIGHWAY SIGNS AND THE COLORADO SUPPLEMENT THERETO, THE NCHRP 350 REQUIREMENTS, AND THE CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. PAVEMENT MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED OR OBLITERATED AS SOON AS PRACTICABLE.
3. ALL TEMPORARY CONCRETE BARRIERS AND END TREATMENTS SHALL BE CRASHWORTHY.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN APPROVED METHOD OF HANDLING TRAFFIC (MHT) FROM CITY OF COLORADO SPRINGS TRAFFIC.
5. ALL TEMPORARY PAVEMENT MARKINGS TO BE PAVEMENT MARKING PAINT (HIGH BUILD)(TEMPORARY)



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Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**COLORADO SPRINGS**  
OLYMPIC CITY USA

**PPRTA**

**WILSON & COMPANY**

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Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

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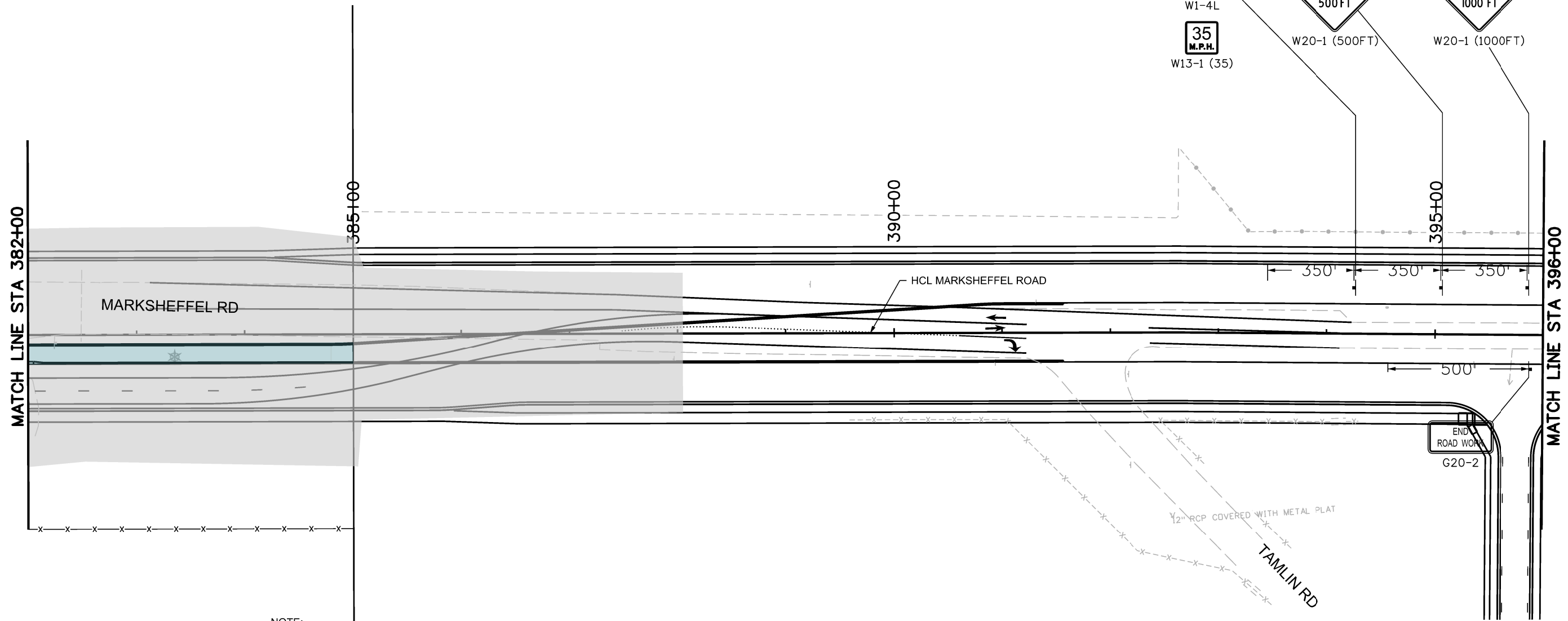
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Detailer:	BKM	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	30 of 37

Sheet Number
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Know what's below.  
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- BUILT IN PREVIOUS PHASE
- BUILD IN THIS PHASE
- TEMPORARY CONCRETE BARRIER
- BARRELS
- TEMPORARY IMPACT ATTENUATE
- TYPE III BARRICADE

- NOTE:
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Unit Information      Unit Leader
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Designer:	STA	Structure	
Detailer:	BKM	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	31 of 37

Sheet Number
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1" = 100' HORIZ  
GRAPHIC SCALE IN FEET

BEGIN PROJECT WEST BARNES RD

DESERT VANISH DR

BARNES RD







ANTELOPE RIDGE DR

MATCH LINE STA 27+00

24+50

25+00

HCL BARNES RD

-  BUILT IN PREVIOUS PHASE
-  BUILD IN THIS PHASE
-  TEMPORARY CONCRETE BARRIER
-  BARRELS
-  TEMPORARY IMPACT ATTENUATE
-  TYPE III BARRICADE

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NOTE: SEE ROW PLANS FOR DESCRIPTIONS OF ROW AND EASEMENT DIMENSIONS AND LOCATION.

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Print Date: 1/5/2024
File Name: P1-18300TC_Phasing_31_Pn3.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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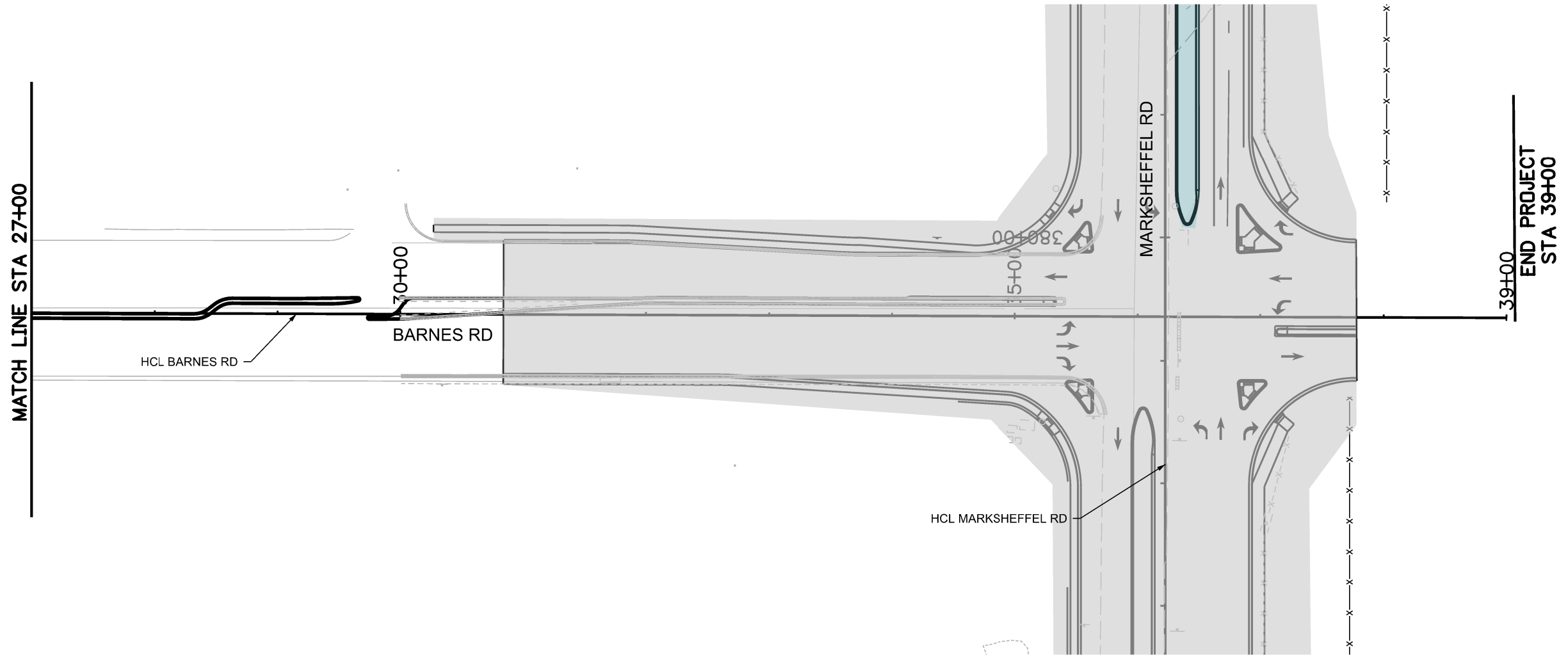
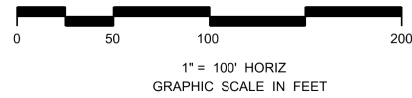
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Sheet Subset:	PHASING	Subset Sheets:	32 of 37







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-  BUILT IN PREVIOUS PHASE
-  BUILT IN THIS PHASE
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-  BARRELS
-  TEMPORARY IMPACT ATTENUATE
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Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.



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BARNES ROAD CONSTRUCTION PHASING 3			
Designer:	STA	Structure	
Detailer:	BKM	Numbers	
Sheet Subset:	PHASING	Subset Sheets:	33 of 37

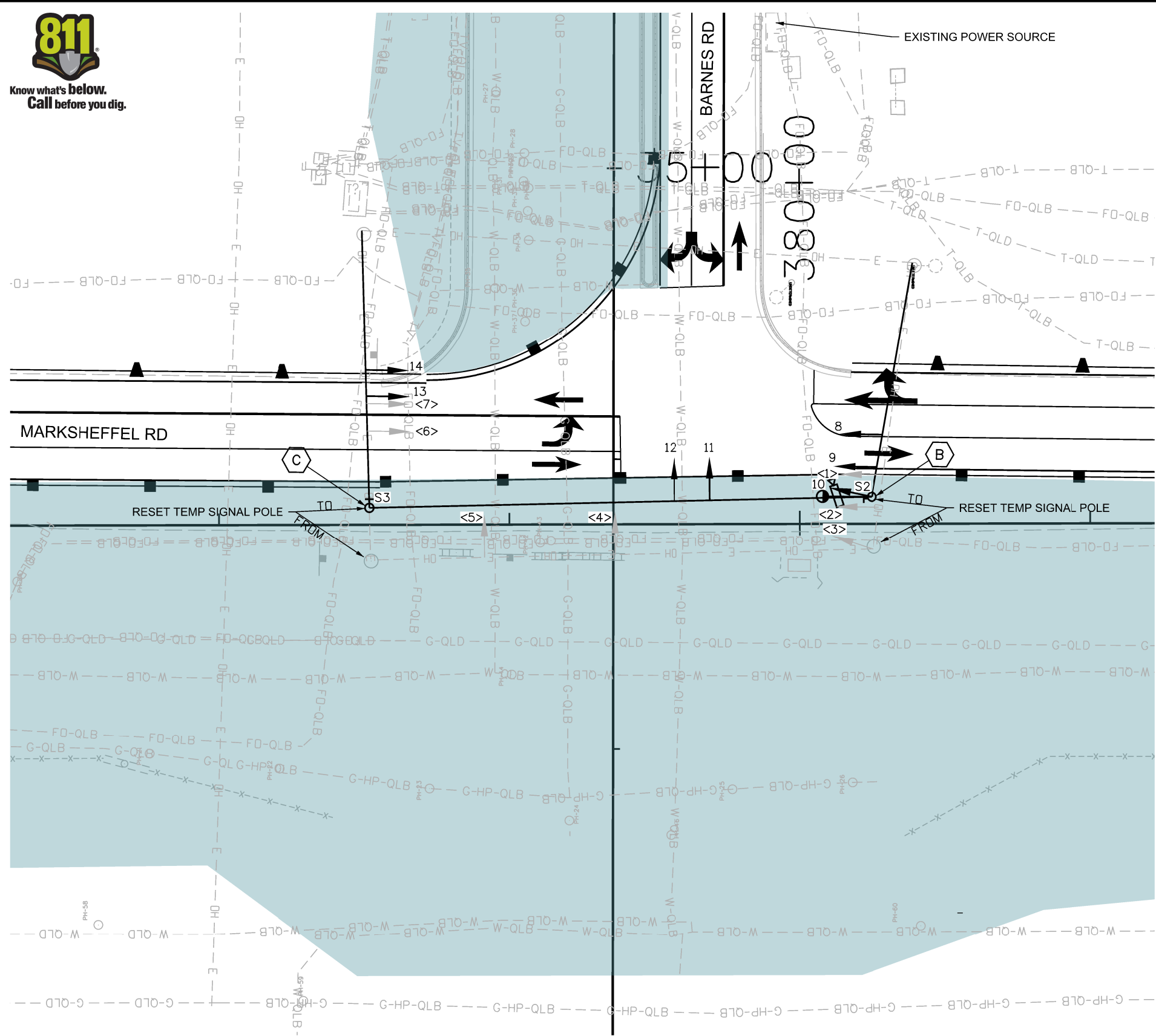
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### NOTES

1. RESET EXISTING SIGNAL POLES ON EAST SIDE OF MARKSHEFFEL ROAD AS SHOWN.
2. RESET EXISTING SIGNAL HEADS <1> THROUGH <7> TO ALIGN WITH TRAVEL LANES, AS SHOWN BY LOCATIONS 8 THROUGH 14.

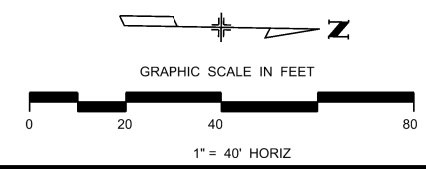
### TRAFFIC SIGNAL POLE SCHEDULE

POLE LOCATION	B NE CORNER	C SE CORNER
NORTHING	134760.10	134766.95
EASTING	90896.75	90723.82

Barnes Rd	Marksheffel Rd
S2	S3
D3-1	D3-1

### LEGEND

- SIGNAL POLE W/ SPAN WIRE
- TRAFFIC SIGNAL HEAD W/O BACKPLATE
- SIGN
- VEHICLE DETECTION CAMERA
- LUMINAIRE



**PRELIMINARY - NOT FOR CONSTRUCTION**

Print Date: 1/5/2024
File Name: P1-18300TC_Signal_01-1A.dgn
Horiz. Scale: 1:40      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

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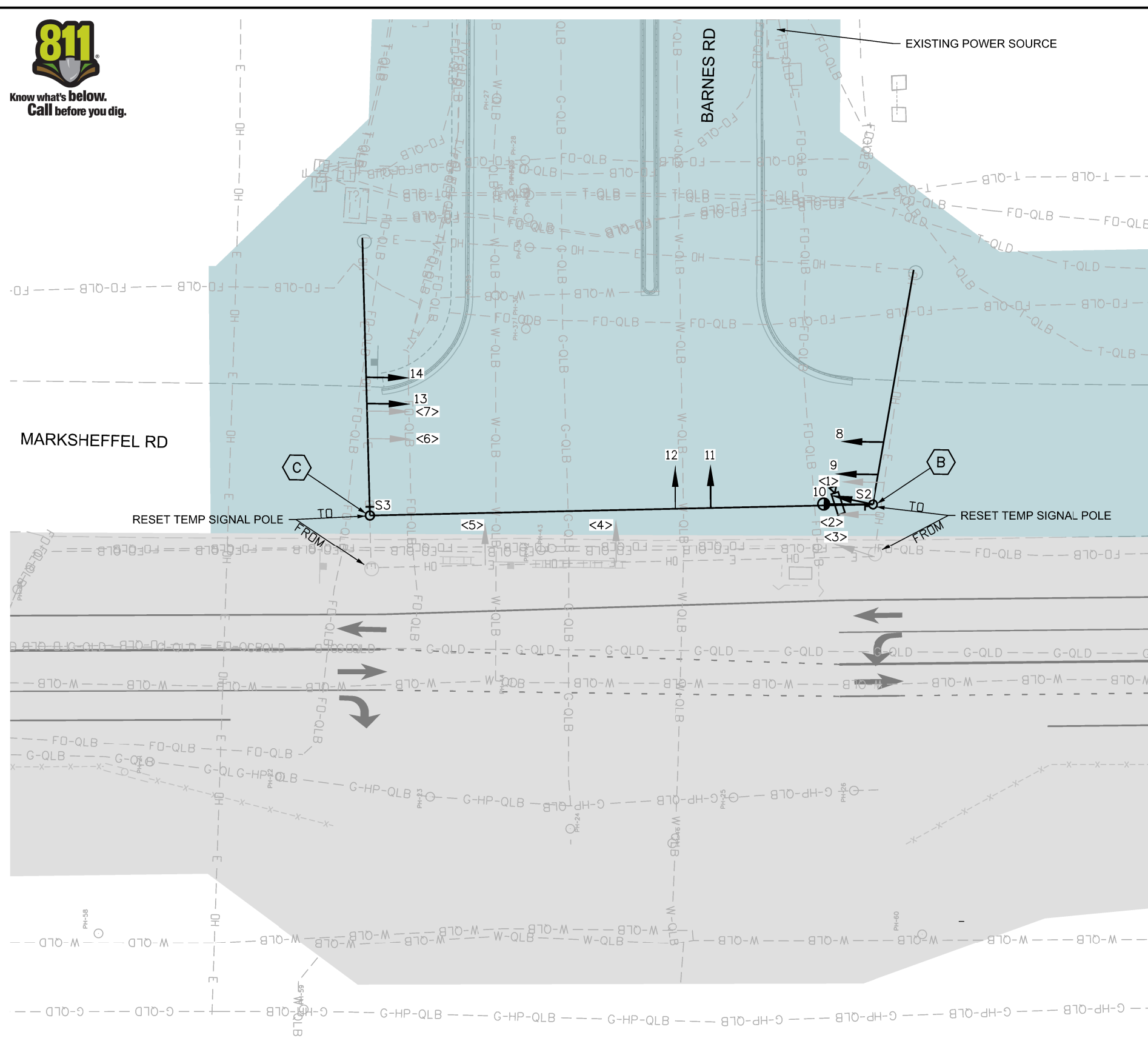
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Designer:	Structure Numbers
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Sheet Subset: TEMP-SIG	Subset Sheets: 34 of 37

Sheet Number
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### NOTES

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2. RESET EXISTING SIGNAL HEADS <1> THROUGH <7> TO ALIGN WITH TRAVEL LANES, AS SHOWN BY LOCATIONS 8 THROUGH 14.

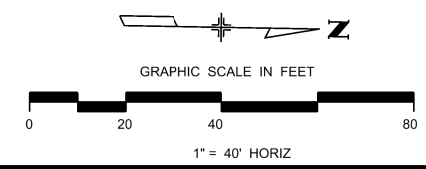
### TRAFFIC SIGNAL POLE SCHEDULE

POLE LOCATION	B NE CORNER	C SE CORNER
NORTHING	134760.10	134766.95
EASTING	90896.75	90723.82

Barnes Rd	Marksheffel Rd
S2 D3-1	S3 D3-1

### LEGEND

- SIGNAL POLE W/ SPAN WIRE
- TRAFFIC SIGNAL HEAD W/O BACKPLATE
- SIGN
- VEHICLE DETECTION CAMERA
- LUMINAIRE



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Horiz. Scale: 1:40      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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MARKSHEFFEL ROAD TEMPORARY TRAFFIC SIGNAL PLAN BARNES RD PHASE-1B		
Designer:	Structure Numbers	
Detailer: BKM	Subset Sheets: 35 of 37	
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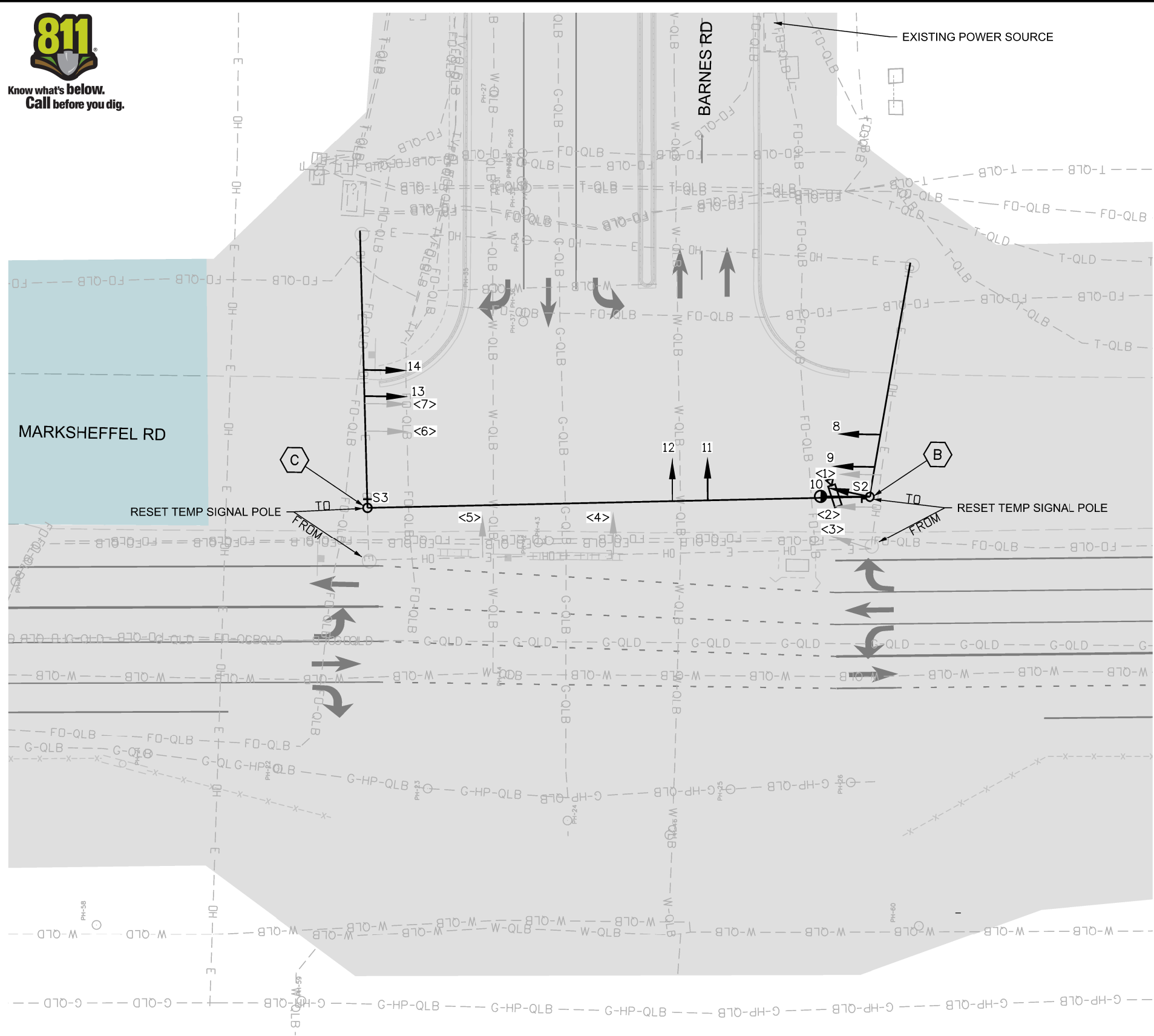
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**NOTES**

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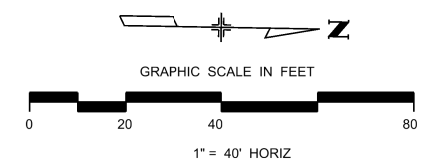
**TRAFFIC SIGNAL POLE SCHEDULE**

POLE LOCATION	B NE CORNER	C SE CORNER
NORTHING	134760.10	134766.95
EASTING	90896.75	90723.82

Barnes Rd	Marksheffel Rd
S2	S3
D3-1	D3-1

**LEGEND**

- SIGNAL POLE W/ SPAN WIRE
- TRAFFIC SIGNAL HEAD W/D BACKPLATE
- SIGN
- VEHICLE DETECTION CAMERA
- LUMINAIRE



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Horiz. Scale: 1:40      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

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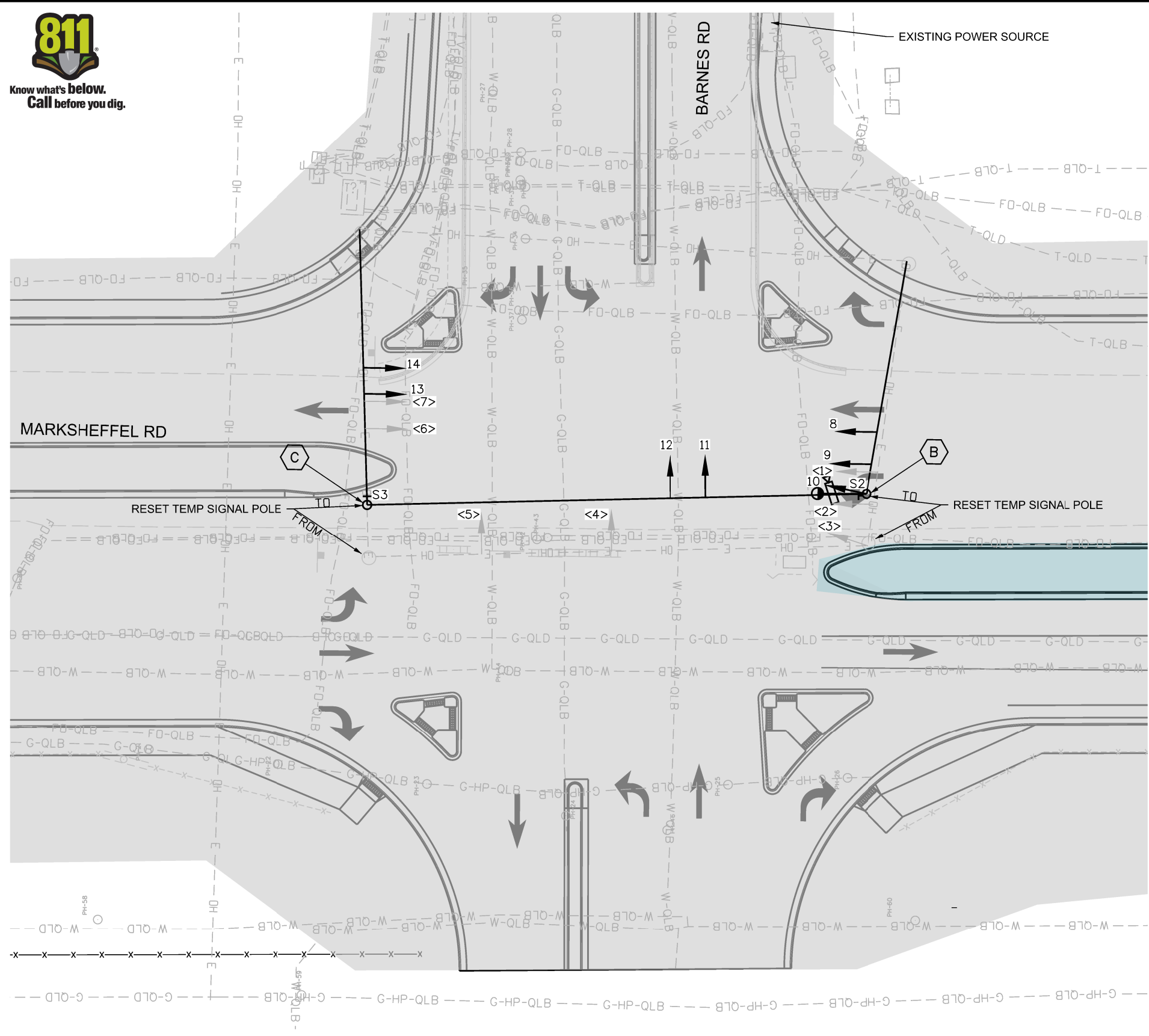
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Designer:	Structure Numbers	
Detailer:                      BKM		
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### NOTES

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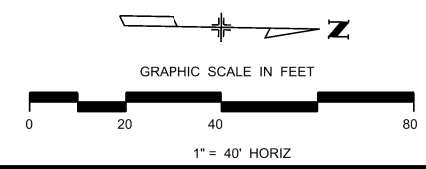
### TRAFFIC SIGNAL POLE SCHEDULE

POLE LOCATION	B NE CORNER	C SE CORNER
NORTHING	134760.10	134766.95
EASTING	90896.75	90723.82

Barnes Rd	Marksheffel Rd
S2	S3
D3-1	D3-1

### LEGEND

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- LUMINAIRE



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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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<b>MARKSHEFFEL ROAD TEMPORARY TRAFFIC SIGNAL PLAN BARNES RD PHASE-3</b>		
Designer:	Structure Numbers	
Detailer:                      BKM		
Sheet Subset: TEMP-SIG	Subset Sheets: 37 of 37	Sheet Number



**08\_Utilities Impact**  
**Will follow this page.**



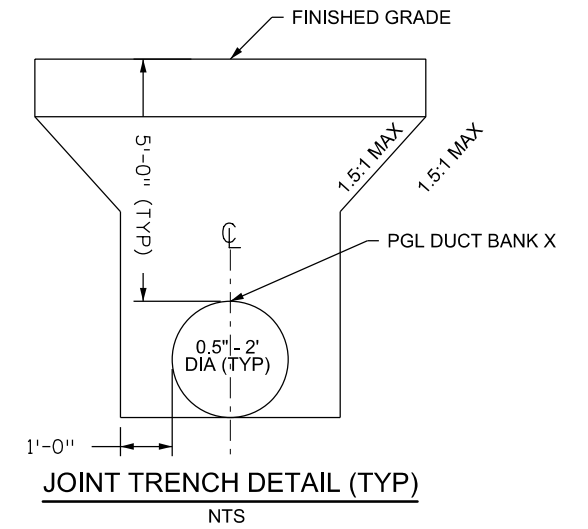
Know what's below.  
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UNDERLINED TEXT

- PROPOSED ROW
- PROPOSED EASEMENT
- W --- W --- EXISTING WATER LINE
- E --- E --- EXISTING OVERHEAD/UNDERGROUND ELECTRIC LINE
- G --- G --- EXISTING GAS LINE
- T --- T --- EXISTING TELEPHONE LINE
- FO --- FO --- EXISTING FIBER OPTIC LINE
- EXISTING SANITARY SEWER LINE

ABBREVIATIONS

- CIG COLORADO INTERSTATE GAS
- CSU COLORADO SPRINGS UTILITIES
- FO FIBER OPTIC
- MH MANHOLE
- MVEA MOUNTAIN VIEW ELECTRIC ASSOCIATION
- ROW RIGHT OF WAY
- SAS SANITARY SEWER



**Joint Trench Schedule**

Joint Trench Name	A	B	C	D	E	F	G	H	I	J	K	Bid Qty	Bid Item No.	Bid Item Description
Length (LF)	1,154	99	66	236	1,268	3,372	610	118	50	50	0	7,023	613-01201	Excavate/Flowfill/Backfill Joint Trench
Conduits in Each Trench (EA)														
1.25"	3	8	8	7	3	0	5	5	4	0	0			
2"	4	6	8	6	6	4	6	2	14	0	0			
3"	1	1	1	1	1	1	0	0	0	0	0			
4"	2	2	2	0	0	0	4	2	0	0	0			
TOTAL (EA)	10	17	19	14	10	5	15	9	18	0	0			
Handle/Install Conduit (LF)														
1.25"	3,762	1,192	528	2,002	4,404	0	3,300	1,090	400	0	0	16,678		
2"	5,316	794	528	1,816	8,608	15,088	4,260	436	1,400	0	0	38,246		
3"	1,554	149	66	286	1,518	4,122	0	0	0	0	0	7,695		
4"	2,608	198	232	0	0	0	3,240	436	0	0	0	6,714		
TOTAL (EA)	13,240	2,333	1,354	4,104	14,530	19,210	10,800	1,962	1,800	0	0	69,333	613-00027	Handle/Install/Test Joint Trench Conduit
Furnish HDPE Conduit (LF)														
2"	2,708	298	132	572	2,736	7,544	0	0	400	0	0	14,390	613-01202	Furnish Only 2" HDPE Conduit
3"	0	0	0	0	0	0	0	0	0	0	0	0	613-01203	Furnish Only 3" HDPE Conduit

**NOTES:**

Handle/Install Conduit shall include the unloading, handling, cutting, splicing, glueing, installation of all conduit associated with the Joint Trench Ductbank

Handle/Install Conduit pay item includes conduit installed the full length of the 50' for each tail at each stub up location.

Tracer wire shall be install in each joint trench ductbank and shall be interconnected between adjacent joint trench ductbanks. Test points shall be stubbed up and terminated with a test stations at each location shown on the drawings. The cost of the tracer wire and test stations is incidental to the Bid Item 613-01201.

Conduit shall be bundled and tied together every 10 feet before it is laid into the trench. Each tie-point shall be anchored to bottom of the joint trench before flowfilled.

Bid Items 613-01202 and 613-01203 shall include only costs to procure 2" and 3" HDPE Conduit reels, respectfully. The handling, installation, and testing of this conduit is included in Bid Item 613-00027.

All conduits provided by the Utility Companies shall be HDPE reels with the exception of the 4" conduit, the 4" conduit will be supplied as PVC. All splicing of conduit (glueing of PVC, HDPE splicing) is incidental to Bid Item 613-00027. Installation of all conduit sizes is included in Bid Item 613-00027.

The joint trench shall be sized and the conduit shall be anchored in the joint trench such that there is 6" minimum flowfill cover over all conduits and there is 6" minimum clearance between each conduit and the excavated joint trench sides. The final cover of all duct in the joint trench shall be a minimum of 5' below finished grade.

Backfill Joint Trench above flowfill with compacted native excavated material to existing grade.

Traffic Control required for ductbank shall be provided by general contractor.

Joint Trench Ductbank shall be installed between July 1, 2023 and November 1st, 2023.

With the exception of the conduit included in Bid Item 613-01202 Furnish Only 2" HDPE Conduit and Bid Item 613-01202 Furnish Only 3" HDPE Conduit, all conduit is supplied Utility Company.

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Print Date: 1/5/2024
File Name: P1-18300UTIL_GNotes_01.dgn
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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:	MARKSHEFFEL ROAD UTILITY PLAN LEGEND & ABBREVIATIONS	
Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subst: UTIL-GN
	Subset Sheets: 1	of 1

Sheet Number
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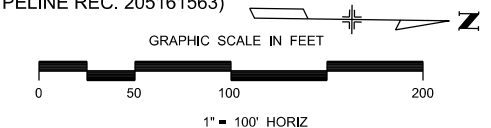
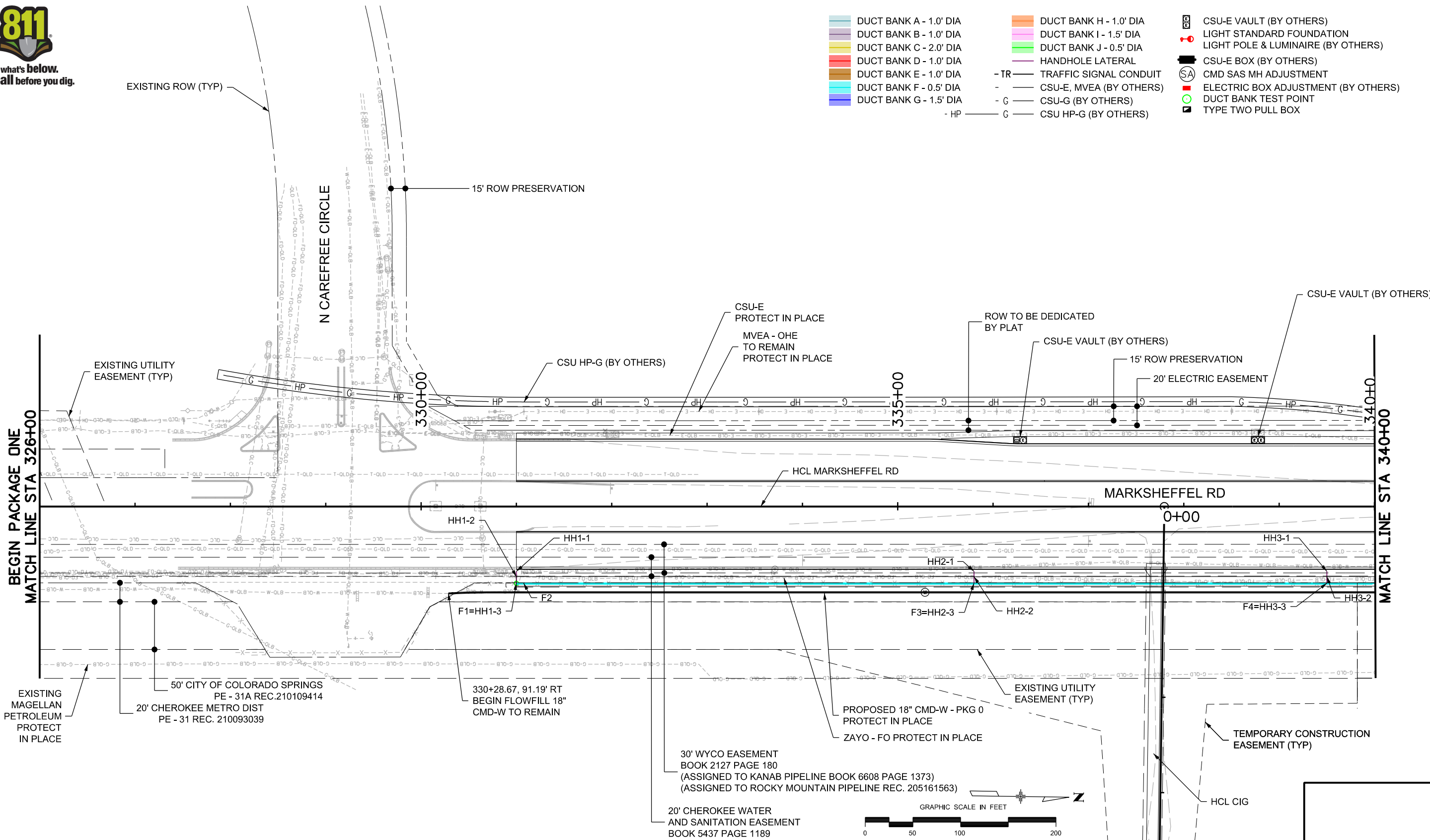


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- CMD SAS MH ADJUSTMENT
- ELECTRIC BOX ADJUSTMENT (BY OTHERS)
- DUCT BANK TEST POINT
- TYPE TWO PULL BOX

BEGIN PACKAGE ONE  
MATCH LINE STA 326+00

MATCH LINE STA 340+00



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Unit Information      Unit Leader

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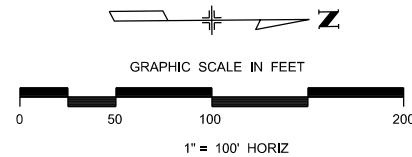
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MARKSHEFFEL ROAD UTILITIES PLAN			
Designer:	JLS	Structure Numbers	
Detailer:	TAH	Subset Sheets: 1 of 6	Sheet Number

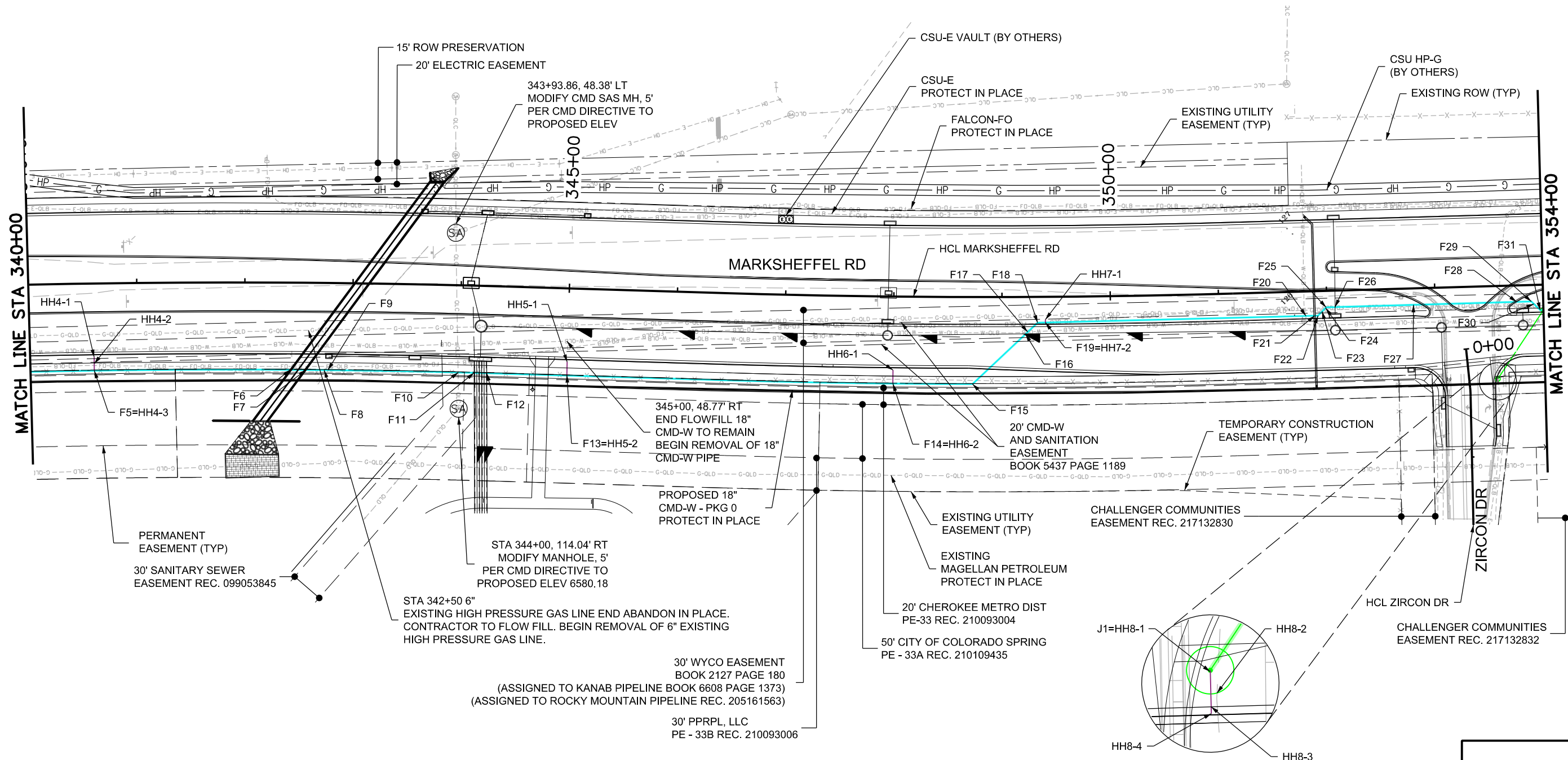
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File Name: P1-18300UTIL-EX-Pn_02.dgn
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Unit Information
Project No./Code PPRTA 10444

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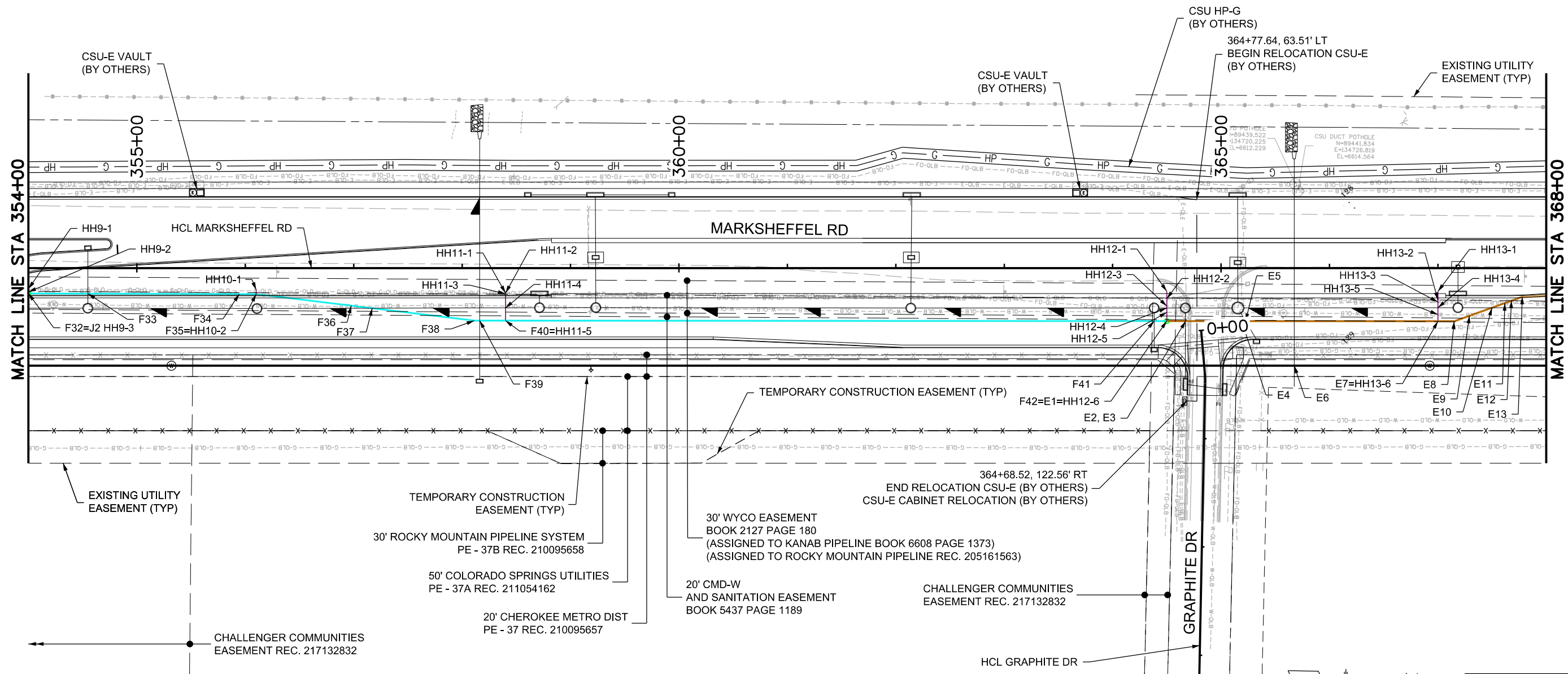
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Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subset: UTIL
	Sheet Subset: UTIL	Subset Sheets: 2 of 6
		Sheet Number

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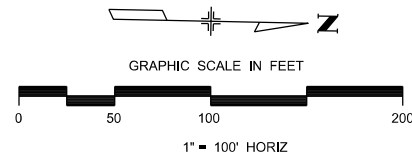
No Revisions:
Revised:
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<b>MARKSHEFFEL ROAD UTILITIES PLAN</b>			
Designer:	JLS	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	UTIL	Subset Sheets: 3 of 6	Sheet Number

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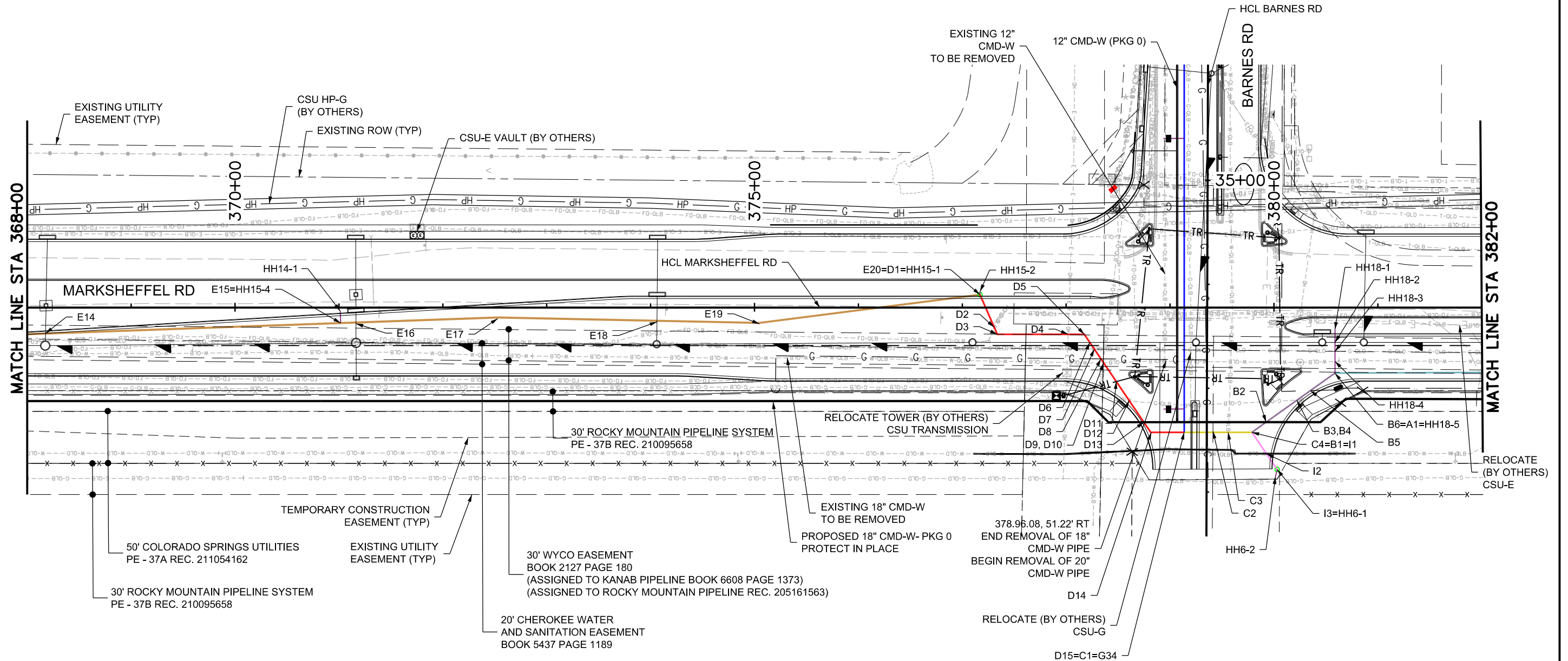


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NOTE:  
SEE BARNES RD (SHEET 7 OF 7) FOR UTILITY RELOCATIONS ALONG BARNES RD ALIGNMENT.  
SEE SIGNAL SHEETS FOR ADDITIONAL INFORMATION. SIGNAL CAISSONS, CONDUIT, PULL BOXES, AND SIGNAL CABINET SHOWN FOR INFORMATION ONLY.

- DUCT BANK A - 1.0' DIA
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Unit Information
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MARKSHEFFEL ROAD UTILITIES PLAN			
Designer:	JLS	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	UTIL	Subset Sheets: 4 of 6	Sheet Number

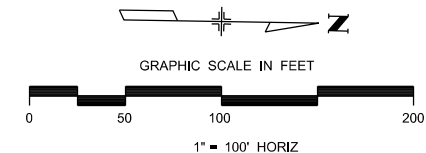
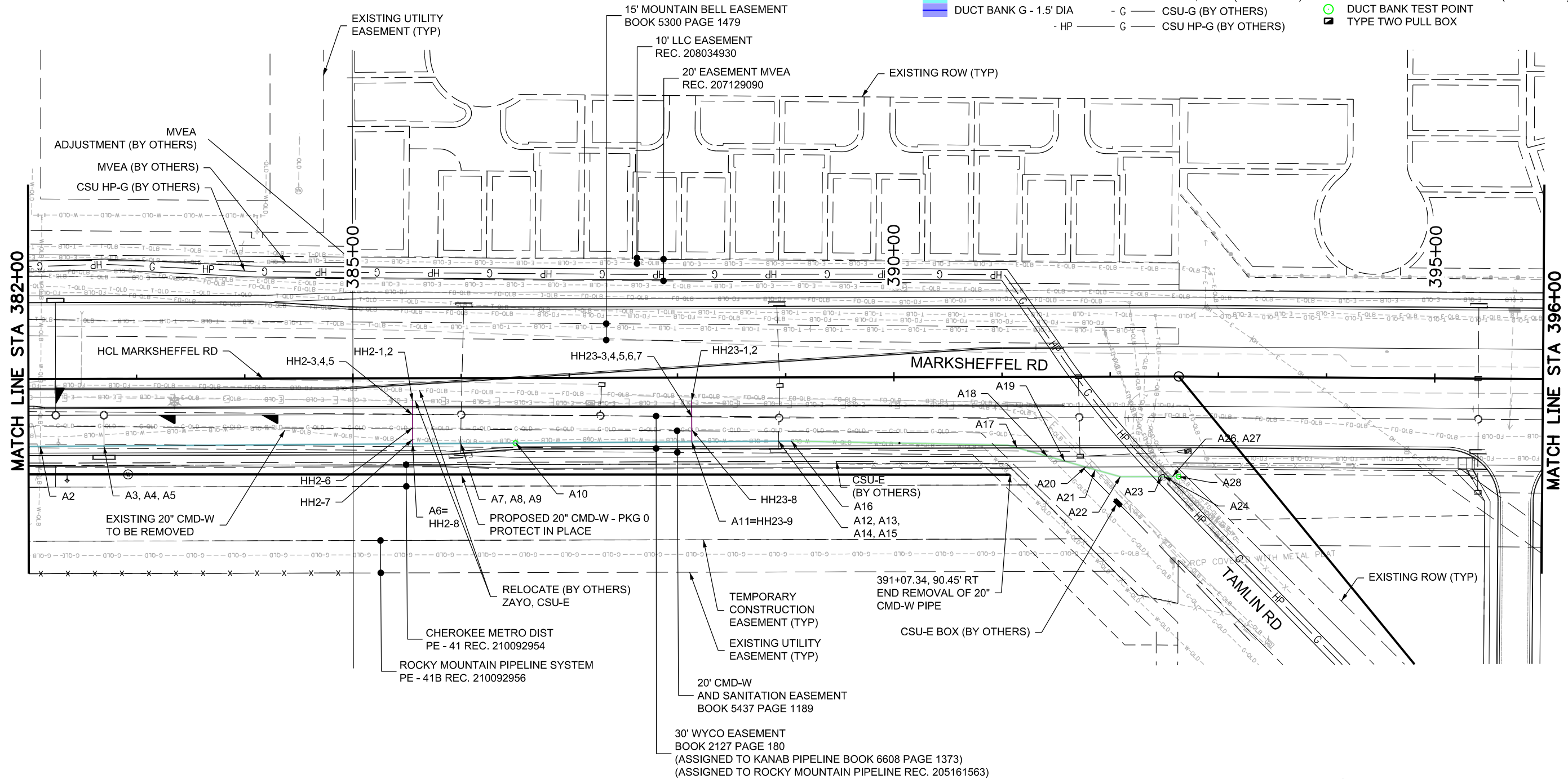
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File Name: P1-18300UTIL-EX_Pn_05.dgn
Horiz. Scale: 1:100
Unit Information
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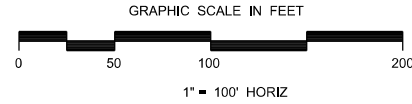
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MARKSHEFFEL ROAD UTILITIES PLAN			
Designer:	JLS	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	UTIL	Subset Sheets: 5 of 6	Sheet Number

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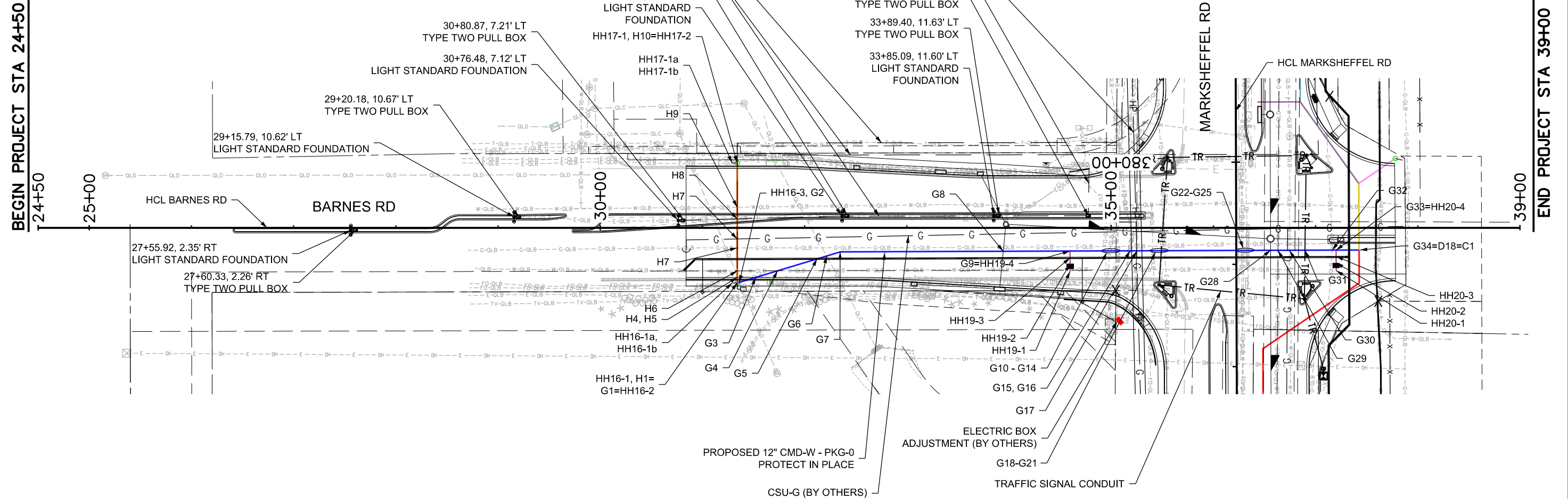


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NOTE:  
SEE MARKSHEFFEL RD (SHEET 5 OF 7)  
FOR UTILITY RELOCATIONS ALONG  
MARKSHEFFEL RD ALIGNMENT.

- DUCT BANK A - 1.0' DIA
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File Name: P1-18300UTIL-EX_Pn_06.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

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BARNES ROAD UTILITIES PLAN			
Designer:	JLS	Structure	
Detailer:	TAH	Numbers	
Sheet Subset:	UTIL	Subset Sheets:	6 of 6

Sheet Number
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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	DUCT BANK STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	DUCT BANK		OTHER CROSSING UTILITY		APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
F1	331+00.00	80.50' RT	Marksheffel	85974.23	134901.53	560+00.00	F	0.5	6572.31	6571.81			Begin Duct Bank F HH #1 (Comcast, City Traffic, CSU-FO) Test Point #1	
F2	331+02.59	80.50' RT	Marksheffel	85976.83	134901.50	560+02.59	F	0.5	6572.39	6571.89	6571.78	6570.28	Exist 18" CMD-W to be removed	Assumed top of exist pipe = 5.0' below exist ground
F3	335+80.00	80.50' RT	Marksheffel	86454.19	134895.01	564+80.00	F	0.5	6581.13	6580.63			HH# 2 (CSU-FO)	
F4	339+50.00	80.50' RT	Marksheffel	86824.16	134889.98	568+49.95	F	0.5	6579.52	6579.02			HH# 3 (Comcast)	
F4a	339+97.86	80.51' RT	Marksheffel	86872.01	134889.33	568+97.85	F	0.5	6579.28	6578.78			Horizontal Curve - PC	
F5	340+60.00	80.50' RT	Marksheffel	86933.18	134888.72	569+59.03	F	0.5	6578.98	6578.48			HH# 4 (CSU-FO, City Traffic)	
F5a	342+19.17	77.64' RT	Marksheffel	87091.25	134886.35	571+17.12	F	0.5					Horizontal Curve - PI	
F6	342+42.37	80.50' RT	Marksheffel	87114.29	134889.53	571+40.14	F	0.5	6578.09	6577.59	6573.11	6565.44	Proposed 10x6 EAST, SOUTH	
F7	342+57.04	80.50' RT	Marksheffel	87128.72	134889.76	571+54.58	F	0.5	6577.99	6577.49	6573.17	6565.50	Proposed 10x6 EAST, NORTH	
F8	342+74.81	80.50' RT	Marksheffel	87146.32	134890.07	571+72.18	F	0.5	6577.82	6577.32	6568.21	6566.71	Exist 18" Cast Iron Pipe inside Conc Pipe	Topo shot/field note "Depth: Less than 0.5 ft". Ex ground DTM = <b>6568.71</b> Topo INV = 6565.98
F9	342+77.96	80.50' RT	Marksheffel	87149.44	134890.13	571+75.30	F	0.5	6577.79	6577.29	6568.28	6566.78	Exist 18" Cast Iron Pipe inside Conc Pipe	Topo shot/field note "Depth: Less than 0.5 ft". Ex ground DTM = <b>6568.78</b> Topo INV = 6565.87
F10	343+99.03	80.50' RT	Marksheffel	87269.32	134893.31	572+95.23	F	0.5	6577.31	6576.81	6559.79	6558.96	Exist CMD SAS to remain	Intended to be left in place. Need to verify clearances with As-Builts. PH-8 9.5' east of duct bank crossing TOP= 6559.79; BOTTOM= 6558.96
F11	344+14.04	80.50' RT	Marksheffel	87284.18	134893.85	573+10.10	F	0.5	6577.40	6576.90	6575.20	6571.36	Proposed 4x3 EAST, SOUTH	
F12	344+25.82	80.50' RT	Marksheffel	87295.85	134894.25	573+21.77	F	0.5	6577.47	6576.97	6575.20	6571.36	Proposed 4x3 EAST, NORTH	
F13a	344+40.49	80.50' RT	Marksheffel	87310.36	134894.79	573+36.29	F	0.5					Horizontal Curve - PT	
F13	345+00.00	80.50' RT	Marksheffel	87369.83	134897.08	573+95.80	F	0.5	6578.36	6577.86			HH# 5 (CSU-FO)	
F14a	346+47.95	80.50' RT	Marksheffel	87517.67	134902.78	575+43.75	F	0.5					Horizontal Curve - PC	
F14b	347+60.38	81.29' RT	Marksheffel	87631.15	134907.15	576+57.32	F	0.5					Horizontal Curve - PI	
F14	348+00.00	80.45' RT	Marksheffel	87671.18	134907.18	576+97.33	F	0.5	6589.93	6589.43			HH# 6 (CSU-FO, Comcast, City Traffic)	
F15	348+72.80	80.39' RT	Marksheffel	87744.71	134908.22	577+70.87	F	0.5	6593.76	6593.26			Horizontal Bend / Curve PT	
F16	349+21.24	34.60' RT	Marksheffel	87794.43	134862.24	578+38.59	F	0.5	6594.95	6594.45	6591.69	6585.69	Proposed SD Trunkline 60" RCP	
F17	349+23.62	32.46' RT	Marksheffel	87796.04	134860.75	578+40.79	F	0.5	6594.99	6594.49	<b>6595.71</b>	<b>6594.21</b>	<b>Exist 18" CMD-W to be removed</b>	Assumed top of 18" is 5' below existing grade; Start approx 5.5' parallel toward east; crossing
F17a	349+32.08	24.42' RT	Marksheffel	87804.79	134852.67	578+52.70	F	0.5	6595.25	6594.75	6597.65	6597.55	Exist Zayo FO - 1.25" x 2	Start approx 6' parallel toward west; crossing PH-82
F18	349+32.15	24.42' RT	Marksheffel	87805.35	134852.14	578+53.47	F	0.5	6595.29	6594.79			Horizontal Bend	
F19	349+40.00	21.00' RT	Marksheffel	87812.69	134852.02	578+60.81	F	0.5	6595.58	6595.08			HH# 7 (CSU-FO)	
F20	351+78.66	22.64' RT	Marksheffel	88051.82	134848.07	580+99.97	F	0.5	6605.12	6604.62	6603.32	6602.48	Exist 10" CMD-W Lateral crossing to be removed	Assumed top of 18" is 5' below existing grade
F21	351+88.37	22.67' RT	Marksheffel	88061.54	134847.91	581+09.69	F	0.5	6605.22	6604.72	6600.92	6600.08	Proposed 10" CMD-W Lateral @ Zircon	CMD-W 10" STA 0+88.99
F21a	351+91.32	31.77' RT	Marksheffel	88064.66	134856.95	581+12.66	F	0.5	6605.26	6604.76	<b>6605.13</b>	<b>6603.46</b>	<b>Exist 18" CMD-W to be removed</b>	Assumed top of 18" is 5' below existing grade; End approx 5.5' parallel toward east PH-14 TOP=6605.13, INV=6603.46
F22	351+91.47	22.68' RT	Marksheffel	88064.63	134847.86	581+12.78	F	0.5	6605.26	6604.76			Horizontal Bend	

Field verify elevation(s) and clearance(s)  
 xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

Print Date: 1/5/2024  
 File Name: P1-18300UTIL\_EX\_Tabs\_01.dgn  
 Horiz. Scale: 1:100      Vert. Scale:  
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Revised:	Designer: JLS	Structure Numbers
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		Sheet Number

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Know what's below.  
Call before you dig.

POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	DUCT BANK STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	DUCT BANK		OTHER CROSSING UTILITY		APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
F24	351+98.78	15.64' RT	Marksheffel	88071.81	134840.69	581+20.09	F	0.5	6605.34	6604.84	6606.62	6606.46	Existing Zayo FO - 2" x 2	End approx 6' parallel toward west; Start in-line length; <b>PH-13</b>
F25	351+99.29	15.16' RT	Marksheffel	88072.30	134840.19	581+23.63	F	0.5	6605.37	6604.87			Horizontal Bend	
F26	352+07.52	15.16' RT	Marksheffel	88080.53	134840.03	581+31.86	F	0.5	6605.48	6604.98	6602.96	6601.04	Proposed SD Lateral 18" RCP	<b>PH-15 - 4.58' depth, 4" dia.</b>
F28	353+58.76	15.22' RT	Marksheffel	88231.92	134837.05	582+83.26	F	0.5	6609.15	6608.65	6607.65	or lower	Existing CSU-E to LOWER	Need to pothole existing to confirm elevations; Confirm 1' vertical clearance. PH data shows 3.67' - 5.0' depth Elevation provided is highest acceptable exist elevation without requiring lowering.
F29	353+89.03	15.16' RT	Marksheffel	88262.00	134836.46	583+13.37	F	0.5	6609.73	6609.23			Horizontal Bend	
F27	353+92.90	19.19' RT	Marksheffel	88265.96	134840.42	583+18.81	F	0.5					Exist Asbestos gas line removal	
F30	353+92.90	19.19' RT	Marksheffel	88265.96	134840.42	583+19.18	F	0.5	6609.85	6609.35	6608.35	or lower	Existing Zayo FO	Need to pothole existing to confirm elevations; Confirm 1' vertical clearance. Elevation provided is highest acceptable exist elevation without requiring lowering.
F31	353+96.87	23.33' RT	Marksheffel	88270.01	134844.47	583+24.69	F	0.5	6609.96	6609.46			Horizontal Bend	
F32	354+00.00	23.34' RT	Marksheffel	88273.13	134844.42	583+27.81	F	0.5	6610.02	6609.52			HH# 9 (CSU-FO) Test Point #2	
F33	354+54.78	23.51' RT	Marksheffel	88327.91	134843.51	583+82.59	F	0.5	6610.99	6610.49	6606.16	6604.24	Proposed SD Lateral 18" RCP	
F34	356+00.22	23.97' RT	Marksheffel	88473.33	134841.11	585+28.03	F	0.5	6611.37	6610.87	6609.85	or lower	Existing Zayo FO	Need to pothole existing to confirm elevations; Confirm 1' vertical clearance. Elevation provided is highest acceptable exist elevation without requiring lowering.
F35	356+10.00	23.94' RT	Marksheffel	88483.11	134840.92	585+37.82	F	0.5	6611.30	6610.80			HH# 10 (Comcast, City Traffic)	
F36a	356+10.56	24.00' RT	Marksheffel	88483.67	134840.94	585+38.38	F	0.5	6611.30	6610.80			Horizontal Bend	
F36	357+01.88	35.11' RT	Marksheffel	88575.06	134850.33	586+30.37	F	0.5	6610.65	6610.15	6605.18	6603.68	Exist 18" CMD-W to be removed	Assumed top of 18" is 5' below existing grade
F37	357+17.10	36.97' RT	Marksheffel	88590.45	134851.81	586+45.71	F	0.5	6610.54	6610.04	6605.28	6599.28	Proposed SD Trunkline 60" RCP	
F39a	357+94.49	46.38' RT	Marksheffel	88668.01	134859.71	587+23.67	F	0.5	6609.99	6609.49			5:1 Down to elevation below SD crossing	
F38	358+11.18	48.42' RT	Marksheffel	88684.73	134861.40	587+40.48	F	0.5	6607.22	6606.72			Horizontal Bend	
F39	358+16.18	48.42' RT	Marksheffel	88689.74	134861.33	587+45.48	F	0.5	6606.40	6605.90	6610.40	6607.90	Proposed lateral 24" RCP - future DR Horton development	
F39b	358+25.68	48.43' RT	Marksheffel	88710.07	134860.92	587+65.83	F	0.5	6609.74	6609.24			5:1 Up from elevation below SD crossing	
F40	358+40.00	48.44' RT	Marksheffel	88713.54	134860.86	587+69.30	F	0.5	6609.75	6609.25			HH# 11 (CSU-FO)	
F41b	362+13.81	48.70' RT	Marksheffel	89087.28	134853.77	591+43.11	F	0.5	6611.44	6610.94			Horizontal Bend	
F41	364+38.25	48.85' RT	Marksheffel	89311.68	134849.51	593+67.54	F	0.5	6613.86	6613.36	6617.41	6615.50	Proposed 18" SD Lateral	
F42	364+50.00	48.86' RT	Marksheffel	89323.41	134849.28	593+79.27	F	0.5	6613.59	6613.09			Begin Duct Bank E HH# 12 (Zayo, CenturyLink, Comcast, City Traffic) Test Point #4	
J1	353+56.00	85.86' RT	Marksheffel	88230.37	134907.81	555+00.00	J	0.5	6613.65	6613.15			Begin Duct Bank J - Dedicated for CSU-FO HH# 8 (CSU-FO) Test Point #3	
J2	353+56.81	84.73' RT	Marksheffel	88231.16	134906.66	555+01.38	J	0.5	6613.37	6612.87	6611.87	6611.54	Existing 4" HDPE CSU-E to remain	PH-15 5' toward West: 4" dia. ; 4.58' depth
J3	353+90.43	36.87' RT	Marksheffel	88263.14	134858.14	555+59.92	J	0.5	6610.30	6609.80	6601.79	6595.59	Proposed 60" RCP SD Trunkline	

Field verify elevation(s) and clearance(s)  
 xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

Print Date: 1/5/2024  
 File Name: P1-18300UTIL\_EX\_Tabs\_02.dgn  
 Horiz. Scale: 1:100 Vert. Scale:  
 Unit Information Unit Leader  
 Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:	MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS	
Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subst: UTIL-TAB
	Subset Sheets: 2	of 18
	Sheet Number	

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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	DUCT BANK STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	DUCT BANK		OTHER CROSSING UTILITY		APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
J4	353+93.03	33.23' RT	Marksheffel	88266.36	134854.45	555+64.42	J	0.5	6610.22	6609.72			Exist 18" CMD-W to be removed	Shown in profile at 5' deep, but need to verify elevations and clearance, though to be removed.
J5	354+00.00	23.34' RT	Marksheffel	88273.13	134844.42	555+76.46	J	0.5	6610.02	6609.52			End Duct Bank J HH# 9 (CSU-FO) Connect to Duct Bank F STA 583+27.81	
E1	364+49.96	48.86' RT	Marksheffel	89323.41	134849.28	540+00.00	E	1.0	6613.59	6612.59			End Duct Bank F HH# 12 (Zayo, CenturyLink, Comcast, City Traffic) Test Point #4	
E2	364+67.07	48.87' RT	Marksheffel	89340.50	134848.96	540+17.09	E	1.0	6613.34	6612.34	6616.76	6614.84	Proposed SD Lateral 18" RCP	
E3	364+67.07	48.87' RT	Marksheffel	89340.83	134848.95	540+17.43	E	1.0	6613.34	6612.34	xxxx.xx		Existing CSU-E to relocate horizontally and vertically	All CSU-E PH's = 3", 4", 6". Used 6" for profile. Most PH's 3.67' - 4.58'. Direct conflict with proposed 54" SD.
E3a	364+77.73	48.88' RT	Marksheffel	89351.16	134848.76	540+27.76	E	1.0	6613.46	6612.46	6611.46	6610.96	New CSU-E crossing - relocation to avoid 54" SD trunkline. Assume 6" diameter	TOP Elevation provided for proposed line includes all horizontal and vertical clearance required spacing.
E4	365+19.05	48.91' RT	Marksheffel	89392.47	134847.97	540+69.07	E	1.0	6613.93	6612.93	6617.60	6617.43	Exist 2" x 2 Falcon FO Lateral to be removed	PH-20 = 38' east of crossing: 3.58' Cover - assume same cover for crossing. Verify FO elevation before digging.
E5	365+22.64	48.91' RT	Marksheffel	89396.06	134847.91	540+72.66	E	1.0	6613.97	6612.97	6617.39	6615.47	Proposed SD Lateral 18" RCP	
E6a	365+52.91	48.93' RT	Marksheffel	89426.33	134847.33	541+02.93	E	1.0	6614.31	6613.31			Vertical Bend	
E6	365+67.51	48.95' RT	Marksheffel	89440.87	134847.06	541+17.47	E	1.0	6617.22	6616.22	6621.23	6618.73	Proposed Lateral Culvert 24" RCP	
E6b	365+82.11	48.96' RT	Marksheffel	89455.52	134846.78	541+32.13	E	1.0	6620.15	6619.15			5:1 Up from elevation below SD crossing	
E7	367+00.00	49.04' RT	Marksheffel	89573.39	134844.54	542+50.03	E	1.0	6622.81	6621.81			HH# 13 (CSU-FO)	
E8	367+15.01	49.07' RT	Marksheffel	89588.47	134844.25	542+65.10	E	1.0	6623.15	6622.15			Horizontal Bend	
E9	367+31.17	43.26' RT	Marksheffel	89604.44	134838.15	542+82.20	E	1.0	6623.23	6622.23	6622.19	6620.69	Exist 18" CMD-W to be removed	Shown 5' below existing ground. Verify existing 18" CMD-W to be removed.
E10	367+49.86	36.53' RT	Marksheffel	89623.00	134831.05	543+02.07	E	1.0	6623.98	6622.98	6620.80	6615.38	Proposed 54" RCP SD Trunkline	
E11	367+61.74	32.26' RT	Marksheffel	89634.78	134826.55	543+14.69	E	1.0	6624.04	6623.04	6624.36	6624.26	Exist 1.25" FO to be removed	PH-83 = 40' toward north. 1.25" Zayo polyethylene, 3.58' bury depth.
E12	367+65.72	20.81' RT	Marksheffel	89638.75	134825.03	543+18.94	E	1.0					Exist Asbestos gas line removal	
E13	367+77.86	26.45' RT	Marksheffel	89650.79	134820.43	543+31.82	E	1.0	6624.13	6623.13			Horizontal Bend	
E14	368+17.56	25.04' RT	Marksheffel	89690.45	134818.24	543+71.55	E	1.0	6624.33	6623.33	6621.45	6619.53	Proposed 18" RCP SD lateral	
E15a	370+69.13	15.13' RT	Marksheffel	89968.78	134802.85	546+50.30	E	1.0	6625.74	6624.74			5:1 Up to elevation above SD crossing	
E15	371+01.63	14.94' RT	Marksheffel	89974.27	134802.55	546+55.80	E	1.0	6626.39	6625.39			HH# 14 (Zayo, CenturyLink, CSU-FO, Comcast)	6' outside inlet
E16	371+16.41	14.41' RT	Marksheffel	89989.04	134801.73	546+70.59	E	6"x2' SPRAWL	6627.65	6627.15	6625.65	6623.15	Proposed SD Lateral 18" RCP	
E16b	371+24.40	14.13' RT	Marksheffel	89997.02	134801.29	546+93.38	E	1.0	6626.27	6625.27			5:1 Down from elevation above SD crossing	
E17	372+52.82	9.56' RT	Marksheffel	90125.32	134794.19	548+07.08	E	1.0	6628.66	6627.66			Horizontal Bend	
E18a	373+94.27	12.51' RT	Marksheffel	90266.81	134794.36	549+48.57	E	1.0	6633.51	6632.51			5:1 Down to elevation below SD crossing	
E18	374+06.12	12.76' RT	Marksheffel	90278.66	134794.38	549+60.42	E	1.0	6631.14	6630.14	6635.14	6632.64	Proposed SD Lateral 18" RCP	
E18b	374+24.57	13.14' RT	Marksheffel	90297.11	134794.40	549+78.87	E	1.0	6634.83	6633.83			5:1 Up from elevation below SD crossing	
E19	375+04.74	14.82' RT	Marksheffel	90377.30	134794.49	550+59.06	E	1.0	6638.49	6637.49			Horizontal Bend	

Field verify elevation(s) and clearance(s)  
xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

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Print Date: 1/5/2024		Sheet Revisions				MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS				
File Name: P1-18300UTIL_EX_Tabs_03.dgn		Date:	Comments	Init.		No Revisions:				Sheet Number
Horiz. Scale: 1:100     Vert. Scale:						Revised:	Designer: JLS	Structure Numbers		
Unit Information     Unit Leader						Void:	Detailer: TAH	Subset Sheets: 3 of 18		
Project No./Code PPRTA 10444					Sheet Subset: UTIL-TAB					



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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	DUCT BANK STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	DUCT BANK		OTHER CROSSING UTILITY		APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
E20	377+17.07	12.38' LT	Marksheffel	90589.06	134763.12	552+73.13	E	1.0	6648.46	6647.46			Begin Duct Bank D HH# 15 (CenturyLink, Zayo, Falcon, CSU-FO, Comcast, City Traffic) Test Point #5	
D1	377+17.07	12.38' LT	Marksheffel	90589.06	134763.12	530+00.00	D	1.0	6648.46	6647.46			End Duct Bank E HH 15 (CenturyLink, Zayo, Falcon, CSU-FO, Comcast, City Traffic) Test Point #5	
D2	377+30.77	19.03' RT	Marksheffel	90603.35	134794.24	530+34.24	D	1.0	6649.64	6648.64			Exist (2) Zayo FO	PH-84 at crossing 1.25" POLY; TOP=6655.81, BOTTOM=6655.71
D3	377+33.70	25.75' RT	Marksheffel	90606.43	134800.92	530+41.60	D	1.0	6649.90	6648.90			Horizontal Bend	
D4	378+01.96	25.76' RT	Marksheffel	90674.68	134799.57	531+09.87	D	1.0	6652.26	6651.26			Exist CSU-Transmission OH; Sag elev= ?	
D5	378+17.49	25.76' RT	Marksheffel	90690.20	134799.29	531+25.39	D	1.0	6652.80	6651.80			Horizontal Bend	
D6	378+22.73	33.51' RT	Marksheffel	90695.60	134806.93	531+34.75	D	1.0	6653.12	6652.12	6648.58	6645.08	Proposed 42" RCP SD trunkline; elevation at TOP of SD	Barnes Sta. 36+56.31
D7	378+26.98	39.79' RT	Marksheffel	90699.98	134813.14	531+42.48	D	1.0	6653.39	6652.39			Exist Asbestos gas line removal Exist Comcast FO to be removed	
D8	378+33.49	49.40' RT	Marksheffel	90706.67	134822.60	531+53.94	D	1.0	6653.79	6652.79	xxxx.xx		Proposed 6" CSU-G - elevation at BOTTOM of 6" conduit	Lowered to 3.5' depth to go under Traffic Signal conduit. Elevation can be 2" higher.
D9	378+35.76	52.76' RT	Marksheffel	90709.00	134825.91	531+58.00	D	1.0	6653.93	6652.93			Exist CenturyLink FO to be removed	
D10	378+36.08	53.2' RT	Marksheffel	90709.32	134826.36	531+58.53	D	1.0	6653.95	6652.95			Exist 18" CMD-W to be removed	
D11	378+48.26	71.22' RT	Marksheffel	90721.87	134844.13	531+80.29	D	1.0	6654.70	6653.70	6656.36	6655.86	Proposed 3-2" and 2-3" Traffic Signal Conduit (assume 6" bundle)	
D12	378+60.67	89.55' RT	Marksheffel	90734.61	134862.21	532+02.42	D	1.0	6655.46	6654.46			Exist CSU-G HP to be removed	PH-23 10' north 4" POLY; TOP=6663.94, BOTTOM=6663.61
D13	378+74.75	110.35' RT	Marksheffel	90749.12	134882.72	532+27.54	D	1.0	6656.33	6655.33	6653.54	6652.04	Proposed CMD-W crossing Sta. 48+55.01 18"; Elev at TOP of 18" WL	Barnes Sta. 37+30.04
D14	378+81.35	120.09' RT	Marksheffel	90755.91	134892.34	532+39.31	D	1.0	6656.74	6655.74			Horizontal Bend	
D15	378+86.74	120.09' RT	Marksheffel	90761.30	134892.23	532+44.70	D	1.0	6656.92	6655.92			5:1 Down to elevation below SD crossing	
D16	378+90.17	120.09' RT	Marksheffel	90764.72	134892.16	532+48.12	D	1.0	6656.24	6655.24	6657.74	6655.74	Proposed 24" SD lateral; elevation at BOTTOM of SD	Barnes Sta. 37+42.59
D17	378+95.02	120.09' RT	Marksheffel	90769.57	134892.07	532+52.97	D	1.0	6657.85	6656.85			5:1 Up from elevation below SD crossing	
D18	379+13.65	120.08' RT	Marksheffel	90788.19	134891.70	532+71.60	D	1.0	6657.86	6656.86			End Duct Bank D Begin Duct Bank C End Duct Bank G	
C1	379+13.65	120.08' RT	Marksheffel	90788.19	134891.70	520+00.00	C	1.5	6657.85	6655.85			End Duct Bank D End Duct Bank G	
C2	379+20.74	120.08' RT	Marksheffel	90810.42	134891.25	520+22.33	C	1.5	6658.00	6656.00	xxxx.xx		Proposed CSU-G	Over DB - Provide elevations
C3	379+55.96	120.07' RT	Marksheffel	90830.50	134890.88	520+42.31	C	1.5	6658.76	6657.76	xxxx.xx		Existing CSU-W to remain; <b>NEEDS LOWERED</b>	Supposed to be super deep - PH-46 - ex elev pipe=N/A Intended to be left in place. Need to verify clearances.
C4	379+78.83	120.06' RT	Marksheffel	90853.37	134890.39	520+65.18	C	1.5	6654.99	6652.99			Begin Duct Bank B Begin Duct Bank I	

Field verify elevation(s) and clearance(s)  
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Sheet Revisions		
Date:	Comments	Init.





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MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS			
No Revisions:	Designer: JLS	Structure Numbers	Sheet Number
Revised:	Detailer: TAH		
Void:	Sheet Subset: UTIL-TAB	Subset Sheets: 4 of 18	

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									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
B1	379+78.83	120.06' RT	Marksheffel	90853.37	134890.39	510+00.00	B	1.0	6654.99	6652.99			Duct Bank C End Duct Bank J Begin	
B2	379+92.50	110.31' RT	Marksheffel	90866.85	134880.37	510+16.80	B	1.0	6656.38	6654.38	6657.38	6655.71	Waterline Sta. 49+72.76 20" Main trunkline, elev at TOP of waterline	
B3	380+22.11	89.19' RT	Marksheffel	90896.04	134858.70	510+53.16	B	1.0	6660.02	6659.02	xxxx.xx		Existing HP CSU-G line	PH-26 2' from crossing 4"; TOP=6665.62, BOTTOM=6665.28
B4	380+26.49	89.08' RT	Marksheffel	90898.95	134856.51	510+56.80	B	1.0	6660.07	6659.07	xxxx.xx		Ex CSU-G HP Stub	
B5	380+35.14	79.90' RT	Marksheffel	90908.88	134849.13	510+69.50	B	1.0	6665.99	6663.99	xxxx.xx		Proposed CSU-E Bored Line	Under DB - Provide elevations
B6	380+58.71	63.09' RT	Marksheffel	90932.11	134831.87	510+98.11	B	1.0	6661.66	6659.66			Begin Duct Bank A	
I1	379+78.83	120.06' RT	Marksheffel	90853.37	134890.39	630+00.00	I	1.5	6659.24	6657.74			Begin Duct Bank B End Duct Bank C	Marksheffel 379+78.83, 120.06' RT
I2	379+92.81	140.69' RT	Marksheffel	90867.75	134910.75	630+24.64	I	1.5	6659.71	6659.21	6664.40	6663.40	Existing CSU-W to lower in place	PH-60 ~50' north from crossing N/A; TOP= N/A, BOTTOM= N/A
I2a	379+92.81	140.69' RT	Marksheffel	90867.75	134910.75	630+24.64	I	1.5	6659.71	6659.21	6657.21	6656.21	Proposed CSU-W	
I3	380+03.07	155.83' RT	Marksheffel	90878.31	134925.68	630+43.21	I	1.5	6660.06	6659.56			End Duct Bank I HH #21 (Falcon, Comcast, City Traffic, CSU) Test Point #6	Marksheffel 380+03.07, 155.83' RT
A1	380+58.71	63.09' RT	Marksheffel	90932.11	134831.87	+00.00	A	1.0	6660.66	6659.66			Duct Bank B End HH# 18 (Zayo, Falcon, City Traffic, CSU); HH# 18 has Proposed CSU-G crossing Test Point #7	
A2	382+10.85	62.34' RT	Marksheffel	91084.18	134828.12	1+52.14	A	1.0	6663.81	6662.81			Existing CMD-W to be removed	
A3	382+61.81	62.09' RT	Marksheffel	91135.16	134826.86	2+03.11	A	1.0	6664.78	6663.78			5:1 Down to elevation below SD crossing	
A4	382+69.72	62.05' RT	Marksheffel	91143.06	134826.67	2+11.02	A	1.0	6663.18	6662.18	6665.05	6663.55	Proposed 18" SD lateral	
A5	382+79.40	62.00' RT	Marksheffel	91152.74	134826.43	2+20.70	A	1.0	6665.12	6664.12			5:1 Up from elevation below SD crossing	
A6	385+55.00	60.63' RT	Marksheffel	91428.26	134819.64	4+96.29	A	1.0	6673.38	6672.38			HH# 22 (CenturyLink, City Traffic, Comcast)	
A7	385+92.15	60.45' RT	Marksheffel	91465.40	134818.73	5+33.45	A	1.0	6674.85	6673.85			5:1 Down to elevation below SD crossing	
A8	385+99.50	60.41' RT	Marksheffel	91472.74	134818.55	5+40.80	A	1.0	6673.38	6672.38	6674.88	6673.38	Future PKG2 18" Storm Drain Lateral	
A9	386+10.48	60.36' RT	Marksheffel	91483.72	134818.28	5+51.78	A	1.0	6675.58	6674.58			5:1 Up from elevation below SD crossing	
A10	386+50.00	60.15' RT	Marksheffel	91523.25	134817.30	5+91.31	A	1.0	6677.19	6676.19			Test Point #10	
A11	388+13.00	59.35' RT	Marksheffel	91686.19	134813.29	7+54.30	A	1.0	6684.17	6683.17			HH# 23 (CSU)	
A12	388+89.49	58.98' RT	Marksheffel	91762.78	134811.40	8+30.91	A	1.0	6687.46	6686.46			5:1 Down to elevation below SD crossing	
A13	388+93.08	58.96' RT	Marksheffel	91766.25	134811.32	8+34.39	A	1.0	6686.74	6685.74			Existing CMD-W Slight Skew to be removed	
A14	388+93.19	58.96' RT	Marksheffel	91766.35	134811.31	8+34.50	A	1.0	6686.75	6685.75	6688.25	6686.75	Future PKG2 18" Storm Drain Lateral	
A15	388+98.70	58.93' RT	Marksheffel	91771.88	134811.18	8+40.01	A	1.0	6687.86	6686.86			5:1 Up from elevation below SD crossing	
A16	389+06.20	58.89' RT	Marksheffel	91779.36	134810.99	8+47.51	A	1.0					Horizontal Bend	
A17	391+05.14	63.09' RT	Marksheffel	91978.34	134811.28	10+46.49	A	1.0					Horizontal Bend	
A18	391+43.82	74.05' RT	Marksheffel	92017.22	134821.47	10+86.69	A	1.0	6697.01	6696.01			Exist Asbestos gas line removal	
A19	391+57.72	77.99' RT	Marksheffel	92031.19	134825.13	11+01.14	A	1.0	6697.43	6696.43	xxxx.xx		Proposed CSU-E Bored Line	Under DB - Provide DB elevations to CSU-E
A20	391+72.19	82.09' RT	Marksheffel	92045.75	134828.95	11+16.18	A	1.0	6697.90	6696.90	xxxx.xx		Proposed CSU-E Bored Line	Under DB - Provide DB elevations to CSU-E
A21	391+84.92	85.69' RT	Marksheffel	92058.55	134832.30	11+29.41	A	1.0	6698.31	6697.31			Existing CSU-E	
A22	392+09.07	92.53' RT	Marksheffel	92082.83	134838.67	11+54.51	A	1.0					Horizontal Bend	

Field verify elevation(s) and clearance(s)  
xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

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Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.





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No Revisions:	MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS	
Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subset: UTIL-TAB
	Sheet Subsets: 5 of 18	Sheet Number

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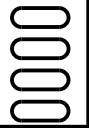


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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	DUCT BANK STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	DUCT BANK		OTHER CROSSING UTILITY		APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
A23	392+46.21	92.52' RT	Marksheffel	92119.97	134837.93	11+91.65	A	1.0					Proposed CSU HP-G	
A24	392+46.22	92.53' RT	Marksheffel	92122.03	134837.89	11+93.72	A	1.0	6699.69	6698.69			Existing Telephone - Zayo	
A25	392+49.50	92.53' RT	Marksheffel	92123.25	134837.87	11+94.94	A	1.0	6699.83	6698.83			Existing FO - Zayo	
A26	392+53.12	92.52' RT	Marksheffel	92126.33	134837.79	11+98.56	A	1.0	6699.95	6698.95			Existing TV - ?? Existing FO - Zayo Existing Telephone - Zayo	
A27	392+55.31	92.52' RT	Marksheffel			12+00.75	A	1.0	6699.87	6698.87			Existing FO - MCI	
A28	392+63.93	92.52' RT	Marksheffel	92136.80	134837.60	12+08.49	A	1.0	6698.84	6697.84			End of Duct Bank A HH# 23 (Zayo, CSU-FO, CenturyLink, Comcast, City Traffic) Test Point #11	
<b>MARKSHEFFEL STA. 379+13.65</b>														
G1	31+34.04	54.00' RT	Barnes	90746.02	134283.84	600+00.00	G	1.5	6653.82	6652.32			Begin Duct Bank H End HH# 16 (CSU-FO, Zayo, Falcon, CenturyLink, Comcast) Test Point #8	Marksheffel Sta. 379+13.65
G2	31+36.61	53.24' RT	Barnes	90746.83	134286.38	600+02.68	G	1.5	6653.81	6652.31	6648.06	6648.06	Exist SD lateral to wetlands to remain	Intended to be left in place. Need to verify clearances. Used elevation from north MH - south MH unable to open to verify invert
G3	31+53.33	48.18' RT	Barnes	90752.15	134303.06	600+20.14	G	1.5	6653.75	6652.25			Exist Comcast TV to be removed	Need to confirm existing elevations.
G4	31+73.57	42.07' RT	Barnes	90758.60	134323.17	600+41.53	G	1.5	6653.68	6652.18			Exist CMD-W to be removed	PH-27A
G5a	31+98.06	34.67' RT	Barnes	90766.39	134347.53	600+66.87	G	1.5	6653.59	6652.09			Vertical bend up over 12" CMD-W	Transition from 1.5' diameter to 12"Hx2'W sprawl over 12" CMD-W
G5	32+12.42	30.34' RT	Barnes	90770.95	134361.82	600+81.87	G	12"x2' SPRAWL	6654.29	6653.29	6652.29	6651.29	Proposed 12" CMD-W Sta. 48+93.90 - Barnes trunkline	Barnes 12" CMD-W Sta. 1+35.11
G6	32+21.53	27.58' RT	Barnes	90773.86	134370.88	600+91.39	G	1.5	6653.72	6652.72	6641.96	6635.96	Exist 8'w x 6'H SD to remain	Existing invert elevations calculated from topo inverts
G6a	32+26.78	26.00' RT	Barnes	90775.53	134376.11	600+96.87	G	1.5	6653.42	6651.92			Vertical bend back to grade from over 12" CMD-W	Transition from 12"Hx2'W sprawl over 12" CMD-W to 1.5' diameter
G7	32+34.72	23.50' RT	Barnes	90778.16	134384.34	601+05.52	G	1.5	6653.35	6651.85			Horizontal Bend	
G8a	33+86.38	22.97' RT	Barnes	90781.15	134535.64	602+56.84	G	1.5	6652.12	6650.62			Vertical bend up over SD	
G8	33+94.35	22.95' RT	Barnes	90781.31	134543.60	602+64.81	G	1.5	6650.53	6649.03	6653.53	6651.62	18" RCP SD lateral	
G8b	34+02.44	22.92' RT	Barnes	90781.47	134551.69	602+72.90	G	1.5	6652.15	6650.65			Vertical bend back to grade from over SD	
G9	34+59.66	22.70' RT	Barnes	90782.62	134608.90	603+30.12	G	1.5	6652.71	6651.21			End HH# 19 (CenturyLink Vault)	
G10	34+94.24	22.60' RT	Barnes	90783.25	134643.48	603+64.71	G	1.5	6653.05	6651.55	6661.10	6660.94	Exist 2" Zayo FO	PH-28 ~8' south from crossing
G11	34+98.82	22.61' RT	Barnes	90783.38	134648.07	603+69.29	G	1.5	6653.10	6651.60	6661.63	6661.53	Exist 1 1/4" Zayo FO	PH-29 ~8' south from crossing
G12	35+03.60	22.57' RT	Barnes	90783.48	134652.83	603+74.06	G	1.5	6653.14	6651.64	6659.60	6659.10	Exist 6" MVEA E	PH-30 ~8' south from crossing
G13	35+05.98	22.55' RT	Barnes	90783.52	134655.21	603+76.44	G	1.5	6653.17	6651.67	6660.29	6660.12	Exist 2" Zayo Tele	PH-31 ~8' south from crossing
G14	35+06.78	22.53' RT	Barnes	90783.51	134656.01	603+77.24	G	1.5	6653.18	6651.68	N/A	N/A	Exist (N/A dia) QWEST Tele	PH-32 ~7' south from crossing
G15	35+17.81	22.51' RT	Barnes	90783.73	134667.04	603+88.26	G	1.5	6653.28	6651.78	N/A	N/A	Exist (N/A dia) Comcast FO	PH-33 ~7' south from crossing
G16	35+18.51	22.50' RT	Barnes	90783.77	134667.74	603+88.97	G	1.5	6653.28	6651.78			Exist xxxxx FO	Need to confirm existing elevations.
G17	35+24.98	22.49' RT	Barnes	90783.89	134674.21	603+95.44	G	1.5	6653.36	6651.86	xxxx.xx		Proposed 6" CSU-HP G	Marksheffel Sta. 379+13.62 Will be very deep. Provide elevations to CSU-HP G
G18	35+25.09	22.49' RT	Barnes	90783.90	134674.32	603+95.56	G	1.5	6653.36	6651.86	N/A	N/A	Exist (N/A dia) MVEA E	PH-34 ~7' south from crossing
G19	35+40.87	22.44' RT	Barnes	90784.21	134690.10	604+11.34	G	1.5	6653.34	6651.84	6658.53	6657.70	Exist 10"x6" CSU-W Lateral to FH	PH-35 ~18' south from crossing

  Field verify elevation(s) and clearance(s)  
xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

Print Date: 1/5/2024  
 File Name: P1-18300UTIL\_EX\_Tabs\_06.dgn  
 Horiz. Scale: 1:100      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444



Sheet Revisions		
Date:	Comments	Init.



No Revisions:		<b>MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS</b>				
Revised:					Designer: JLS	Structure Numbers
Void:					Detailer: TAH	
					Sheet Subset: UTIL-TAB	Subset Sheets: 6 of 18
Sheet Number						

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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	DUCT BANK STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	DUCT BANK		OTHER CROSSING UTILITY		APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION		
G20	35+49.06	22.41' RT	Barnes	90784.37	134698.29	604+19.53	G	1.5	6653.81	6652.31	6656.76	6656.26	Proposed 2-2" and 2-3" Traffic Signal Conduit	Top at 24" depth to accommodate CSU-G cross under; assumed Signal Bundle = 6" diameter
G21	35+49.64	22.41' RT	Barnes	90784.36	134698.87	604+20.11	G	1.5	6653.81	6652.31	6665.44	6665.44	Exist 2"x2 Falcon FO	PH-36 ~7' south from crossing
G22	35+52.31	22.39' RT	Barnes	90784.11	134701.54	604+22.78	G	1.5	6653.88	6652.38	6665.42	6665.42	Exist 6" x 4 CSU-E	PH-37 ~8' south from crossing
G23	36+27.57	22.13' RT	Barnes	90785.91	134776.78	604+98.04	G	1.5	6655.45	6653.95	N/A	N/A	Exist (N/A dia) Zayo FO	PH-43 at crossing
G24	36+29.22	22.11' RT	Barnes	90785.95	134778.44	604+99.70	G	1.5	6655.49	6653.99	N/A	N/A	Exist (N/A dia) Zayo FO	PH-42 ~3' south from crossing
G25	36+33.45	22.12' RT	Barnes	90786.01	134782.66	605+03.91	G	1.5	6655.57	6654.07			Exist CSU-Transmission OHE - sag on OH line	
G26	36+55.95	22.03' RT	Barnes	90786.48	134805.15	605+26.41	G	1.5	6656.04	6654.54	6651.45	6647.20	42" RCP SD trunkline	Marksheffel Sta. 379+13.60
G27	36+62.96	22.05' RT	Barnes	90786.62	134812.17	605+33.43	G	1.5					Exist Asbestos gas line removal	Marksheffel Sta. 379+13.64
G28	36+72.58	21.97' RT	Barnes	90786.81	134821.78	605+43.05	G	1.5	6656.39	6654.89	6658.23	6657.73	Proposed 6" CSU-G - elevation at BOTTOM of 6" conduit	Marksheffel Sta. 379+13.49
G29	36+74.31	21.96' RT	Barnes	90786.84	134823.51	605+44.78	G	1.5	6656.43	6654.93	6664.65	6662.99	Exist 20" CMD-W	PH-44 ~13' south from crossing
G30	36+89.62	21.92' RT	Barnes	90787.15	134838.82	605+60.08	G	1.5	6656.75	6655.25	6651.91	6651.41	Proposed 3-2" and 2-3" Traffic Signal Conduit	Top at 24" depth to accommodate CSU-G cross under; assumed Signal Bundle = 6" diameter
G31	37+16.30	21.82' RT	Barnes	90787.70	134865.49	605+86.75	G	1.5	6657.31	6655.81			Existing CSU-G to be removed	
G32	37+20.08	21.81' RT	Barnes	90787.75	134869.27	605+90.54	G	1.5	6657.39	6655.89			End HH# 20 (CenturyLink Vault)	
G33	37+32.75	21.76' RT	Barnes	90788.00	134881.95	606+03.22	G	1.5	6657.35	6655.85	6653.82	6652.32	Proposed 20" CMD-W; WL Sta 48+93.90	Marksheffel Sta. 379+13.62
G34	37+42.51	21.73' RT	Barnes	90788.19	134891.70	606+12.97	G	1.5	6657.85	6656.35			End Duct Bank G Begin Duct Bank C End Duct Bank D	Marksheffel Sta. 379+13.62
H1	31+34.04	54.00' RT	Barnes	90746.02	134283.40	610+00.00	H	1.0	6650.38	6649.38			Begin Duct Bank G End HH# 16 (CSU-FO, Zayo, Falcon, CenturyLink, Comcast) Test Point #8	
H2a	31+34.04	50.26' RT	Barnes	90749.76	134283.79	610+03.75	H	1.0	6650.38	6649.38			Existing TV to remain	
H2	31+34.04	46.96' RT	Barnes	90753.06	134283.72	610+07.05	H	1.0	6650.38	6649.38	xxxx.xx		Existing SAS to remain	Intended to be left in place. Need to verify clearances.
H3	31+34.04	42.21' RT	Barnes	90757.80	134283.61	610+11.79	H	1.0	6650.38	6649.38	xxxx.xx		Existing Water to remove	
H4	31+34.04	30.61' RT	Barnes	90769.41	134283.46	610+23.40	H	1.0	6650.39	6649.39	6651.57		12" WL crossing - Barnes trunkline Sta. 0+56.98, elev is bottom of WL	0+94.09
H5	31+34.04	19.65' RT	Barnes	90780.36	134283.28	610+34.35	H	1.0	6650.81	6649.81	xxxx.xx		Existing CSU-G - MS project to include in removals	
H6	31+34.04	10.91' RT	Barnes	90789.10	134283.14	610+43.09	H	1.0	6651.16	6650.16	xxxx.xx		Proposed CSU-G	
H7	31+34.04	9.24' LT	Barnes	90809.25	134282.81	610+63.24	H	1.0	6651.96	6650.96	xxxx.xx		Proposed CSU-E	
H8	31+34.04	9.24' LT	Barnes	90809.25	134282.81	610+63.24	H	1.0	6651.96	6650.96	xxxx.xx		Existing CSU-E to relocate lower	For Median Lighting - will be shallow
H9	31+34.04	20.10' LT	Barnes	90820.11	134282.63	610+74.10	H	1.0	6652.40	6651.40	xxxx.xx		Existing CSU-W WB Barnes to remain	0+43.38 Intended to be left in place. Need to verify clearances.
H10	31+34.04	63.50' LT	Barnes	90863.50	134281.92	611+17.50	H	1.0	6654.12	6653.12			End Duct Bank H End HH# 17 (CSU-FO, Zayo, Falcon, CenturyLink) Test Point #9	
H10a	31+29.06 - 31+38.88	63.97' LT - 64.73' LT	Barnes	90863.89 - 90864.81	134276.94 - 134286.75	611+18.38	H	1.0	6654.12	6653.12	xxxx.xx		Existing CSU-E to remain. 0.46'-0.88' horizontal offset	Barnes station range given for 5' horizontal clearance offset.

Field verify elevation(s) and clearance(s)  
xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

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Print Date: 1/5/2024	Sheet Revisions				MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS			
File Name: PI-18300UTIL_EX_Tabs_07.dgn	Date:	Comments	Init.		No Revisions:	Designer: JLS	Structure Numbers:	Sheet Number
Horiz. Scale: 1:100      Vert. Scale:					Revised:	Detailer: TAH		
Unit Information      Unit Leader					Void:	Sheet Subset: UTIL-TAB	Subset Sheets: 7 of 18	
Project No./Code    PPRTA    10444								



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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	HANDHOLE LATERAL STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	HANDHOLE LATERAL		OTHER CROSSING UTILITY		PROPOSED GROUND ELEVATION	EXISTING GROUND ELEVATION	APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION				
HH1-1	331+00.00	68.00' RT	Marksheffel	85974.06	134889.04	+00.00	F-HH1	0.5	6572.19	6571.69			6677.19	6677.19	Begin HH #1 (Comcast, City Traffic, CSU-FO)	
HH1-2	331+00.00	73.18' RT	Marksheffel	85974.13	134894.20	+05.17	F-HH1	0.5	6572.24	6571.74	6574.40	6574.07	6677.40	6677.40	Existing FO	Shown in profile at 3' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH1-3	331+00.00	80.50' RT	Marksheffel	85974.23	134901.53	+12.50	F-HH1	0.5	6572.31	6571.81			6676.76	6676.76	End HH #1 (Comcast, City Traffic, CSU-FO) Connect to Beginning of Duct Bank F STA 560+00.00	
HH2-1	335+80.00	68.00' RT	Marksheffel	86454.02	134882.51	+00.00	F-HH2	0.5	6581.13	6580.63			6585.95	6577.27	Begin HH# 2 (CSU-FO)	
HH2-2	335+80.00	74.10' RT	Marksheffel	86454.10	134888.61	+06.10	F-HH2	0.5	6581.13	6580.63	6573.69	6573.36	6586.07	6576.69	Existing FO	Shown in profile at 3' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH2-3	335+80.00	80.50' RT	Marksheffel	86454.19	134895.01	+12.50	F-HH2	0.5	6581.13	6580.63			6586.20	6576.25	End HH# 2 (CSU-FO) Connect to Duct Bank F STA 564+80.00	
HH3-1	339+50.00	68.00' RT	Marksheffel	86823.99	134877.48	+00.00	F-HH3	0.5	6579.52	6579.02			6584.30	6572.21	Begin HH# 3 (Comcast)	
HH3-2	339+50.00	76.40' RT	Marksheffel	86824.10	134885.88	+08.40	F-HH3	0.5	6579.52	6579.02	6568.95	6568.62	6584.47	6571.95	Existing FO	Shown in profile at 3' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH3-3	339+50.00	80.51' RT	Marksheffel	86824.16	134889.98	+12.51	F-HH3	0.5	6579.52	6579.02			6584.55	6571.82	End HH# 3 (Comcast) Connect to Duct Bank F STA 568+49.95	
HH4-1	340+60.00	68.00' RT	Marksheffel	86933.10	134876.22	+00.00	F-HH4	0.5	6578.98	6578.48			6583.75	6571.95	Begin HH# 4 (CSU-FO, City Traffic)	
HH4-2	340+60.00	75.83' RT	Marksheffel	86933.15	134884.04	+07.83	F-HH4	0.5	6578.98	6578.48	6568.54	6568.21	6583.91	6571.54	Existing FO	Shown in profile at 3' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH4-3	340+60.00	80.51' RT	Marksheffel	86933.18	134888.72	+12.51	F-HH4	0.5	6578.98	6578.48			6584.00	6571.30	End HH# 4 (CSU-FO, City Traffic) Connect to Duct Bank F STA 569+59.03	
HH5-1	345+00.00	68.00' RT	Marksheffel	87370.31	134884.59	+00.00	F-HH5	0.5	6578.36	6577.86			6583.38	6578.07	Begin HH# 5 (CSU-FO)	
HH5-2	345+00.00	80.50' RT	Marksheffel	87369.83	134897.08	+12.50	F-HH5	0.5	6578.36	6577.86			6583.36	6578.85	End HH# 5 (CSU-FO) Connect to Duct Bank F STA 573+95.80	
HH6-1	348+00.00	68.00' RT	Marksheffel	87671.43	134894.74	+00.00	F-HH6	0.5	6589.93	6589.43			6594.67	6594.92	Begin HH# 6 (CSU-FO, Comcast, City Traffic)	
HH6-2	348+00.00	80.45' RT	Marksheffel	87671.18	134907.18	+12.45	F-HH6	0.5	6589.93	6589.43			6594.92	6594.74	End HH# 6 (CSU-FO, Comcast, City Traffic) Connect to Duct Bank F STA 576+97.33	
HH7-1	349+40.00	21.00' RT	Marksheffel	87812.70	134849.26	+00.00	F-HH7	0.5	6595.58	6595.08			6600.07	6601.03	Begin HH# 7 (CSU-FO)	
HH7-2	349+40.00	23.77' RT	Marksheffel	87812.69	134852.02	+02.77	F-HH7	0.5	6595.58	6595.08			6600.53	6601.10	End HH# 7 (CSU-FO) Connect to Duct Bank F STA 578+60.81	
HH8-1	353+56.00	85.87' RT	Marksheffel	88230.37	134907.81	+00.00	J-HH8	0.5	6613.65	6613.15			6616.88	6616.44	Begin HH# 8 (CSU-FO) End Duct Bank J	

Field verify elevation(s) and clearance(s)  
 xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

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Print Date: 1/5/2024	0000	Sheet Revisions				MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS		
File Name: PI-18300UTIL_EX_Tabs_08.dgn		Date:	Comments	Init.		No Revisions:		
Horiz. Scale: 1:100      Vert. Scale:						Revised:	Designer: JLS	Structure Numbers
Unit Information      Unit Leader						Void:	Detailer: TAH	
Project No./Code    PPRTA    10444					Sheet Subset: UTIL-TAB	Subset Sheets: 8 of 18	Sheet Number	



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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	HANDHOLE LATERAL STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	HANDHOLE LATERAL		OTHER CROSSING UTILITY		PROPOSED GROUND ELEVATION	EXISTING GROUND ELEVATION	APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION				
HH8-2	353+56.00 to 353+55.91	85.87' RT to 93.34' RT	Marksheffel	88230.37 - 88230.44	134907.81 to 134911.81	+00.00 to +04.00	J-HH8	0.5	6613.65	6613.15	6611.87	6611.54			Existing CSU-E	PH-15 5' toward West: 4" dia, ; 4.58' depth Full length horizontal clearance not achieved
HH8-3	353+55.95	90.00' RT	Marksheffel	88230.43	134911.19	+03.38	J-HH8	0.5	6613.65	6613.15	6606.49	6604.98	6617.22	6616.66	Proposed CMD-W - PKG 0 Sta. 23+27.83	
HH8-4	353+55.91	93.34' RT	Marksheffel	88230.44	134911.81	+04.00	J-HH8	0.5	6613.65	6613.15			6617.28	6616.71	End HH# 8 (CSU-FO)	
HH9-1	354+00.00	19.34' RT	Marksheffel	88273.07	134840.42	+00.00	FJ-HH9	0.5	6610.02	6609.52			6615.11	6614.45	Begin HH# 9 (CSU-FO, City Traffic)	
HH9-2	354+00.00	19.70' RT	Marksheffel	88273.07	134840.78	+00.34	FJ-HH9	0.5	6610.02	6609.52	6611.49	6611.16	6615.14	6614.49	Existing FO	Shown in profile at 3' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH9-3	354+00.00	23.34' RT	Marksheffel	88273.13	134844.42	+04.00	FJ-HH9	0.5	6610.02	6609.52			6615.46	6614.82	End HH# 9 (CSU-FO, City Traffic) Connect to Duct Bank F STA 583+27.81	
HH10-1	356+10.00	19.97' RT	Marksheffel	88483.03	134836.92	+00.00	F-HH10	0.5	6611.30	6610.80			6616.07	6611.10	Begin HH# 10 (Comcast, City Traffic)	
HH10-2	356+10.00	23.97' RT	Marksheffel	88483.11	134840.92	+04.00	F-HH10	0.5	6611.30	6610.80			6616.49	6611.62	End HH# 10 (Comcast, City Traffic) Connect to Duct Bank F STA 585+37.82	
HH11-1	358+40.00	23.00' RT	Marksheffel	88713.04	134835.43	+00.00	F-HH11	0.5	6609.48	6608.98			6614.48	6604.78	Begin HH# 11 (CSU-FO)	
HH11-2	358+40.00	23.40' RT	Marksheffel	88713.06	134836.19	+00.70	F-HH11	0.5	6609.49	6608.99	6601.85	6601.52	6614.50	6604.85	Existing FO	Shown in profile at 3' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH11-3	358+40.00	35.02' RT	Marksheffel	88713.28	134847.44	+12.02	F-HH11	0.5	6609.61	6609.11	6600.98	6599.48	6614.34	6605.98	Existing 18" CMD-W to be removed	Shown in profile at 5' deep from existing ground, but need to verify elevations and clearance; to be removed.
HH11-4	358+40.00	36.61' RT	Marksheffel	88713.31	134849.04	+13.61	F-HH11	0.5	6609.62'	6609.12	6606.51	6600.51	6614.37	6606.14	Proposed 60" RCP SD Trunkline	
HH11-5	358+40.00	48.44' RT	Marksheffel	88713.54	134860.86	+25.44	F-HH11	0.5	6609.75	6609.25			6614.61	6607.31	End HH# 11 (CSU-FO) Connect to Duct Bank F STA 587+69.30	
HH12-1	364+50.00	21.50' RT	Marksheffel	89322.87	134821.93	+00.00	EF-HH12	6"x2' SPRAWL	6616.71	6616.21			6621.11	6614.88	Begin HH# 12 (CSU-FO) W-E	
HH12-2	364+50.00	28.22' RT	Marksheffel	89323.01	134828.65	+06.00 TO +08.39	EF-HH12	6"x2' SPRAWL	6616.71	6616.21	6612.75	6611.45	6621.28	6613.25	Existing culvert end section	Topo Notes: Depth 0.5 ft - 1 ft
	364+50.00	28.14' RT	Marksheffel				EF-HH12	6"x2' SPRAWL							Existing Asbestos Gas to be removed	
HH12-3	364+50.00	35.06' RT	Marksheffel	89323.14	134835.48	+13.56	EF-HH12	6"x2' SPRAWL	6616.71	6616.21	6612.87	6612.77	6621.38	6616.55	Existing 1.25" Zayo FO to be removed	PH-83 on same line, 350' north, 3.58' depth assume consistent for other crossings
HH12-4	364+50.00	36.77' RT	Marksheffel	89323.17	134837.19	+15.27	EF-HH12	6"x2' SPRAWL	6616.71	6616.21	6614.71	6609.75	6621.41	6617.36	Proposed 54" SD Crossing	
HH12-5	364+50.00	40.83' RT	Marksheffel	89323.24	134841.26	+19.33	EF-HH12	6"x2' SPRAWL	6615.62	6615.12	6612.85	6611.35	6621.50	6617.85	Existing 18" CMD-W to be removed	Assume 5' below existing ground - no pothole data available
HH12-6	364+50.00	48.86' RT	Marksheffel	89323.41	134849.29	+27.36	EF-HH12	6"x2' SPRAWL	6613.59	6613.09			6621.66	6619.06	End HH# 12 (CSU-FO) W-E Begin Duct Bank E End Duct Bank F	
HH13-1	367+00.00	21.50' RT	Marksheffel	89572.85	134817.01	+00.00	E-HH13	1.0	6621.31	6620.31			6628.01	6626.08	Begin HH# 13 (Zayo, CenturyLink, CSU-FO, Comcast)	5' outside inlet

Field verify elevation(s) and clearance(s)  
 xxxxx.xx Provide Duct Bank elevations to other utilities for future crossings

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Print Date: 1/5/2024	0000	Sheet Revisions			  	MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS		
File Name: PI-18300UTIL_EX_Tabs_09.dgn		Date:	Comments	Init.		No Revisions:	Designer: JLS	Structure Numbers
Horiz. Scale: 1:100      Vert. Scale:						Revised:	Detailer: TAH	
Unit Information      Unit Leader						Void:	Sheet Subset: UTIL-TAB	Subset Sheets: 9 of 18
Project No./Code    PPRTA    10444						Sheet Number		



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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	HANDHOLE LATERAL STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	HANDHOLE LATERAL		OTHER CROSSING UTILITY		PROPOSED GROUND ELEVATION	EXISTING GROUND ELEVATION	APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION				
HH13-2	367+00.00	30.26' RT	Marksheffel				E-HH13	1.0							Existing Asbestos Gas to be removed	
HH13-3	367+00.00	31.26' RT	Marksheffel	89573.04	134826.77	+09.76	E-HH13	1.0	6621.31	6620.31	6622.42	6622.32	6627.81	6626.00	Existing 1.25" Zayo FO to be removed	PH-83 on same line, 103' north, 3.58' depth - assume consistent for other crossings
HH13-4	367+00.00	36.51' RT	Marksheffel	89573.15	134832.02	+15.01	E-HH13	1.0	6621.86	6620.86	6618.43	6613.01	6627.71	6625.95	Proposed 54" SD Crossing	
HH13-5	367+00.00	42.83' RT	Marksheffel	89573.27	134838.34	+21.33	E-HH13	1.0	6622.81	6621.81	6620.79	6619.29	6627.58	6625.79	Existing 18" CMD-W to be removed	Assume 5' below existing ground - no pothole data available
HH13-6	367+00.00	49.04' RT	Marksheffel	89573.39	134844.54	+27.54	E-HH13	1.0	6622.81	6621.81			6627.46	6624.70	End HH# 13 (Zayo, CenturyLink, CSU-FO, Comcast)	
HH14-1	377+01.21	3.36' RT	Marksheffel	89973.63	134790.98	+00.00	E-HH14	1.0	6626.39	6625.39			6630.94	6628.80	Begin HH# 14 (CenturyLink, Zayo, Falcon, CSU-FO, Comcast, City Traffic)	
HH14-2	377+01.63	14.94' RT	Marksheffel	89974.27	134802.55	+11.59	E-HH14	1.0	6626.39	6625.39			6630.79	6630.02	End HH# 14 (CenturyLink, Zayo, Falcon, CSU-FO, Comcast, City Traffic)	
HH15-1	377+17.07	12.38' LT	Marksheffel	90589.00	134760.11	+00.00	ED-HH15	1.0	6653.82	6652.82			6653.86	6654.35	Begin HH# 15 (CenturyLink, Zayo, Falcon, CSU-FO, Comcast, City Traffic)	
HH15-2	377+17.07	15.39' LT	Marksheffel	90589.06	134763.12	+03.01	ED-HH15	1.0	6648.46	6647.46			6653.82	6654.30	End HH# 15 (CenturyLink, Zayo, Falcon, CSU-FO, Comcast, City Traffic) Begin Duct Bank D End Duct Bank E	
HH21-1	380+03.07	155.83' RT	Marksheffel	90878.31	134925.67	630+50.00	I-HH21	1.5	6660.06	6658.56			6668.48	6668.48	Begin HH #21 (Falcon, Comcast, City Traffic, CSU)	Marksheffel 379+78.83, 120.06' RT
HH21-2	380+01.43	162.87' RT	Marksheffel	90876.81	134932.75	630+57.24	I-HH21	1.5	6665.95	6664.45			6668.71	6668.71	End HH #21 (Falcon, Comcast, City Traffic, CSU)	Marksheffel 380+03.07, 155.83' RT
HH18-1	380+58.72	21.00' LT	Marksheffel	90931.29	134789.78	+00.00	AB-HH18	1.0	6660.23	6659.23			6665.23	6674.15	Begin HH# 18 (Zayo, Falcon, City Traffic, CSU)	
HH18-2	380+58.72	33.50' RT	Marksheffel	90931.54	134802.28	+12.50	AB-HH18	2'W x 6" H SPRAWL	6660.71	6660.21	6658.71	6654.46	6665.07	6675.13	SD Trunk 42" RCP; Elev at TOP of SD Vertical Bend	
HH18-3	380+58.72	42.04' RT	Marksheffel	90931.71	134810.82	0+21.04	AB-HH18	2'W x 6" H SPRAWL							Existing asbestos gas line	
HH18-4	380+58.72	46.07' RT	Marksheffel	90931.79	134814.85	0+25.07	AB-HH18	2'W x 6" H SPRAWL						6676.49	Proposed 6" CSU-G line	
HH18-5	380+58.71	63.09' RT	Marksheffel	90932.12	134831.87	+42.09	AB-HH18	1.0	6660.66	6659.66			6665.66	6676.11	End HH# 18 (Zayo, Falcon, City Traffic, CSU) Begin Duct Bank A End Duct Bank B	
HH22-1	385+55.00	21.00' RT	Marksheffel	91427.48	134780.02	+00.00	A-HH22	1.0	6674.24	6673.24			6679.79	6678.07	Begin HH# 22 (CenturyLink, City Traffic, Comcast)	
HH22-2	385+55.00	25.74' RT	Marksheffel	91427.57	134784.75	+04.74	A-HH22	1.0	6674.14	6673.14			6679.63	6678.61	5:1 Vertical Bend Down	
HH22-3	385+55.00	29.35' RT	Marksheffel	91427.62	134788.37	+08.35	A-HH23	1.0	6670.53	6669.53			6679.04	6679.02	0% slope	

Field verify elevation(s) and clearance(s)  
 xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

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File Name: PI-18300UTIL_EX_Tabs_10.dgn		Date:	Comments	Init.				Revised:	Designer: JLS	Structure Numbers	Sheet Number		
Horiz. Scale: 1:100      Vert. Scale:								Detailed: TAH					
Unit Information      Unit Leader								Void:	Sheet Subset: UTIL-TAB	Subset Sheets: 10 of 18			
Project No./Code    PPRTA    10444													



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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	HANDHOLE LATERAL STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	HANDHOLE LATERAL		OTHER CROSSING UTILITY		PROPOSED GROUND ELEVATION	EXISTING GROUND ELEVATION	APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION				
HH22-4	385+55.00	33.81' RT	Marksheffel	91427.73	134792.82	+12.59	A-HH24	1.0	6670.53	6669.53	6676.28	6672.03	6678.96	6679.50	SD Trunk 42" RCP; Elev at INV of SD; 0% slope	
HH22-5	385+55.00	37.83' RT	Marksheffel	91427.81	134796.84	+16.83	A-HH25	1.0	6670.53	6669.53			6678.88	6679.99	5:1 Vertical Bend Up	
HH22-6	385+55.00	41.55' RT	Marksheffel	91427.88	134800.56	+20.55	A-HH26	1.0	6673.81	6672.81			6678.80	6680.41	-2.06% slope	
HH22-7	385+55.00	56.58' RT	Marksheffel	91428.18	134815.59	+35.58	A-HH26	1.0	6672.23	6671.23	N/A	N/A	6678.50	6682.12	Existing 20" CMD-W to be removed	
HH22-8	382+69.72	62.05' RT	Marksheffel	91428.26	134819.64	+39.63	A-HH22	1.0	6673.42	6672.42			6678.42	6682.59	End HH# 22 (CenturyLink, City Traffic, Comcast)	
HH23-1	388+13.00	21.49' RT	Marksheffel	91685.43	134775.43	+00.00	A-HH23	1.0	6684.69	6683.69			6689.69	6690.18	Begin HH# 23 (Zayo, CSU-FO, CenturyLink, Comcast, City Traffic)	
HH23-2	388+13.00	23.69' RT	Marksheffel	91685.48	134777.63	+02.20	A-HH23	1.0	6684.72	6683.72	N/A	N/A	6689.72	6690.24	Existing (2) CSU-E lines	
HH23-3	388+13.00	28.99' RT	Marksheffel	91685.54	134782.93	+07.50	A-HH23	1.0	6684.58	6683.58			6689.78	6690.45	5:1 Vertical Bend Down	
HH23-4	388+13.00	32.07' RT	Marksheffel	91685.64	134786.01	+10.58	A-HH23	1.0	6681.51	6680.51			6689.72	6690.56	0% slope	
HH23-5	388+13.00	36.31' RT	Marksheffel	91685.73	134790.25	+14.82	A-HH23	1.0	6681.51	6680.51	6687.26	6683.01	6689.64	6690.71	SD Trunk 42" RCP; Elev at INV of SD; 0% slope	
HH23-6	388+13.00	40.55' RT	Marksheffel	91685.81	134794.49	+19.06	A-HH23	1.0	6681.51	6680.51			6689.55	6690.86	5:1 Vertical Bend Up	
HH23-7	388+13.00	43.80' RT	Marksheffel	91685.87	134797.74	+22.31	A-HH23	1.0	6684.38	6683.38			6689.48	6690.97	-1.37% slope	
HH23-8	388+13.00	58.04' RT	Marksheffel	91686.15	134811.97	+36.52	A-HH23	1.0	6684.44	6683.44	N/A	N/A	6689.20	6691.47	Existing 20" CMD-W to be removed	
HH23-9	385+55.00	60.63' RT	Marksheffel	91686.18	134813.29	+37.86	A-HH23	1.0	6684.17	6683.17			6689.17	6691.52	End HH# 23 (Zayo, CSU-FO, CenturyLink, Comcast, City Traffic)	
HH16-1a	31+24.66 - 31+36.87	51.52' RT - 49.88' RT	Barnes	90748.35 - 90750.19	134274.41 - 134286.59	-0+04.02 - 0+06.79	GH-HH16	1.5							Existing TV to remain X.XX'-X.XX' horizontal offset full length deficient horizontal offset	Barnes station range given for 5' horizontal clearance offset.
HH16-1b	31+24.92 - 31+38.24	56.76' RT - 56.72' RT	Barnes	90743.11 - 90743.37	134274.77 - 134288.08	-0+04.12 - 0+09.22	GH-HH16	1.5							Existing FO to remain X.XX'-X.XX' horizontal offset full length deficient horizontal offset	Barnes station range given for 5' horizontal clearance offset.
HH16-1	31+29.04	53.92' RT	Barnes	90746.01	134278.84	+00.00	GH-HH16	1.5	6653.82	6652.32			6659.45	6659.52	Begin HH# 16 (CSU-FO, Zayo, Falcon, CenturyLink, Comcast)	Marksheffel Sta. 379+13.65
HH16-2	31+34.04	54.00' RT	Barnes	90746.02	134283.84	+05.00	GH-HH16	1.5	6653.82	6652.32			6659.40	6659.49	End HH# 16 (CSU-FO, Zayo, Falcon, CenturyLink, Comcast) Begin Duct Bank G Begin Duct Bank H	
HH16-3	31+34.89 - 31+38.11	49.07' RT - 56.91' RT	Barnes	90750.96 - 90743.17	134284.61 - 134287.95		GH-HH16	1.5								
HH17-1a	31+24.04 - 31+38.88	63.58' LT - 64.72' LT	Barnes	90863.42 - 90864.81	134271.92 - 134286.74	+05.00 to +10.00	H-HH17	1.0							Existing CSU-E to remain 0.46'-0.88' horizontal offset full length deficient horizontal offset	Barnes station range given for 5' horizontal clearance offset.
HH17-1b	31+27.70 - 31+30.84	68.30' LT - 68.48' LT	Barnes	90868.20 - 90868.43	134275.50 - 134278.64	+1.43 to +03.20	H-HH17	1.0							Existing CSU-E to remain 4.89'-5.00' horizontal offset full length deficient horizontal offset	Barnes station range given for 5' horizontal clearance offset.

Field verify elevation(s) and clearance(s)  
 xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

Print Date: 1/5/2024  
 File Name: P1-18300UTIL\_EX\_Tabs\_11.dgn  
 Horiz. Scale: 1:100 Vert. Scale:  
 Unit Information Unit Leader  
 Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.





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No Revisions:	MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS	
Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subst: UTIL-TAB
	Subset Sheets: 11 of 18	Sheet Number

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POINT NUMBER	ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	NORTHING	EASTING	HANDHOLE LATERAL STA	DUCT BANK ALG	DIAMETER @ CROSSING (FT)	HANDHOLE LATERAL		OTHER CROSSING UTILITY		PROPOSED GROUND ELEVATION	EXISTING GROUND ELEVATION	APPROXIMATE LOCATION	NOTES
									TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION				
HH17-1	31+29.04	63.48' LT	Barnes	90863.40	134276.92	+00.00	H-HH17	1.0	6654.55	6653.55			6659.63	6659.55	Begin HH# 17 (CSU-FO, Zayo, Falcon, CenturyLink)	
HH17-2	31+34.04	63.48' LT	Barnes	90863.48	134281.92	+05.00	H-HH17	1.0	6654.55	6652.55			6659.55	6659.52	End HH# 17 (CSU-FO, Zayo, Falcon, CenturyLink) End Duct Bank H	
HH19-1	34+59.66	42.70' RT	Barnes	90762.63	134609.30	+00.00	G-HH19	-					6657.11	6663.47	Set up horizontal alignment only - <b>no vertical 0+00 - 0+02.48</b>	
V1-SW	34+56.18	40.23' RT	Barnes	90765.03	134605.70	+02.48, 3.54' LT	G-HH19	8.0					6657.13	6663.44	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
V1-SE	34+63.18	40.21' RT	Barnes	90765.17	134612.70	+02.48, 3.46' RT	G-HH19	8.0					6657.20	6663.58	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
V1-NW	34+56.16	35.23' RT	Barnes	90770.03	134605.61	+07.48, 3.54' LT	G-HH19	8.0					6657.23	6663.54	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
V1-NE	34+63.16	35.21' RT	Barnes	90770.17	134612.60	+07.48, 3.46' RT	G-HH19	8.0					6657.30	6663.68	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
HH19-2	34+59.71	37.70' RT	Barnes	60767.63	134609.20	+04.98	G-HH19	1.5	6649.31	6647.81			6657.21	6663.56	Begin HH# 19 (Center of CenturyLink Vault)	
HH19-3	34+59.66	29.48' RT	Barnes	90775.84	134609.01	+13.21	G-HH19	1.5	6649.31	6647.81	6651.31	6650.31	6657.38	6663.71	Proposed 12" CMD-W crossing; STA <b>3+82.66</b>	
HH19-4	34+59.66	22.70' RT	Barnes	90782.62	134608.90	+20.00	G-HH19	1.5	6652.71	6651.21			6657.51	6663.83	End HH# 19 (CenturyLink Vault)	
HH20-1	37+20.15	41.81' RT	Barnes	90767.75	134869.67	+00.00	G-HH20	-					6661.93	6667.31	Set up horizontal alignment only - <b>no vertical 0+00 - 0+02.50</b>	
V1-SW	37+16.64	39.32' RT	Barnes	90770.18	134866.12	+02.50, 3.50' LT	G-HH20	8.0					6661.88	6667.36	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
V1-SE	37+23.64	39.30' RT	Barnes	90770.32	134873.12	+2.50, 3.50' RT	G-HH20	8.0					6662.09	6667.32	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
V1-NW	37+16.62	34.32' RT	Barnes	90775.18	134866.02	+7.50, 3.50' LT	G-HH20	8.0					6661.99	6667.43	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
V1-NE	37+23.62	34.30' RT	Barnes	90775.32	134873.02	+7.50, 3.50' RT	G-HH20	8.0					6662.20	6667.39	7'L x 5'W x 8'H Vault - Handhole to center of Vault	
HH20-2	37+20.13	36.81' RT	Barnes	90772.75	134869.57	+05.00	G-HH20	1.5	6651.51	6650.01			6662.04	6667.37	Begin HH# 20 (Center of CenturyLink Vault)	
HH20-3	37+20.10	28.58' RT	Barnes	90780.98	134869.40	+13.22	G-HH20	1.5	6651.51	6650.01	6653.51	6652.51	6662.23	6667.49	Proposed 12" CMD-W crossing; STA <b>6+43.04</b>	
HH20-4	37+20.08	21.81' RT	Barnes	90787.75	134869.27	+20.00	G-HH20	1.5	6657.39	6655.89			6662.37	6667.59	End HH# 20 (CenturyLink Vault)	

Field verify elevation(s) and clearance(s)

xxxx.xx Provide Duct Bank elevations to other utilities for future crossings

Print Date: 1/5/2024

File Name: P1-18300UTIL\_EX\_Tabs\_12.dgn

Horiz. Scale: 1:100      Vert. Scale:

Unit Information      Unit Leader

Project No./Code    PPRTA    10444

Sheet Revisions		
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No Revisions:		MARKSHEFFEL ROAD DUCT BANK UTILITY CONFLICTS	
Revised:	Designer: JLS	Structure Numbers	Sheet Number
Void:	Detailer: TAH		
	Sheet Subset: UTIL-TAB	Subset Sheets: 12 of 18	

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Know what's below.  
Call before you dig.

ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	STORM DRAIN LINE	PIPE OR STRUCTURE ID	PROPOSED SURFACE ELEVATION	STORM DRAIN		DESIGN HORIZONTAL CLEARANCE	DESIGN VERTICAL CLEARANCE	UTILITY MATERIAL	DUCT BANK UNDER/OVER STORM DRAIN & DUCT BANK DIAMETER	APPROXIMATE LOCATION	NOTES
						TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION	(ft)	(inches)				
342+35.35	90.13'	Marksheffel	Cross-Culvert	342 CBC	6582.17'	6573.03'	6565.36'	Crossing	29.04	10'X6' CBC		Water crossing above 10x6 CBC EAST, South	
342+49.94	90.15'	Marksheffel	Cross-Culvert	342 CBC	6582.23'	6573.09'	6565.42'	Crossing	28.44	10'X6' CBC		Water crossing above 10x6 CBC EAST, North	
342+42.46	80.50'	Marksheffel	Cross-Culvert	342 CBC	6583.09'	6573.11'	6565.44'	Crossing		10'X6' CBC	over - 6" dia	Duct Bank F crossing above 10x6 CBC EAST, South	
342+57.04	80.50'	Marksheffel	Cross-Culvert	342 CBC	6583.01'	6573.17'	6565.50'	Crossing		10'X6' CBC	over - 6" dia	Duct Bank F crossing above 10x6 CBC EAST, North	
343+63.95	-88.46'	Marksheffel	Cross-Culvert	342 CBC		6574.57'	6566.90'	Crossing		10'X6' CBC		High Pressure Gas at 10x6 CBC WEST, South	
343+78.45	-88.97'	Marksheffel	Cross-Culvert	342 CBC		6574.63'	6566.96'	Crossing		10'X6' CBC		High Pressure Gas at 10x6 CBC WEST, North	
344+14.33	90.24'	Marksheffel	Trunkline	P344R3B		6575.14'	6571.31'	Crossing	18.00	4'X3' CBC		Water crossing above 4x3 CBC EAST, South	Variance?
344+26.13	90.20'	Marksheffel	Trunkline	P344R3A		6575.14'	6571.31'	Crossing	18.00	4'X3' CBC		Water crossing above 4x3 CBC EAST, North	Variance?
344+14.04	80.50'	Marksheffel	Trunkline	P344R3B		6575.20'	6571.36'	Crossing		4'X3' CBC	over - 6" dia	Duct Bank F crossing at 4x3 CBC EAST, South	
344+25.83	80.50'	Marksheffel	Trunkline	P344R3A		6575.20'	6571.36'	Crossing		4'X3' CBC	over - 6" dia	Duct Bank F crossing at 4x3 CBC EAST, North	
349+21.83	34.05'	Marksheffel	Trunkline	P352R2	6598.04'	6591.69'	6585.69'	Crossing		60" RCP	over - 6" dia	Duct Bank F	
351+88.37	36.25'	Marksheffel	Trunkline	P352R2		6598.91'	6592.91'	Crossing	18.00	60" RCP		Water Lateral, Bottom of Pipe = 6600.41'	Variance?
352+07.52	15.16'	Marksheffel	Lateral	P352L2		6602.96'	6601.04'	Crossing		18" RCP	over - 6" dia	Duct Bank F	EL provided is bottom of inlet
353+05.24	89.99'	Marksheffel	Lateral	P353R1		6612.96'	6611.04'	Crossing	69.48	18" RCP		Water Main, Top of Pipe = 6605.25'	
354+54.78	23.51'	Marksheffel	Lateral	P355L1		6606.16'	6604.24'	Crossing		18" RCP	over - 6" dia	Duct Bank F	
356+44.86 to 357+89.35	28.17' to 45.76'	Marksheffel	Trunkline	P359R4		NA	NA	5 to 0	NA	60" RCP	over - 6" dia	Duct Bank F	Diagonal crossing between 356+45 and 357+89 should be revised to cross at a specific location and run parallel for the rest of the reach.
357+17.10	36.97'	Marksheffel	Trunkline	P359R4		6605.28'	6599.28'	Crossing		60" RCP	over - 6" dia	Duct Bank F	
358+16.18	-94.71'	Marksheffel	Cross-Culvert	P358L1		6598.24'	6595.74'	Crossing		24" RCP		High Pressure Gas	
358+16.18	36.68'	Marksheffel	Trunkline	P359R4		6606.27'	6600.27'	Crossing	18.84	60" RCP		24" RCP Cross Culvert, Bottom of Pipe = 6607.84'	
358+16.18	48.42'	Marksheffel	Cross-Culvert	P358R1		6610.40'	6607.90'	Crossing		24" RCP	over - 6" dia	Duct Bank F	
358+16.18	90.00'	Marksheffel	Cross-Culvert	P358R1		6610.61'	6608.11'	Crossing	18.00	24" RCP		Water Main, Top of Pipe = 6606.61'	
358+40.00	36.61'	Marksheffel	Trunkline	P359R4		6606.51'	6600.51'	Crossing		60" RCP		Duct Bank F Handhole	
359+23.30	41.04'	Marksheffel	Trunkline	MH359R1		NA	NA	7.20		8' DIA Manhole	over - 6" dia	Duct Bank F	May be acceptable as-is. Information provided for documentation.
364+35.09	77.34'	Marksheffel	Lateral	INR364R1		NA	NA	0.38		5' Type R Inlet		Gas	
364+38.25	48.85'	Marksheffel	Lateral	P364R1		6617.41'	6615.50'	Crossing		18" RCP	under - 6" dia	Duct Bank F	

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 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:	MARKSHEFFEL ROAD STORM DRAIN UTILITY CONFLICTS		
Revised:	Designer: JLS	Structure Numbers	
Void:	Detailer: TAH		
	Sheet Subset: UTIL-TAB	Subset Sheets: 13 of 18	Sheet Number



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ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	STORM DRAIN LINE	PIPE OR STRUCTURE ID	PROPOSED SURFACE ELEVATION	STORM DRAIN		DESIGN HORIZONTAL CLEARANCE (ft)	DESIGN VERTICAL CLEARANCE (inches)	UTILITY MATERIAL	DUCT BANK UNDER/OVER STORM DRAIN & DUCT BANK DIAMETER	APPROXIMATE LOCATION	NOTES
						TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION						
364+67.07	48.87'	Marksheffel	Lateral	P365R4		6616.76'	6614.84'	Crossing		18" RCP	over - 1' dia	Duct Bank E	
364+67.10	78.05'	Marksheffel	Lateral	P365R4		6619.68'	6617.76'	Crossing		18" RCP		Gas	
364+67.12	90.01'	Marksheffel	Lateral	P365R4		6620.87'	6618.95'	Crossing	53.64	18" RCP		Water Main, Top of Pipe = 6614.48'	
365+22.64	48.91'	Marksheffel	Lateral	P365R1		6617.39'	6615.47'	Crossing		18" RCP	over - 1' dia	Duct Bank E	
365+67.45	-88.65'	Marksheffel	Cross-Culvert	P366L1		6613.46'	6610.96'	Crossing		24" RCP		High Pressure Gas	
365+67.45	36.68'	Marksheffel	Trunkline	P367R2		6616.66'	6611.25'	Crossing	24.00	54" RCP		Pipe = 6618.66'	Jacobs SD clearance set at 12" - Variance?
365+67.45	48.94'	Marksheffel	Cross-Culvert	P366R1		6621.23'	6618.73'	Crossing		24" RCP	over - 1' dia	Duct Bank E	
365+67.45	79.19'	Marksheffel	Cross-Culvert	P366R1		6621.38'	6618.88'	Crossing		24" RCP		Gas	
365+67.45	90.01'	Marksheffel	Cross-Culvert	P366R1		6621.43'	6618.93'	Crossing	31.32	24" RCP		Water Main, Top of Pipe = 6616.32'	Variance?
367+00.00	36.51'	Marksheffel	Trunkline	P367R2		6618.43'	6613.01'	Crossing		54" RCP		Duct Bank E Handhole	
367+19.85	40.95'	Marksheffel	Trunkline	MH367R2		NA	NA	2.68		8' DIA Manhole		Duct Bank E	
367+45.08	36.52'	Marksheffel	Trunkline	P368R2		6620.80'	6615.38'	Crossing		54" RCP	over - 1' dia	Duct Bank E	
368+17.56	25.04'	Marksheffel	Lateral	P368L2		6621.45'	6619.53'	Crossing		18" RCP	over - 1' dia	Duct Bank E	
371+16.41	14.41'	Marksheffel	Lateral	P371R1		6625.65'	6623.15'	Crossing		24" RCP	over - 1' dia	Duct Bank E	
374+06.12	12.70'	Marksheffel	Lateral	P374L2		6635.14'	6632.64'	Crossing		24" RCP	under - 1' dia	Duct Bank E	
378+22.73	33.51'	Marksheffel	Trunkline	P379R2B		6648.58'	6644.33'	Crossing		42" RCP	over - 1' dia	Duct Bank D	
378+69.30	33.52'	Marksheffel	Trunkline	P379R2B		6650.05'	6645.80'	Crossing		42" RCP		ITS	
378+90.30	49.94'	Marksheffel	Lateral	P379R4		6652.04'	6649.54'	Crossing		24" RCP		Gas	Barnes STA 36+79.61
378+90.27	66.83'	Marksheffel	Lateral	P379R4		6654.31'	6651.81'	Crossing		24" RCP		ITS	
378+90.18	110.34'	Marksheffel	Lateral	P379R3		6660.14'	6657.64'	Crossing	47.64	24" RCP		Water Main, Top of Pipe = 6653.67'	Barnes STA 37+32.84
378+90.17	120.09'	Marksheffel	Lateral	P379R3		6660.24'	6657.74'	Crossing		24" RCP	UNDER - 1' dia	Duct Bank D	This has to go under the SD, otherwise it's above FG Barnes STA 37+42.59
379+06.86	33.52'	Marksheffel	Trunkline	P379R2A		6651.24'	6646.99'	Crossing	26.52	42" RCP		Water Lateral, Bottom of Pipe = 6653.45'	
379+13.63	33.52'	Marksheffel	Trunkline	P379R2A		6651.45'	6647.20'	Crossing		42" RCP	over - 1.5' dia	Duct Bank G	
379+24.71	50.26'	Marksheffel	Lateral	P379R1		6653.34'	6651.42'	Crossing		18" RCP		Gas	
379+24.45	67.36'	Marksheffel	Lateral	P379R1		6655.10'	6653.19'	Crossing		18" RCP		ITS	
379+34.62	33.52'	Marksheffel	Trunkline	P380R2		6652.62'	6648.37'	Crossing		42" RCP		Gas	
380+05.97	33.51'	Marksheffel	Trunkline	P380R2		6656.12'	6651.87'	Crossing		42" RCP		ITS	
380+07.46	33.51'	Marksheffel	Trunkline	P380R2		6656.19'	6651.94'	Crossing		42" RCP		Electric	
380+58.72	33.50'	Marksheffel	Trunkline	P381R1		6658.71'	6654.46'	Crossing		42" RCP	over - 6"H x 2'W spread	Duct Bank A Handhole	
382+69.72	62.05'	Marksheffel	Lateral	P383R1		6666.95'	6665.03'	Crossing		18" RCP	under - 1' dia	Duct Bank A	
385+55.00	33.81'	Marksheffel	Trunkline	P386R2		6676.28'	6672.03'	Crossing		42" RCP	under - 1' dia	Duct Bank A Handhole	
385+99.50	60.41'	Marksheffel	Lateral	P386R1		6677.37'	6674.87'	Crossing		24" RCP	under - 1' dia	Duct Bank A	SD PKG 2; DB A PKG 1
386+09.85	68.72'	Marksheffel	Lateral	INR386R1		NA	NA	7.36	NA	20' Type R Inlet	under - 1' dia	Duct Bank A	SD PKG 2; DB A PKG 1
388+13.00	36.31'	Marksheffel	Trunkline	P389R3		6687.26'	6683.01'	Crossing		42" RCP	under - 1' dia	Duct Bank A Handhole	

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No Revisions:	MARKSHEFFEL ROAD STORM DRAIN UTILITY CONFLICTS	
Revised:	Designer: JLS	Structure Numbers
Void:	Detailer: TAH	Sheet Subsets
	Sheet Subset: UTIL-TAB	Subset Sheets: 14 of 18
		Sheet Number

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ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	STORM DRAIN LINE	PIPE OR STRUCTURE ID	PROPOSED SURFACE ELEVATION	STORM DRAIN		DESIGN HORIZONTAL CLEARANCE	DESIGN VERTICAL CLEARANCE	UTILITY MATERIAL	DUCT BANK UNDER/OVER STORM DRAIN & DUCT BANK DIAMETER	APPROXIMATE LOCATION	NOTES
						TOP OF PIPE ELEVATION	BOTTOM OF PIPE ELEVATION						
388+93.19	58.96'	Marksheffel	Lateral	P389R1		6690.15'	6688.23'	Crossing		18" RCP	under - 1' dia	Duct Bank A	SD PKG 2; DB A PKG 1
391+67.23	-1.59'	Marksheffel	Lateral	IND392R2		NA	6697.19'	Crossing		Type D Inlet		High Pressure Gas	Phase II – Preliminary SD design subject to change – EL provided is bottom of inlet
391+70.62	3.01'	Marksheffel	Lateral	P392R2		6699.39'	6697.48'	Crossing		18" RCP		High Pressure Gas	Phase II – Preliminary SD design subject to change
391+97.60	37.69'	Marksheffel	Trunkline	P395R3		6697.03'	6692.78'	Crossing		42" RCP		High Pressure Gas	Phase II – Preliminary SD design subject to change
392+26.33	71.18'	Marksheffel	Lateral	P393R1		6701.62'	6699.70'	Crossing		18" RCP		High Pressure Gas	Phase II – Preliminary SD design subject to change
33+93.69	29.71'	Barnes	Lateral	P379L3		6653.58'	6651.67'	Crossing	21.12	18" RCP		Water Lateral, Top of Pipe = 6649.91'	
33+94.35	22.95'	Barnes	Lateral	P379L3		6653.53'	6651.62'	Crossing		18" RCP	under - 1.5' dia	Duct Bank G	
33+96.00	5.96'	Barnes	Lateral	P379L3		6653.40'	6651.49'	Crossing		18" RCP		Gas	
35+24.49	3.50'	Barnes	Lateral	P379L4		6652.69'	6650.19'	Crossing		24" RCP		High Pressure Gas	
35+24.87	3.52'	Barnes	Lateral	P379L4		6652.69'	6650.19'	Crossing		24" RCP		Gas	
35+50.22	4.91'	Barnes	Lateral	P379L4		6652.48'	6649.98'	Crossing		24" RCP			

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MARKSHEFFEL ROAD STORM DRAIN UTILITY CONFLICTS			
Designer:	JLS	Structure Numbers	
Detailer:	TAH	Structure Numbers	
Sheet Subset:	UTIL-TAB	Subset Sheets:	15 of 18

Sheet Number
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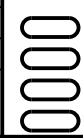
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ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	UTILITY STA	CSU-G		OTHER CROSSING UTILITY		CSU-G UNDER/OVER OTHER UTILITY	PROPOSED FINISHED GRADE ELEVATION	UTILITY SIZE / TYPE (INCHES)	TOP OF PIPE DEPTH (INCHES)	UTILITY OWNER	APPROXIMATE LOCATION	NOTES
				TOP OF UTILITY ELEVATION	BOTTOM OF UTILITY ELEVATION	TOP OF UTILITY ELEVATION	BOTTOM OF UTILITY ELEVATION							
30+84.11	19.60' RT	BARNES	0+00.29	6654.62	6654.12				6659.95	6"		CSU-G	CONNECT TO EXISTING	PH-63 1.5' east of connection 6" dia; TOP=6654.62, BOTTOM= 6654.12
30+84.21	11.86' RT	BARNES	0+08.02	6656.94	6656.44				6660.19	6"		CSU-G	HORIZONTAL BEND	
31+19.43	11.19' RT	BARNES	0+43.25	6656.80	6656.30				6659.94				EXISTING SAS	
31+34.04	10.92' RT	BARNES	0+57.78	6655.93	6655.43				6659.80	12"		WILSON-UTIL	PROPOSED DUCT BANK H	
32+11.70	9.45' RT	BARNES	1+35.61		-0.50				6658.93	8'W x 6'H			EXISTING STORM DRAIN	
33+96.00	5.96' RT	BARNES	3+19.87	6654.90	6654.40	6653.40	6651.49		6657.48	24" RCP	3.1	JACOBS-SD	STORM 24" RCP DRAIN	1.88" above 1' SD clearance to maintain 3' bury. Variance to reduce vert clearance or SD lower line?
34+94.56	4.10' RT	BARNES	4+18.45			6661.10	6660.94		6658.32	2"		ZAYO-FO	EXISTING FO	PH-28
34+99.35	4.00' RT	BARNES	4+23.23			6661.63	6661.53		6658.39	1-1/4"		ZAYO-FO	EXISTING FO	PH-29
35+03.04	3.93' RT	BARNES	4+26.93			6659.60	6659.10		6658.44	6"		MVEA-E	EXISTING E	PH-30
35+06.02	3.88' RT	BARNES	4+29.90			6660.29	6660.12		6658.49	2"		ZAYO-T	EXISTING T	PH-31
35+06.93	3.86' RT	BARNES	4+30.82			N/A	N/A		6658.51	N/A		QWEST-T	EXISTING T	PH-32
35+19.89	3.61' RT	BARNES	4+43.78			N/A	N/A		6658.74	N/A		COMCAST-FO	EXISTING FO	PH-33
35+20.47	3.61' RT	BARNES	4+44.36						6658.74				EXISTING FO	
35+24.49	3.53' RT	BARNES	4+48.38					OVER	6658.81			CSU HP-G	PROPOSED CSU HP-G	
35+24.87	3.52' RT	BARNES	4+48.75	6655.18	6654.68	6652.69	6650.19	OVER	6658.82	24" RCP		JACOBS-SD	PROPOSED 24" RCP STORM DRAIN	MARKSHEFFEL STA 379+32.59, 97.50' LT 2.65' clearance between SD TOP and 48" depth
35+26.17	3.50' RT	BARNES	4+50.06			N/A	N/A		6658.84	N/A		MVEA-E	EXISTING E	PH-34
35+40.28	3.23' RT	BARNES	4+64.18			6658.53	6657.70		6659.13	10'X6'		CSU-W	EXISTING CSU-W LATERAL TO FIRE HYDRANT - ELEV TO STEEL TMJ FITTING	PH-35 TO BE REMOVED
35+50.00	3.05' RT	BARNES	4+73.89			6665.44	6665.44	UNDER	6659.33	2"X2	41.5	FALCON-FO	EXISTING FO	PH-36 - ASSUME ELEVATIONS AT TOP OF EX FO CONDUIT
35+50.34	3.04' RT	BARNES	4+74.24	6655.84	6655.34	6657.34	6656.84	UNDER	6659.34	6" BUNDLE	42.0	WILSON-TRAF	PROPOSED 3-2" and 2-3" TRAFFIC SIGNAL CONDUIT - 24" DEPTH, 1' V CLEAR	MARKSHEFFEL STA 379+33.03, 72.01' LT, 24" DEPTH
35+51.96	3.01' RT	BARNES	4+75.85			6665.42	6665.42	UNDER	6659.37	6"X4	36.0 - 42.0	CSU-E	EXISTING E	PH-37
36+27.43	1.58' RT	BARNES	5+51.34			N/A	N/A	UNDER	6660.92	N/A	36.0 - 42.0	ZAYO-FO	EXISTING FO	PH-43 6" SHOWN 3' DEEP
36+28.93	1.55' RT	BARNES	5+52.83			N/A	N/A	UNDER	6660.95	N/A	36.0 - 42.0	ZAYO-FO	EXISTING FO	PH-42 6" SHOWN 3' DEEP
36+32.97	1.48' RT	BARNES	5+56.88						6661.03	N/A	36.0 - 42.0	CSU-TRANSMISSION-OHE	EXISTING OHE	
36+55.88	1.04' RT	BARNES	5+79.79			6652.62	6648.37	OVER	6661.50	42" RCP	36.0 - 42.0	JACOBS-SD	PROPOSED STORM DRAIN 42" RCP TRUNKLINE	MARKSHEFFEL STA 379+34.62, 33.52' RT
36+63.07	0.91' RT	BARNES	5+86.98						6661.65				EXISTING G-ASBESTOS	REMOVED
36+72.71	0.72' RT	BARNES	5+96.62	6658.34	6657.84	6658.34	6657.84	CONNECTION	6661.84	6"	36.0 - 42.0	CSU-G	PROPOSED CSU-G CONNECTION TO S-N CSU-G	
36+74.41	0.70' RT	BARNES	5+98.33			6664.65	6662.99	UNDER	6661.88	20" DI	36.0 - 42.0	CMD-W	EXISTING 20" CMD-W	PH-44 TO BE REMOVED
36+89.88	0.40' RT	BARNES	6+13.80	6658.70	6658.20	6660.20	6659.70	UNDER	6662.20	6" BUNDLE	42.0	WILSON-TRAF	PROPOSED 3-2" and 2-3" TRAFFIC SIGNAL CONDUIT - 24" DEPTH, 1' V CLEAR	MARKSHEFFEL STA 379+35.15, 67.53' RT, 24" DEPTH
37+15.79	0.09' LT	BARNES	6+39.72			6665.12	6664.62	UNDER	6662.74	6"	36.0	CSU-G	EXISTING CSU-G	PH-25
37+32.68	0.41' LT	BARNES	6+56.60			6653.90	6652.23	OVER	6663.09	20" RCP	36.0	CMD-W	PROPOSED 20" CMD-W - PKG 0	CMD-W STA 49+16.08
37+42.42	0.60' LT	BARNES	6+66.35			6658.00	6656.00		6663.29	24" BUNDLE	36.0	DUCT BANK C	PROPOSED DUCT BANK C	1.54' BETWEEN TOP OF DB-C AND 48" BURY
37+59.19	0.91' LT	BARNES	6+83.12			6656.43	6655.10	OVER	6663.63	16" PVC	36.0	CSU-W	EXISTING CSU-W ~39" DEPTH	SHALLOW - NEED TO LOWER - LOWER THAN ALL OTHER UTILITIES
37+59.19	0.91' LT	BARNES	6+83.12					OVER		12" PVC		CSU-W	PROPOSED CSU-W 12"	
37+63.07	0.99' LT	BARNES	6+87.01					OVER	6663.71	24" PVC	36.0	CSU-W	EXISTING CSU-W	TO REMAIN - CHECK VERTICAL CLEARANCE
		BARNES								6"	36.0 - 42.0	CSU-G	CSU-G STUB / END OF LINE	

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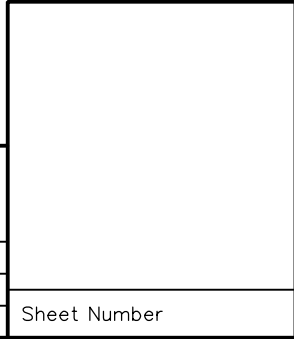
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	Detailer: TAH	Numbers	
Void:	Sheet Subset: UTIL-TAB	Subset Sheets: 16 of 18	Sheet Number





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ALIGNMENT STA	ALIGNMENT OFFSET	ALIGNMENT	UTILITY STA	CSU-G		OTHER CROSSING UTILITY		CSU-G UNDER/OVER OTHER UTILITY	PROPOSED FINISHED GRADE ELEVATION	UTILITY SIZE / TYPE (INCHES)	TOP OF PIPE DEPTH (INCHES)	UTILITY OWNER	APPROXIMATE LOCATION	NOTES
				TOP OF UTILITY ELEVATION	BOTTOM OF UTILITY ELEVATION	TOP OF UTILITY ELEVATION	BOTTOM OF UTILITY ELEVATION							
375+20.28	76.65' RT	MARKSHEFFEL	0+0.00	6640.16*	6639.66			CONNECTION	6646.11	6"	71.5	CSU-G	CONNECT TO EXISTING	
375+20.34	70.24' RT	MARKSHEFFEL	0+6.41	6640.96	6640.46	6659.96	6659.63	OVER?	6645.52	4"	54.5	CENTURYLINK	EXISTING CENTURYLINK FO	PH-57A TOWARD NORTH - 3.25' EXITSING DEPTH
375+20.55	48.48' RT	MARKSHEFFEL	0+28.18	6642.13	6641.63	6657.38	6655.88	OVER	6645.28	18"	37.5	CMD-W	EXISTING 18" CMD-W - ASSUMED 7' DEPTH - NEED POTHOLE TO CONFIRM	TO BE REMOVED
375+20.55	48.48' RT	MARKSHEFFEL	0+28.18	VARIES	VARIES	TOP SHOWN AT 7' DEPTH		OVER	6645.28	18"	36.0 - 42.0	CMD-W	EXISTING CMD-W HORIZONTAL OFFSET 1.3~3.8'	USE EXISTING 7.00' DEPTH FROM PH-44
379+34.89	50.35' RT	MARKSHEFFEL	FULL LENGTH			INV SHOWN 1.5' BELOW TOP		UNDER	6661.84				EXISTING CMD-W HORIZONTAL OFFSET 1.3~3.8'	PH-44 1.75' FROM CSU-G STA 4+10.35 7.00' EXISTING DEPTH
375+20.56	46.46' RT	MARKSHEFFEL	0+30.19	6642.24	6641.74				6645.24	6"	36.0 - 42.0	CSU-G	HORIZONTAL BEND	
378+01.15	49.10' RT	MARKSHEFFEL	3+10.80	6654.81	6654.31				6657.81	OHE	36.0 - 42.0	CSU-TRANSMISSION	CSU-TRANSMISSION OHE SAG	6' OFF EXISTING TRANSMISSION FOUNDATION
378+33.48	49.40' RT	MARKSHEFFEL	3+43.14	6655.87	6655.37	6653.79	6652.79	OVER	6658.87	12"	36.0 - 42.0	WILSON-UTIL	PROPOSED DUCT BANK D	
378+36.17	49.43' RT	MARKSHEFFEL	3+45.78	6655.95		6663.17	6662.83	UNDER	6658.95	4"	36.0 - 42.0	CENTURYLINK	EXISTING CENTURYLINK FO	SHOWN AT 3.5' DEPTH FROM EXISTING - GENERAL AVERAGE OF FO PH
378+67.69	49.72' RT	MARKSHEFFEL	3+77.33	6656.40	6655.90	6657.90	6657.40	UNDER	6659.90	6" BUNDLE	42.0	WILSON-TRAF	PROPOSED 2-2" and 2-3" TRAFFIC SIGNAL CONDUIT - 24" DEPTH, 1' V CLEAR	USE 24" DEPTH FROM CSU-G W-E CROSSINGS
378+90.30	49.94' RT	MARKSHEFFEL	3+99.93	6667.53	6667.03	6652.04	6649.54	OVER	6660.56	24"	36.0 - 42.0	JACOBS - SD	SD LATERAL TO CLASSIC	
378+94.92	49.99' RT	MARKSHEFFEL	4+04.55	6657.69	6657.19	6655.68	6654.85	OVER	6660.69	10" x 6"	36.0 - 42.0	CMD-W	EXISTING CMD-W	PH-35 10"x6" @ 6.52' depth; crossing shown at 5' deep from existing ground
379+06.86	50.09' RT	MARKSHEFFEL	4+16.51	6658.03	6657.53	6654.18	6653.20	OVER	6661.03	18"	36.0 - 42.0	WILSON-W	PROPOSED 18" CMD-W	CMD BARNES LATERAL STA 5+95.48
379+13.63	50.15' RT	MARKSHEFFEL	4+23.28	6658.23	6657.73	6656.39	6654.89	OVER	6661.23	18"	36.0 - 42.0	WILSON-UTIL	PROPOSED DUCT BANK G	
379+20.00	48.49' RT	MARKSHEFFEL	4+29.66	6658.34	6657.84	6653.34	6652.84	UNDER	6661.38	6"	36.0 - 42.0	CSU-G	EXISTING CSU-G	TO BE REMOVED
379+24.71	50.26' RT	MARKSHEFFEL	4+34.35	6658.34	6657.84	6653.34	6651.42	OVER	6661.55	18"	36.0 - 42.0	JACOBS - SD	PROPOSED SD LATERAL	
379+34.89	50.35' RT	MARKSHEFFEL	4+44.53	6658.34	6657.84	6658.34	6657.84	CONNECTION	6661.84	6"	36.0 - 42.0	CSU-G	PROPOSED CONNECTION	

\*Note: Assumed 3' existing depth from existing ground

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MARKSHEFFEL ROAD PROPOSED WATERLINE UTILITY CONFLICTS			
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Sheet Subset:	UTIL-TAB	Subset Sheets:	17 of 18

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**TABLE 8**

**CLEARANCE MATRIX FOR TYPICAL  
COLORADO SPRINGS UNDERGROUND UTILITIES  
(Separate Trenches)**

**HORIZONTAL CLEARANCE MATRIX FOR TYPICAL  
COLORADO SPRINGS UNDERGROUND UTILITIES**

(all dimensions in feet) All separations shown are the clear horizontal distance between two objects measured surface to surface

Colorado Springs Utilities (Underground)	Potable Water	Non-Potable Water	Waste-water	Storm Sewer	Gas mains 150 psig (MAOP)	Gas main	Gas Service	Electric Primary up to 34.5kV	Electric Secondary (0-480 Volt)	Telecom / Fiber
Potable Water	X	10	10	10 <sup>c</sup>	10	6	3	10 <sup>d</sup>	3	5
Non-Potable Water	10	X	10	10	10	6	3	10	3	5
Wastewater	10	10	X	10 <sup>c</sup>	10	6	3	10 <sup>d</sup>	3	5
Storm Sewer	10 <sup>c</sup>	10	10 <sup>c</sup>	X	10	6	3	10	3	5
Gas mains 150 psig (MAOP)	10	10	10	10	X	6	6	10	10	10
Gas main	6	6	6	6	6	X	3	6	3	5
Gas Service	3	3	3	3	6	3	X	3	3	3
Electric Primary up to 34.5kV	10 <sup>d</sup>	10	10 <sup>d</sup>	10	10	6	3	X	3	5
Electric Secondary (0-480 Volt)	3	3	3	3	10	3	3	3	X	5
Telecom / Fiber	5	5	5	5	10	5	3	5	5	X

**VERTICAL CLEARANCE MATRIX FOR TYPICAL  
COLORADO SPRINGS UNDERGROUND UTILITIES:**

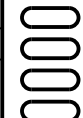
(all dimensions in feet) All separations shown are the clear vertical distance between two objects measured surface to surface

Colorado Springs Utilities (Underground):	Potable Water	Non-Potable Water	Waste-water	Storm Sewer	Gas mains 150 psig (MAOP)	Gas main	Gas Service	Electric Primary up to 34.5kV	Electric Secondary (0-480 Volt)	Telecom / Fiber
Potable Water	X	1.5 <sup>a</sup>	1.5 <sup>a</sup>	1.5 <sup>a</sup>	5	1	1	1	1	1
Non-Potable Water	1.5 <sup>a</sup>	X	1.5 <sup>a</sup>	1.5 <sup>a</sup>	5	1	1	1	1	1
Wastewater	1.5 <sup>a</sup>	1.5 <sup>a</sup>	X	1.5	5	1	1	1	1	1
Storm Sewer	1.5 <sup>a</sup>	1.5 <sup>a</sup>	1.5 <sup>a</sup>	X	5	1	1	1	1	1
Gas mains 150 psig (MAOP)	5	5	5	5	X		5	5	5	5
Gas main	1	1	1	1		X	1	1/5 <sup>b</sup>	1	1
Gas Service	1	1	1	1	5	1	X	1	1	1
Electric Primary up to 34.5kV	1	1	1	1	5	1/5 <sup>b</sup>	1	X	0	1
Electric Secondary (0-480 Volt)	1	1	1	1	5	1	1	0	X	1
Telecom / Fiber	1	1	1	1	5	1	1	1	1	X

Colorado Springs Utilities Gas Line Extension & Service Standards - 2023

C-10

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**MARKSHEFFEL ROAD  
 UTILITY CLEARANCE MATRIX**

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 Detailer: TAH      Numbers  
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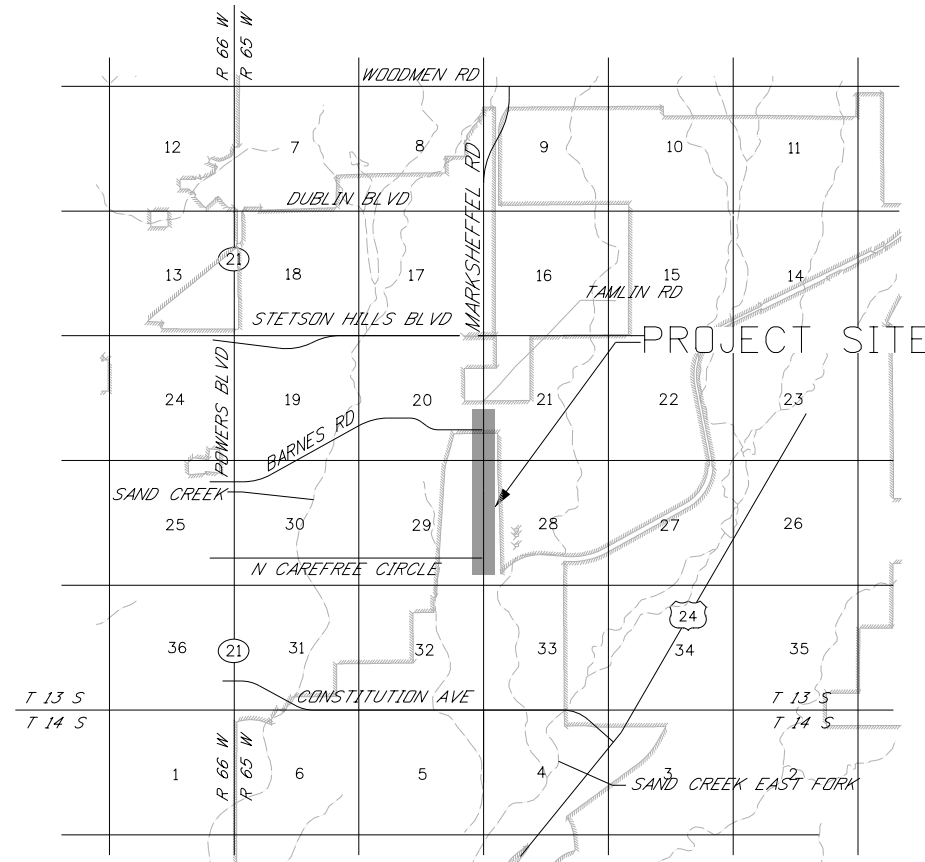


# DEPARTMENT OF PUBLIC SERVICES CITY OF COLORADO SPRINGS ENGINEERING DIVISION

INITIAL AND INTERIM GRADING AND EROSION CONTROL PLANS  
MARKSHEFFEL RD - DUBLIN BLVD TO N CAREFREE CIR  
FUNDED BY THE PIKES PEAK RURAL TRANSPORTATION AUTHORITY

APPROVED BY \_\_\_\_\_

CITY OF COLORADO SPRINGS  
ENGINEERING DIVISION



VICINITY MAP  
NOT TO SCALE

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2-3	GENERAL NOTES
4	KEY MAP
5-17	GRADING AND EROSION PLANS - INITIAL
18-33	GRADING AND EROSION PLANS - INTERIM
34-38	DETAILS

AS CONSTRUCTED INFORMATION

CONTRACTOR: \_\_\_\_\_

PROJECT ENGINEER: \_\_\_\_\_

PROJECT STARTED: \_\_\_\_\_

PROJECT COMPLETED: \_\_\_\_\_

AS CONSTRUCTED PLANS: \_\_\_\_\_

APPROVED: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

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Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 1	of 38

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**STANDARD GEC PLAN NOTES**

1. NO CLEARING, GRADING, EXCAVATION, OR OTHER LAND DISTURBING ACTIVITIES SHALL BE ALLOWED (EXCEPT FOR WORK DIRECTLY RELATED TO THE INSTALLATION OF INITIAL CONTROL MEASURES) UNTIL A CITY GEC PERMIT HAS BEEN ISSUED.
2. ALL LAND DISTURBING ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH AND THE APPROVED GEC PLAN AND CSWMP.
3. INITIAL CONTROL MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES TAKING PLACE. AN INITIAL SITE INSPECTION WILL NOT BE SCHEDULED UNTIL A CITY GEC PERMIT HAS BEEN "CONDITIONALLY APPROVED." CALL CITY STORMWATER INSPECTIONS, 385-5980, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE AN INITIAL INSPECTION AND OBTAIN FULL PERMIT APPROVAL.
4. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS) AND THE "CLEAN WATER ACT" (33 USC 1344), INCLUDING REGULATIONS PROMULGATED AND CERTIFICATIONS OR PERMITS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE CITY'S MS4 PERMIT, STORMWATER CONSTRUCTION MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
5. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
6. ALL CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT STABILIZATION MEASURES ARE IMPLEMENTED. TEMPORARY CONSTRUCTION CONTROL MEASURES MUST BE REMOVED PRIOR TO PERMIT CLOSEOUT.
7. CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS OR ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
8. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONSTRUCTION CONTROL MEASURES MAY BE REQUIRED BY THE GEC INSPECTOR IF DEEMED NECESSARY BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON, OF THE YEAR, ETC).
9. ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
10. THE PERMITTEE SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AS A RESULT OF CONSTRUCTION ACTIVITIES.
11. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO THE STORM SEWER SYSTEM AT ANY TIME.
12. SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT ALL STORAGE, EQUIPMENT FUELING, AND EQUIPMENT SERVICING AREAS SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING THE MS4, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITY. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE SECONDARY CONTAINMENT OR EQUIVALENT ADEQUATE PROTECTION. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

13. SEDIMENT (MUD AND DIRT) TRANSPORTED ONTO A PUBLIC ROAD, REGARDLESS OF THE SIZE OF THE SITE, SHALL BE CLEANED AS SOON AS POSSIBLE AFTER DISCOVERY.
14. NO CHEMICALS ARE TO BE ADDED TO THE DISCHARGE UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED BY THE STATE. IN GRADING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
15. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN FOURTEEN (14) CALENDAR DAYS AFTER FINAL GRADING OR FINAL LAND DISTURBANCE HAS BEEN COMPLETED. DISTURBED AREAS WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN FOURTEEN (14) DAYS SHALL BE ROUGHENED, MULCHED, TACKIFIED, OR STABILIZED WITH TARPS WITHIN FOURTEEN (14) DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN SIXTY (60) DAYS SHALL ALSO BE SEEDED, UNLESS AN ALTERNATIVE STABILIZATION MEASURE IS ACCEPTED AT THE INSPECTOR'S DISCRETION. ALL TEMPORARY CONSTRUCTION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED.
16. THE GEC PLAN WILL BE SUBJECT TO RE-REVIEW AND RE-ACCETANCE BY THE STORMWATER ENTERPRISE SHOULD ANY OF THE FOLLOWING OCCUR: GRADING DOES NOT COMMENCE WITHIN TWELVE (12) MONTHS OF THE CITY'S ACCEPTANCE OF THE PLAN, THE CONSTRUCTION SITE IS IDLE FOR TWELVE (12) CONSECUTIVE MONTHS, A CHANGE IN PROPERTY OWNERSHIP OCCURS, THE PLANNED DEVELOPMENT CHANGES, OR ANY OTHER MAJOR MODIFICATIONS ARE PROPOSED AS DEFINED IN THE STORMWATER CONSTRUCTION MANUAL.
17. IT IS NOT PERMISSIBLE FOR ANY PERSON TO MODIFY THE GRADE OF THE EARTH ON ANY UTILITY EASEMENT OR UTILITY RIGHT-OF-WAY WITHOUT WRITTEN APPROVAL FROM THE UTILITY OWNER. CITY ACCEPTANCE OF THE GEC PLAN AND CSWMP DOES NOT SATISFY THIS REQUIREMENT. THE PLAN SHALL NOT INCREASE OR DIVERT WATER TOWARDS UTILITY FACILITIES. ANY CHANGES TO EXISTING UTILITY FACILITIES TO ACCOMMODATE THE PLAN MUST BE APPROVED BY THE AFFECTED UTILITY OWNER PRIOR TO IMPLEMENTING THE PLAN. THE COST TO RELOCATE OR PROTECT EXISTING UTILITIES OR TO PROVIDE INTERIM ACCESS SHALL BE AT THE APPLICANT'S EXPENSE.
18. APPLICANT REPRESENTS AND WARRANTS THAT THEY HAVE THE LEGAL AUTHORITY TO GRADE AND/OR CONSTRUCT IMPROVEMENTS ON ADJACENT PROPERTY. THE CITY HAS NOT REVIEWED THE DEVELOPER'S AUTHORITY TO MODIFY ADJACENT PROPERTY. AN APPROVED GEC PERMIT DOES NOT PROVIDE APPROVAL FOR THE APPLICANT TO PERFORM WORK ON ADJACENT PROPERTY. ALL UTILITY INSTALLATIONS WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE COVERED UNDER THIS PLAN. LOCATIONS OF UTILITIES WITHIN THE LIMITS OF DISTURBANCE MAY BE MODIFIED AFTER PLAN APPROVAL AS A FIELD CHANGE. UTILITY INSTALLATIONS RELATED TO THE PRIVATE DEVELOPMENT THAT EXTEND BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE CONSIDERED TO BE PART OF THE LARGER DEVELOPMENT, AND THEREFORE REQUIRE A PLAN MODIFICATION OR SEPARATE PLAN FOR THE ADDITIONAL DISTURBANCE AREA.

**ENGINEER'S STATEMENT**

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECT SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IF SUCH WORK IS PERFORMED IN ACCORDANCE WITH THE GRADING AND EROSION CONTROL PLAN, THE WORK WILL NOT BECOME A HAZARD TO LIFE AND LIMB, ENDANGER PROPERTY, OR ADVERSELY AFFECT THE SAFETY, USE, OR STABILITY OF A PUBLIC WAY, DRAINAGE CHANNEL, OR OTHER PROPERTY.

PRINTED NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

SEAL

**CONTRACTOR'S STATEMENT**

I WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN/CSWMP INCLUDING CONSTRUCTION CONTROL MEASURE INSPECTION REQUIREMENTS AND FINAL STABILIZATION REQUIREMENTS. I ACKNOWLEDGE THE RESPONSIBILITY TO DETERMINE WHETHER THE CONSTRUCTION ACTIVITIES ON THESE PLANS REQUIRE COLORADO DISCHARGE PERMIT SYSTEM (CDPS) PERMITTING FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

NAME OF CONTRACTOR: \_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

**CITY PROJECT MANAGER'S STATEMENT**

I HEREBY CERTIFY THAT THE DRAINAGE, GRADING, AND EROSION CONTROL FOR MARKSHEFFEL ROAD - DUBLIN BLVD TO N CAREFREE CIR SHALL BE CONSTRUCTED ACCORDING TO THE DESIGN PRESENTED IN THIS GRADING AND EROSION CONTROL PLAN. I FURTHER UNDERSTAND THAT FIELD CHANGES MUST BE REVIEWED BY THE SWENT REVIEW ENGINEER TO ENSURE CONFORMANCE WITH THE ORIGINAL DESIGN INTENT. I AM EMPLOYED BY AND PERFORM ENGINEERING SERVICES SOLELY FOR THE CITY OF COLORADO SPRINGS, AND THEREFORE AM EXEMPT FROM COLORADO REVISED TITLE 12, ARTICLE 25, PART 1 ACCORDING TO §12-25-103(1), C.R.S.

NAME OF CITY PROJECT MANAGER: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**CITY OF COLORADO SPRINGS GRADING AND EROSION CONTROL REVIEW**

THIS GRADING AND EROSION CONTROL PLAN IS FILED IN ACCORDANCE WITH CITY CODE. THIS PLAN IS REVIEWED IN ACCORDANCE WITH THE STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.

DATE: \_\_\_\_\_

FOR THE SWENT MANAGER

NOTES: \_\_\_\_\_

\_\_\_\_\_



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Print Date: 1/8/2024	Sheet Revisions				MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
File Name: P1-18300HYD_EC_02.00.dgn	Date:	Comments	Init.		GRADING & EROSION CONTROL GENERAL NOTES			
Horiz. Scale: 1:1      Vert. Scale:					No Revisions:	Designer:	TDS	Structure
Unit Information      Unit Leader					Revised:	Detailer:	JAM	Numbers
Project No./Code    PPRTA    10444					Void:	Sheet Subset:	ECP	Subset Sheets: 2 of 38
							Sheet Number <b>2</b>	

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**Structural CCMs**

Structural CCMs that may be potentially used on the project for erosion and sediment control; practices may include:

APPLICATION, CCM	NARRATIVE	CCM PHASING		
		FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
<i>PROTECTION OF EXISTING TREES/LANDSCAPING</i> <i>Fence (plastic)</i>	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.	X	X	
<i>INLET PROTECTION</i> <i>Storm drain inlet protection</i>	Placed prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	X	X	X
<i>CULVERT INLET/OUTLET PROTECTION</i> <i>Sediment control logs, aggregate bags</i>	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	X	X	
<i>STOCKPILE PROTECTION</i> <i>Temporary berm, sediment control logs, aggregate bags</i>	Placed within specified distance from toe to contain sediment around stockpile. Place prior to start of stockpile.		X	
<i>PERIMETER CONTROL</i> <i>Sediment control logs, silt fence, temporary berm, topsoil</i>	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area.	X	X	
<i>CONCRETE WASHOUT</i>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.	X	X	
<i>VEHICLE TRACKING PAD</i>	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.	X	X	

**Non-Structural CCMs**

Non-Structural CCMs/Control Measures that may be potentially used on the project for erosion and sediment control; practices may include:

APPLICATION, CCM	NARRATIVE	CCM PHASING		
		INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION	FINAL STABILIZATION
<i>MULCH</i>	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer		X	X
<i>PERMANENT SEEDING (NATIVE)</i>	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.			X
<i>EROSION CONTROL BLANKET (ECB)</i>	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.		X	X
<i>SWEEPING</i>	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.	X	X	

- Stockpile locations will be determined by the contractor and added to the plans. Stockpile locations will not result in additional land disturbance.
- Location of concrete washout structures to be determined by the contractor and added to the plans.
- Receiving water: Sand Creek East Fork approximately 1.2 miles SE of project.
- Anticipated project sequence:  
 June 2023: Start CCM Silt fence / perimeter control installation  
 June 2023 to Jan 2024: Roadway, storm drain, and water quality construction  
 September 2023 through March 2024: CCM Removal (all CCMs not required for final stabilization)  
 September 2023 through Spring 2024: Final Stabilization  
 March/April 2024: Perimeter CCM Removal



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Date:	Comments	Init.

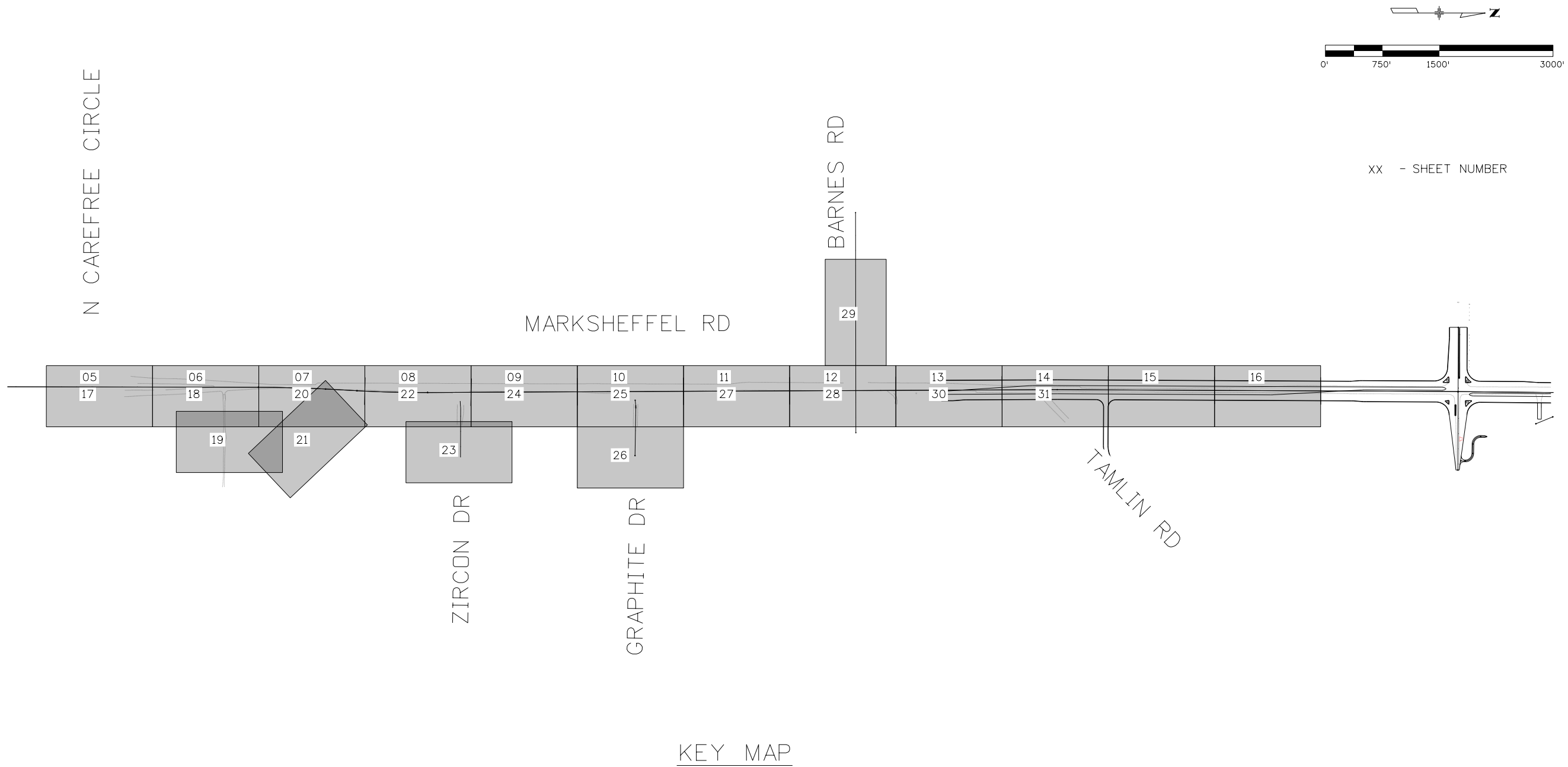
5555 Tech Center Dr  
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 Colorado Springs, CO 80919  
 Phone: 719-633-8805

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR	
GRADING & EROSION CONTROL GENERAL NOTES	
No Revisions:	Designer: TDS    Structure Numbers
Revised:	Detailer: JAM    Subsets
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KEY MAP

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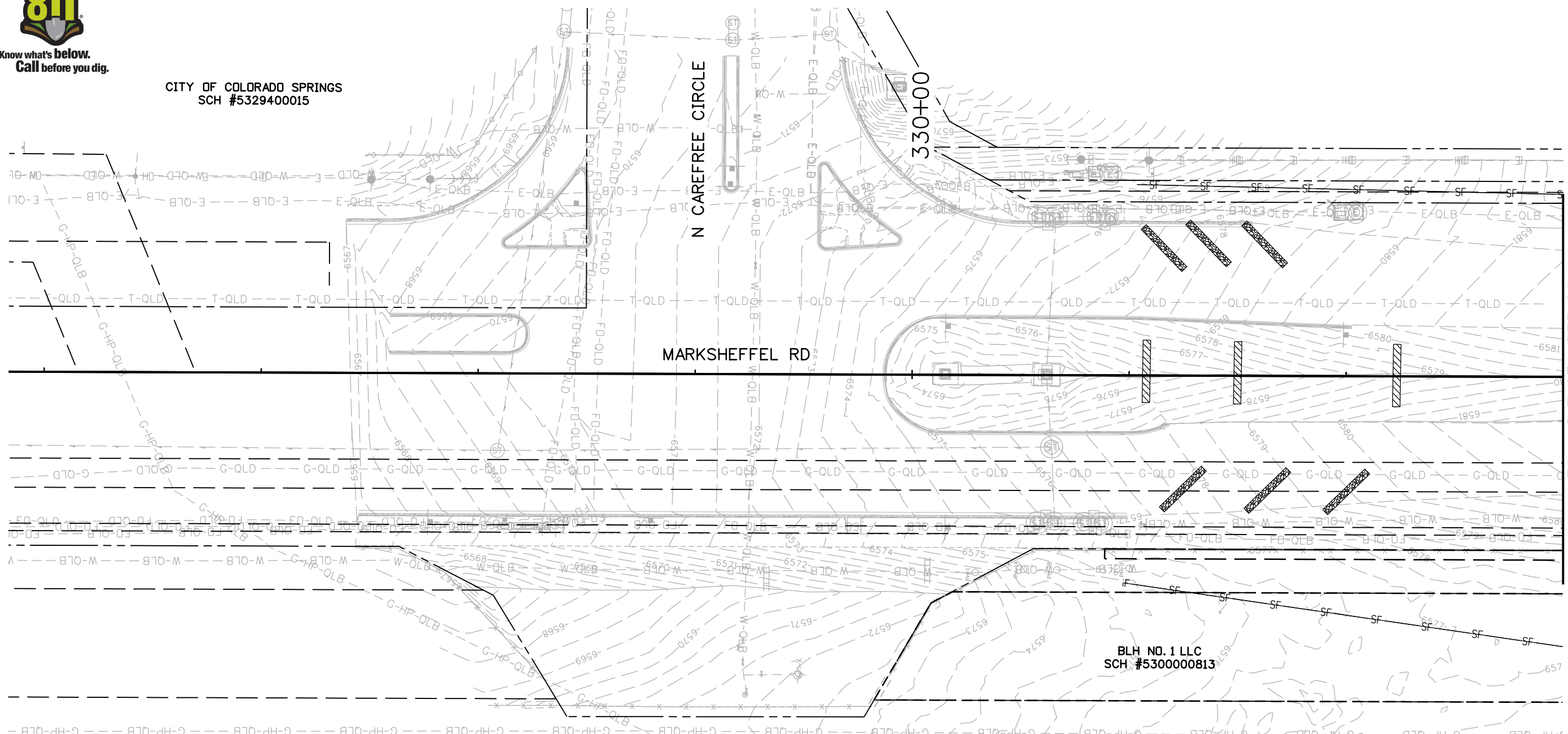
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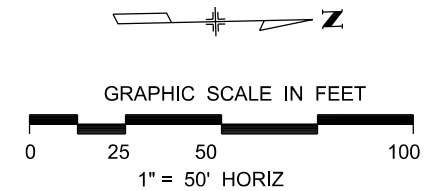


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**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA - LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF - SILT FENCE		PROPOSED STORM SEWER
	IP-4 - SUMP INLET PROTECTION		EXISTING STORM SEWER
	IP-1 - ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
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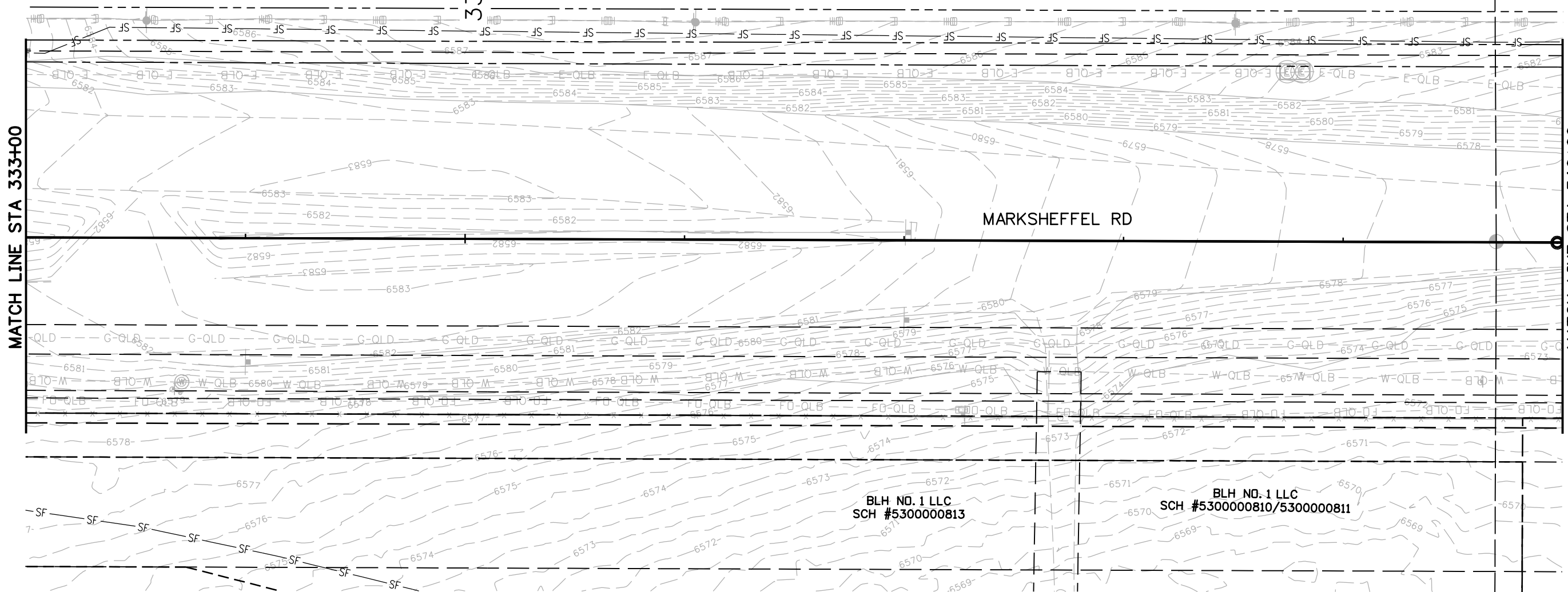
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SCH #5329416011  
WINDERMERE FILING NO 1

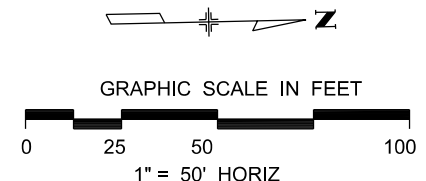
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**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA - LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF - SILT FENCE		PROPOSED STORM SEWER
	IP-4 - SUMP INLET PROTECTION		EXISTING STORM SEWER
	IP-1 - ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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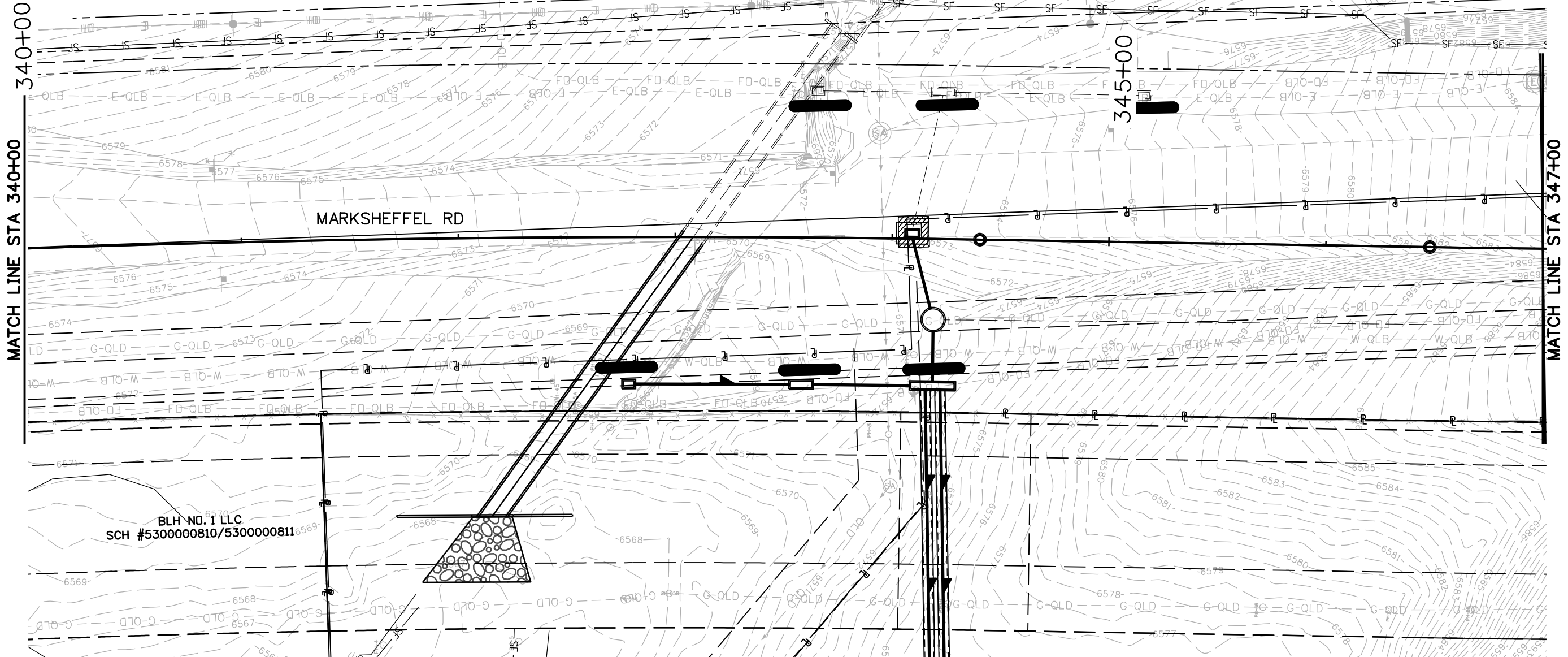
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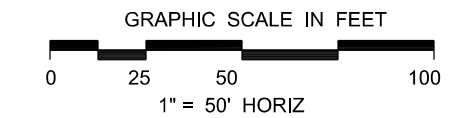
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SCH. #5329111249  
TRACT A, WINDERMERE FILING NO. 1



LEGEND	
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	SF - SILT FENCE
	IP-4 - SUMP INLET PROTECTION
	IP-1 - ON-GRADE INLET PROTECTION
	ROCK SOCK
	SEDIMENT CONTROL LOGS
	PROPOSED STORM SEWER
	EXISTING STORM SEWER
	EXISTING PROPERTY LINE
	ROW LINE
	TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.

BLH NO. 1 LLC  
SCH #530000810/530000811



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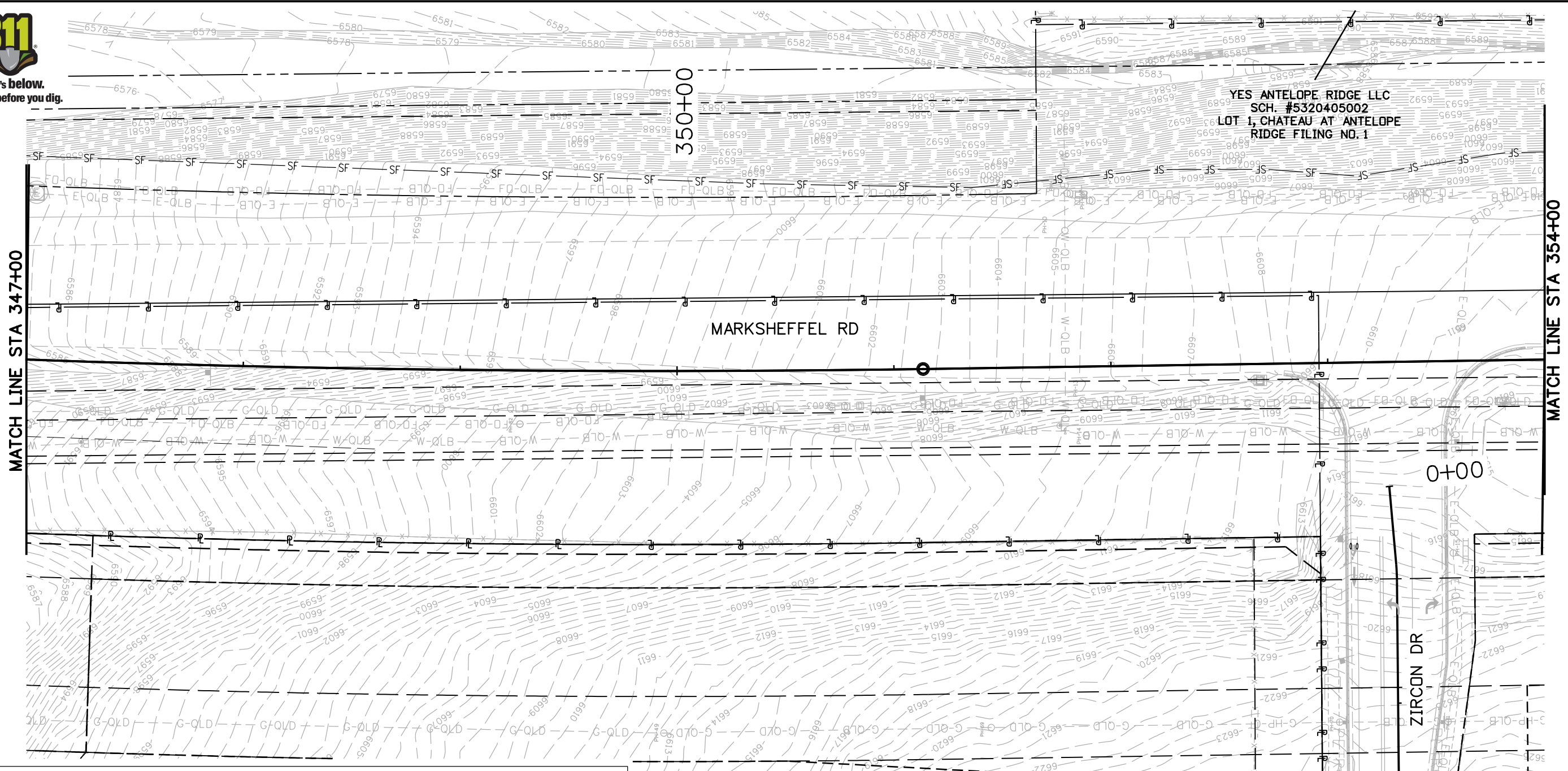
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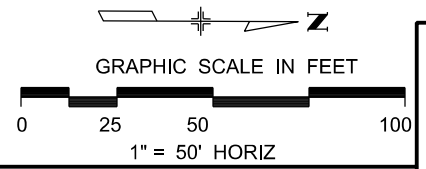
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SCH. #5320405002  
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RIDGE FILING NO. 1

BLH NO. 1 LLC  
SCH #5300000810/5300000811

**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA - LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF - SILT FENCE		PROPOSED STORM SEWER
	IP-4 - SUMP INLET PROTECTION		EXISTING STORM SEWER
	IP-1 - ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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 Revised:  
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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR  
**GRADING AND EROSION CONTROL  
 INITIAL PHASE**

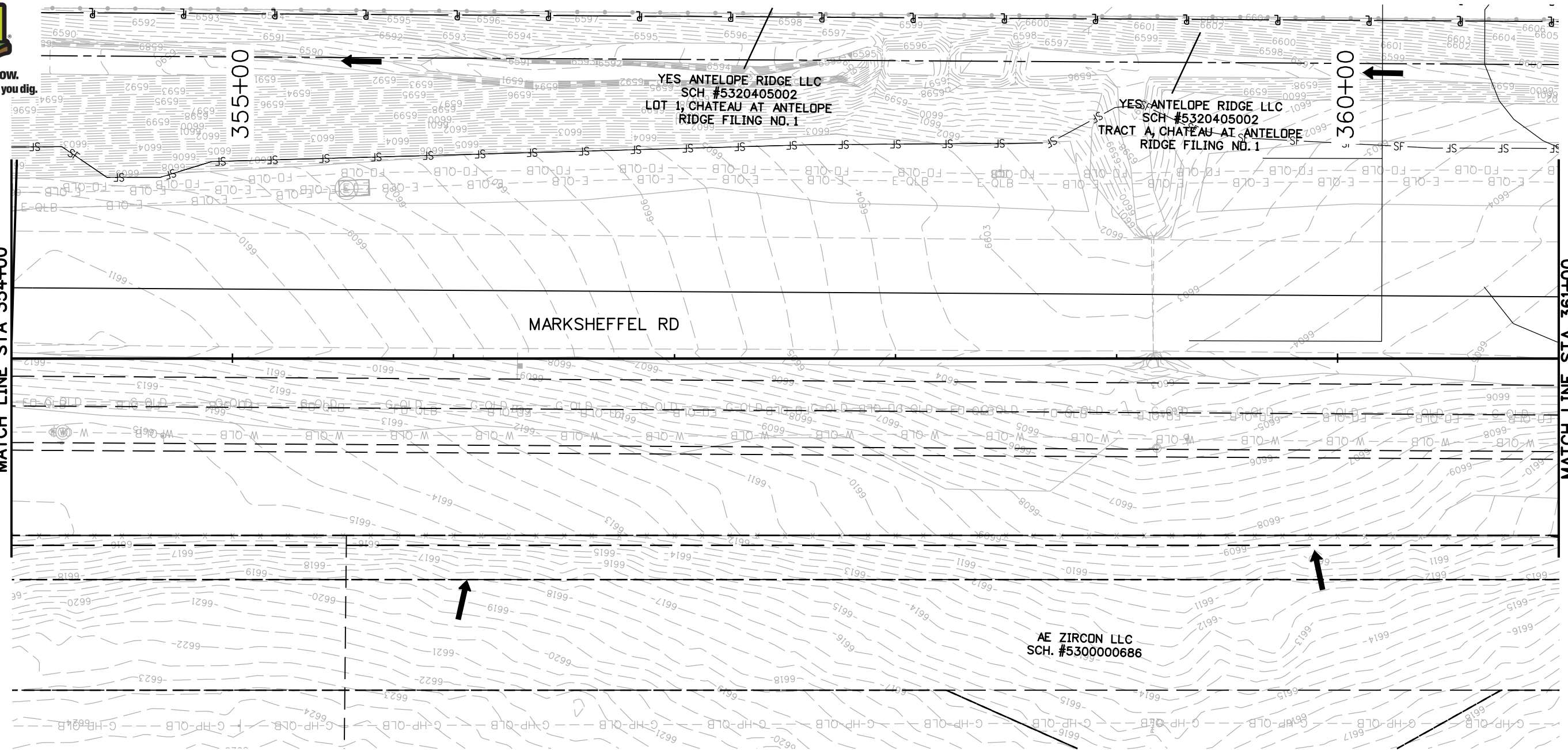
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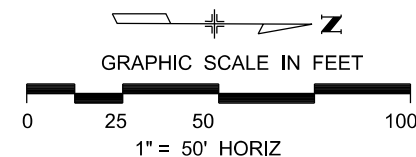
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**LEGEND**




- FLOW DIRECTION
- LDA - LIMITS OF DISTURBED AREA
- SF - SILT FENCE
- IP-4 - SUMP INLET PROTECTION
- IP-1 - ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

5555 Tech Center Dr  
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Phone: 719-633-8805

No Revisions:
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Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 9	of 38

Sheet Number	9
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YES ANTELOPE RIDGE LLC  
SCH #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

MATCH LINE STA 361+00

MATCH LINE STA 368+00

365+00

0+00

MARKSHEFFEL RD

GRAPHITE DR

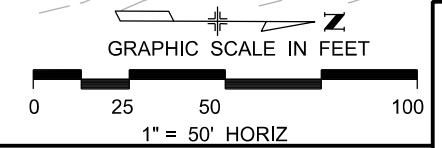
AE ZIRCON LLC  
SCH. #5300000686

FALCON TRUCKING CO.  
SCH. #5300000630

**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA - LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SILT FENCE		PROPOSED STORM SEWER
	SUMP INLET PROTECTION		EXISTING STORM SEWER
	ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Unit Information      Unit Leader
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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 10	of 38

Sheet Number	10
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YES ANTELOPE RIDGE LLC  
SCH #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

370+00

MATCH LINE STA 368+00

MATCH LINE STA 375+00

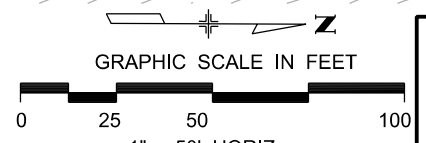
MARKSHEFFEL RD

FALCON TRUCKING CO.  
SCH. #5300000630

**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



Print Date: 1/8/2024  
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 Unit Information      Unit Leader  
 Project No./Code    PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.





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No Revisions:	MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR		
Revised:	GRADING AND EROSION CONTROL INITIAL PHASE		
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	Detailer:	JAM	
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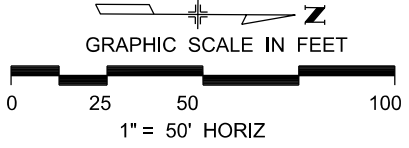
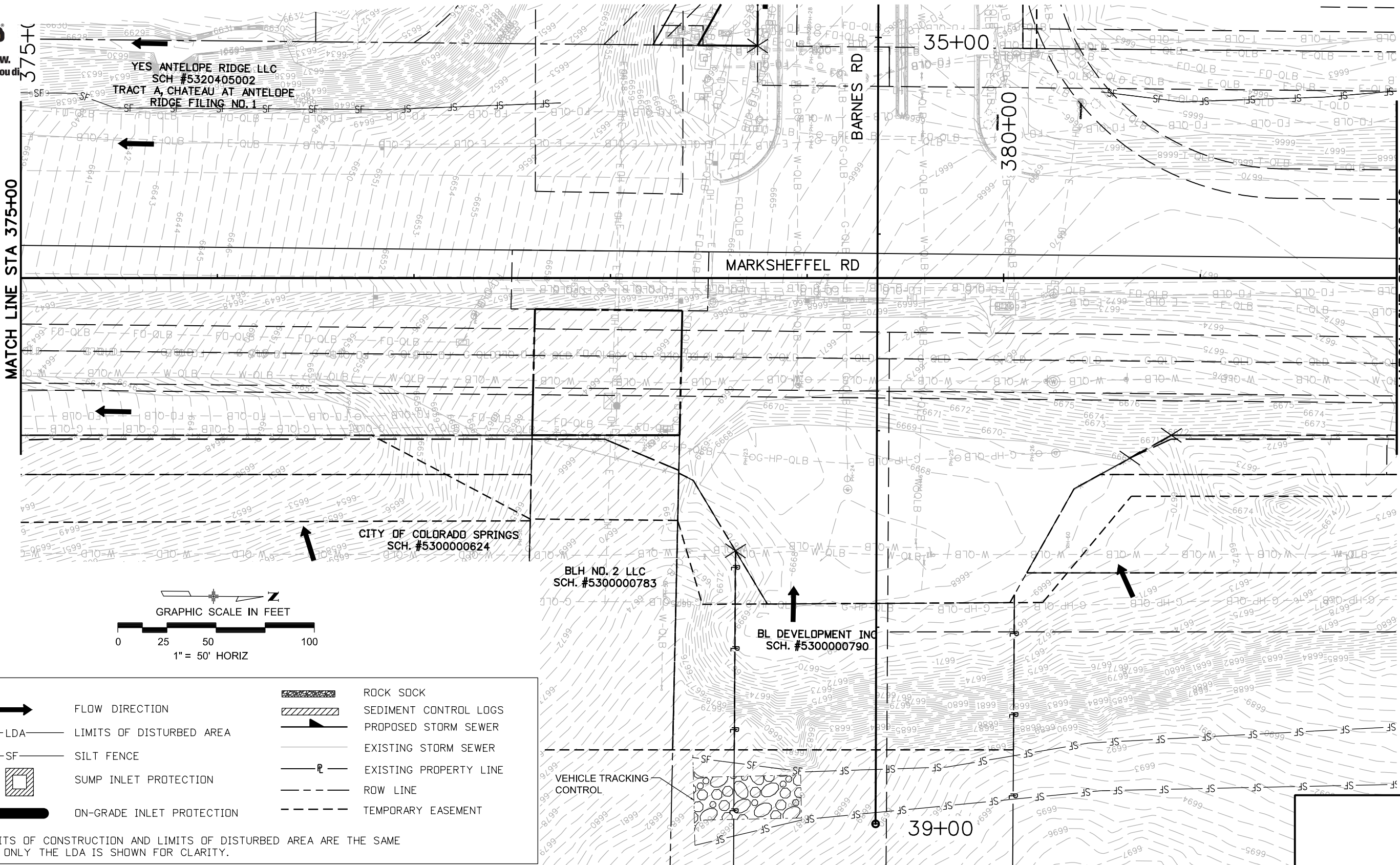
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**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA		SEDIMENT CONTROL LOGS
	SF		PROPOSED STORM SEWER
	IP-4		EXISTING STORM SEWER
	IP-1		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.

Print Date: 1/8/2024  
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 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

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 Void:

**MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR**  
**GRADING AND EROSION CONTROL**  
**INITIAL PHASE**

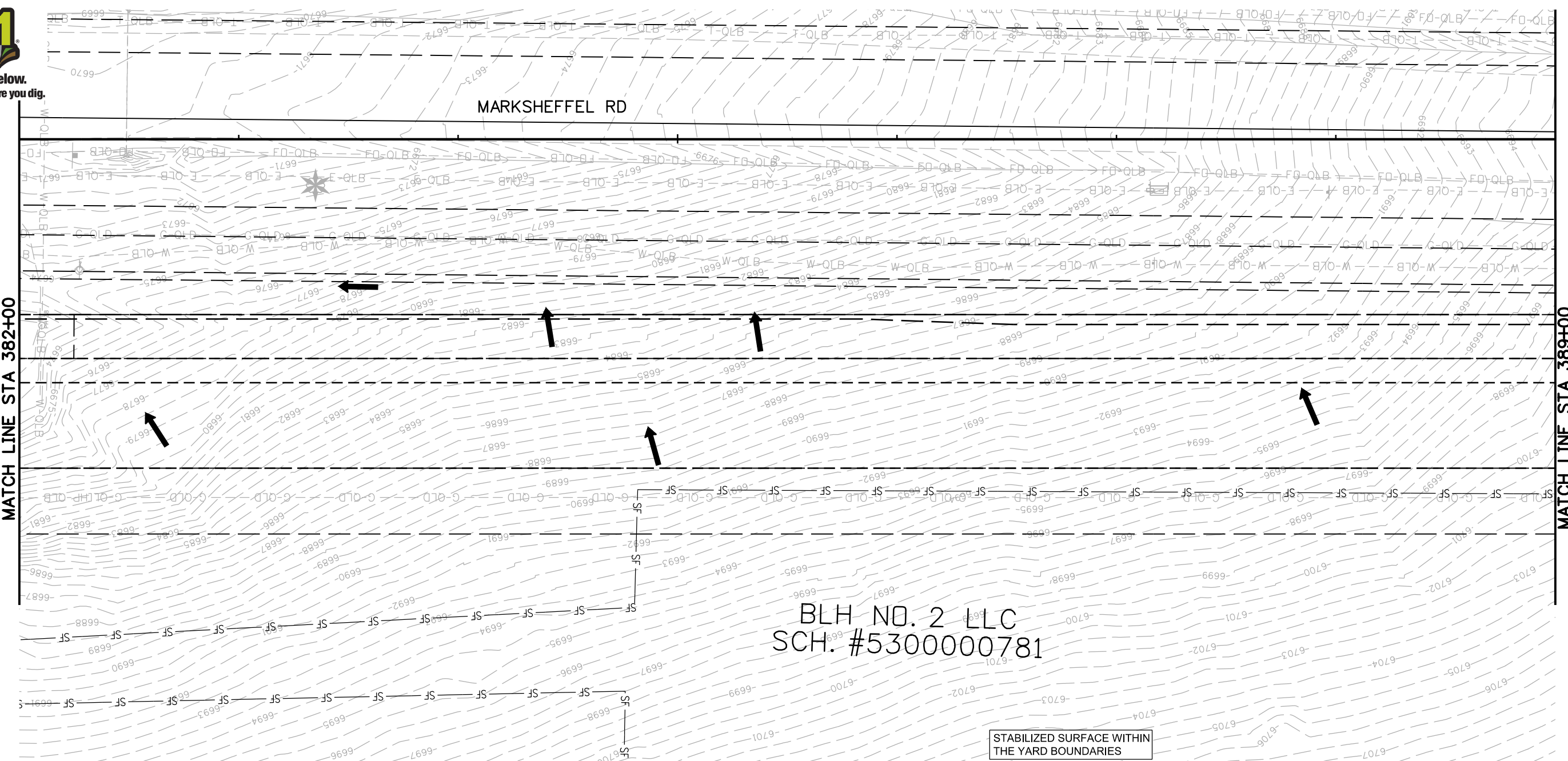
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Sheet Number **12**

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BLH NO. 2 LLC  
SCH. #5300000781

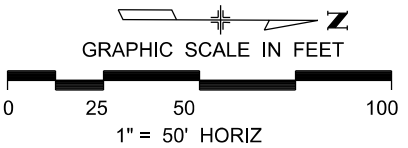
STABILIZED SURFACE WITHIN  
THE YARD BOUNDARIES

TRAILER

**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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File Name: P1-18300HYD_EC_111.01.dgn
Horiz. Scale: 1:50
Unit Information
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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 13	of 38

Sheet Number	13
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EASTVIEW ESTATES HOMEOWNERS  
SCH. NO. 5320116072  
TRACT B, EASTVIEW ESTATES  
FILING NO. 3

MARKSHEFFEL RD

390+00

395+00

MATCH LINE STA 389+00

MATCH LINE STA 396+00

TAMLIN RD

VEHICLE TRACKING CONTROL

BLH NO. 2 LLC  
SCH. #5300000781

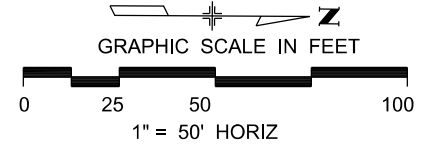
STABILIZED SURFACE WITHIN  
THE YARD BOUNDARIES

TRAILER

**LEGEND**

- FLOW DIRECTION
- LDA - LIMITS OF DISTURBED AREA
- SF - SILT FENCE
- IP-4 - SUMP INLET PROTECTION
- IP-1 - ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 14	of 38

Sheet Number	14
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EASTVIEW ESTATES  
FILING NO. 3

EASTVIEW ESTATES HOMEOWNERS  
SCH. NO. 5320116072  
TRACT B, EASTVIEW ESTATES  
FILING NO. 3

400+00

MATCH LINE STA 396+00

MATCH LINE STA 403+00

MARKSHEFFEL RD

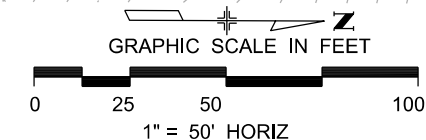
GERALD M. OLESZEK  
SCH. #5321001006  
LOT 2, CANTY SUB.

STETSON HILLS PROPERTY OWNER LLC  
SCH. #5321001005  
LOT 3, CANTY SUB. NO. 2

**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Unit Information	Unit Leader
Project No./Code	PPRTA 10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 15	of 38

Sheet Number	15
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MATCH LINE STA 403+00

405+00

410+00

EASTVIEW ESTATES HOMEOWNER ASSOC.  
SCH. NO. 5320116037  
TRACT B, EASTVIEW ESTATES  
FILING NO. 2

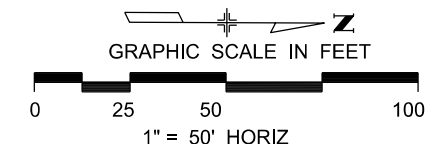
MARKSHEFFEL RD

PNC PARTNERS 80-20 LLC  
SCH. #5321001008  
LOT 1, CANTY SUB. NO. 2

**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



Print Date: 1/8/2024	
File Name: P1-18300HYD_EC_114.01.dgn	
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Unit Information	Unit Leader
Project No./Code	PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.



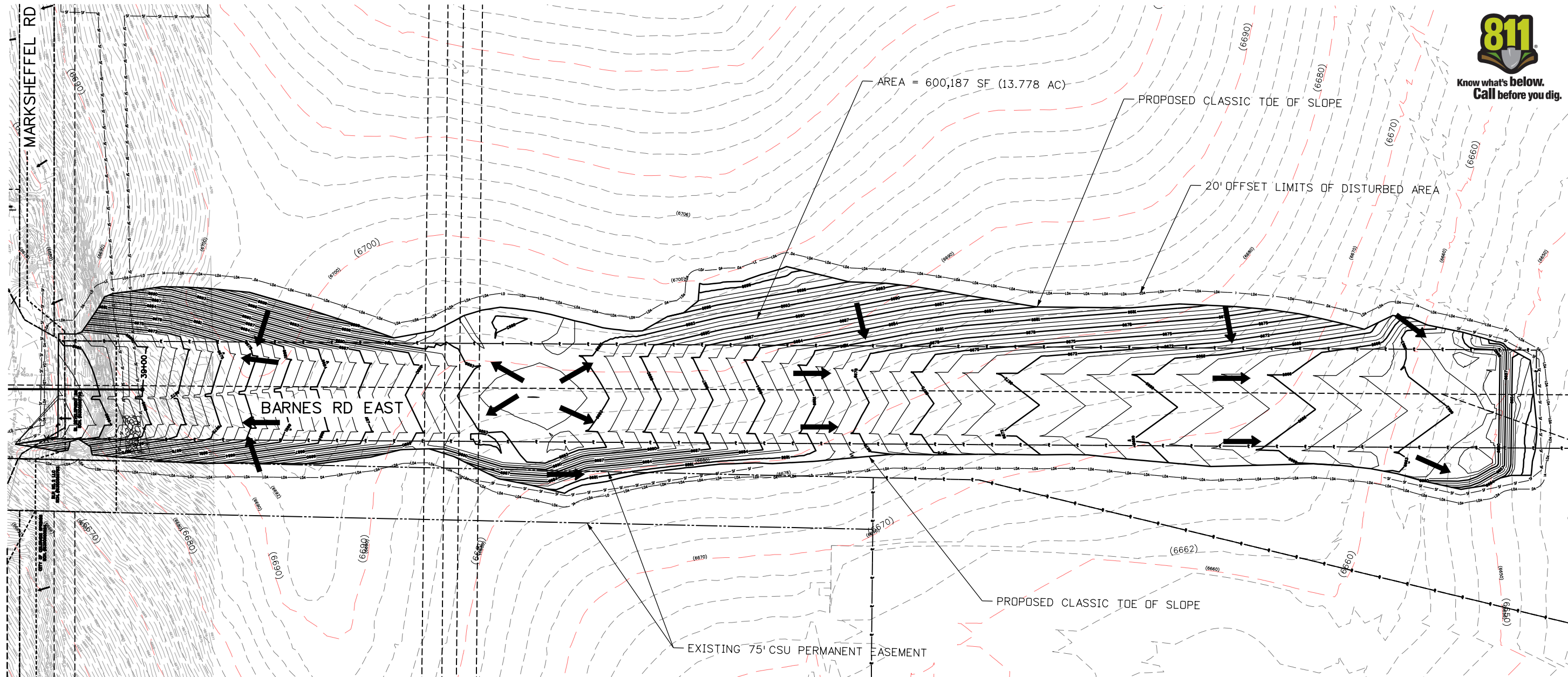
**Jacobs**  
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Phone: 719-633-8805

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Revised:
Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 16	of 38

Sheet Number	16
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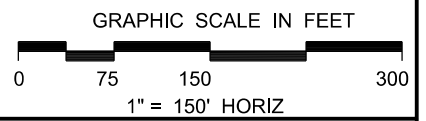
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**LEGEND**

- FLOW DIRECTION
- LDA — LIMITS OF DISTURBED AREA
- SF — SILT FENCE
- IP-4 — SUMP INLET PROTECTION
- IP-1 — ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

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Print Date: 1/8/2024  
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 Project No./Code    PPRTA    10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
Designer:	TDS	Structure Numbers	
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Sheet Subset:	ECP	Subset Sheets: 17 of 38	

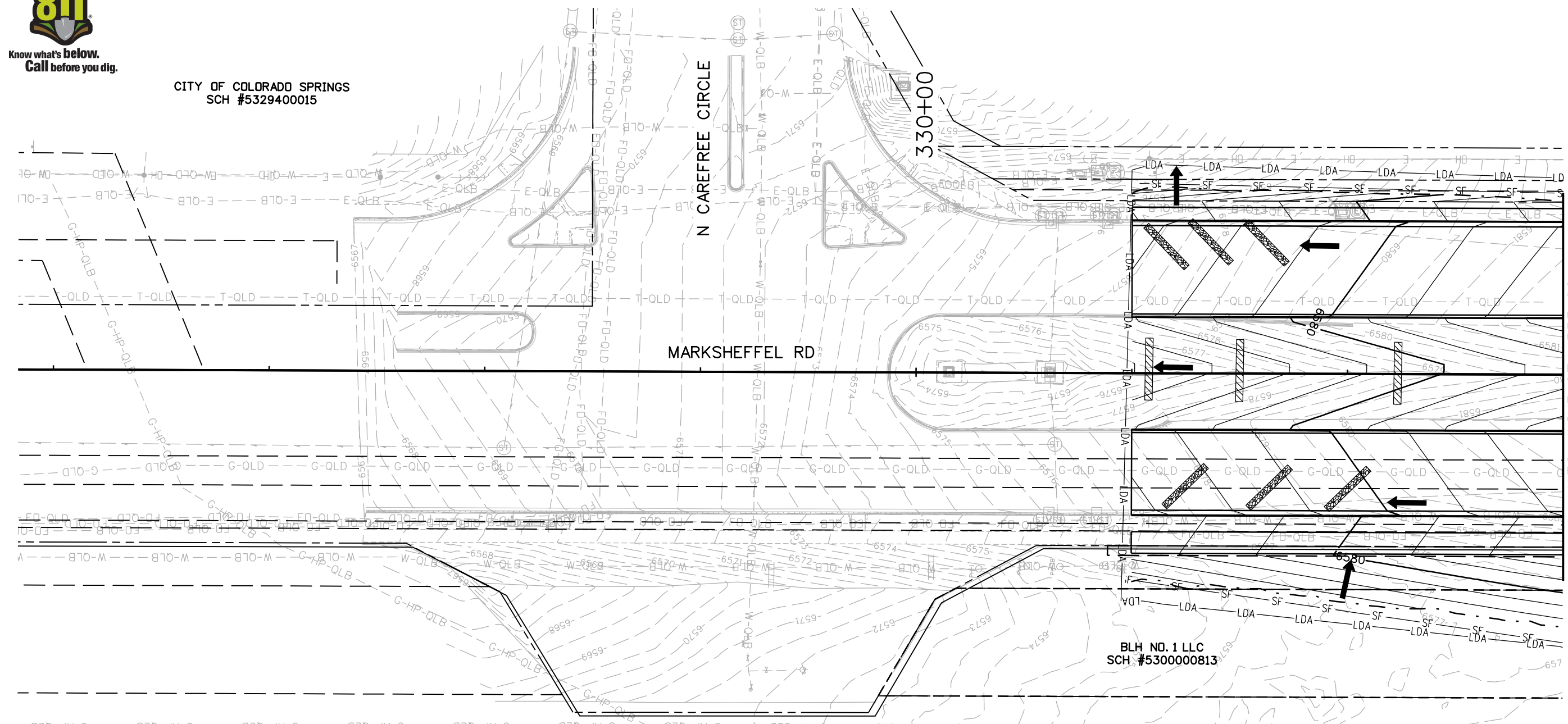
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CITY OF COLORADO SPRINGS  
SCH #5329400015



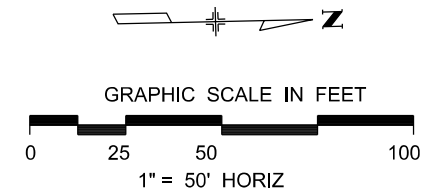
MATCH LINE STA 333+00

BLH NO. 1 LLC  
SCH #5300000813

**LEGEND**

	FLOW DIRECTION		ROCK SOCK
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	SILT FENCE		PROPOSED STORM SEWER
	SUMP INLET PROTECTION		EXISTING STORM SEWER
	ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

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Print Date: 1/8/2024

File Name: P1-18300HYD\_EC\_203.01.dgn

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Unit Information      Unit Leader

Project No./Code    PPRTA    10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure	
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Sheet Subset:	ECP	Subset Sheets:	18 of 38

Sheet Number	18
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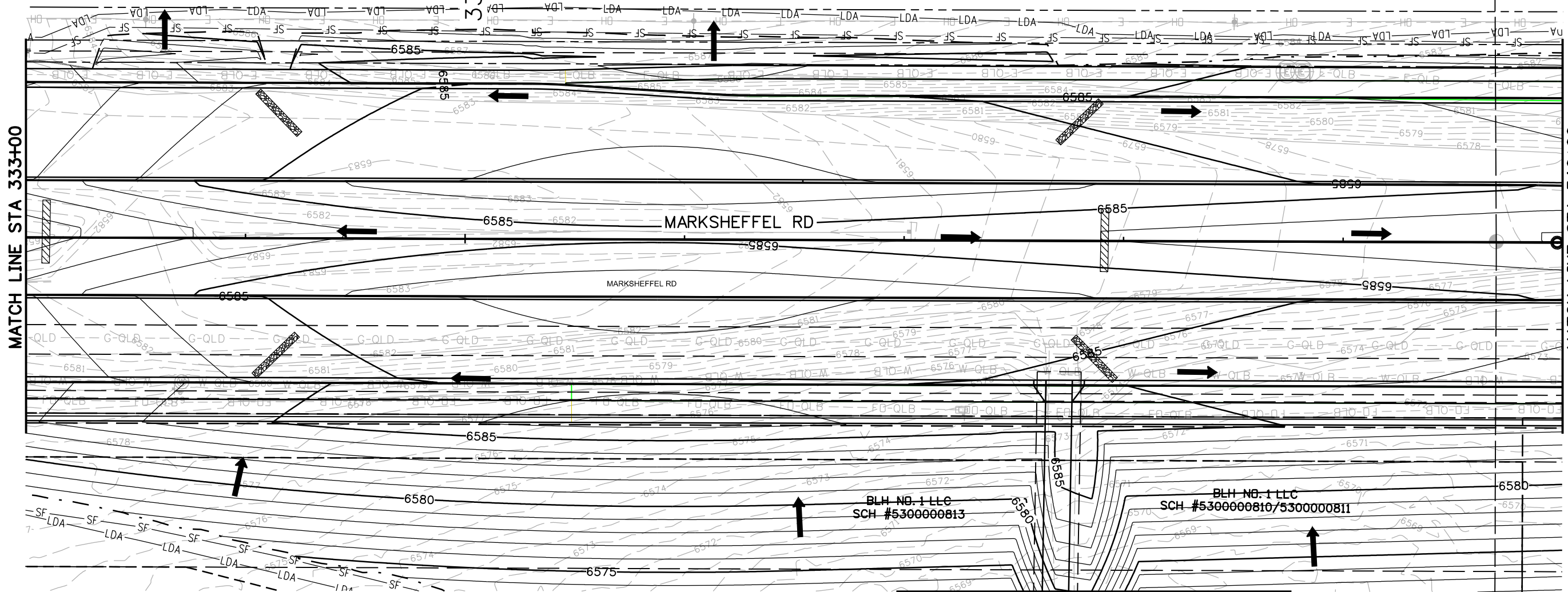
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COLO WINDERMERE #2 LLC  
SCH #5329416011  
WINDERMERE FILING NO 1

335+00



BLH NO. 1 LLC  
SCH #5300000813

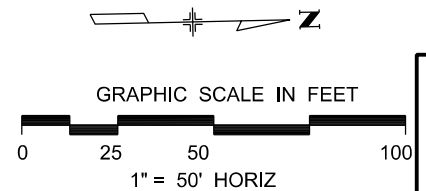
BLH NO. 1 LLC  
SCH #5300000810/5300000811

MATCH LINE SEE SHEET 17

**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA - LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF - SILT FENCE		PROPOSED STORM SEWER
	IP-4 - SUMP INLET PROTECTION		EXISTING STORM SEWER
	IP-1 - ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

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 File Name: P1-18300HYD\_EC\_204.01.dgn  
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 Unit Information      Unit Leader  
 Project No./Code    PPRTA 10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR  
 GRADING AND EROSION CONTROL  
 INTERIM PHASE

Designer: TDS    Structure Numbers  
 Detailer: JAM  
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Sheet Number 19

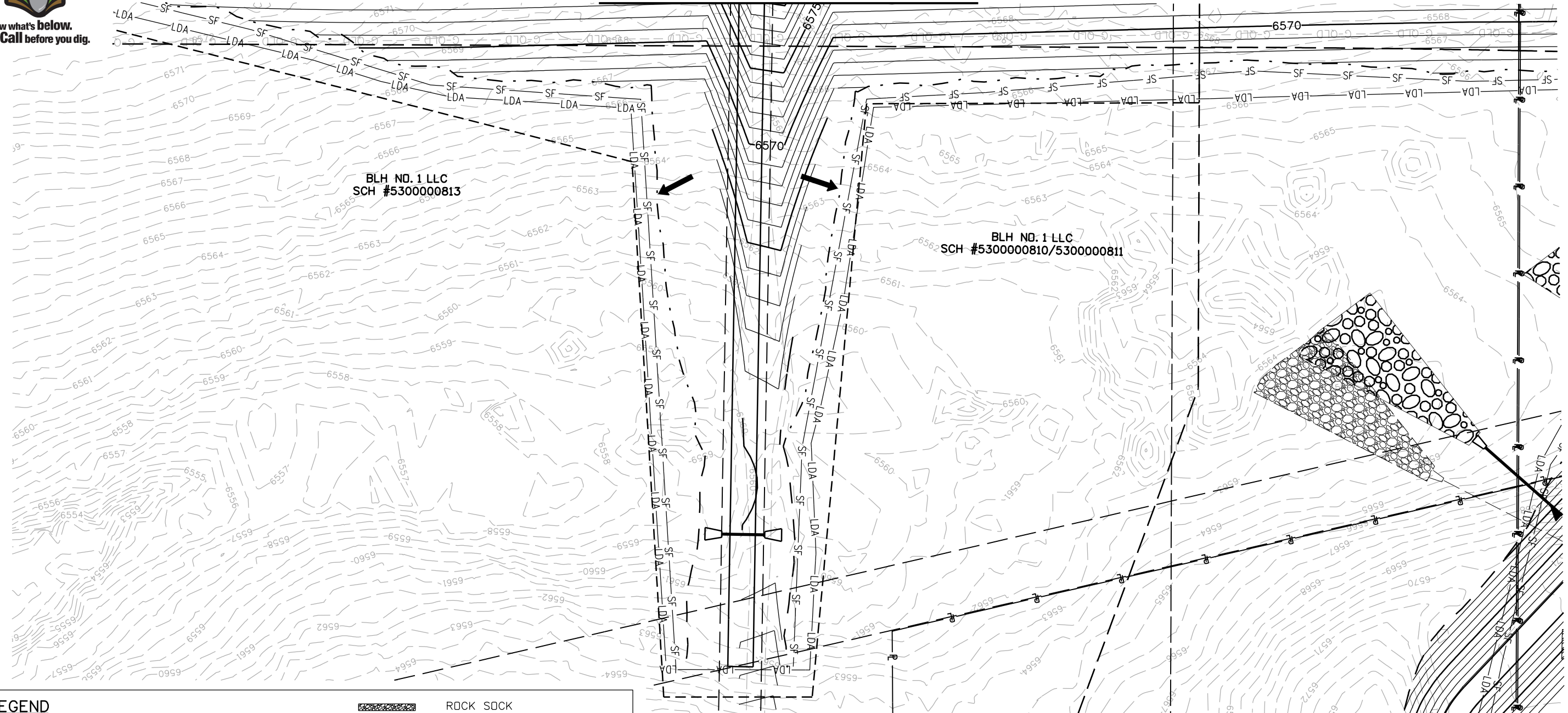
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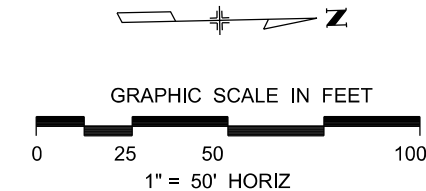
BLH NO. 1 LLC  
SCH #5300000813

BLH NO. 1 LLC  
SCH #5300000810/5300000811

LEGEND

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

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File Name: P1-18300HYD\_EC\_204.02.dgn

Horiz. Scale: 1:50      Vert. Scale:

Unit Information      Unit Leader

Project No./Code    PPRTA    10444

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Date:	Comments	Init.



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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR

**GRADING AND EROSION CONTROL INTERIM PHASE**

Designer:	TDS	Structure Numbers	
Detailer:	JAM		
Sheet Subset:	ECP	Subset Sheets: 20 of 38	

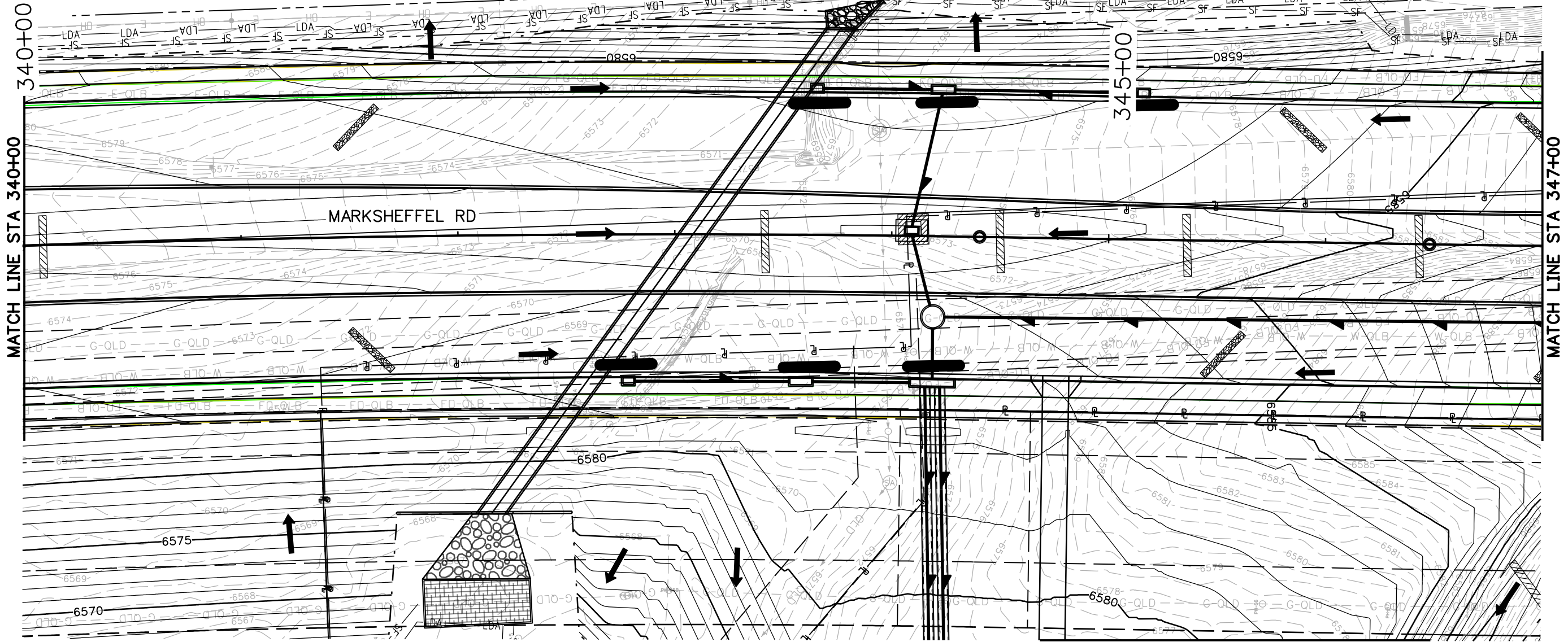
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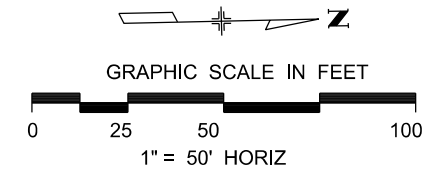
EAGLE DEVELOPMENT COMPANY  
SCH. #5329111249  
TRACT A, WINDERMERE FILING NO. 1



**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA - LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF - SILT FENCE		PROPOSED STORM SEWER
	IP-4 - SUMP INLET PROTECTION		EXISTING STORM SEWER
	IP-1 - ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



Print Date: 1/8/2024  
 File Name: P1-18300HYD\_EC\_205.01.dgn  
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 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

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 Revised:  
 Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR  
 GRADING AND EROSION CONTROL  
 INTERIM PHASE

Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets:	21 of 38

Sheet Number **21**

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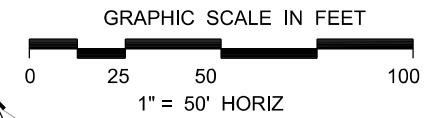
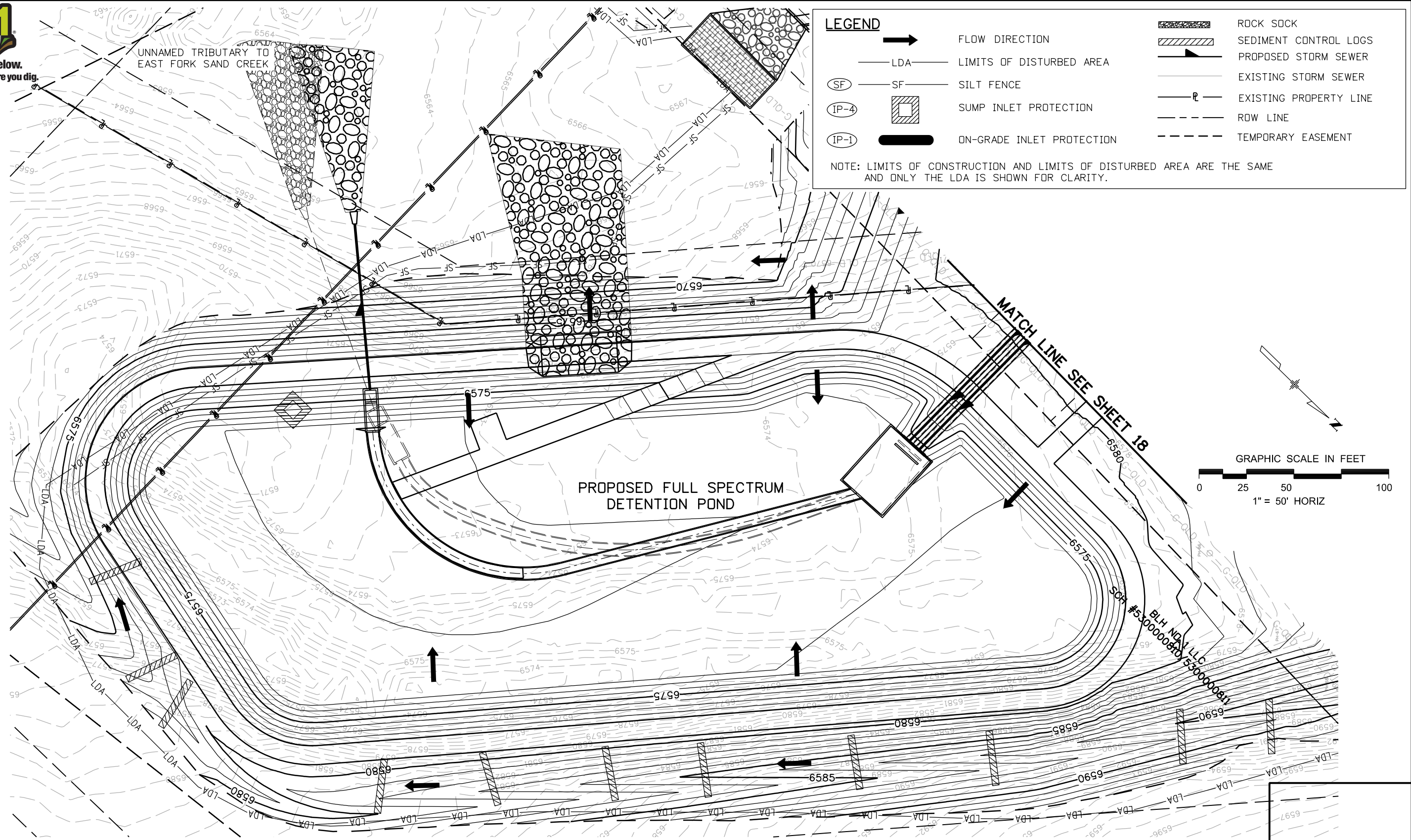
Know what's below.  
Call before you dig.

UNNAMED TRIBUTARY TO  
EAST FORK SAND CREEK

### LEGEND

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Print Date: 1/8/2024
File Name: P1-18300HYD_EC_205.02.dgn
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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

**Jacobs**  
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Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets:	22 of 38

Sheet Number	22
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YES ANTELOPE RIDGE LLC  
SCH. #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

MATCH LINE STA 347+00

350+00

MATCH LINE STA 354+00

MARKSHEFFEL RD

ZIRCON DR

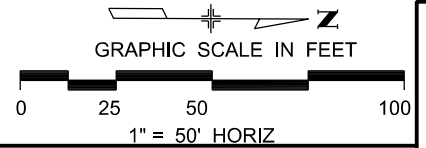
MATCH LINE SEE SHEET 20

**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SILT FENCE		PROPOSED STORM SEWER
	SUMP INLET PROTECTION		EXISTING STORM SEWER
	ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.

BLH NO. 1 LLC  
SCH #5300000810/5300000811



Print Date: 1/8/2024

File Name: P1-18300HYD\_EC\_206.01.dgn

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Unit Information      Unit Leader

Project No./Code    PPRTA    10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR

**GRADING AND EROSION CONTROL INTERIM PHASE**

Designer:	TDS	Structure Numbers	
Detailer:	JAM		
Sheet Subset:	ECP	Subset Sheets: 23 of 38	

Sheet Number 23

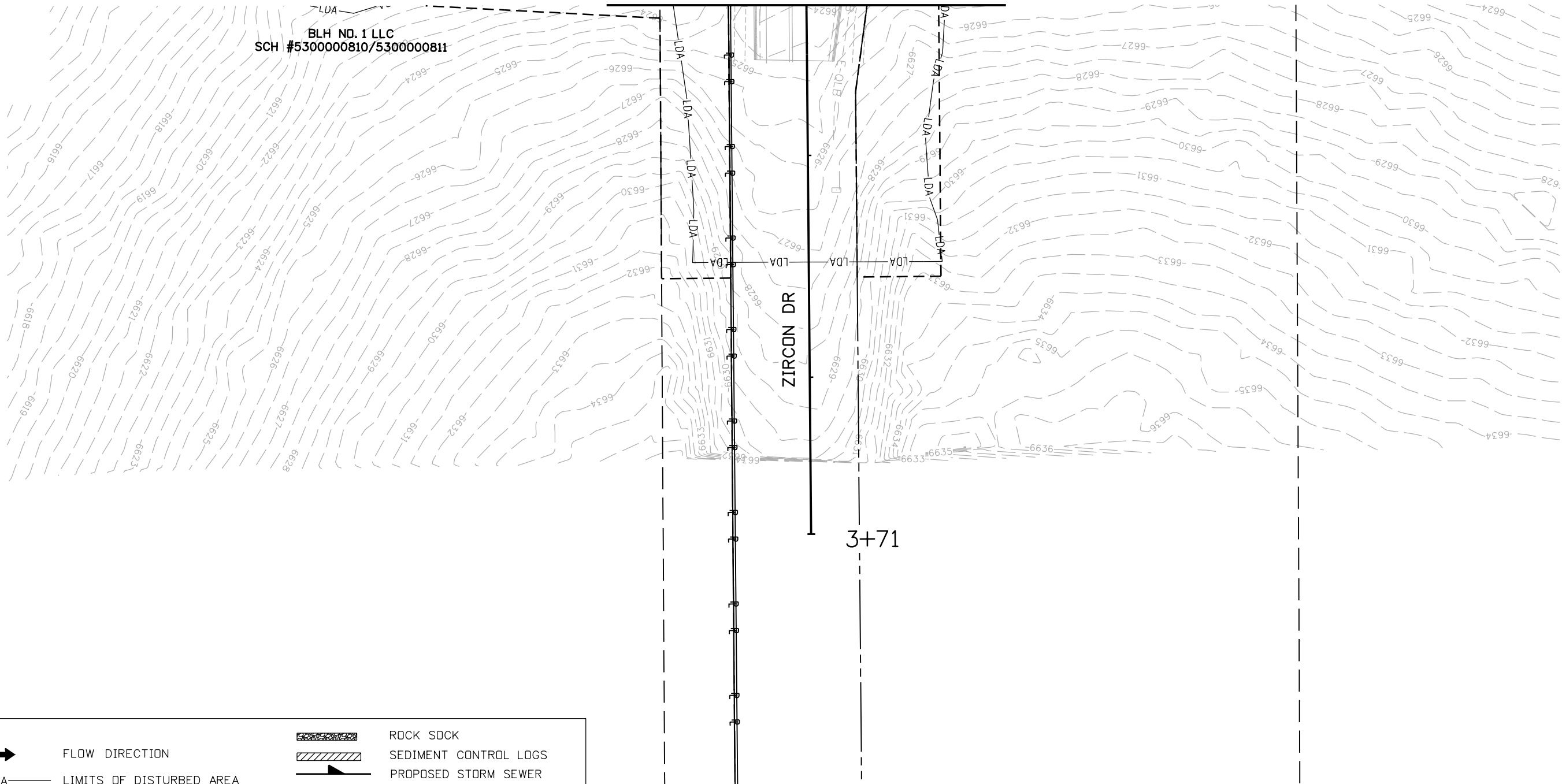
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MATCH LINE SEE SHEET 19

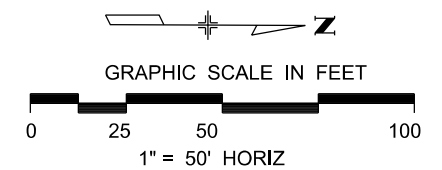
BLH NO. 1 LLC  
SCH #5300000810/5300000811



**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



Print Date: 1/8/2024
File Name: P1-18300HYD_EC_206.02.dgn
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Unit Information
Project No./Code PPRTA 10444

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Date:	Comments	Init.

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Void:

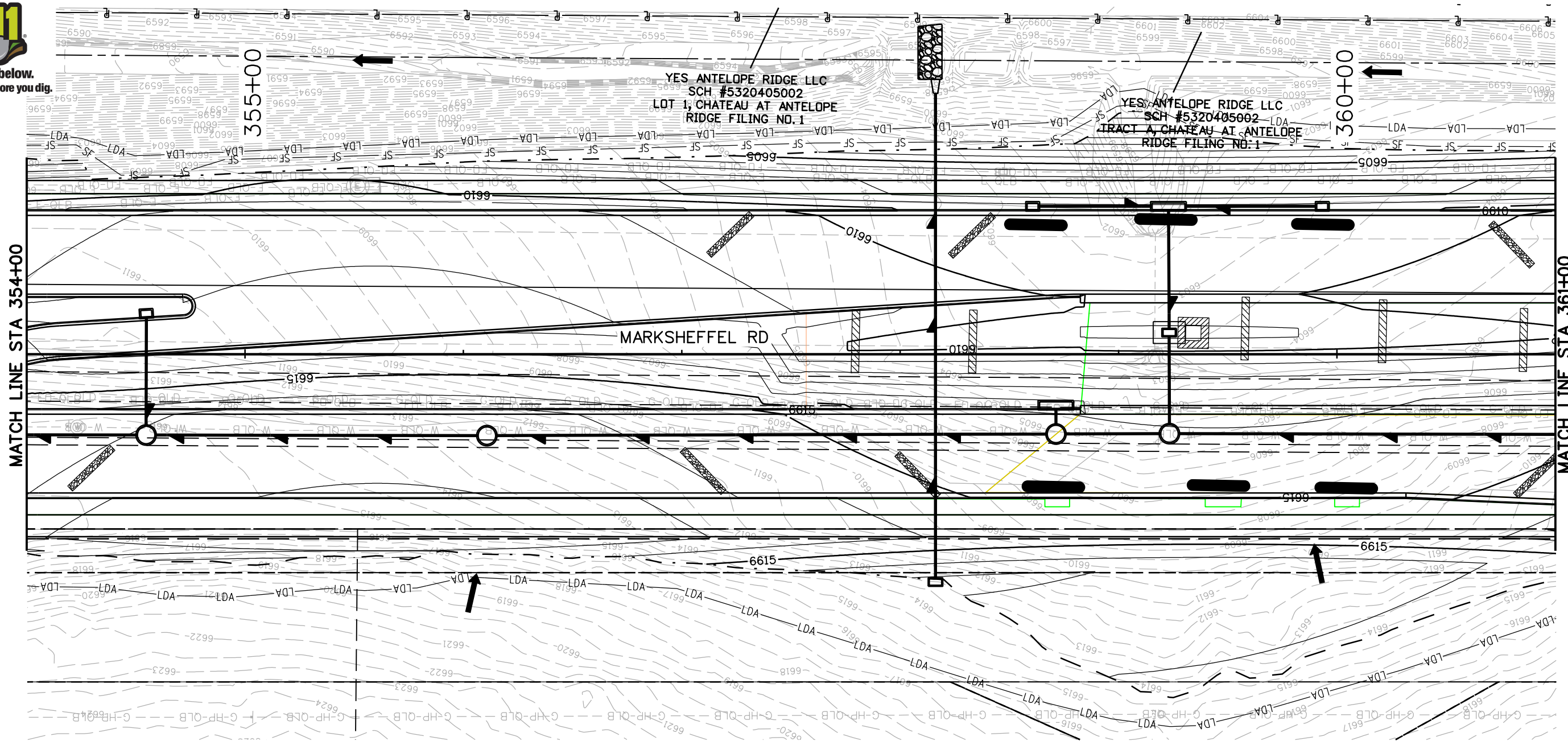
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GRADING AND EROSION CONTROL INTERIM PHASE			
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Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 24 of 38	

Sheet Number	24
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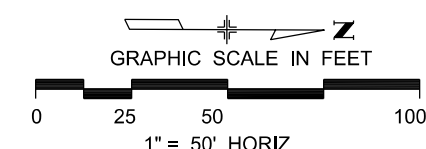


**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA — LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF — SILT FENCE		PROPOSED STORM SEWER
	IP-4 — SUMP INLET PROTECTION		EXISTING STORM SEWER
	IP-1 — ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.

AE ZIRCON LLC  
SCH. #530000686



Print Date: 1/8/2024  
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 Project No./Code    PPRTA 10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR  
**GRADING AND EROSION CONTROL  
 INTERIM PHASE**

Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets:	25 of 38

Sheet Number **25**

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YES ANTELOPE RIDGE LLC  
SCH #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

AE ZIRCON LLC  
SCH. #5300000686

MATCH LINE STA 361+00

MATCH LINE STA 368+00

365+00

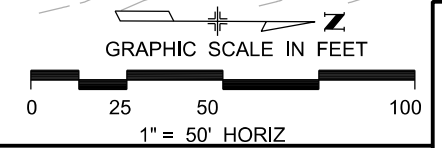
00+00

MATCH LINE STA 2+00  
SEE SHEET 23

**LEGEND**

- FLOW DIRECTION
- LDA - LIMITS OF DISTURBED AREA
- SF - SILT FENCE
- IP-4 - SUMP INLET PROTECTION
- IP-1 - ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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File Name: P1-18300HYD_EC_208.01.dgn
Horiz. Scale: 1:50
Unit Information
Project No./Code PPRTA 10444

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Date:	Comments	Init.

5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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Revised:
Void:

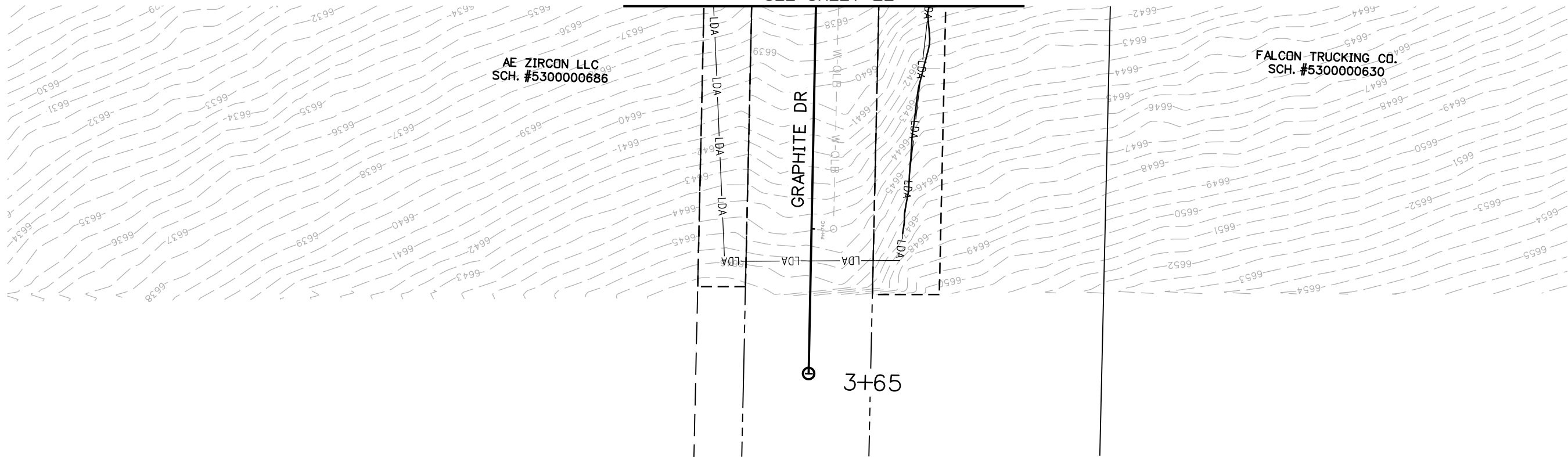
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GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
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Sheet Number	26
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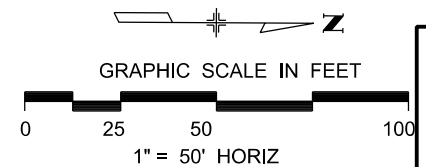
MATCH LINE STA 2+00  
SEE SHEET 22



**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF SILT FENCE		PROPOSED STORM SEWER
	SUMP INLET PROTECTION		EXISTING STORM SEWER
	ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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File Name: P1-18300HYD_EC_208.02.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure Numbers	
Detailer:	JAM	Structure Numbers	
Sheet Subset:	ECP	Subset Sheets: 27 of 38	

Sheet Number	27
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YES ANTELOPE RIDGE LLC  
SCH #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

370+00

MATCH LINE STA 368+00

MATCH LINE STA 375+00

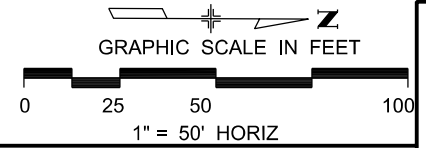
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FALCON TRUCKING CD.  
SCH. #5300000630

**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Unit Information	Unit Leader
Project No./Code	PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.





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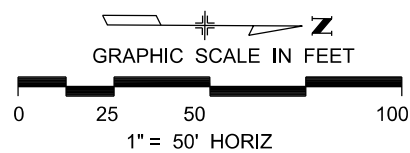
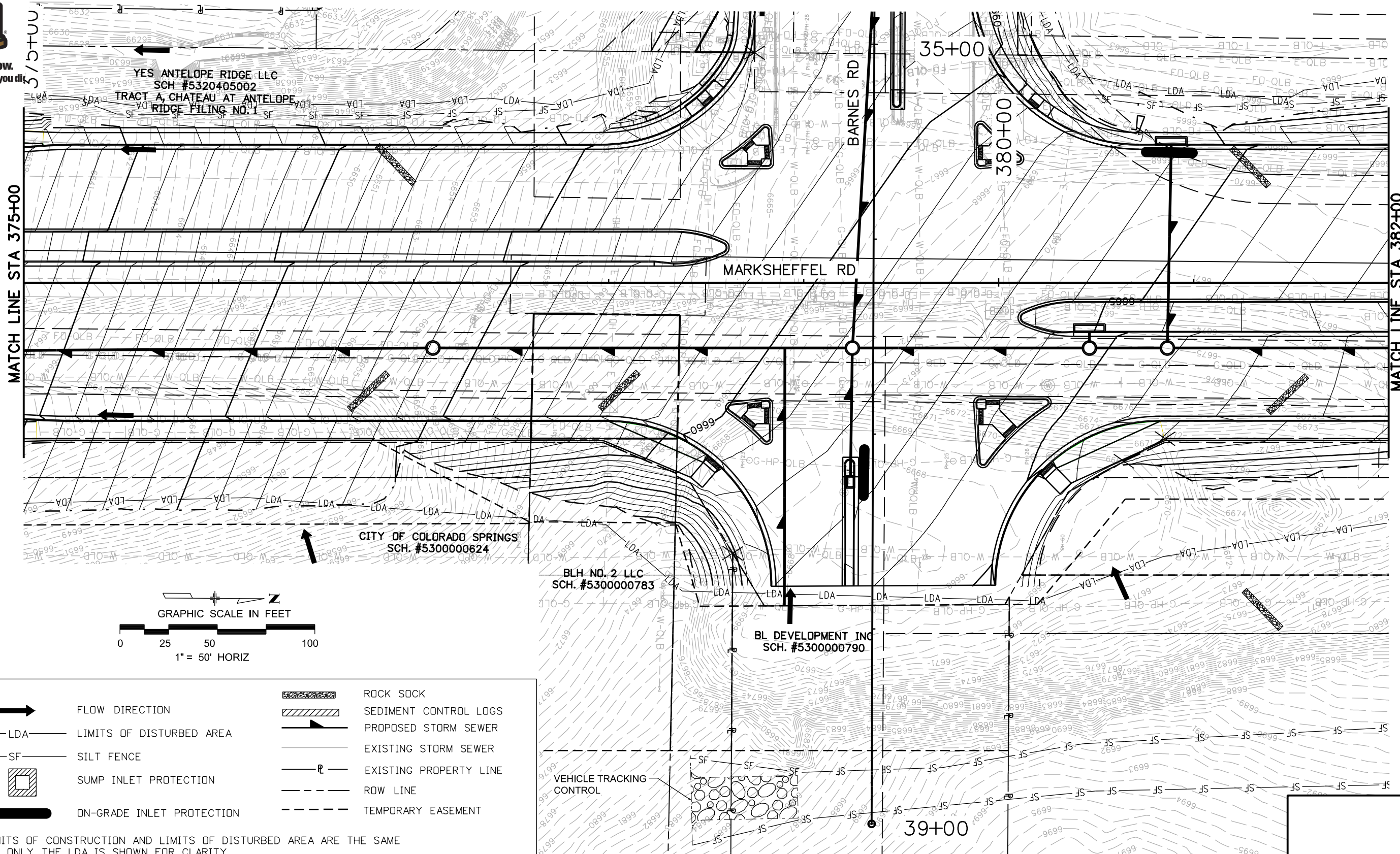
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GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 28 of 38	

Sheet Number	28
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**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT
- VEHICLE TRACKING CONTROL

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.

Print Date: 1/8/2024
File Name: P1-18300HYD_EC_210.01.dgn
Horiz. Scale: 1:50
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets: 29 of 38	Sheet Number 29

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YES ANTELOPE RIDGE LLC  
SCH #5320405001  
TRACT B, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

CD MARKSHEFFEL & BARNES LLC  
SCH. #5320414003  
LOT 3, WILLOWIND COMMERCIAL

CD MARKSHEFFEL & BARNES LLC  
SCH. #5320414002  
LOT 2, WILLOWIND COMMERCIAL

CD MARKSHEFFEL & BARNES LLC  
SCH. #5320414001  
LOT 1, WILLOWIND COMMERCIAL

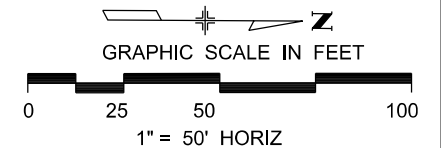
BARNES RD

MATCH LINE STA 35+00 SEE SHEET 25

LEGEND

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.



**Jacobs**  
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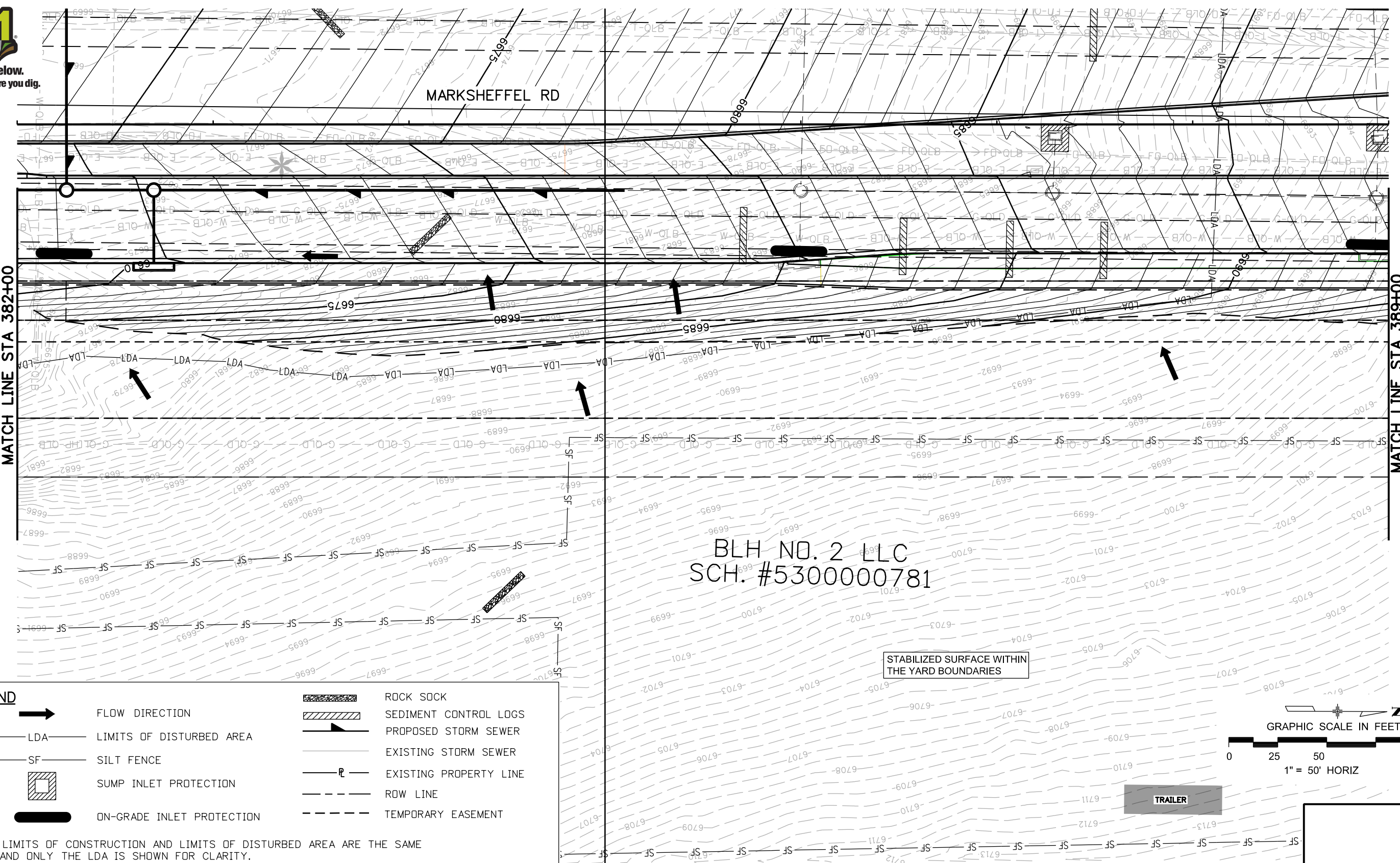
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Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	ECP	Subset Sheets:30	of 38

Sheet Number	30
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BLH NO. 2 LLC  
SCH. #5300000781

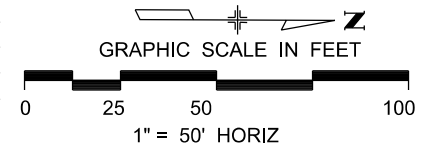
STABILIZED SURFACE WITHIN  
THE YARD BOUNDARIES

TRAILER

**LEGEND**

- FLOW DIRECTION
- LDA LIMITS OF DISTURBED AREA
- SF SILT FENCE
- IP-4 SUMP INLET PROTECTION
- IP-1 ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



Print Date: 1/8/2024  
 File Name: P1-18300HYD\_EC\_211.01.dgn  
 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
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No Revisions:	MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR		
Revised:	GRADING AND EROSION CONTROL INTERIM PHASE		
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Know what's below.  
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EASTVIEW ESTATES HOMEOWNERS  
SCH. NO. 5320116072  
TRACT B, EASTVIEW ESTATES  
FILING NO. 3

MARKSHEFFEL RD

TAMLIN RD

VEHICLE TRACKING CONTROL

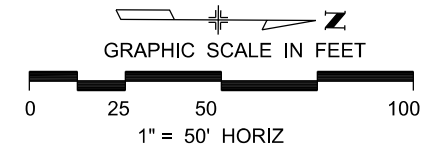
STABILIZED SURFACE WITHIN THE YARD BOUNDARIES

TRAILER

**LEGEND**

- FLOW DIRECTION
- LDA - LIMITS OF DISTURBED AREA
- SF - SILT FENCE
- IP-4 - SUMP INLET PROTECTION
- IP-1 - ON-GRADE INLET PROTECTION
- ROCK SOCK
- SEDIMENT CONTROL LOGS
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING PROPERTY LINE
- ROW LINE
- TEMPORARY EASEMENT

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Unit Information
Project No./Code PPRTA 10444

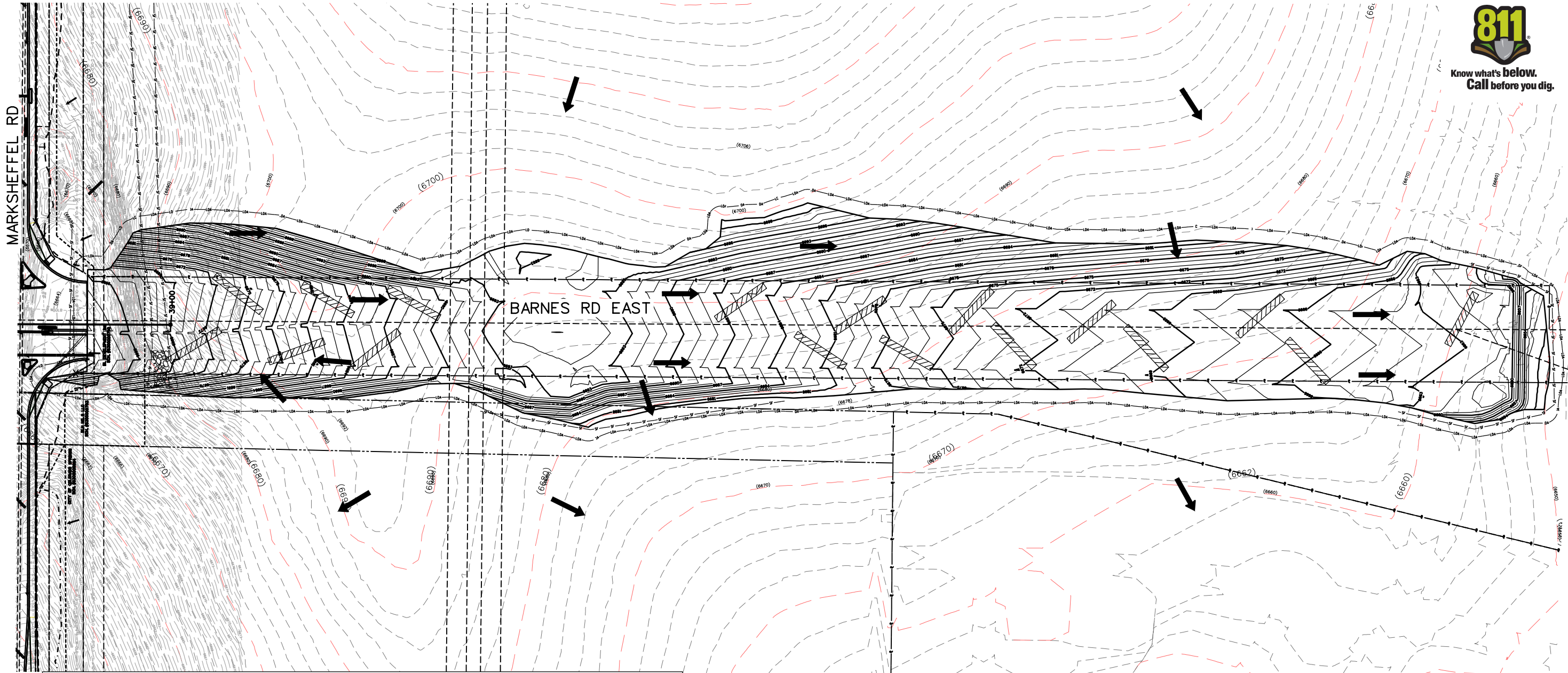
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Date:	Comments	Init.

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Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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Revised:
Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INTERIM PHASE			
Designer:	TDS	Structure	
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Sheet Subset:	ECP	Subset Sheets:	32 of 38

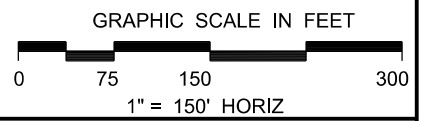
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**LEGEND**

	FLOW DIRECTION		ROCK SOCK
	LDA — LIMITS OF DISTURBED AREA		SEDIMENT CONTROL LOGS
	SF — SILT FENCE		PROPOSED STORM SEWER
	SUMP INLET PROTECTION		EXISTING STORM SEWER
	ON-GRADE INLET PROTECTION		EXISTING PROPERTY LINE
			ROW LINE
			TEMPORARY EASEMENT

NOTE: LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBED AREA ARE THE SAME AND ONLY THE LDA IS SHOWN FOR CLARITY.



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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
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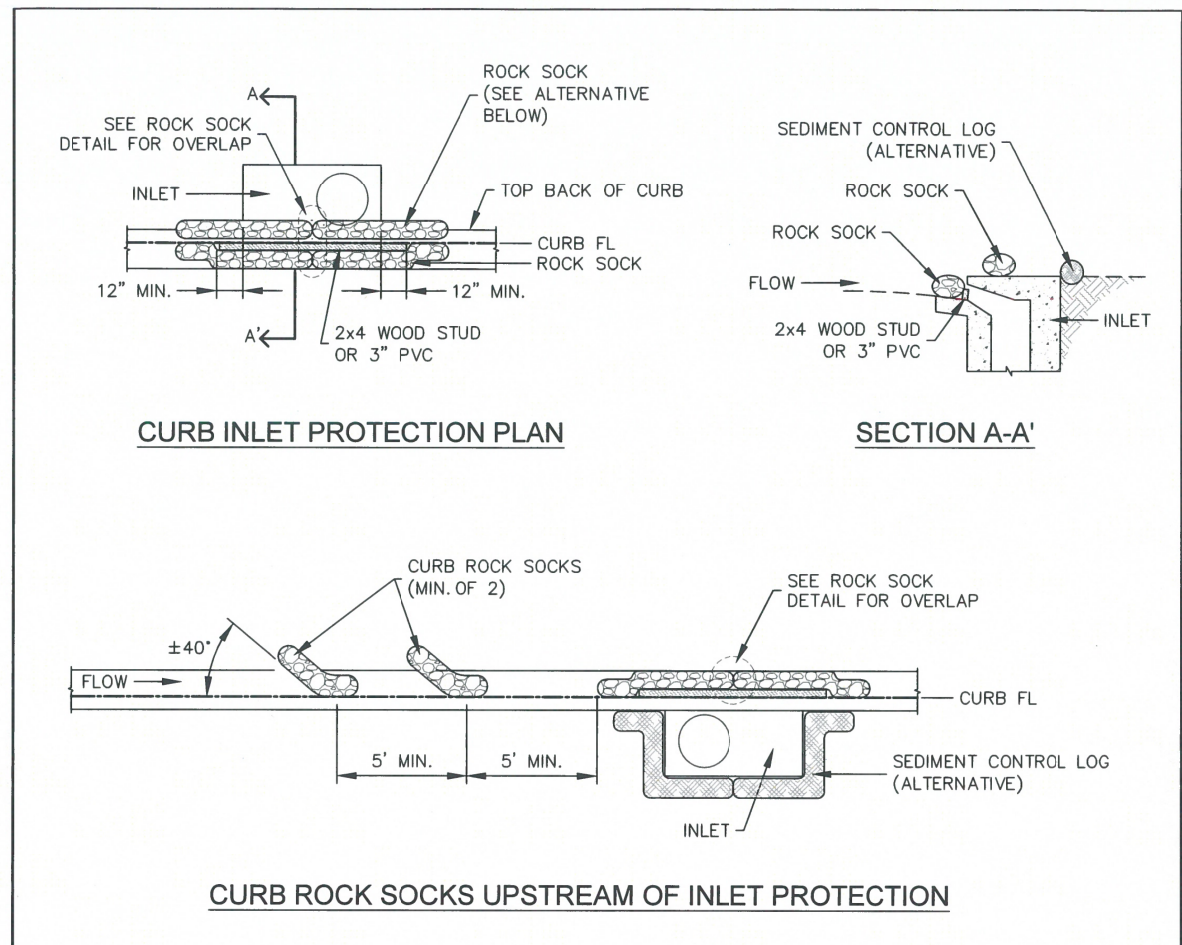
**Jacobs**  
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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING AND EROSION CONTROL INITIAL PHASE			
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Detailer:	JAM		
Sheet Subset:	ECP	Subset Sheets: 33 of 38	

Sheet Number	33
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**INSTALLATION NOTES**

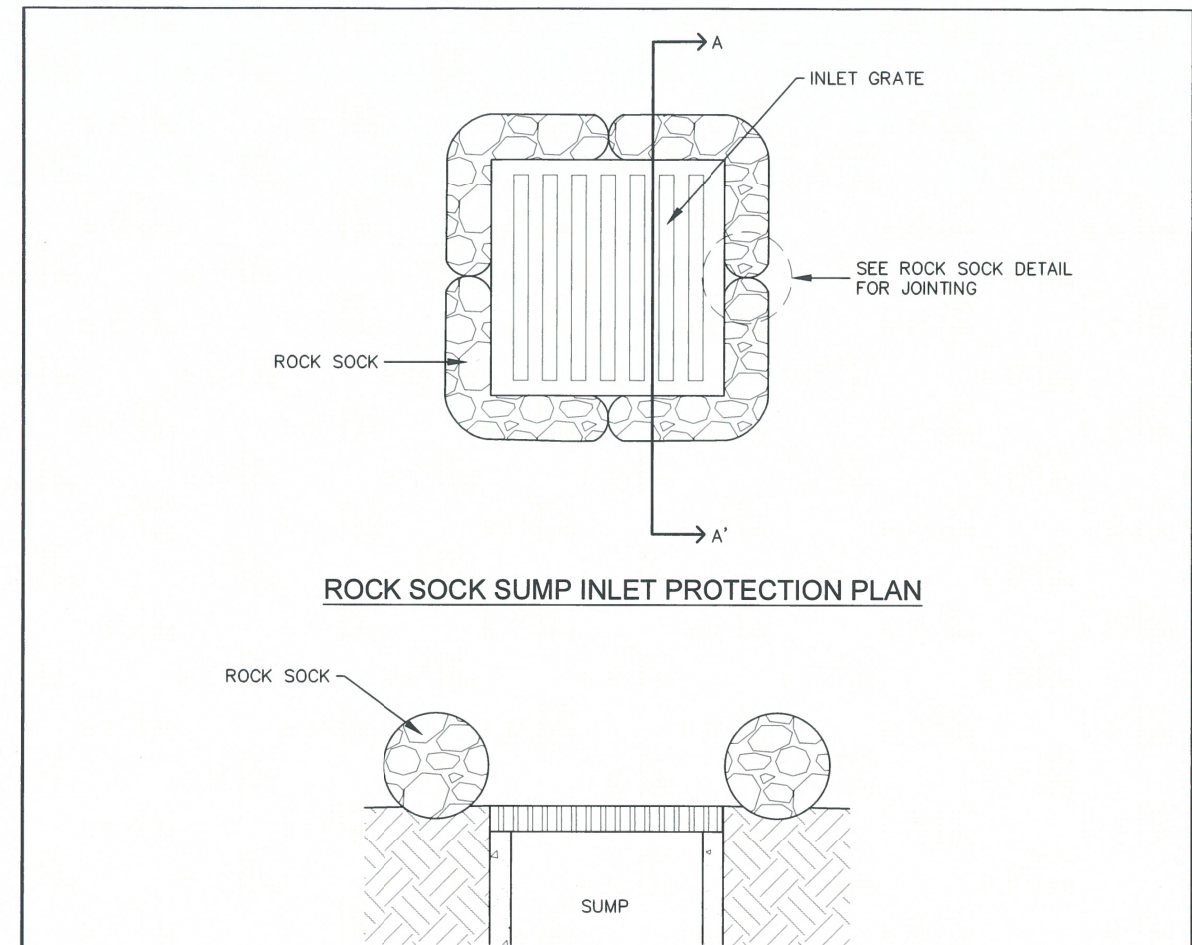
- SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
- ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
- AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.
- ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-1

		<b>ON-GRADE INLET PROTECTION</b>	
APPROVED: <i>[Signature]</i>		SWENT-MANAGER	
ISSUED:	REVISED:	DRAWING NO.	
10/7/19	8/19/2020	900-IP-1	



**INSTALLATION NOTES**

- SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
- SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.
- CONTROL MEASURES MUST BE WRAPPED AROUND INLET AS TIGHTLY AS POSSIBLE.

**MAINTENANCE NOTES**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AROUND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

IP-2

		<b>SUMP INLET PROTECTION</b>	
APPROVED: <i>[Signature]</i>		SWENT-MANAGER	
ISSUED:	REVISED:	DRAWING NO.	
10/7/19	8/19/2020	900-IP-2	

Print Date: 1/8/2024
File Name: P1-18300HYD_EC_415.dgn
Horiz. Scale: 1:40      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

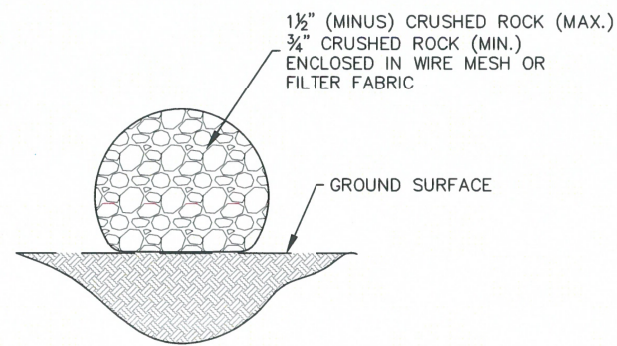
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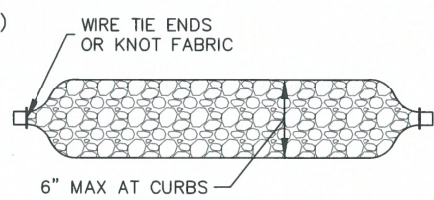
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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
GRADING & EROSION CONTROL DETAILS			
Designer:	Structure Numbers		
Detailer:			
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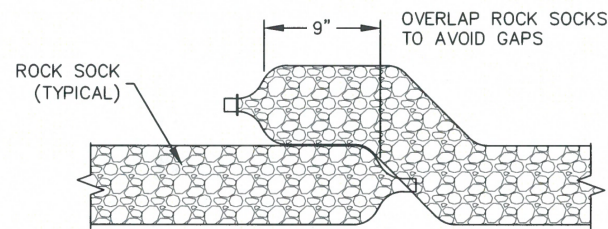
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**ROCK SOCK SECTION**



**ROCK SOCK PLAN**



**ROCK SOCK OVERLAP**

GRADATION TABLE	
	MASS PERCENT PASSING SQUARE MESH SIEVES
	No. 4
2"	100
1 1/2"	90-100
1"	20-55
3/4"	0-15
3/8"	0-5

MATCHES SPECIFICATIONS FOR No. 4 COARSE AGGREGATE FOR CONCRETE PER AASHTO M-43. ALL ROCK SHALL BE FRACTURED FACE, ALL SIDES

**INSTALLATION NOTES**

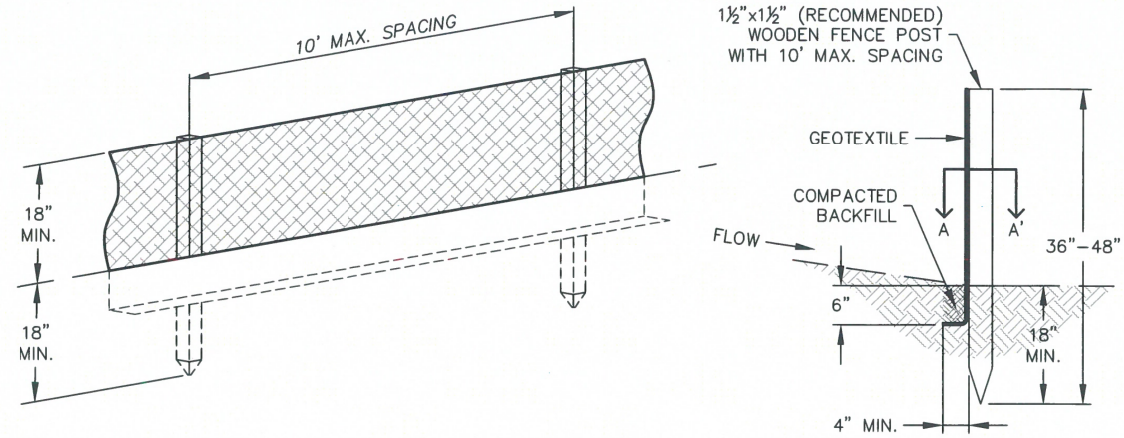
1. CRUSHED ROCK SHALL BE BETWEEN MAX. 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET AND MIN. 3/4" CRUSHED ROCK.
2. WIRE MESH SHALL HAVE OPENINGS SMALLER THAN THE SMALLEST SIZE ROCK.
3. WIRE MESH SHALL BE SECURED USING 'HOG RINGS' OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.

**MAINTENANCE NOTES**

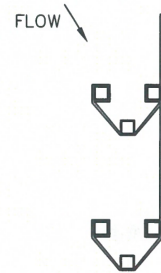
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED OR DAMAGED BEYOND REPAIR.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN THE DEPTH REACHES 1/2 OF THE HEIGHT OF THE ROCK SOCK.
4. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL DISTURBED AREA IS STABILIZED.
5. PERMANENTLY STABILIZE AREA AFTER ROCK SOCKS HAVE BEEN REMOVED.

RS

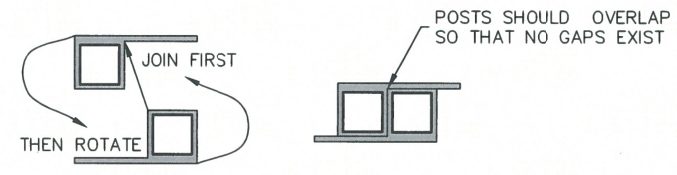
<b>STORMWATER ENTERPRISE</b>		<b>ROCK SOCK</b>	
APPROVED: <i>[Signature]</i>		SWENT MANAGER	
ISSUED:	REVISED:	DRAWING NO.	
10/7/19	8/19/2020	900-RS	



**SILT FENCE**



**J-HOOK INSTALLATION**



**SECTION A-A'**

**INSTALLATION NOTES**

1. SILT FENCE MUST BE PLACED ON A FLAT SURFACE 2'-5' AWAY FROM TOE OF THE SLOPE TO ALLOW FOR PONDING AND DEPOSITION.
2. COMPACT THE TRENCH USING A JUMPING JACK OR WHEEL ROLLING TO THE POINT THAT THE FENCE RESISTS BEING PULLED OUT OF THE GROUND BY HAND.
3. SILT FENCE SHALL BE TAUT WITH NO SAGS AFTER IT HAS BEEN ANCHORED.
4. FABRIC SHALL BE ATTACHED TO POSTS WITH 1" HEAVY DUTY STAPLES OR 1" NAILS. THESE SHOULD BE PLACED VERTICALLY DOWN THE POST, 3" APART.
5. THE PREFERRED INSTALLATION METHOD USES A TRENCHER OR SILT FENCE INSTALLATION DEVICE.
6. INSTALL SILT FENCE ALONG THE CONTOUR OF THE SLOPES OR IN A MANNER TO AVOID CREATING CONCENTRATED FLOW (SUCH AS A "J-HOOK" INSTALLATION).

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE DESIGN HEIGHT OF THE SILT FENCE.
3. SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA AFTER SILT FENCE IS REMOVED.

SF

<b>STORMWATER ENTERPRISE</b>		<b>SILT FENCE</b>	
APPROVED: <i>[Signature]</i>		SWENT MANAGER	
ISSUED:	REVISED:	DRAWING NO.	
10/7/19	8/19/2020	900-SF	

Print Date: 1/8/2024	
File Name: P1-18300HYD_EC_416.dgn	
Horiz. Scale: 1:40	Vert. Scale:
Unit Information	Unit Leader
Project No./Code	PPRTA 10444

Sheet Revisions			
Date:	Comments	Init.	

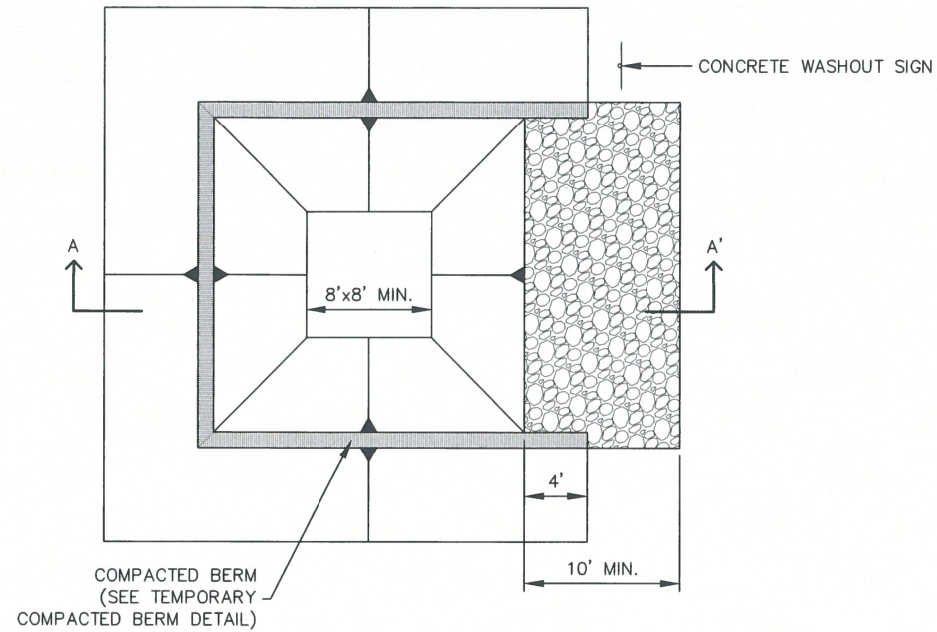


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Phone: 719-633-8805

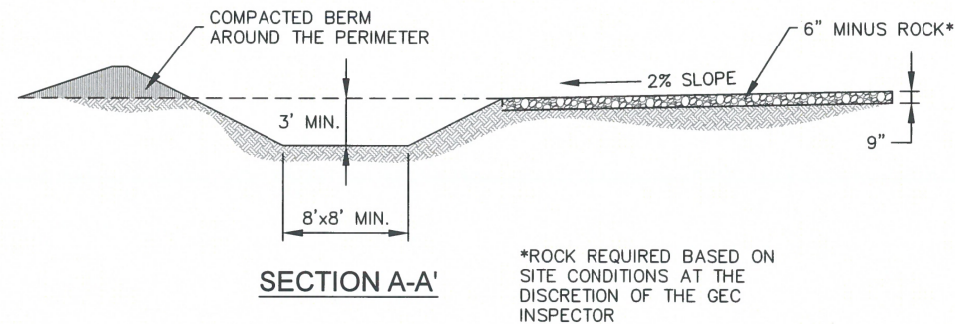
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Revised:	GRADING & EROSION CONTROL DETAILS		
Void:	Designer:	Structure Numbers:	
	Detailer:	Sheet Subset:	ECP
		Subset Sheets:	35 of 38



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**CONCRETE WASHOUT AREA PLAN**



**SECTION A-A'**

\*ROCK REQUIRED BASED ON SITE CONDITIONS AT THE DISCRETION OF THE GEC INSPECTOR



		<b>CONCRETE WASHOUT AREA</b>	
APPROVED:			
SWENT MANAGER			
ISSUED:	REVISED:	DRAWING NO.	
10/7/19	8/19/2020	900-CWA-1	

**INSTALLATION NOTES**

1. SEE PLAN VIEW FOR:  
-LOCATION OF CONCRETE WASHOUT AREA
2. LOCATE AT LEAST 50' AWAY FROM STATE WATERS MEASURED HORIZONTALLY.
3. AN IMPERMEABLE LINER (16 MIL. MINIMUM THICKNESS) IS REQUIRED IF CONCRETE WASH AREA IS LOCATED WITHIN 400' OF STATE WATERS OR 1000' OF WELLS OR DRINKING WATER SOURCES.
4. DO NOT LOCATE IN AREAS WHERE SHALLOW GROUNDWATER MAY BE PRESENT.
5. THE CONCRETE WASH AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
6. CONCRETE WASH AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8'.
7. BERM SURROUNDING SIDES AND BACK OF CONCRETE WASH AREA SHALL HAVE A MINIMUM HEIGHT OF 2 FEET.
8. CONCRETE WASH AREA ENTRANCE SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH AREA.
9. SIGNS SHALL BE PLACED AT THE CONCRETE WASH AREA.
10. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. THE CONCRETE WASH AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN THE PIT SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2/3 THE HEIGHT OF THE CONCRETE WASH AREA.
3. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
4. THE CONCRETE WASH AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
5. PERMANENTLY STABILIZE AREA AFTER CONCRETE WASH AREA IS REMOVED.



		<b>CONCRETE WASHOUT AREA</b>	
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SWENT MANAGER			
ISSUED:	REVISED:	DRAWING NO.	
10/7/19	8/19/2020	900-CWA-2	

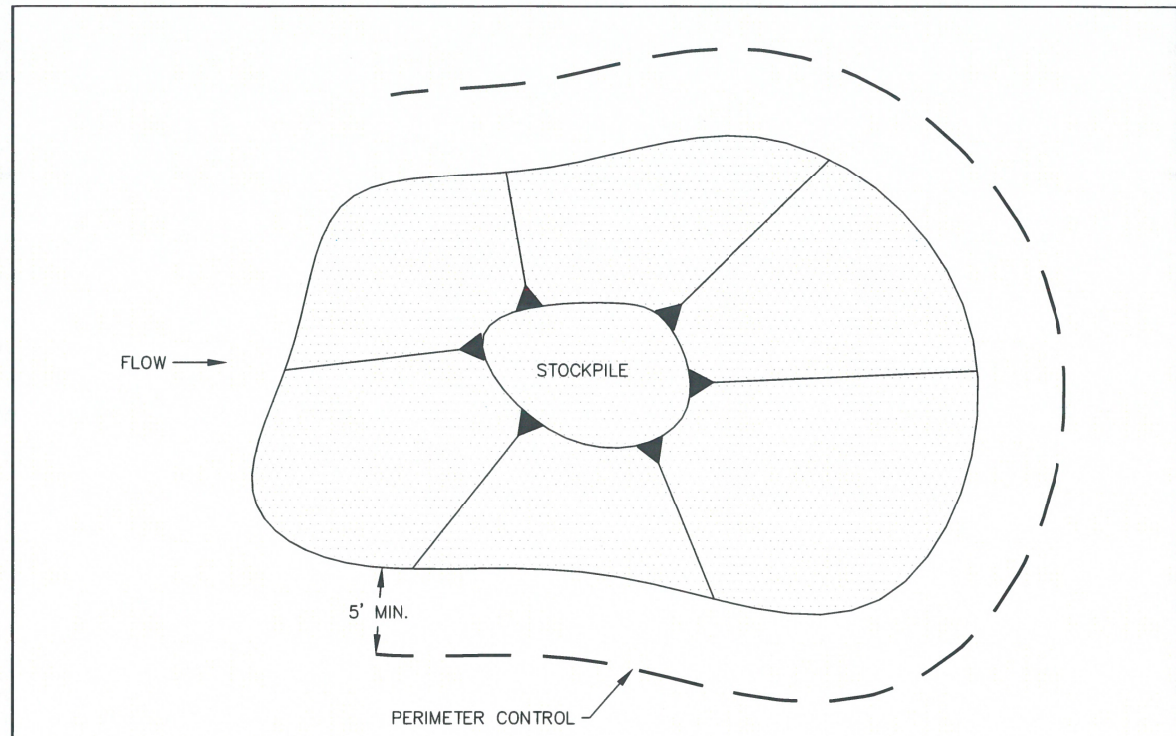
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Project No./Code    PPRTA    10444

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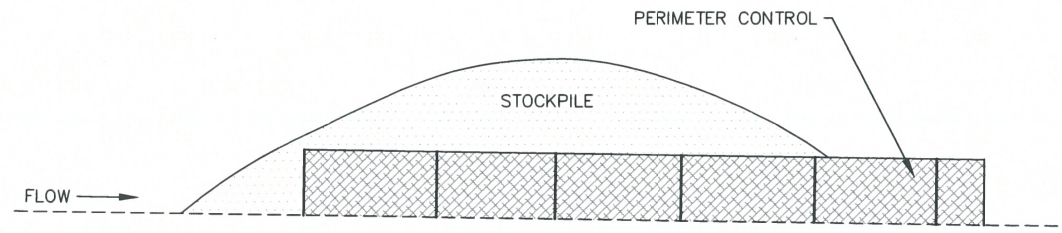


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	Detailer:		
	Sheet Subset: ECP	Subset Sheets: 36 of 38	Sheet Number <b>36</b>

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**STOCKPILE PROTECTION PLAN**



**STOCKPILE PROTECTION ELEVATION**

**INSTALLATION NOTES**

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNGRAIENT SIDE. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
2. FOR STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRAIENT CONTROLS INCLUDING PERIMETER CONTROL ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.



	<b>STOCKPILE PROTECTION</b>		
	APPROVED:		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SP	

**Seeding Drill Seed Mix**

Common Nave (Variety)	Scientific Name	Lbs PLS/ Acre
Sheep fescue	<i>Festuca ovina</i>	0.6
Canby bluegrass	<i>Poa canbyi</i>	0.5
Thickspike wheatgrass (Critana)	<i>Elymus lanceolatus</i>	5.7
Western wheatgrass (Arriba)	<i>Pascopyrum smithii</i>	7.9
Blue grama (Hachita)	<i>Chondrosium gracile</i>	1.1
Switchgrass (Pathfinder)	<i>Panicum virgatum</i>	1.0
Side-oats grama (Butte)	<i>Boutelou curtipendula</i>	2.0
Annual rye	<i>Lolium multiflorum</i>	10.0
<b>Total</b>		<b>28.8</b>

**Seeding (low growth) drill seed mix**

Common Nave (Variety)	Scientific Name	Lbs PLS/ Acre
Buffalograss	<i>Buchloe dactyloides</i>	3.2
Blue Grama	<i>Bouteloua gracilis</i>	0.6
Western Wheatgrass	<i>Pascopyrum smithii</i>	3.2
Sideoats Grama	<i>Boutelous curtipendula</i>	1.8
Thickspike Wheatgrass	<i>Elymus lanceolatus ssp. Dasystachyum</i>	1.0
Streambank Wheatgrass	<i>Elymus lanceolatus ssp. Riparium</i>	1.2
<b>Total</b>		<b>11.0</b>

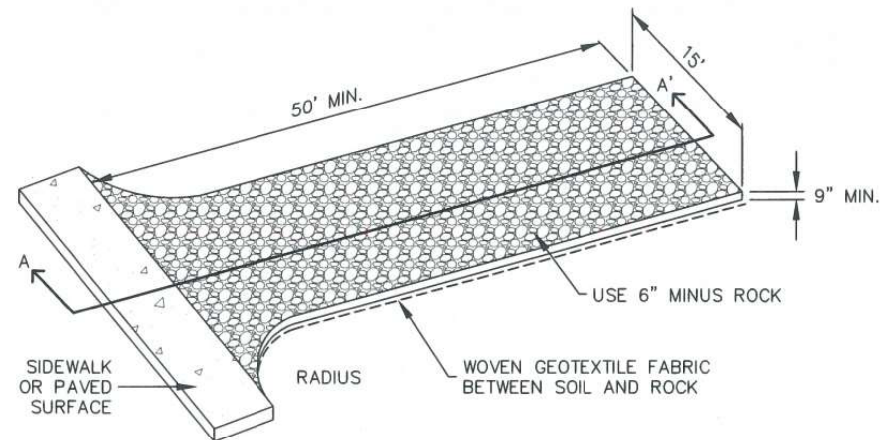
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Project No./Code    PPRTA    10444

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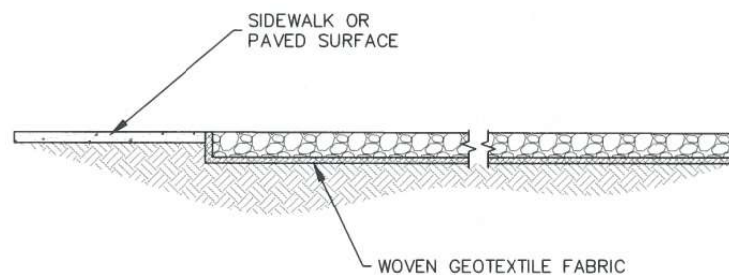


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**AGGREGATE VEHICLE TRACKING CONTROL**



**SECTION A-A'**

**INSTALLATION NOTES**

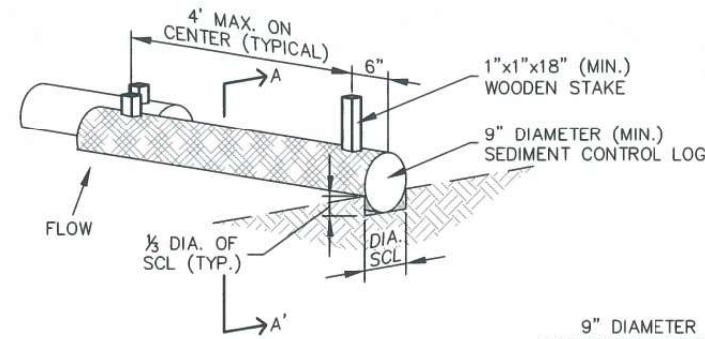
1. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHOULD BE LOCATED AT ALL POINTS WHERE VEHICLES EXIT THE CONSTRUCTION SITE TO ADJACENT ROADWAY.
2. STABILIZED CONSTRUCTION ENTRANCE/EXITS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
3. RADIUS MUST BE ADEQUATE FOR INTENDED CONSTRUCTION VEHICLE TURNING.
4. ROCK SHOULD CONSIST OF 6" MINUS ROCK.
5. INSTALL CONSTRUCTION FENCE ON BOTH SIDES OF VEHICLE TRACKING CONTROL PAD WHEN NEEDED OR REQUIRED BY INSPECTOR.

**MAINTENANCE NOTES**

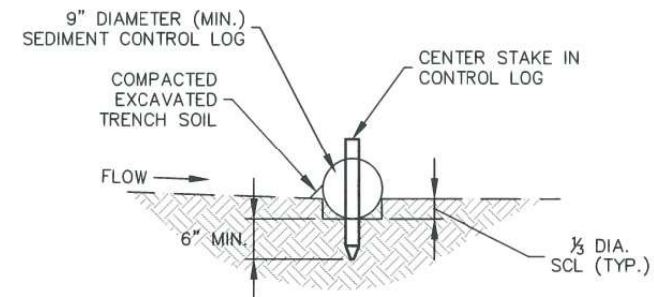
1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. SEDIMENT TRACKED ONTO THE ADJACENT ROAD SHALL BE REMOVED DAILY, BY SWEEPING OR SHOVELING, AND NEVER WASHED DOWN STORM DRAINS.
3. ROUGHEN, REPLACE AND/OR ADD ROCK AS NEEDED TO MAINTAIN CONSISTENT DEPTH AND TO PREVENT SEDIMENT TRACKING ONTO ADJACENT STREET.
4. PERMANENTLY STABILIZE AREA AFTER VEHICLE TRACKING CONTROL IS REMOVED.



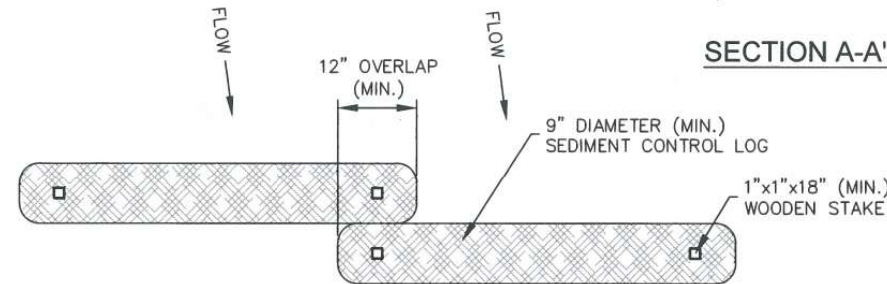
<b>VEHICLE TRACKING CONTROL</b>		
APPROVED:		
SWENT MANAGER		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-VTC



**SEDIMENT CONTROL LOG**



**SECTION A-A'**



**SEDIMENT CONTROL LOG JOINTS**

**INSTALLATION NOTES**

1. ALL SEDIMENT CONTROL LOGS MUST BE EMBEDDED TO 1/3 OF THE HEIGHT OF THE LOG.
2. LARGER DIAMETER SEDIMENT CONTROL LOGS NEED TO BE EMBEDDED DEEPER.
3. PLACE SEDIMENT CONTROL LOG AGAINST SIDEWALK OR BACK OF CURB WHEN ADJACENT TO THESE FEATURES.
4. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE FROM ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
5. IF USING AS SLOPE PROTECTION, INSTALL SEDIMENT CONTROL LOGS ALONG THE CONTOUR.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
3. PERMANENTLY STABILIZE AREA AFTER SEDIMENT CONTROL LOGS HAVE BEEN REMOVED.



<b>SEDIMENT CONTROL LOGS</b>		
APPROVED:		
SWENT MANAGER		
ISSUED: 10/7/19	REVISED: 8/19/2020	DRAWING NO. 900-SCL

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GRADING & EROSION CONTROL DETAILS	
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Sheet Subset: ECP	Subset Sheets: 38 of 38



**10\_SWENT Drainage**  
**Will follow this page.**



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(or 1-800-922-1987)  
 UTILITY NOTIFICATION  
 CENTER OF COLORADO (UNCC)  
 www.uncc.org



# DEPARTMENT OF PUBLIC SERVICES

## CITY OF COLORADO SPRINGS

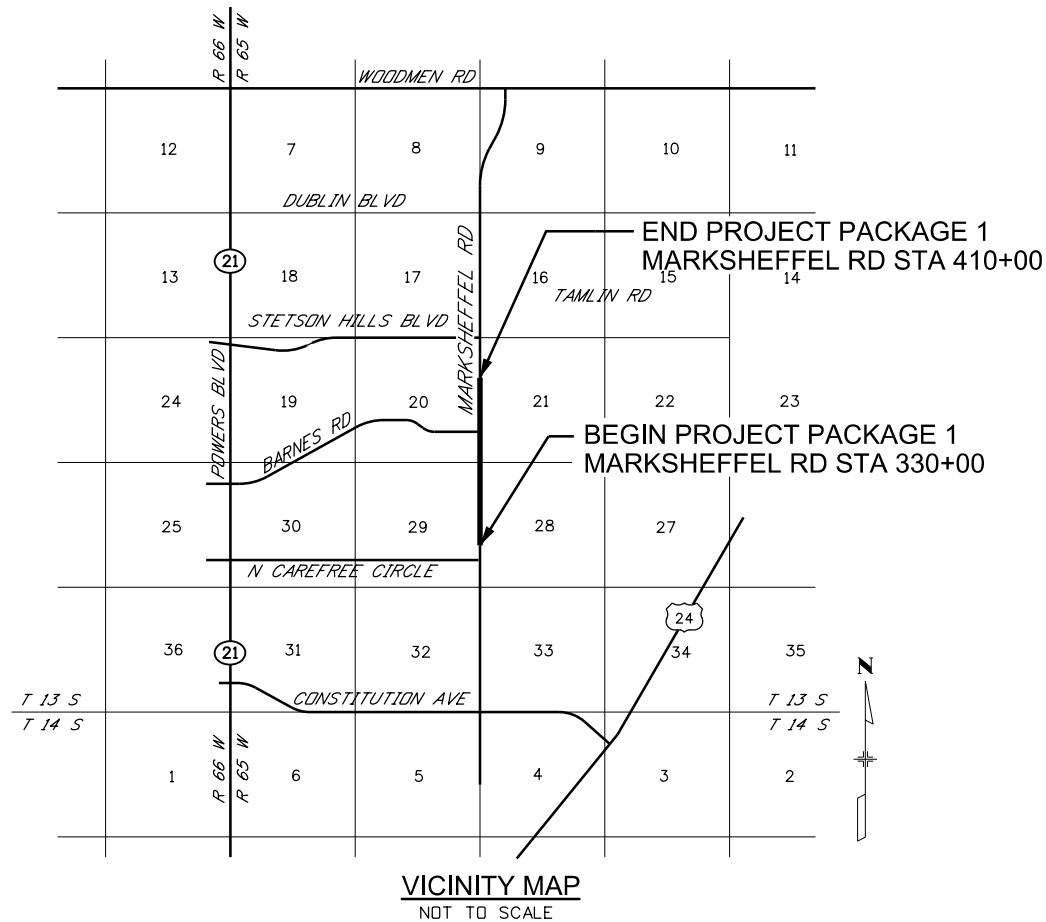
### ENGINEERING DIVISION

*HIGHWAY DRAINAGE CONSTRUCTION BID PLANS OF PROPOSED  
 MARKSHEFFEL RD AT BARNES RD SWENT  
 FUNDED BY THE PIKES PEAK RURAL TRANSPORTATION AUTHORITY*

**REVIEWED BY:**

- CITY ENGINEERING DIVISION
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- TRAFFIC ENGINEERING DIVISION
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- STREET DIVISION
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- PARKS AND RECREATION DEPARTMENT
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- BANNING LEWIS RANCH METRO DISTRICT
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- CENTURY LINK / LEVEL 3
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- CHEROKEE METRO DISTRICT
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COLORADO INTERSTATE GAS
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COLORADO SPRINGS UTILITIES
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- COMCAST
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- EL PASO COUNTY PUBLIC WORKS
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- FALCON BROADBAND
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- MAGELLAN
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- MCI
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- MOUNTAIN VIEW ELECTRIC
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- WOODMEN HILLS METRO DISTRICT
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_
- ZAYO
- BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SHEET NO.	INDEX OF SHEETS
1	TITLE SHEET
2	STANDARD PLANS
3	DRAINAGE GENERAL NOTES
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MARKSHEFFEL ROAD DRAINAGE TITLE SHEET			
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Detailer:	JAM	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: 1	of 36	Sheet Number

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**COLORADO  
DEPARTMENT OF TRANSPORTATION  
M&S STANDARDS PLANS LIST**

July 31, 2019

Revised on April 14, 2023

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

THE M&S STANDARD PLANS USED TO DESIGN THIS PROJECT ARE INDICATED BY A MARKED BOX ■, AND WILL BE ATTACHED TO THE PLANS. ALL OTHER M&S STANDARD PLANS ARE STILL ELIGIBLE FOR USE IN CONSTRUCTION IF APPROVED BY AN APPROPRIATE CDOT ENGINEER.

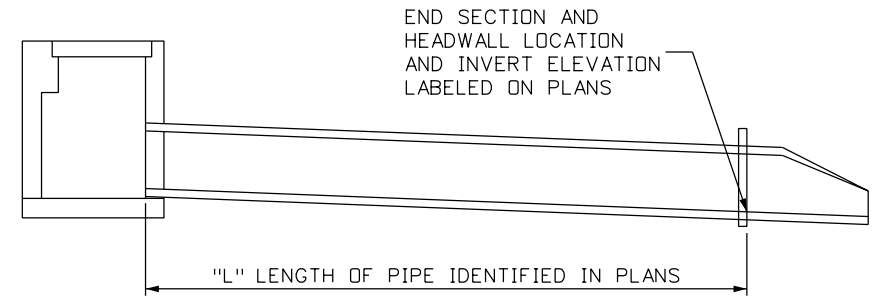
<b>Computer File Information</b>		<b>Sheet Revisions</b>		Colorado Department of Transportation 2829 West Howard Place CDOT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9868	<b>STANDARD PLANS LIST</b>	<b>STANDARD PLAN NO.</b>	
Creation Date: 07/31/19		Date:	Comments			<b>STANDARDS PLANS LIST</b>	
Designer Initials: JBK	(R-X)					Standard Sheet No. 1 of 1	
Last Modification Date: 04/14/23	(R-X)					Project Sheet Number: 2	
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**GENERAL NOTES:**

1. DRAINAGE FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF COLORADO SPRINGS STANDARDS.
2. UNLESS OTHERWISE NOTED, EXISTING DRAINAGE FACILITIES SHALL REMAIN AND BE PROTECTED. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
3. THE DECISION TO BRACE, SHORE, OR SHEET PILE FOR STRUCTURE EXCAVATION SHALL BE ENTIRELY THE CONTRACTOR'S RESPONSIBILITY. ALL WORK SHALL BE IN ACCORDANCE WITH ALL STATE AND FEDERAL O.S.H.A. REGULATIONS. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES NEAR THE PROPOSED EXCAVATION DURING CONSTRUCTION.
4. THE CONTRACTOR IS REQUIRED TO KEEP EXISTING STORM DRAIN SYSTEMS FUNCTIONAL AND MAINTAIN PROPER STORMWATER CONVEYANCE UNTIL PROPOSED DRAINAGE FACILITIES ARE CONSTRUCTED AND FUNCTIONING PROPERLY. REMOVAL OR ABANDONMENT OF THE EXISTING STORM DRAIN SYSTEMS SHALL BE AT THE DISCRETION OF THE CONTRACTOR IN ACCORDANCE WITH CONSTRUCTION PHASING.
5. INFORMATION SHOWN IN THE PLANS REPRESENTS THE FINAL STORM DRAINAGE SYSTEM. PHASING OF INSTALLATION AND INSTALLATION METHODS IS AT THE DISCRETION OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM STORMWATER AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED AT NO COST TO THE OWNER.
7. THE APPLICABLE CONSTRUCTION CONTROL MEASURES (CCMS) FOR CONSTRUCTION EROSION CONTROL SHALL BE APPLIED DURING EACH CONSTRUCTION PHASE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE SIZE, TYPE, AND LOCATION OF CCMS.
8. EACH CULVERT SYSTEM AND EACH STORM DRAIN SYSTEM HAS A STATION IDENTIFIER.
9. ALL EXISTING CULVERTS AND STORM DRAINS TO REMAIN WITHIN EXISTING RIGHT-OF-WAY SHALL BE CLEANED PER SPECIFICATIONS.
10. EXISTING PIPES NOT SHOWN TO BE REMOVED SHALL BE PROTECTED IN PLACE.
11. THE DEFINITION OF PIPE LENGTH CALLED OUT ON THE PLANS IS DETAILED ON THIS SHEET.
12. STANDARD PIPE JOINTS SHALL BE BELL AND SPIGOT OR TONGUE AND GROOVE. JOINTS FOR ALL CIRCULAR OR ELLIPTICAL REINFORCED CONCRETE PIPES SHALL HAVE CONFINED RUBBER GASKETS PER CDOT STANDARD SPECIFICATION 705.03.
13. NON-STANDARD JOINTS TO EXISTING PIPES SHALL USE CONCRETE COLLARS AS DETAILED IN THESE PLANS. CONCRETE COLLARS ARE CONSIDERED INCIDENTAL TO THE WORK AND SHALL NOT BE PAID FOR SEPARATELY.
14. PIPE CONNECTIONS THAT DO NOT OCCUR AT A MANHOLE OR INLET SHALL BE WITH A PREFABRICATED PIPE WYE OR TEE CONNECTION.

15. STRUCTURE TYPES AND ASSOCIATED REFERENCE POINTS ARE AS FOLLOWS:
 

A - ADJUST STRUCTURE	ASSOCIATED WITH OTHER TYPES
B - BRIDGE DECK INLET	CENTER OF VAULT AT CURB FLOW LINE
INC - CDOT TYPE-C INLET	CENTER OF VAULT / GRATE ELEVATION
IND - CDOT TYPE-D INLET	CENTER OF VAULT / GRATE ELEVATION
E - EXISTING STRUCTURE	CENTER OF EXISTING STRUCTURE
FES - CONCRETE FLARED END SECTION	CENTER LINE AT FRONT FACE/DOWNSTREAM INVERT
G - EMBANKMENT PROTECTOR	CENTER LINE AT EDGE OF ROADWAY
HW - HEADWALL	CENTER LINE AT OUTSIDE FACE/DOWNSTREAM INVERT
MH - MANHOLE	CENTER OF VAULT/LID ELEVATION
P - PLUG PIPE	CENTERLINE
INR - CDOT TYPE-R INLET	MIDPOINT OF VAULT AT CURB FLOW LINE ELEVATION
S - SPECIAL STRUCTURE	AS SPECIFIED ON PLANS
INV - CDOT VANE GRATE	MIDPOINT OF VAULT AT BARRIER/GRATE ELEVATION
X - REMOVE STRUCTURE	CENTER OF STRUCTURE
BM - BOX BASE MANHOLE	CENTER OF MANHOLE/LID ELEVATION
INDV - DOUBLE VANE GRATE	MIDPOINT OF VAULT AT BARRIER/GRATE ELEVATION
MS - BOX BASE MANHOLE (SPECIAL)	MIDPOINT OF MANHOLE AT BARRIER GRATE ELEVATION
INVS - VANE GRATE (SPECIAL)	CENTER OF STRUCTURE
	MIDPOINT OF VAULT AT GRATE ELEVATION
16. FLOW CHANNELS ARE REQUIRED THROUGH MANHOLES AND INLETS PER M-604-20.
17. REINFORCED CONCRETE PIPE SHALL BE A MINIMUM OF CLASS III. JACKED PIPE SHALL BE A MINIMUM CLASS V. INSTALLATION AND MAXIMUM FILL HEIGHTS SHALL CONFORM TO CDOT STANDARD PLAN M-603-2.
18. UNLESS OTHERWISE SPECIFIED, RUBBER GASKETS SHALL BE USED FOR ALL JOINTS IN STORM DRAIN CONSTRUCTION.
19. ELLIPTICAL PIPE (HERCP) SHOWN ON THE PLANS SHALL USE TONGUE AND GROOVE JOINTS IN LIEU OF BELL AND SPIGOT JOINTS.
20. RIPRAP OUTLET PROTECTION FOR STORM OUTFALLS SHALL BE 3D WIDE BY 5D IN LENGTH UNLESS OTHERWISE SPECIFIED WITH A d50=12" & THICKNESS OF 24".
21. ALL CONVEYANCE STRUCTURES (PIPES, MANHOLES, INLETS, AND OUTFALL STRUCTURES) ARE PUBLIC.
22. DOUBLE AND TRIPLE-WALLED POLYPROPYLENE PIPE MAY BE USED IN PLACE OF RCP FOR PIPE SIZES UP TO 60". INSTALLATION AND MAXIMUM/MINIMUM FILL HEIGHTS SHALL CONFORM TO CITY OF COLORADO SPRINGS STANDARD SPECIFICATIONS AND DRAWINGS.
23. ALL STORM PIPE SHALL BE INSTALLED WITH TRACER WIRE



**PIPE LENGTH DETAIL**

DRAINAGE DESIGN

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ITEM NO.	ITEM NAME	QUANTITY	UNIT	ITEM NO.	ITEM NAME	QUANTITY	UNIT
202-00019	Removal of Inlet	4	EACH	603-05021	24 Inch Reinforced Concrete End Section	3	EACH
202-00035	Removal of Pipe	349	LF	603-05600	24 Inch Concrete Vertical Bend (Prefab)	5	EACH
202-00037	Removal of End Section	6	EACH	603-05601	24 Inch X 42 Inch Concrete Tee (Prefab)	1	EACH
206-00000	Structure Excavation	631	CY	603-05602	18 Inch X 18 Inch Concrete Tee (Prefab)	1	EACH
206-00100	Structure Backfill (Class 1)	170	CY	604-00305	Inlet Type C (5 Foot)	1	EACH
206-00510	Filter Material (Class A)	14	CY	604-00310	Inlet Type C (10 Foot)	2	EACH
213-00150	Bonded Fiber Matrix	2	AC	604-00505	Inlet Type D (5 Foot)	4	EACH
304-06007	Aggregate Base Course (Class 6)	585	CY	604-00510	Inlet Type D (10 Foot)	1	EACH
420-00132	Geotextile (Separator) (Class 1)	1959	SY	604-19105	Inlet Type R L 5 (5 Foot)	10	EACH
506-00012	Riprap (Special)	1	EACH	604-19110	Inlet Type R L 5 (10 Foot)	5	EACH
506-00212	Riprap (12 Inch)	58	CY	604-19205	Inlet Type R L 10 (5 Foot)	9	EACH
506-00409	Soil Riprap (9 Inch)	532	CY	604-19210	Inlet Type R L 10 (10 Foot)	2	EACH
515-00122	Waterproofing (Membrane)(Special)	312	SY	604-19215	Inlet Type R L 10 (15 Foot)	1	EACH
601-03030	Concrete Class D (Forebay)	26	CY	604-19305	Inlet Type R L 15 (5 Foot)	8	EACH
601-03030	Concrete Class D (Trickle Channel)	37	CY	604-19310	Inlet Type R L 15 (10 Foot)	5	EACH
601-03030	Concrete Class D (Box Culvert)	204	CY	604-19505	Inlet Type R L 20 (5 Foot)	1	EACH
602-00000	Reinforcing Steel	40200	LB	604-20000	Outlet Structure	1	EACH
603-01185	18 Inch Reinforced Concrete Pipe (Complete In Place)	1982	LF	604-31010	Mahole Box Base (10 Foot)	3	EACH
603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	1048	LF	604-31015	Mahole Box Base (15 Foot)	18	EACH
603-01425	42 Inch Reinforced Concrete Pipe (Complete In Place)	1038	LF	604-31020	Mahole Box Base (20 Foot)	4	EACH
603-01545	54 Inch Reinforced Concrete Pipe (Complete In Place)	1136	LF	604-31025	Mahole Box Base (25 Foot)	2	EACH
603-01605	60 Inch Reinforced Concrete Pipe (Complete In Place)	1553	LF				

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<b>MARKSHEFFEL ROAD TABULATION OF DRAINAGE</b>			
Designer:	ZL	Structure	
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Sheet Number **4**





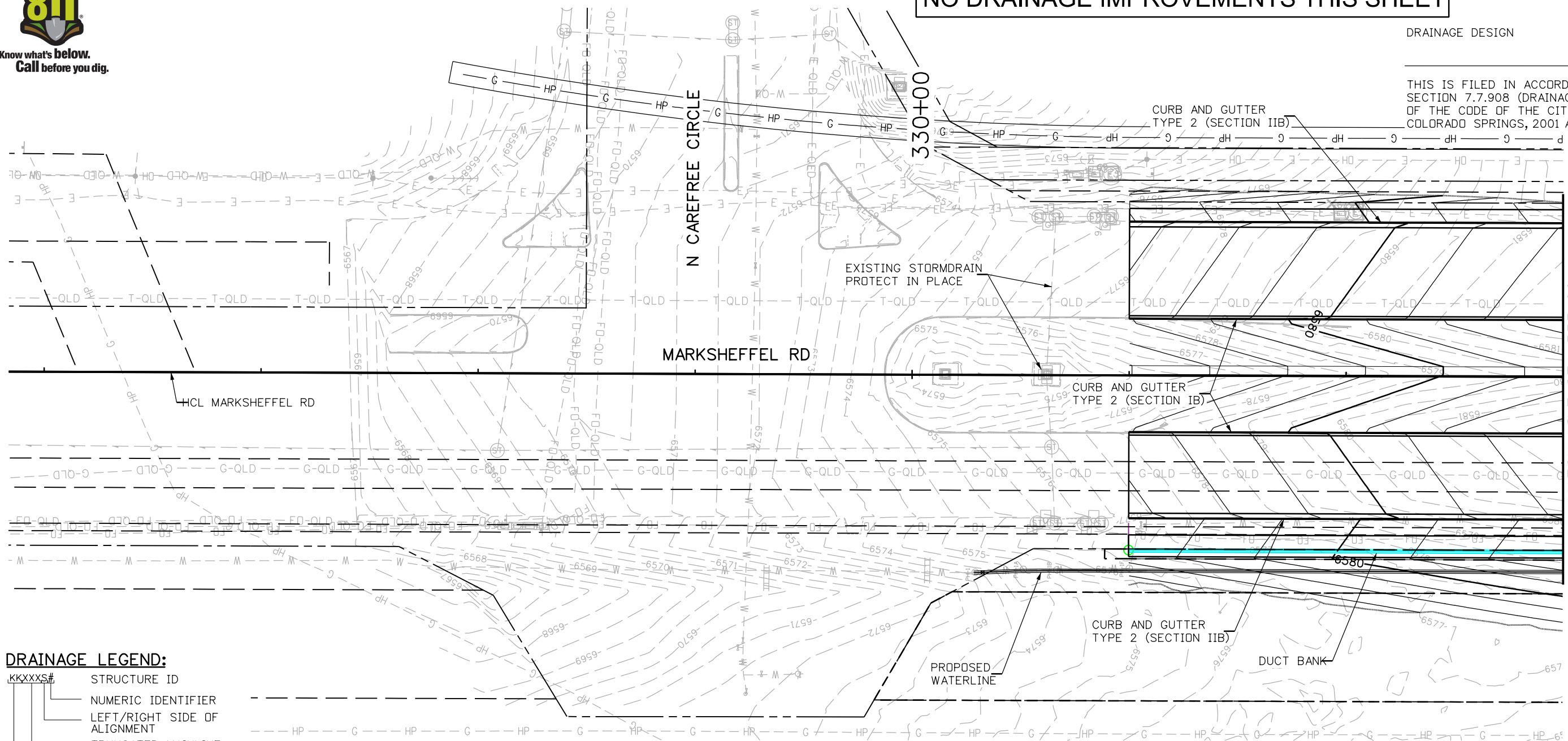
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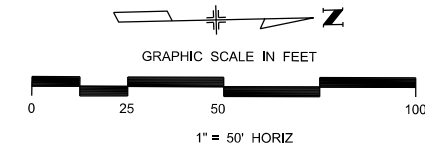
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**DRAINAGE LEGEND:**

- KKXXS# STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

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DRAINAGE PLAN**  
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Sheet Number **5**

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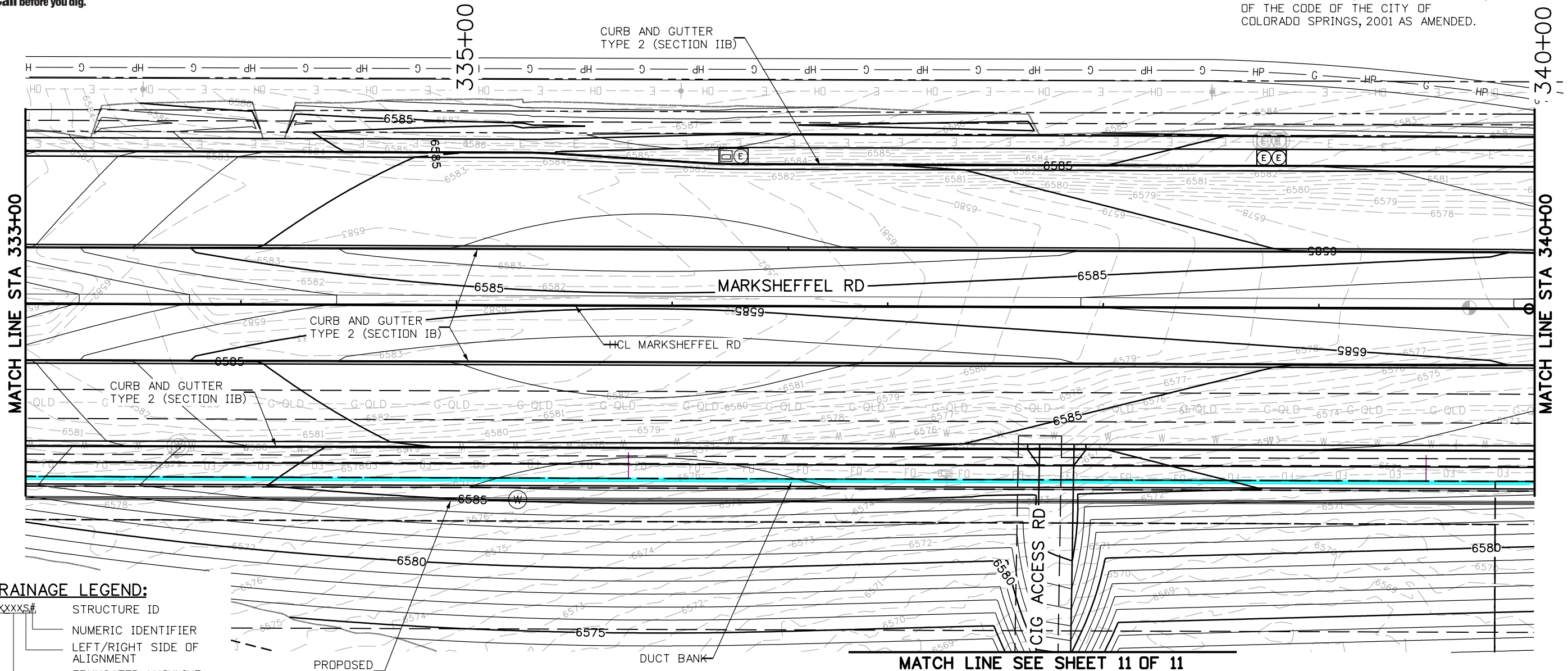
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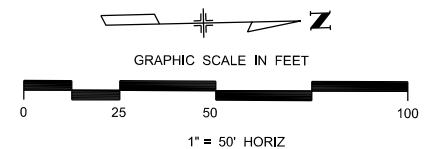


### DRAINAGE LEGEND:

- STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ESTABLISHED CRITERIA FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

MATCH LINE SEE SHEET 11 OF 11



Print Date: 1/8/2024
File Name: P1-18300DR_PLAN_02pp.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**Jacobs**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:	MARKSHEFFEL ROAD DRAINAGE PLAN		
Revised:	STA 330+00.00 TO STA 340+00.00		
Void:	Designer: ZL	Structure Numbers:	
	Detailer: JAM		
	Sheet Subset: DRAINAGE	Subset Sheets: 6 of 36	Sheet Number 6

T:\Arough 3:17:59 PM pwt:\wils-pw.bentley.com\wils-pw\Documents\8100-TRN\City of Colorado Springs, CO\21-100-183-00\18300DR\Hydraulics\_Drainage\Drawings\P1-18300DR\_PLAN\_02pp.dgn



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DRAINAGE DESIGN

DATE: \_\_\_\_\_

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.908 (DRAINAGE ORDINANCE) OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

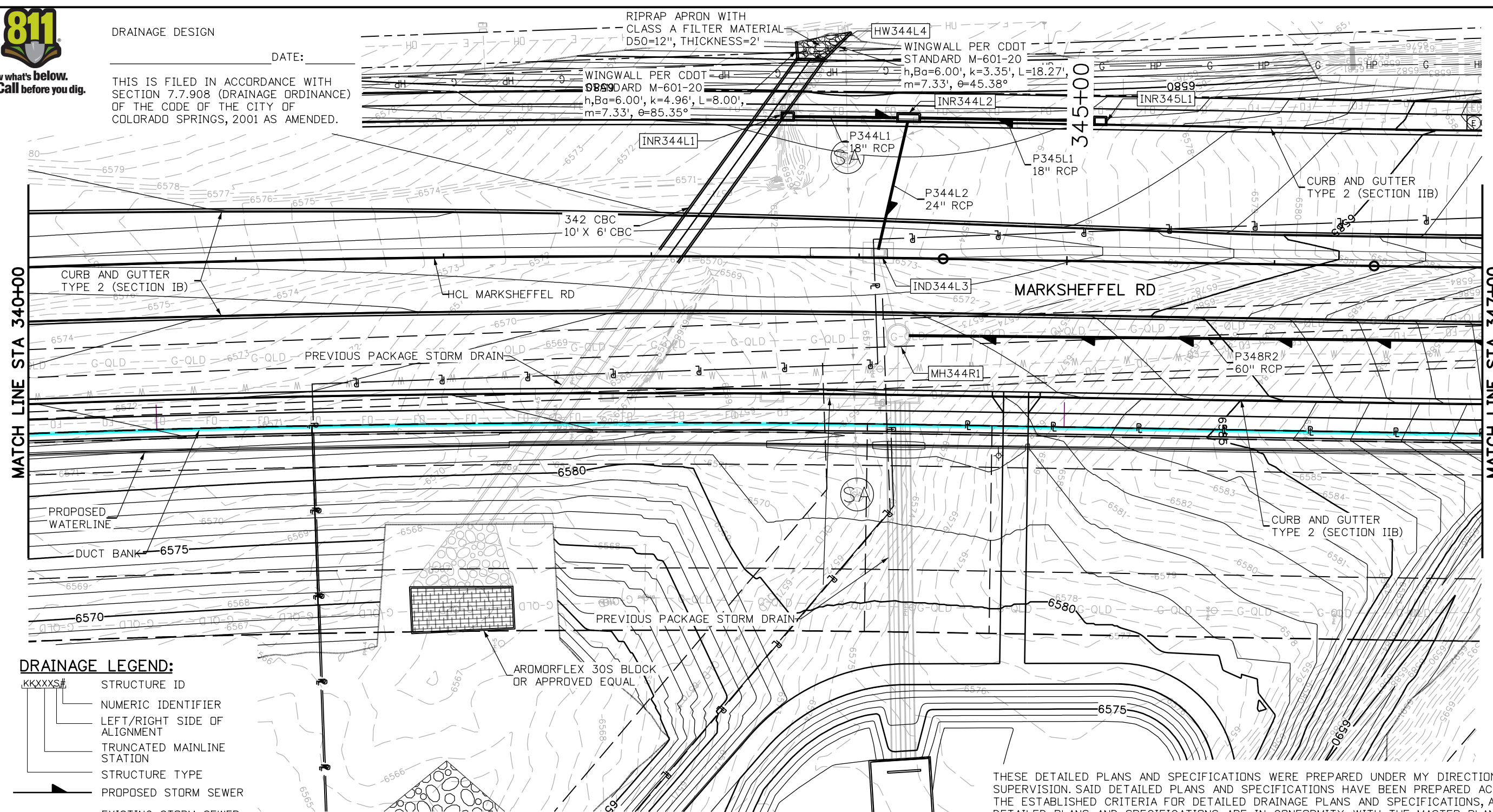
RIPRAP APRON WITH CLASS A FILTER MATERIAL D50=12", THICKNESS=2'

WINGWALL PER CDOT STANDARD M-601-20  
 $h, B_0=6.00', k=3.35', L=18.27', m=7.33', \theta=45.38^\circ$

WINGWALL PER CDOT STANDARD M-601-20  
 $h, B_0=6.00', k=4.96', L=8.00', m=7.33', \theta=85.35^\circ$

MATCH LINE STA 340+00

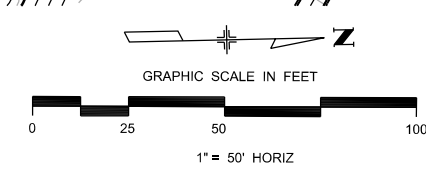
MATCH LINE STA 347+00



DRAINAGE LEGEND:

- KKKXXS# STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

STRUCTURE ID TABLE			
STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
HW344L4		343+76.06, 95.65' L	SEE PROFILE AT STA. 343+76.06
INR344L1	3.45	343+65.15, 65.50' L	SEE PROFILE AT STA. 343+65.15
INR344L2	4.65	344+22.87, 65.50' L	SEE PROFILE AT STA. 344+22.87
IND344L3	5.94	344+09.19, 2.50' L	SEE PROFILE AT STA. 344+09.19
INR345L1	3.53	345+15.00, 65.50' L	SEE PROFILE AT STA. 345+15.00
MH344R1	10.20	344+19.42, 37.23' R	SEE PROFILE AT STA. 344+19.42



THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ESTABLISHED CRITERIA FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

PUBLIC FSD POND  
SEE WATER QUALITY PLAN

Print Date: 1/8/2024  
 File Name: P1-18300DR\_PLAN\_03pp.dgn  
 Horiz. Scale: 1:50    Vert. Scale:  
 Unit Information    Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions			
Date:	Comments	Init.	



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 Revised:  
 Void:

MARKSHEFFEL ROAD  
 DRAINAGE PLAN  
 STA 340+00.00 TO STA 347+00.00

Designer: ZL    Structure  
 Detailer: JAM    Numbers  
 Sheet Subset: DRAINAGE    Subset Sheets: 7 of 36

Sheet Number 7

T:\Arough 3:18:03 PM pwt:\wils-pw.bentley.com\wis-pw\Documents\8100-TRN\City of Colorado Springs, CO\21-100-183-00\18300DR\_Plans\18300DR\_PLAN\_03pp.dgn

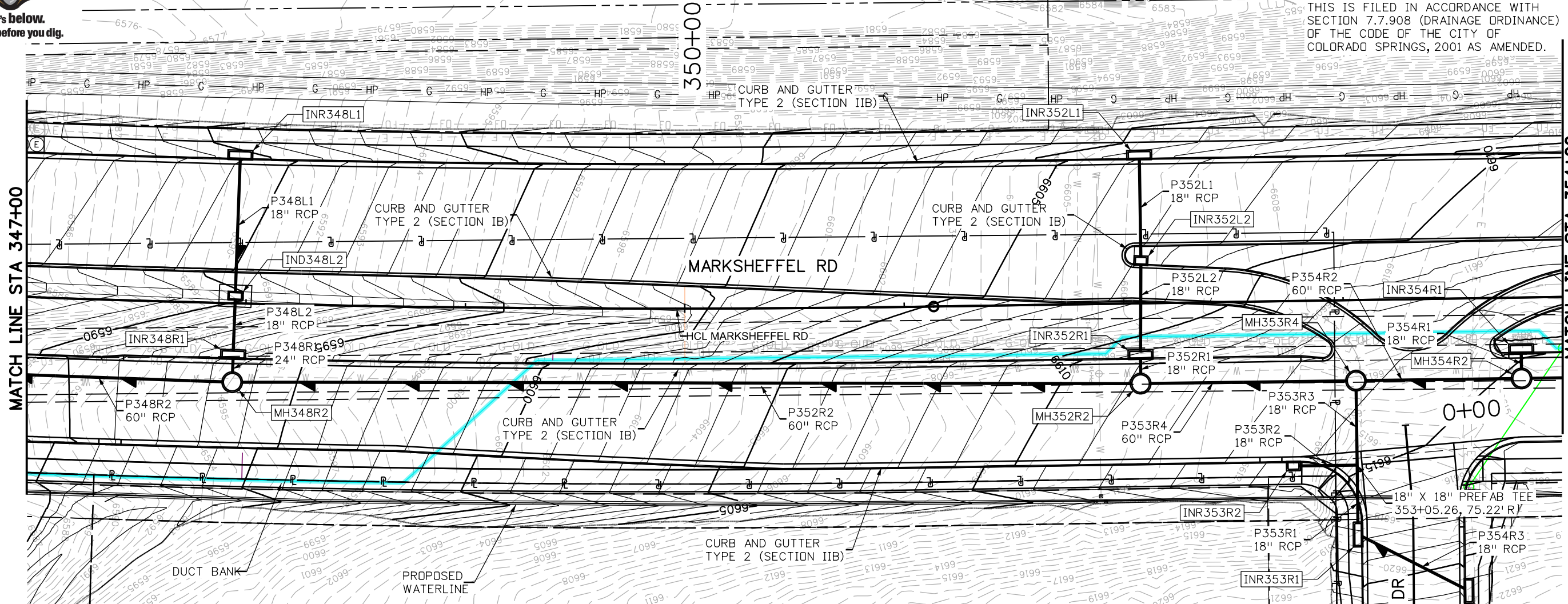


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THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.908 (DRAINAGE ORDINANCE) OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.



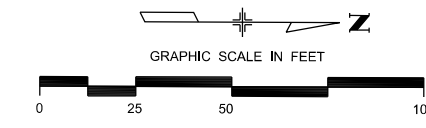
**DRAINAGE LEGEND:**

- KKXXS# STRUCTURE ID
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- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

**STRUCTURE ID TABLE**

STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
INR348L1	3.21	347+95.77, 65.50' L	SEE PROFILE AT STA. 347+95.77
IND348L2	4.66	347+95.03, 3.41' L	SEE PROFILE AT STA. 347+95.03
INR348R1	8.77	347+94.73, 25.50' R	SEE PROFILE AT STA. 347+94.73
MH348R2	11.98	347+94.59, 35.97' R	SEE PROFILE AT STA. 347+94.59
INR352L1	3.81	352+08.13, 65.50' L	SEE PROFILE AT STA. 352+08.13
INR352L2	5.51	352+08.00, 17.33' L	SEE PROFILE AT STA. 352+08.00
INR352R1	9.86	352+07.37, 25.49' R	SEE PROFILE AT STA. 352+07.37
MH352R2	18.62	352+07.19, 36.57' R	SEE PROFILE AT STA. 352+07.19
INR353R1	4.20	353+07.38, 106.85' R	SEE PROFILE AT STA. 353+07.38
INR353R2	3.95	352+76.25, 73.00' R	SEE PROFILE AT STA. 352+76.25
MH353R4	18.63	353+05.32, 36.73' R	SEE PROFILE AT STA. 353+05.32
INR354R1	10.68	353+80.80, 25.50' R	SEE PROFILE AT STA. 353+80.80
MH354R2	20.40	353+80.78, 36.85' R	SEE PROFILE AT STA. 353+80.78
INR354R3	3.71	353+53.20, 133.32' R	SEE PROFILE AT STA. 353+53.20

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Print Date: 1/8/2024  
 File Name: P1-18300DR\_PLAN\_04pp.dgn  
 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.



**Jacobs**  
 5555 Tech Center Dr  
 Suite 210  
 Colorado Springs, CO 80919  
 Phone: 719-633-8805

No Revisions:  
 Revised:  
 Void:

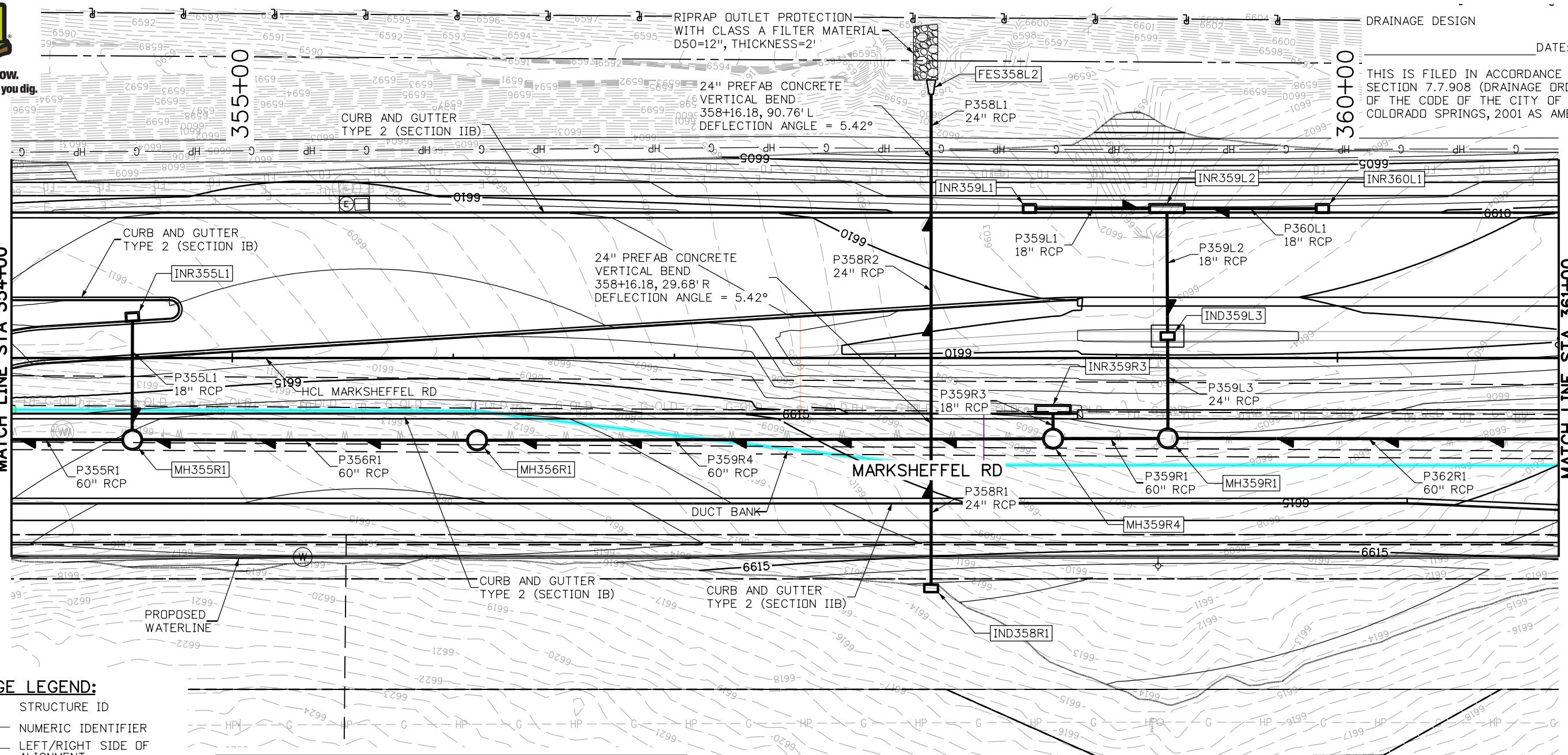
**MARKSHEFFEL ROAD DRAINAGE PLAN**  
 STA 347+00.00 TO STA 354+00.00  
 Designer: ZL      Structure Numbers  
 Detailer: JAM  
 Sheet Subset: DRAINAGE      Subset Sheets: 8 of 36

Sheet Number **8**

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DRAINAGE DESIGN

DATE:

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.908 (DRAINAGE ORDINANCE) OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

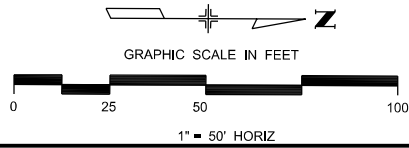
**DRAINAGE LEGEND:**

- KKXXS# STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

**STRUCTURE ID TABLE**

STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
INR355L1	5.11	354+54.99, 16.46' L	SEE PROFILE AT STA. 354+54.99
MH355R1	20.55	354+54.75, 36.98' R	SEE PROFILE AT STA. 354+54.75
MH356R1	19.34	356+10.78, 37.27' R	SEE PROFILE AT STA. 356+10.78
IND358R1	4.41	358+16.18, 104.30' R	SEE PROFILE AT STA. 358+16.18
FES358L2		358+16.18, 119.38' L	SEE PROFILE AT STA. 358+16.18
INR359L1	3.99	358+60.65, 65.50' L	SEE PROFILE AT STA. 358+60.65
INR359L2	4.59	359+22.85, 65.50' L	SEE PROFILE AT STA. 359+22.85
IND359L3	5.26	359+23.17, 9.90' L	SEE PROFILE AT STA. 359+23.17
MH359R1	14.50	359+23.30, 36.37' R	SEE PROFILE AT STA. 359+23.30
INR359R3	6.40	358+71.31, 25.50' R	SEE PROFILE AT STA. 358+71.31
MH359R4	14.98	358+71.35, 36.52' R	SEE PROFILE AT STA. 358+71.35
INR360L1	3.87	359+93.25, 65.50' L	SEE PROFILE AT STA. 359+93.25

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T:\Arough 3:18:13 PM pw:\pw-bentley.com\wis-pw\Documents\18100-TRN\City of Colorado Springs, CO\21-100-183-00\18300\Hydraulics\Drawings\PI-18300DR\_PLAN\_05pp.dgn

Print Date: 1/8/2024
File Name: P1-18300DR_PLAN_05pp.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

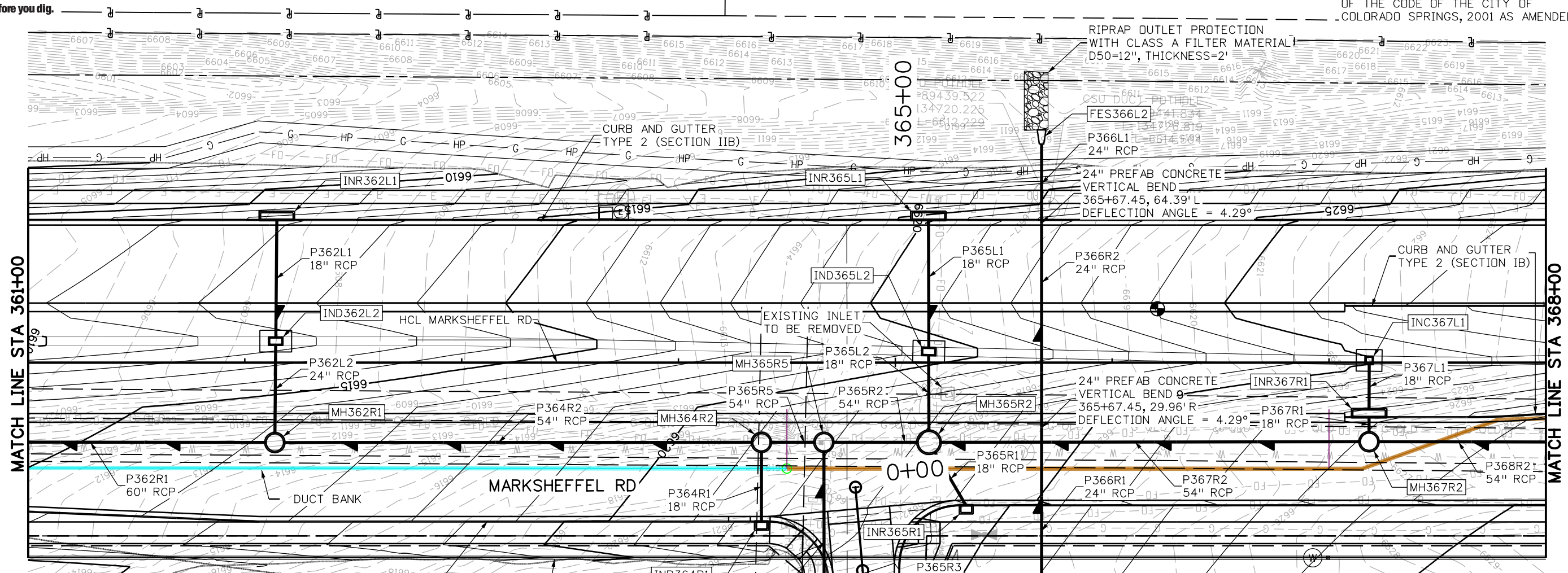
**Jacobs**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:	MARKSHEFFEL ROAD DRAINAGE PLAN STA 354+00.00 TO STA 361+00.00	
Revised:	Designer: ZL	Structure Numbers
Void:	Detailer: JAM	
	Sheet Subset: DRAINAGE	Subset Sheets: 9 of 36
		Sheet Number <b>9</b>



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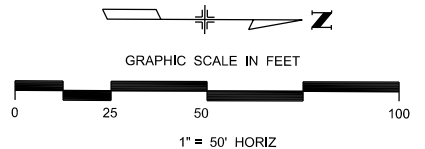


**DRAINAGE LEGEND:**

- STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
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- STRUCTURE TYPE
- PROPOSED STORM SEWER
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- TEMPORARY EASEMENT
- RIPRAP

STRUCTURE ID TABLE			
STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
INR362L1	4.11	362+14.76, 65.50' L	SEE PROFILE AT STA. 362+14.76
IND362L2	4.75	362+14.26, 9.90' L	SEE PROFILE AT STA. 362+14.26
MH362R1	10.79	362+13.85, 36.87' R	SEE PROFILE AT STA. 362+13.85
INR364R1	3.64	364+38.26, 73.00' R	SEE PROFILE AT STA. 364+38.26
MH364R2	13.89	364+38.24, 36.77' R	SEE PROFILE AT STA. 364+38.24
INR365L1	3.70	365+15.27, 65.50' L	SEE PROFILE AT STA. 364+69.30
IND365L2	3.91	365+15.43, 5.15' L	SEE PROFILE AT STA. 364+67.06
INR365R1	7.79	365+32.72, 65.50' R	SEE PROFILE AT STA. 365+32.72
MH365R2	13.75	365+15.53, 36.74' R	SEE PROFILE AT STA. 365+67.45
INR365R3	3.88	365+01.20, 111.99' R	SEE PROFILE AT STA. 365+67.45
INR365R4	4.09	364+69.30, 107.22' R	SEE PROFILE AT STA. 367+18.53
MH365R5	13.50	364+67.06, 36.76' R	SEE PROFILE AT STA. 367+18.53
FES366L2		365+67.45, 100.86' L	SEE PROFILE AT STA. 367+18.49
INC367L1	4.79	367+18.53, 1.04' L	SEE PROFILE AT STA. 367+18.49
INR367R1	8.88	367+18.49, 25.50' R	SEE PROFILE AT STA. 367+18.48
MH367R2	15.00	367+18.48, 36.49' R	SEE PROFILE AT STA. 367+18.48

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Print Date: 1/8/2024  
 File Name: P1-18300DR\_PLAN\_06pp.dgn  
 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:  
 Revised:  
 Void:

**MARKSHEFFEL ROAD  
DRAINAGE PLAN**  
 STA 361+00.00 TO STA 368+00.00

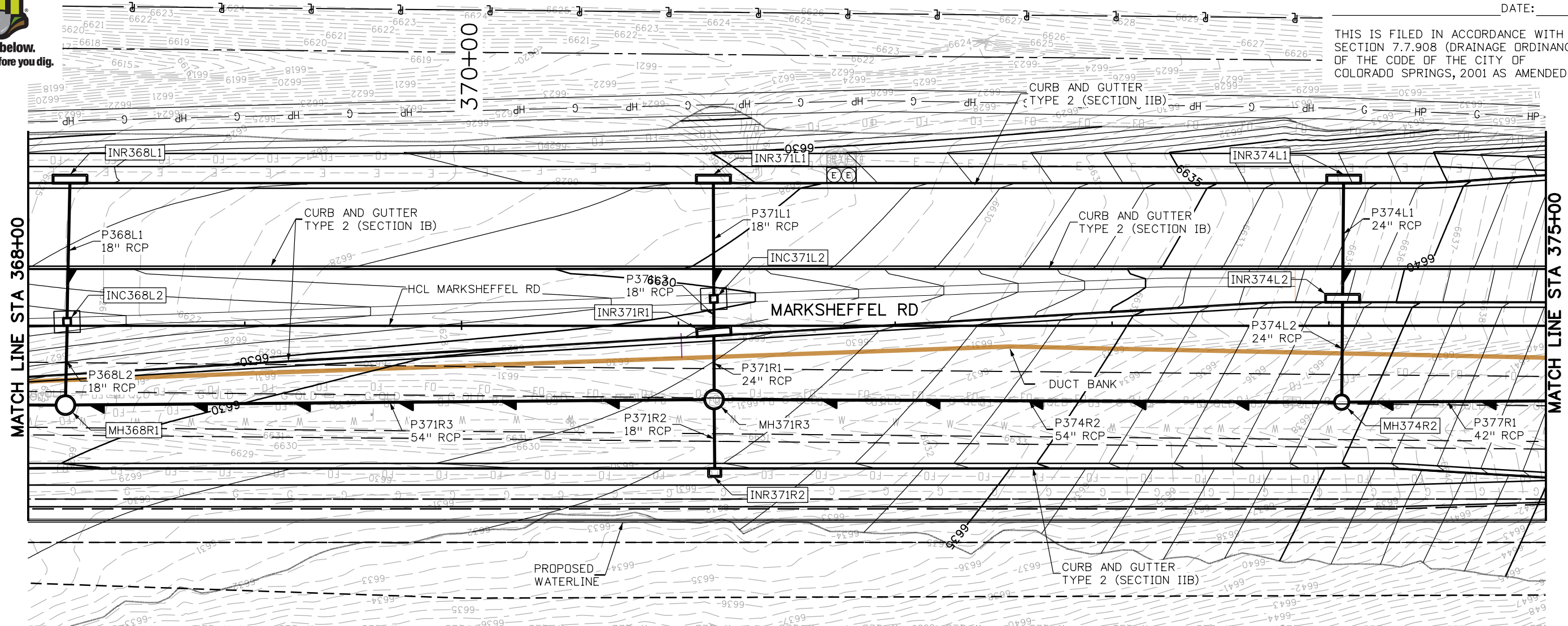
Designer: ZL      Structure  
 Detailer: JAM      Numbers  
 Sheet Subset: DRAINAGE      Subset Sheets: 10 of 36

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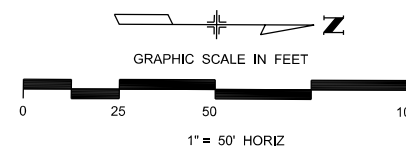


**DRAINAGE LEGEND:**

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STRUCTURE ID TABLE			
STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
INR368L1	6.23	368+19.43, 65.50' L	SEE PROFILE AT STA. 368+19.43
INC368L2	6.41	368+18.08, 1.82' L	SEE PROFILE AT STA. 368+18.08
MH368R2	14.91	368+17.30, 36.62' R	SEE PROFILE AT STA. 368+17.30
INR371L1	4.60	371+16.15, 65.50' L	SEE PROFILE AT STA. 371+16.15
INC371L2	5.50	371+16.33, 12.42' L	SEE PROFILE AT STA. 371+16.33
INR371R1	7.21	371+16.50, 4.94' R	SEE PROFILE AT STA. 371+16.50
INR371R2	7.38	371+16.77, 65.50' R	SEE PROFILE AT STA. 371+16.77
MH371R3	11.74	371+16.48, 34.03' R	SEE PROFILE AT STA. 371+16.48
INR374L1	3.56	374+06.84, 65.50' L	SEE PROFILE AT STA. 374+06.84
INR374L2	5.49	374+06.34, 10.50' L	SEE PROFILE AT STA. 374+06.34
MH374R2	13.63	374+05.91, 35.27' R	SEE PROFILE AT STA. 374+05.91

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Print Date: 1/8/2024  
 File Name: P1-18300DR\_PLAN\_07pp.dgn  
 Horiz. Scale: 1:50    Vert. Scale:  
 Unit Information    Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.



**Jacobs**  
 5555 Tech Center Dr  
 Suite 210  
 Colorado Springs, CO 80919  
 Phone: 719-633-8805

No Revisions:	MARKSHEFFEL ROAD DRAINAGE PLAN	
Revised:	STA 368+00.00 TO STA 375+00.00	
Void:	Designer: ZL	Structure Numbers
	Detailer: JAM	
	Sheet Subset: DRAINAGE	Subset Sheets: 11 of 36

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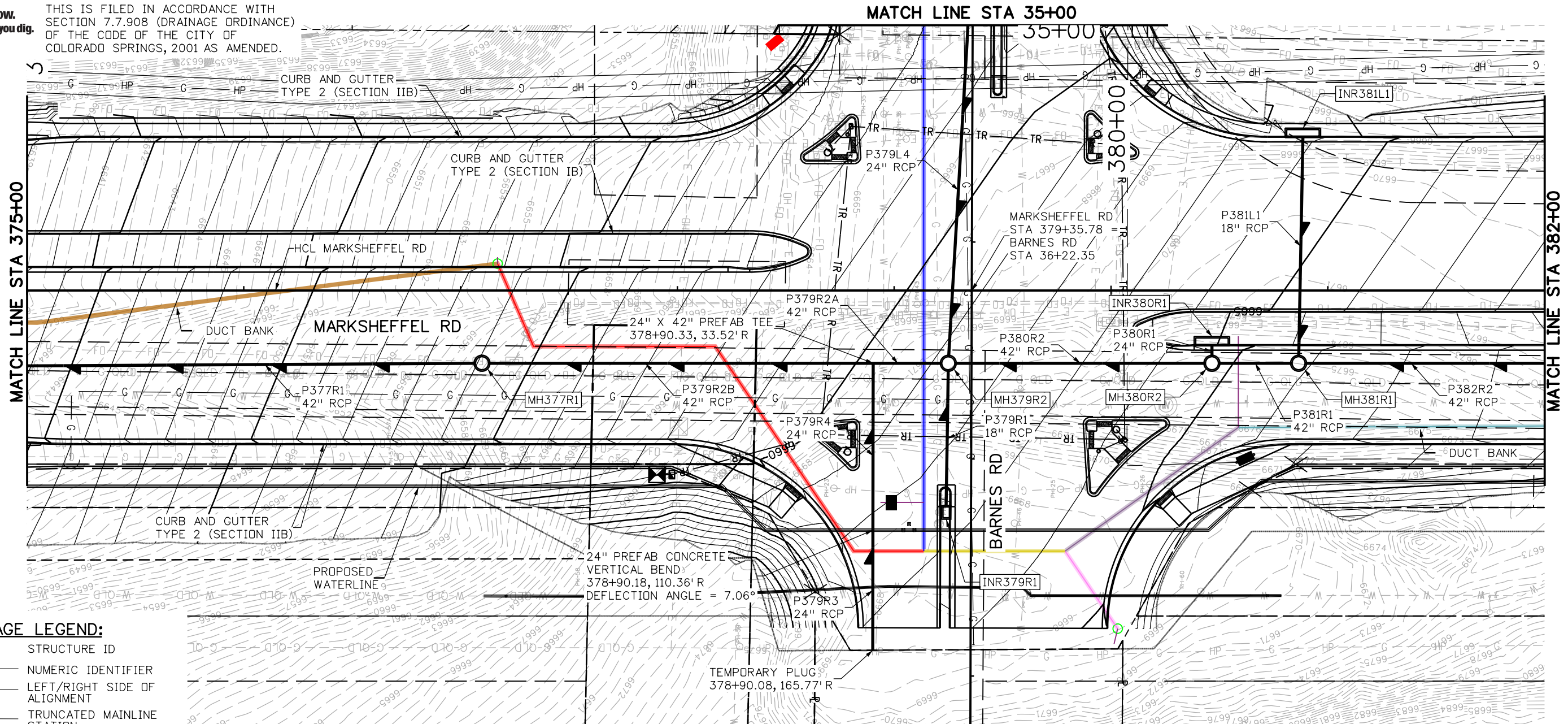


Know what's below.  
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DRAINAGE DESIGN

DATE: \_\_\_\_\_

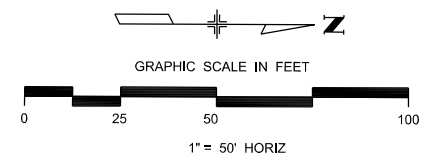
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**DRAINAGE LEGEND:**

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STRUCTURE ID TABLE			
STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
MH377R1	13.05	377+09.88, 33.50' R	SEE PROFILE AT STA. 377+09.88
INR379R1	5.87	379+26.13, 102.22' R	SEE PROFILE AT STA. 379+26.13
MH379R2	13.38	379+24.96, 33.53' R	SEE PROFILE AT STA. 379+24.96
INR380R1	4.29	380+46.54, 25.50' R	SEE PROFILE AT STA. 380+46.54
MH380R2	10.63	380+46.54, 33.51' R	SEE PROFILE AT STA. 380+46.54
INR381L1	5.22	380+88.50, 70.50' L	SEE PROFILE AT STA. 380+88.50
MH381R1	9.79	380+86.50, 33.50' R	SEE PROFILE AT STA. 380+86.50



THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ESTABLISHED CRITERIA FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

Print Date: 1/8/2024  
 File Name: P1-18300DR\_PLAN\_08pp.dgn  
 Horiz. Scale: 1:50     Vert. Scale:  
 Unit Information     Unit Leader  
 Project No./Code     PPRTA     10444

Sheet Revisions		
Date:	Comments	Init.

**Jacobs**  
 5555 Tech Center Dr  
 Suite 210  
 Colorado Springs, CO 80919  
 Phone: 719-633-8805

No Revisions:	MARKSHEFFEL ROAD DRAINAGE PLAN	
Revised:	STA 375+00.00 TO STA 382+00.00	
Void:	Designer: ZL	Structure Numbers
	Detailer: JAM	
	Sheet Subset: DRAINAGE	Subset Sheets: 12 of 36

Sheet Number **12**

T:\A\haugh 3:18:26 PM pwt:\wils-pw.bentley.com\wis-pw\Documents\8100-TRN\City of Colorado Springs\CD\21-100-183-00\18300DR\_Hydraulics\_Drainage\Drawings\P1-18300DR\_PLAN\_08pp.dgn





Know what's below.  
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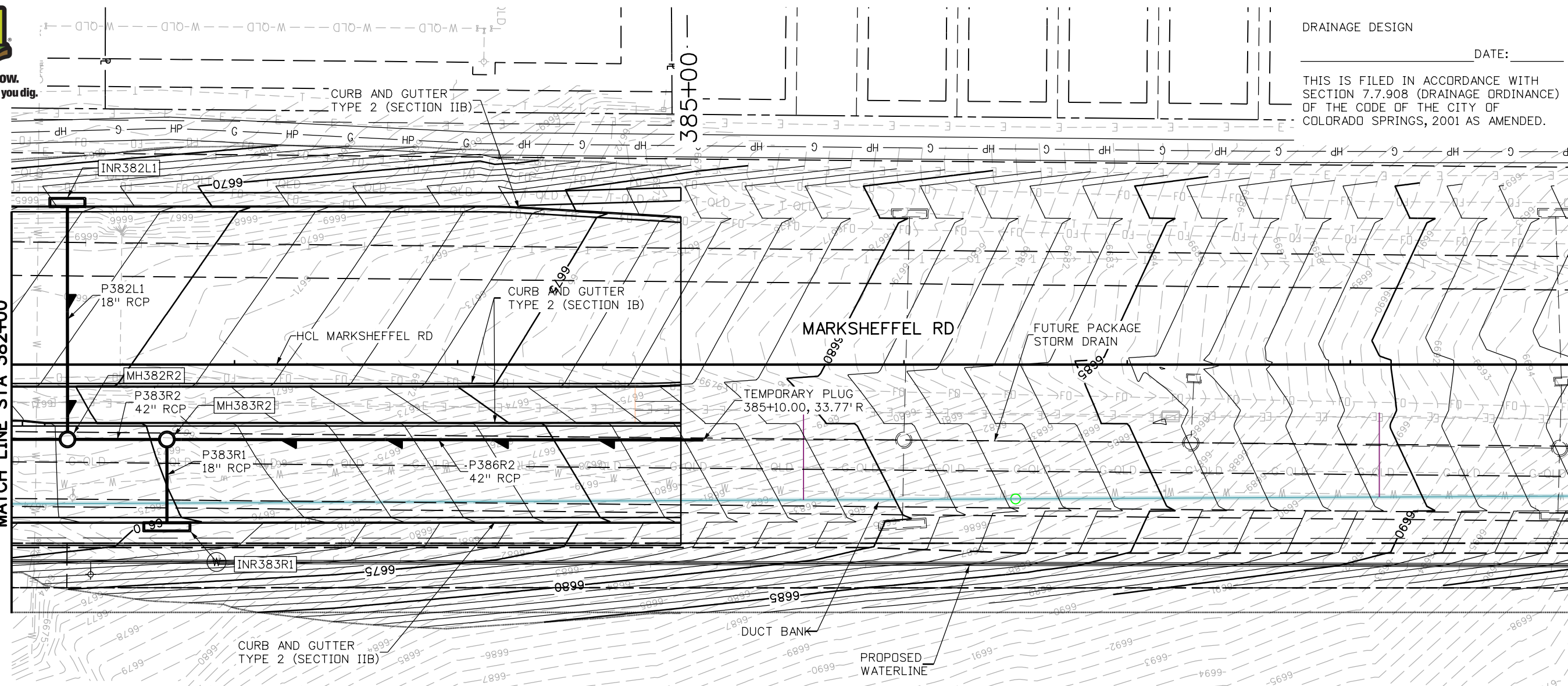
DRAINAGE DESIGN

DATE: \_\_\_\_\_

THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.908 (DRAINAGE ORDINANCE) OF THE CODE OF THE CITY OF COLORADO SPRINGS, 2001 AS AMENDED.

MATCH LINE STA 382+00

385+00

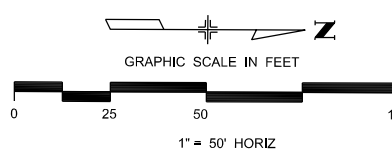


**DRAINAGE LEGEND:**

- KKXXS# STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

STRUCTURE ID TABLE			
STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
INR382L1	3.73	382+25.15, 70.50' L	SEE PROFILE AT STA. 382+25.15
MH382R2	8.15	382+25.20, 33.50' R	SEE PROFILE AT STA. 382+25.20
INR383R1	4.34	382+69.72, 70.50' R	SEE PROFILE AT STA. 382+69.72
MH383R2	7.81	382+69.72, 33.54' R	SEE PROFILE AT STA. 382+69.72

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ESTABLISHED CRITERIA FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.



Print Date: 1/8/2024  
 File Name: P1-18300DR\_PLAN\_09pp.dgn  
 Horiz. Scale: 1:50    Vert. Scale:  
 Unit Information    Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.



**Jacobs**  
 5555 Tech Center Dr  
 Suite 210  
 Colorado Springs, CO 80919  
 Phone: 719-633-8805

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 Revised:  
 Void:

**MARKSHEFFEL ROAD DRAINAGE PLAN**  
 STA 382+00.00 TO STA 389+00.00

Designer: ZL    Structure Numbers:  
 Detailer: JAM  
 Sheet Subset: DRAINAGE    Subset Sheets: 13 of 36

Sheet Number **13**

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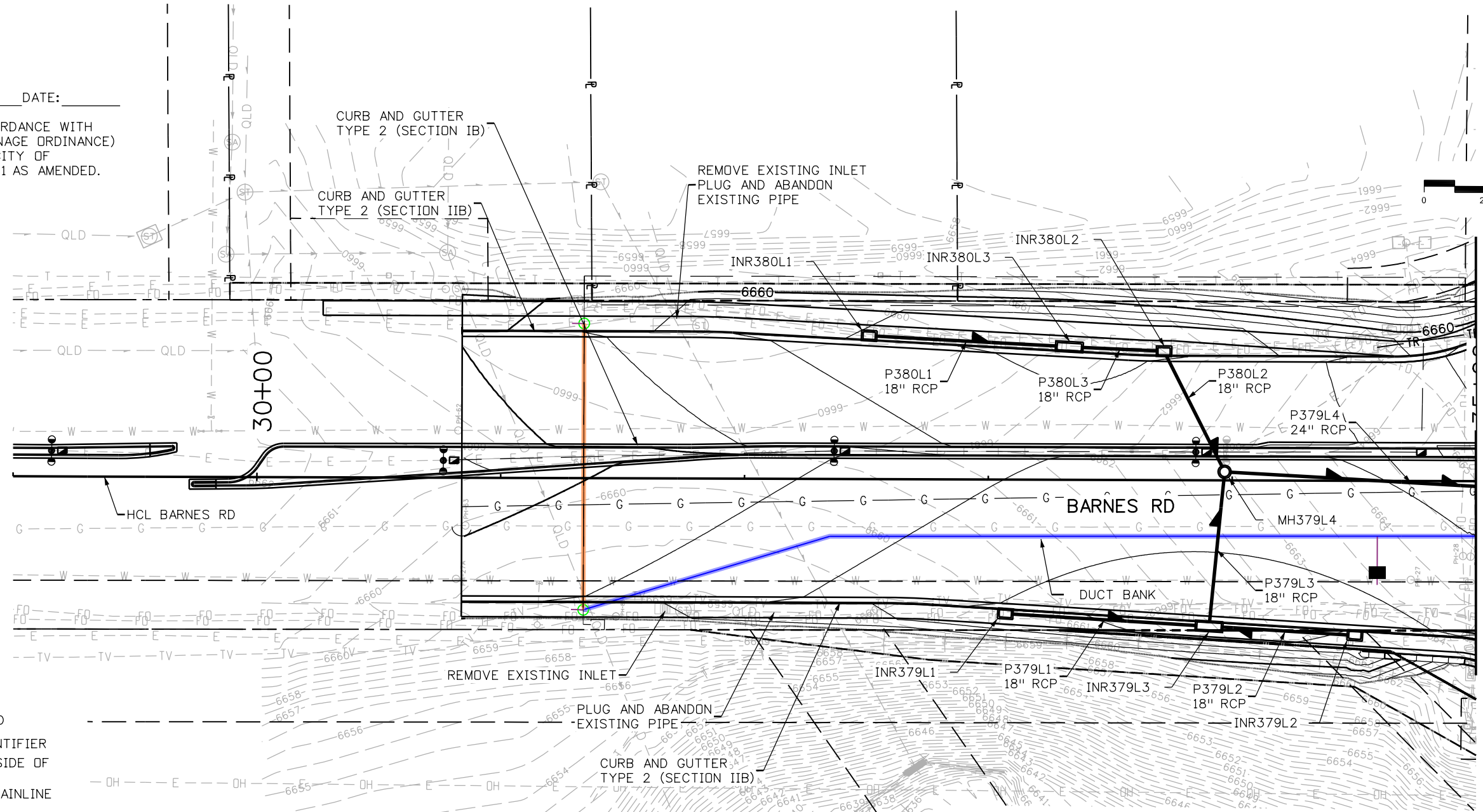
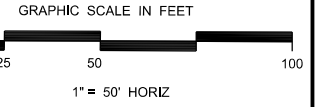
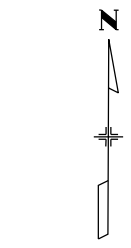


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DRAINAGE LEGEND:

- KKXXXS# STRUCTURE ID
- NUMERIC IDENTIFIER
- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- RIPRAP

STRUCTURE ID TABLE			
STRUCTURE NUMBER	DEPTH (FT)	STATION/OFFSET	NOTES
INR379L1	3.95	378+83.98, 315.22' L	SEE PROFILE AT STA. 378+83.98
INR379L2	3.84	378+75.10, 171.84' L	SEE PROFILE AT STA. 378+75.10
INR379L3	4.22	378+78.81, 231.67' L	SEE PROFILE AT STA. 378+78.81
MH379L4	6.53	379+44.29, 201.61' L	SEE PROFILE AT STA. 379+44.29
INR380L1	4.16	379+93.74, 371.30' L	SEE PROFILE AT STA. 379+93.74
INR380L2	4.87	379+87.35, 250.26' L	SEE PROFILE AT STA. 379+87.35
INR380L3	4.13	379+89.20, 289.23' L	SEE PROFILE AT STA. 379+89.20

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE ESTABLISHED CRITERIA FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS, OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

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Print Date: 1/8/2024
File Name: P1-18300DR_PLAN_10pp.dgn
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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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	Date:	Comments	Init.

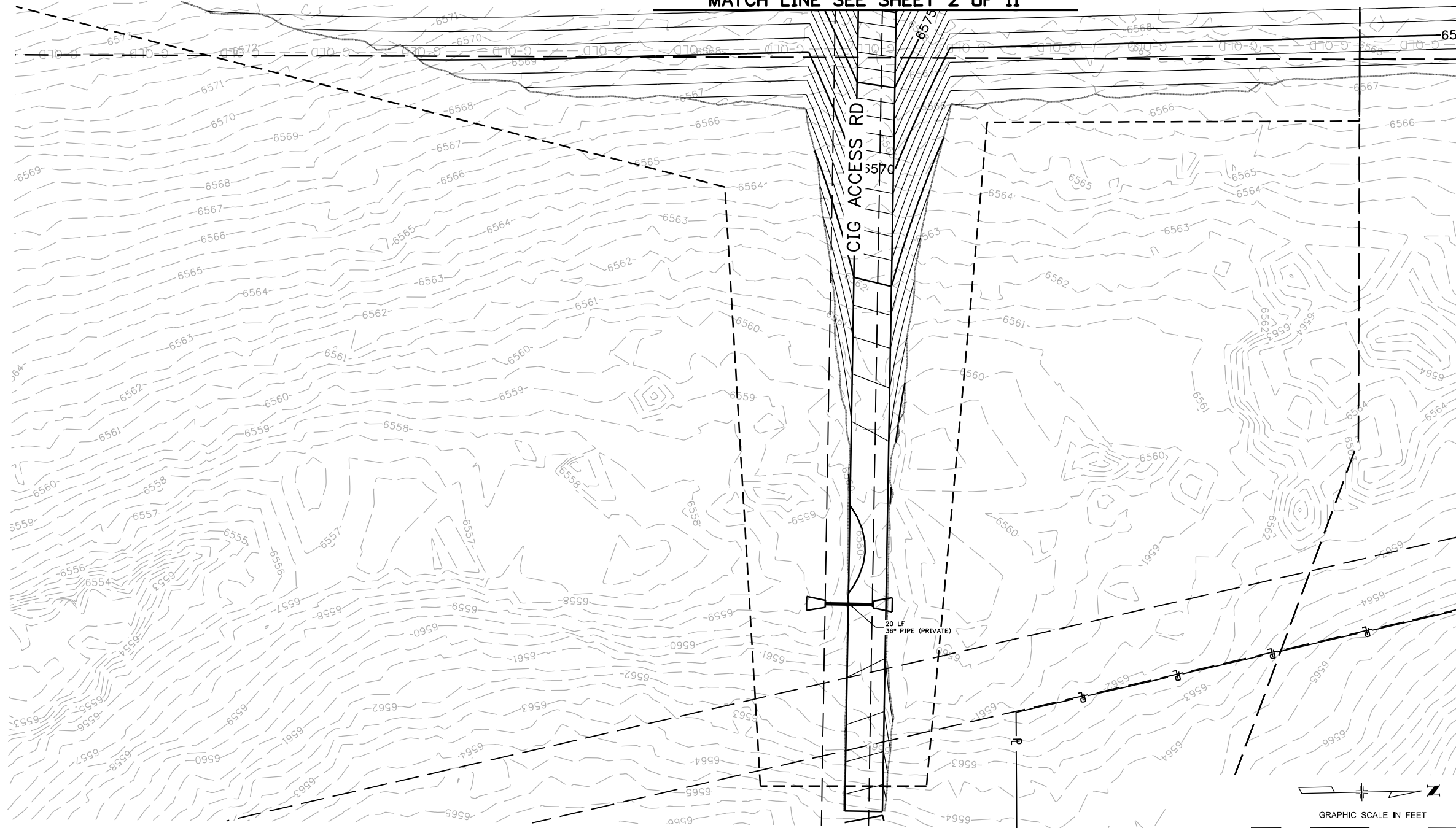


No Revisions:
Revised:
Void:

BARNES RD DRAINAGE PLAN STA 29+00.00 TO STA 35+00.00			
Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: 14	of 36	Sheet Number 14

**NO DRAINAGE IMPROVEMENTS THIS SHEET**

MATCH LINE SEE SHEET 2 OF 11



**DRAINAGE LEGEND:**

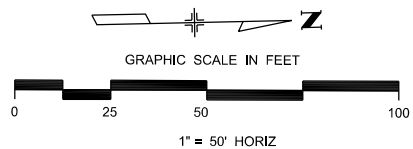
- KKXXS# STRUCTURE ID
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- LEFT/RIGHT SIDE OF ALIGNMENT
- TRUNCATED MAINLINE STATION
- STRUCTURE TYPE
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- EXISTING ROW LINE
- EXISTING PROPERTY LINE
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DRAINAGE DESIGN

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Print Date: 1/8/2024
File Name: P1-18300DR_PLAN_11pp.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.



No Revisions:
Revised:
Void:

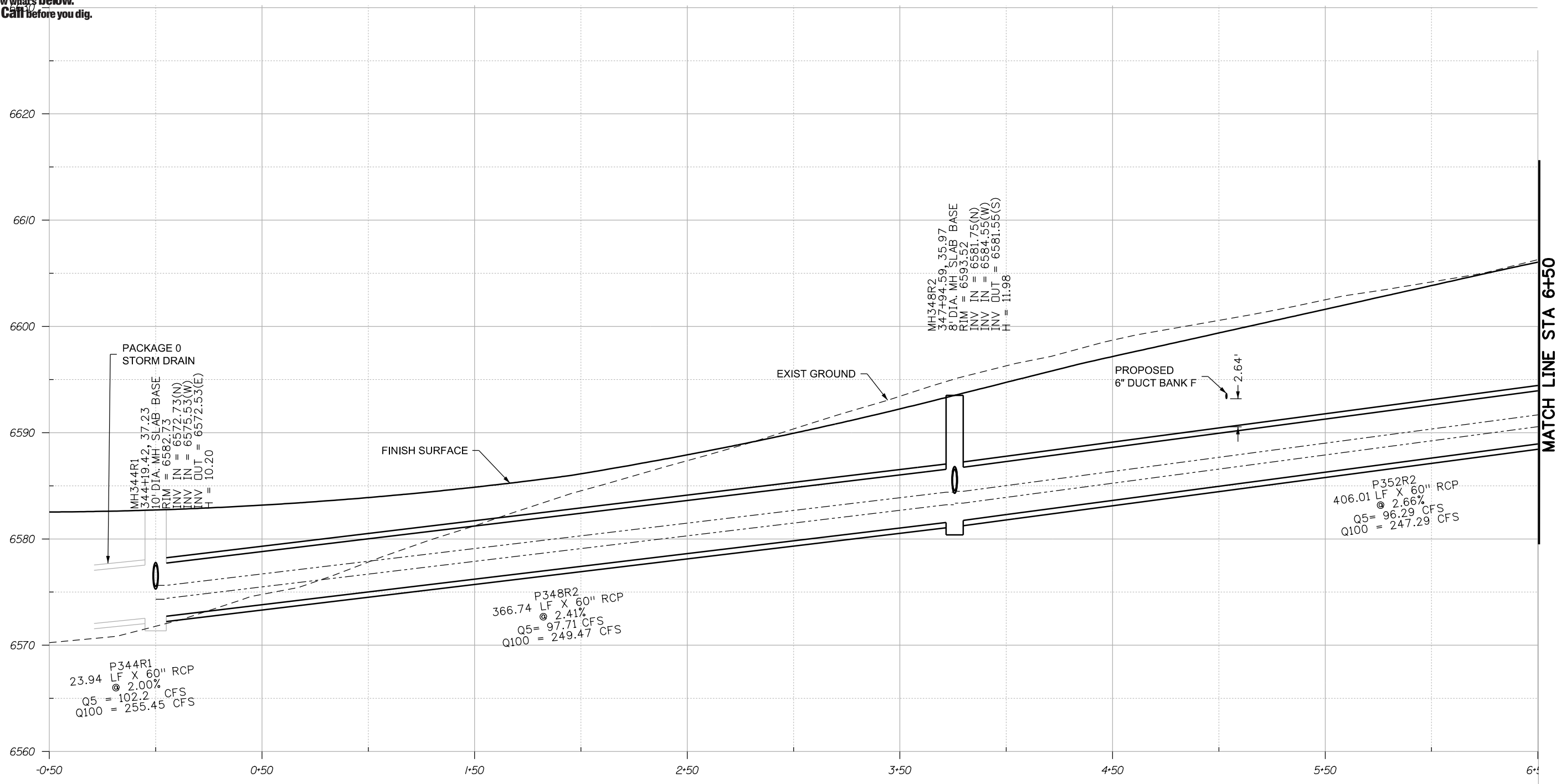
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Designer:	ZL	Structure Numbers
Detailer:	JAM	
Sheet Subset: DRAINAGE	Subset Sheets: 15 of 36	

Sheet Number **15**



Know what's below.  
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PACKAGE 0  
STORM DRAIN

MH344R1  
34.4+19.42, 37.23  
10' DIA. MH SLAB BASE  
RIM = 6582.73  
INV IN = 6572.73(N)  
INV IN = 6575.53(W)  
INV OUT = 6572.53(E)  
H = 10.20

MH348R2  
34.7+94.59, 35.97  
8' DIA. MH SLAB BASE  
RIM = 6593.52  
INV IN = 6581.75(N)  
INV IN = 6584.55(W)  
INV OUT = 6581.55(S)  
H = 11.98

P348R2  
366.74 LF X 60" RCP  
@ 2.41%  
Q5 = 97.71 CFS  
Q100 = 249.47 CFS

P344R1  
23.94 LF X 60" RCP  
@ 2.00%  
Q5 = 102.2 CFS  
Q100 = 255.45 CFS

P352R2  
406.01 LF X 60" RCP  
@ 2.66%  
Q5 = 96.29 CFS  
Q100 = 247.29 CFS

P344R1 TO P352R2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_01pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

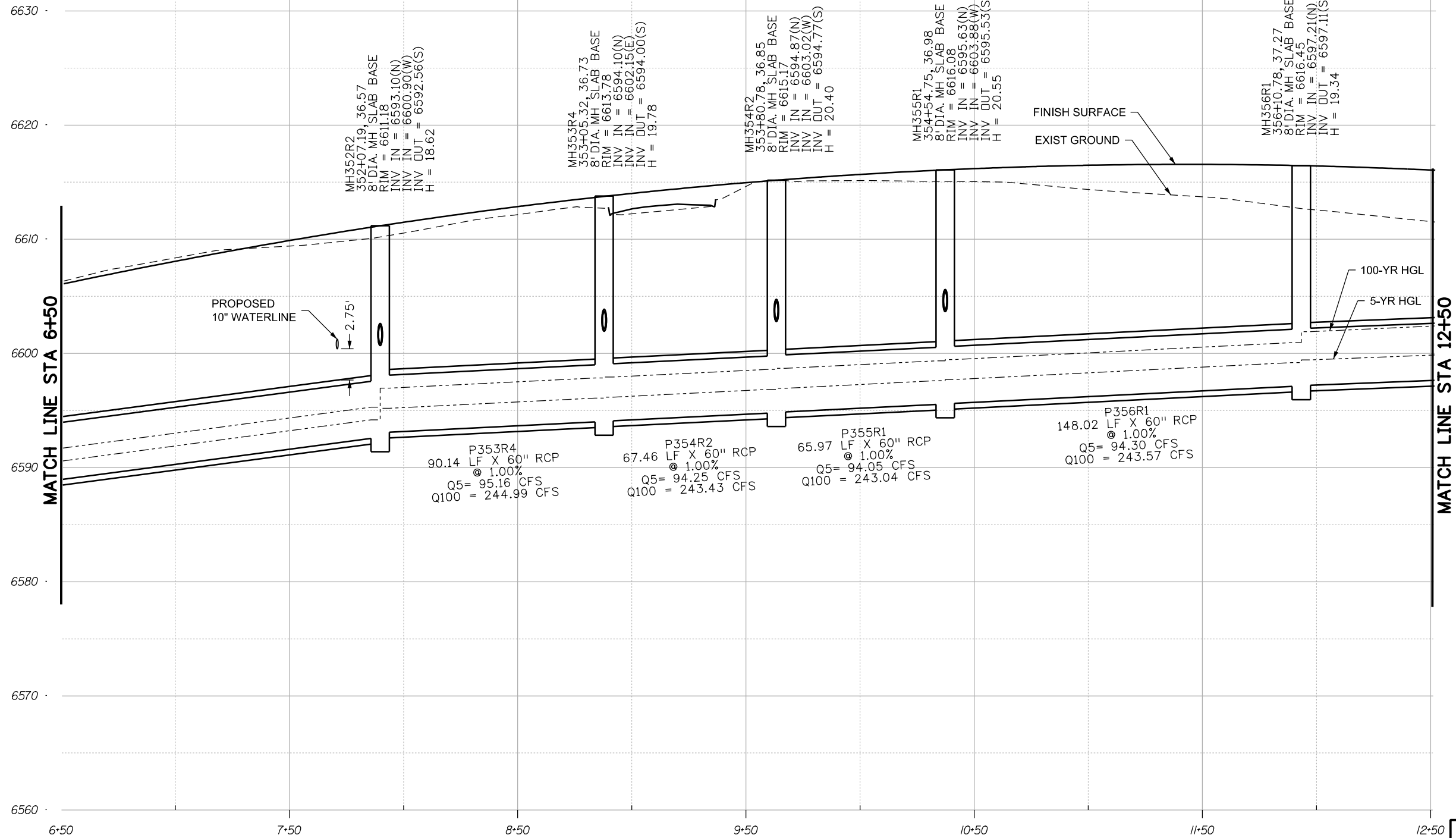
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Revised:
Void:

MARKSHEFFEL ROAD DRAINAGE PROFILES		
Designer:	ZL	Structure Numbers
Detailer:	JAM	Structure Numbers
Sheet Subset: DRAINAGE	Subset Sheets: 16 of 36	Sheet Number

Sheet Number **16**



Know what's below.  
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MH352R2 TO MH356R1

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PERF_02pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.



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Revised:
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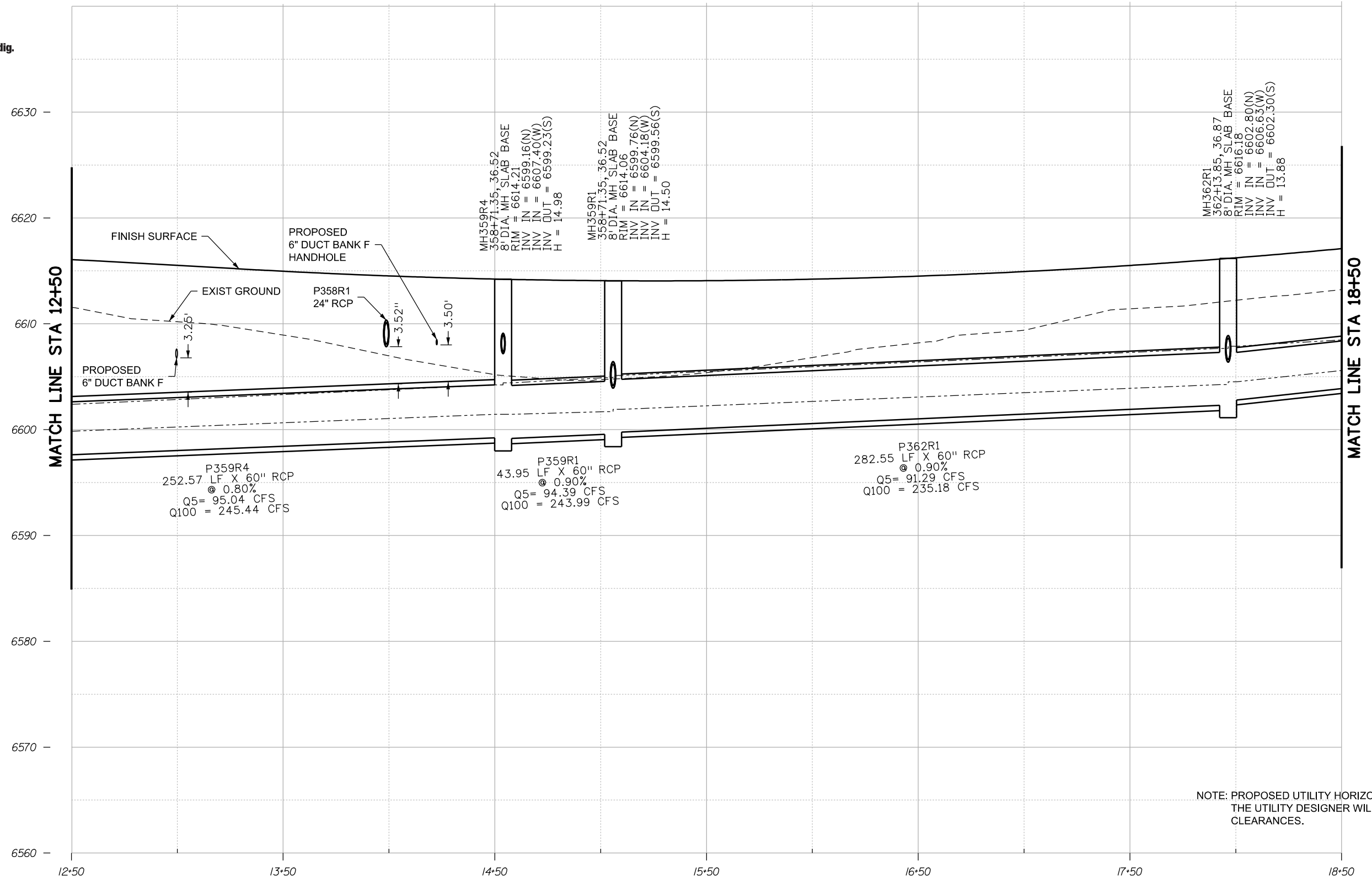
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Detailer:	JAM	Numbers
Sheet Subset: DRAINAGE	Subset Sheets: 17 of 36	Sheet Number

Sheet Number 17

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Know what's below.  
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NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

P359R4 TO MH362R1

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_03pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

5555 Tech Center Dr  
Suite 210  
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No Revisions:
Revised:
Void:

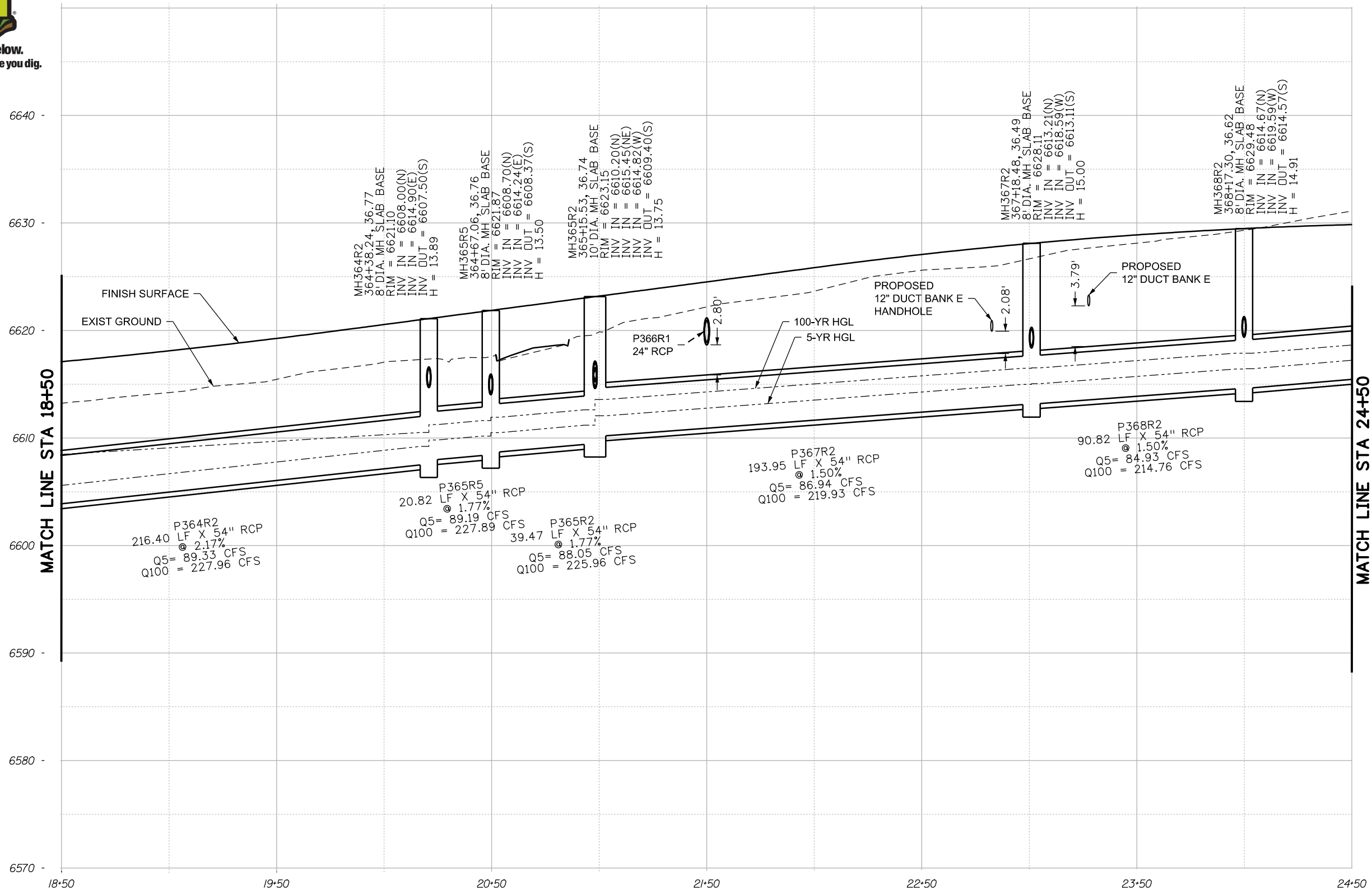
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Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: 18	of 36	Sheet Number 18

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P364R2 TO MH368R2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRF_04pr.dgn
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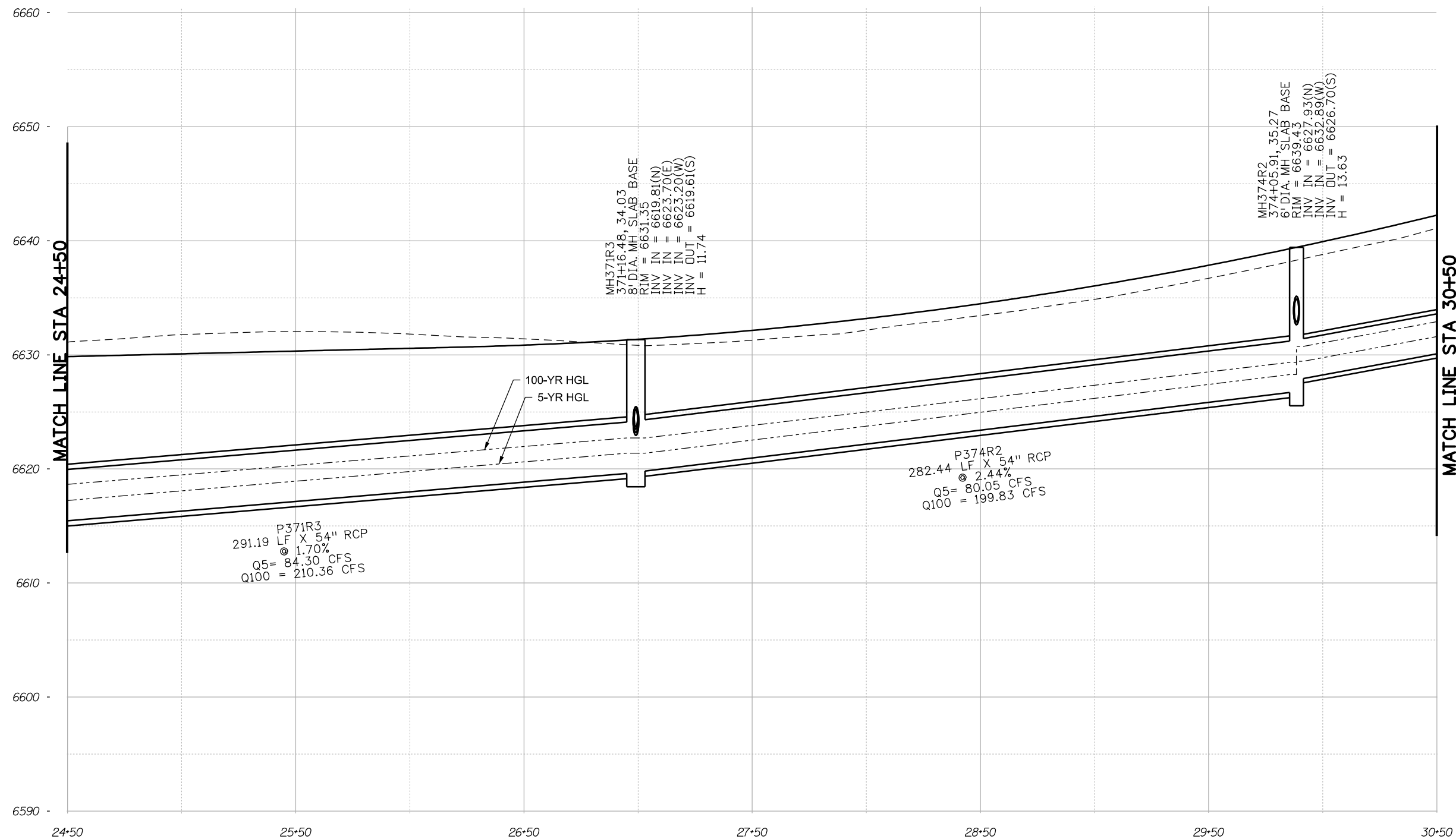
**Jacobs**  
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Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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Revised:
Void:

MARKSHEFFEL ROAD DRAINAGE PROFILES			
Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: 19	of 36	Sheet Number 19



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NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL  
CLEARANCES.

P371R3 TO MH374R2

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_05pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**Jacobs**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:
Revised:
Void:

MARKSHEFFEL ROAD DRAINAGE PROFILES			
Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
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Sheet Number	20
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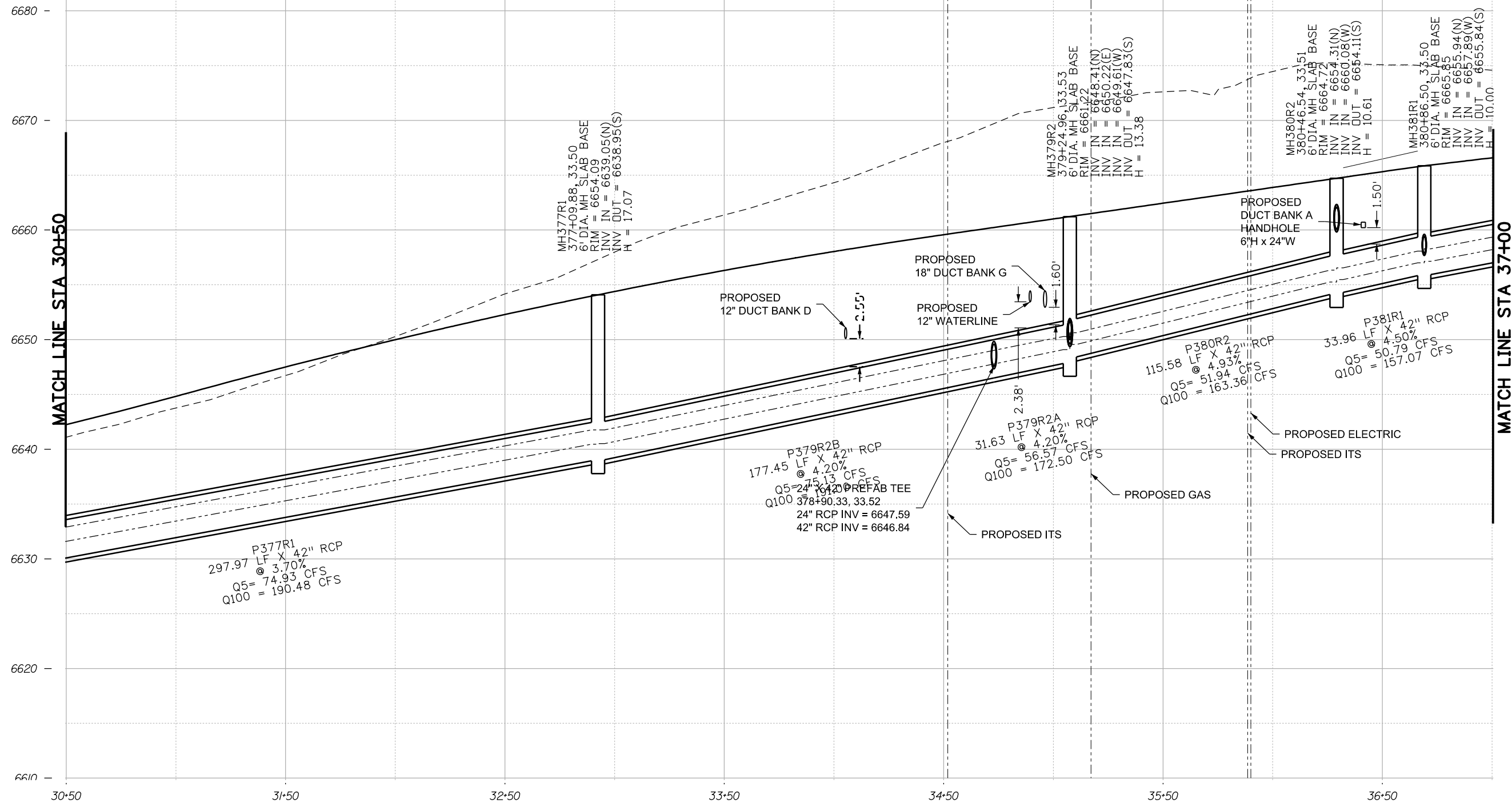
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Know what's below.  
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P377R1 TO MH381R1

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRF_06pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

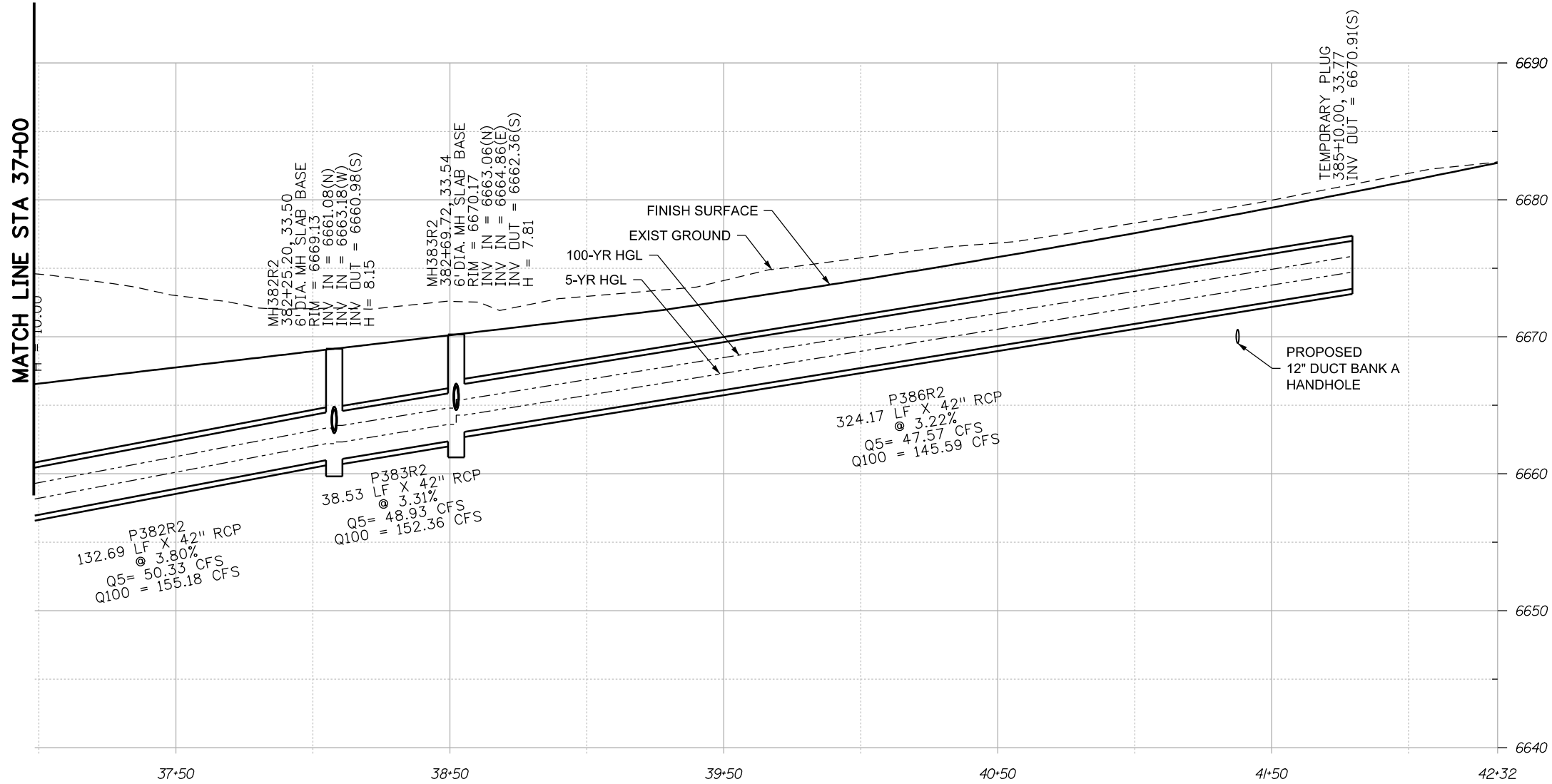
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:
Revised:
Void:

MARKSHEFFEL ROAD DRAINAGE PROFILES		
Designer:	ZL	Structure
Detailer:	JAM	Numbers
Sheet Subset: DRAINAGE	Subset Sheets: 21	of 36



Know what's below.  
Call before you dig.



**P382R2 TO P386R2**

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_07pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**Jacobs**  
5555 Tech Center Dr  
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Colorado Springs, CO 80919  
Phone: 719-633-8805

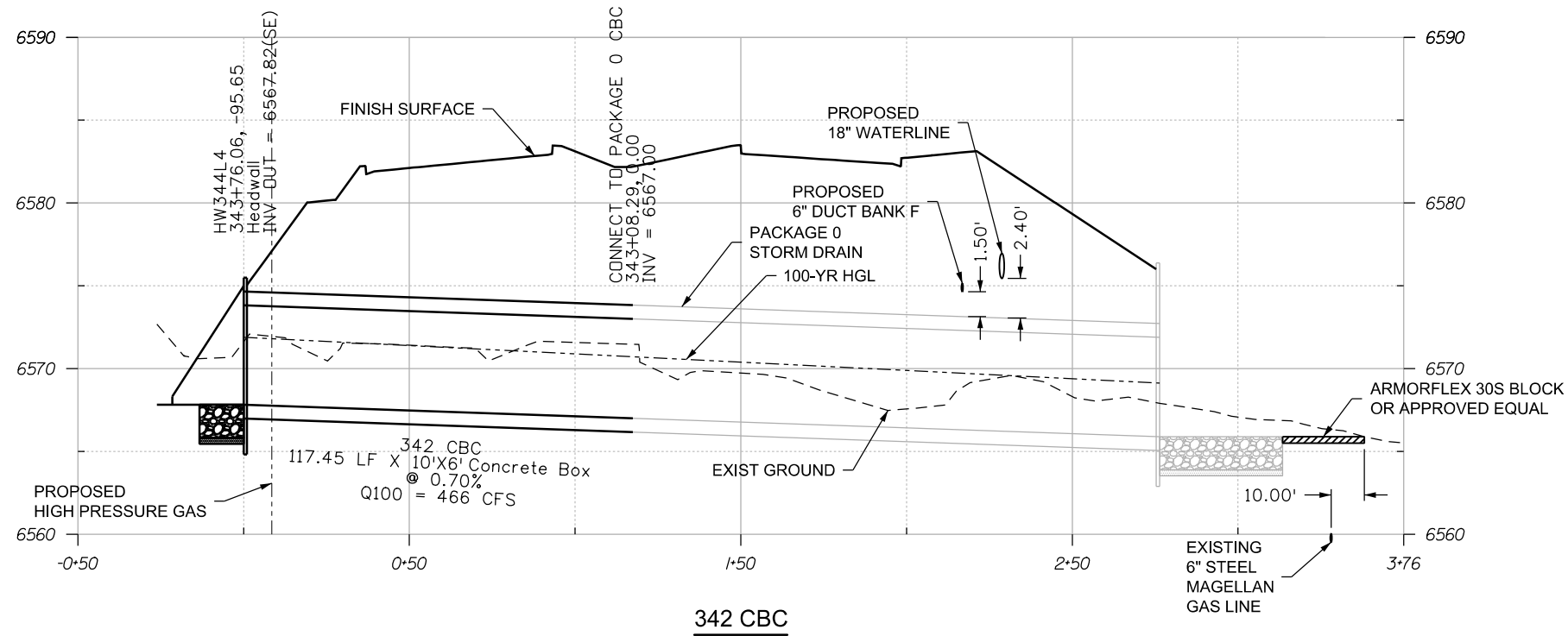
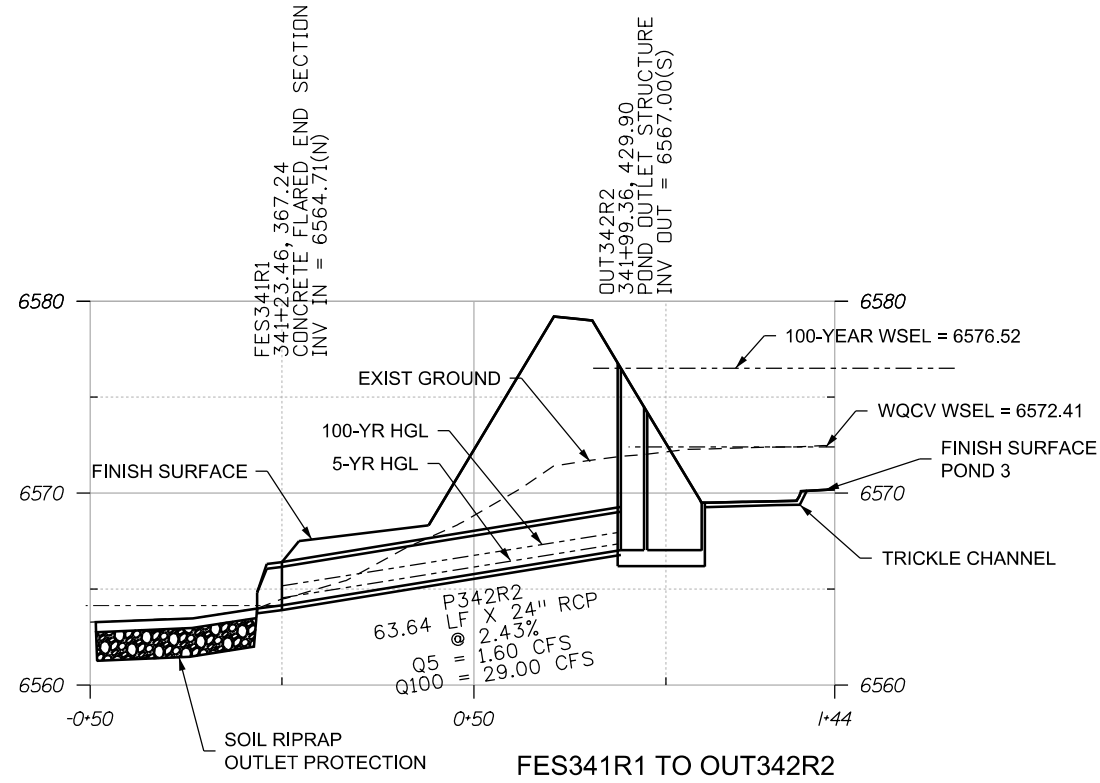
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Detailer:	JAM	Numbers	
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Know what's below.  
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NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN. THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

T:\Arough 3:18:56 PM p:\wils-pw.bentley.com\wils-pw\Documents\8100-TRN\City of Colorado Springs\CD\21-100-183-00\18300\Hydraulics\_Drainage\Drawings\P1-18300DR\_PRJ\_08pr.dgn

Print Date: 1/8/2024
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Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:
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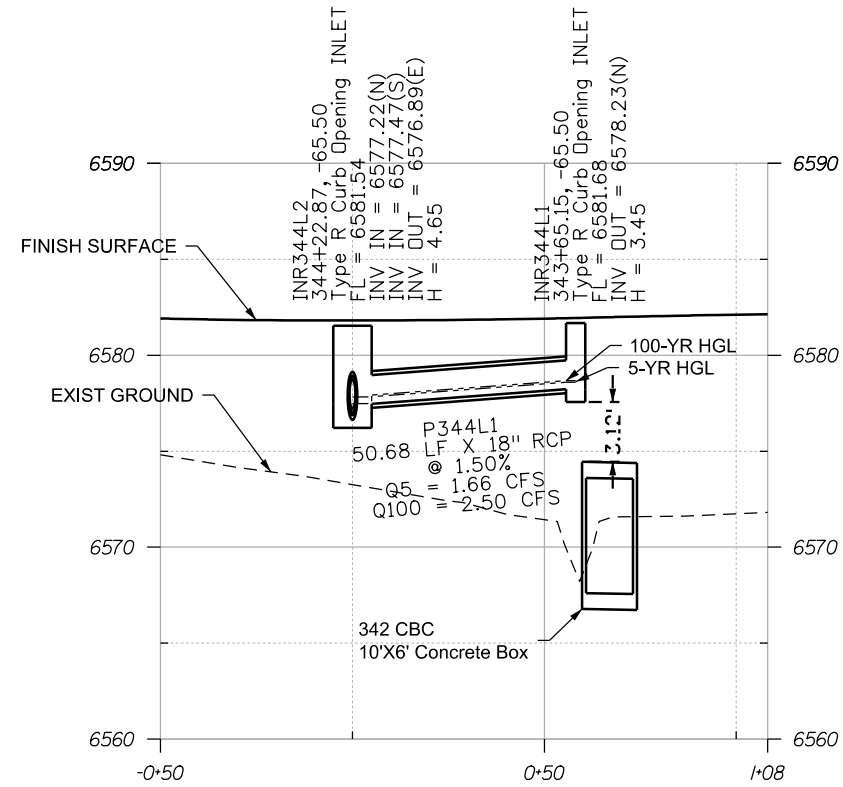
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Detailer:	JAM	
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Sheet Number	23
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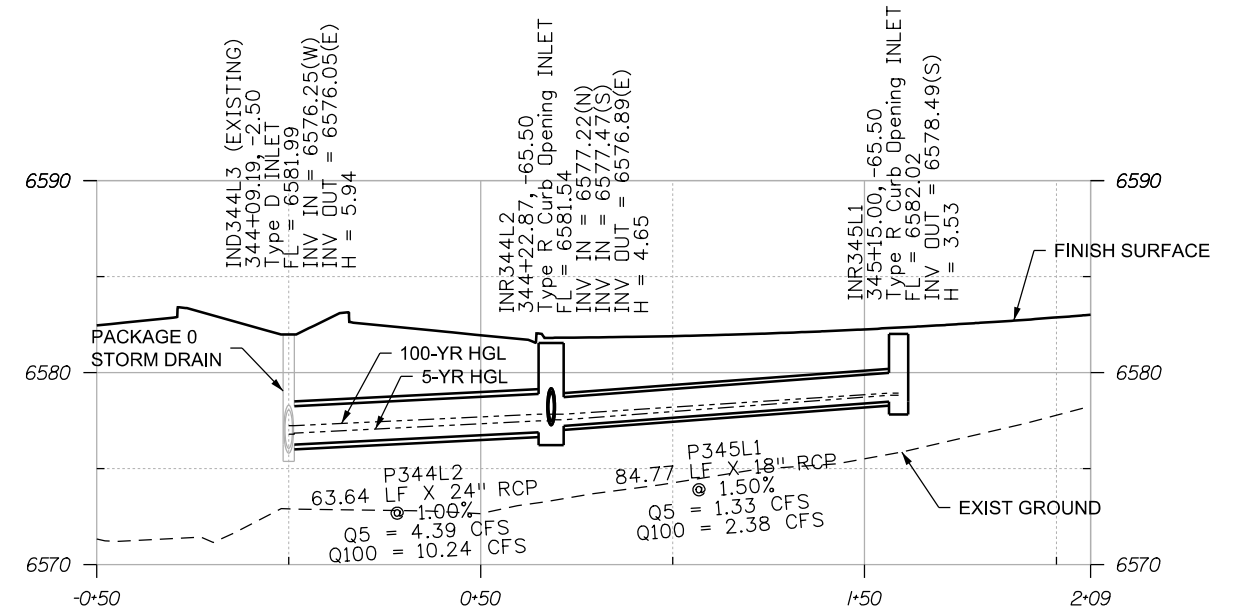


Know what's below.  
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INR344L2 TO INR344L1



IND344L3 TO INR345L1

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_09pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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PPRTA

Jacobs

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Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:
Revised:
Void:

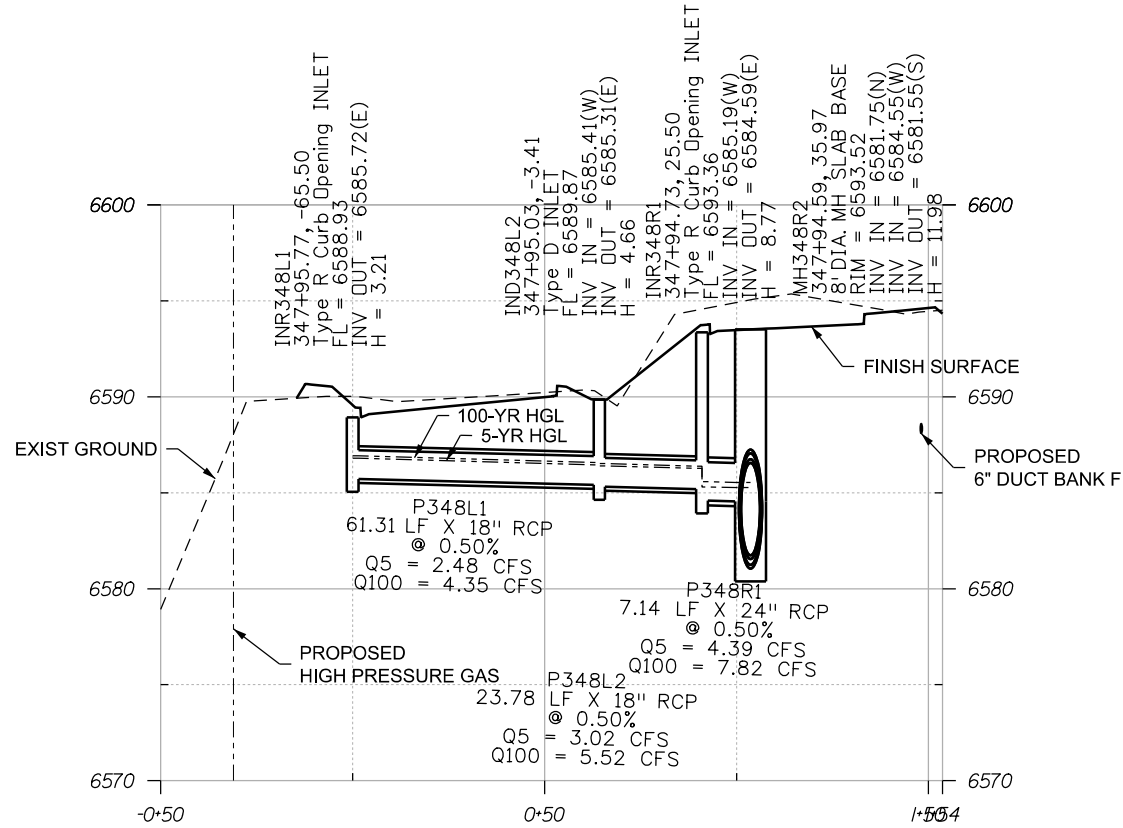
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Designer:	ZL	Structure Numbers
Detailer:	JAM	
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Sheet Number **24**

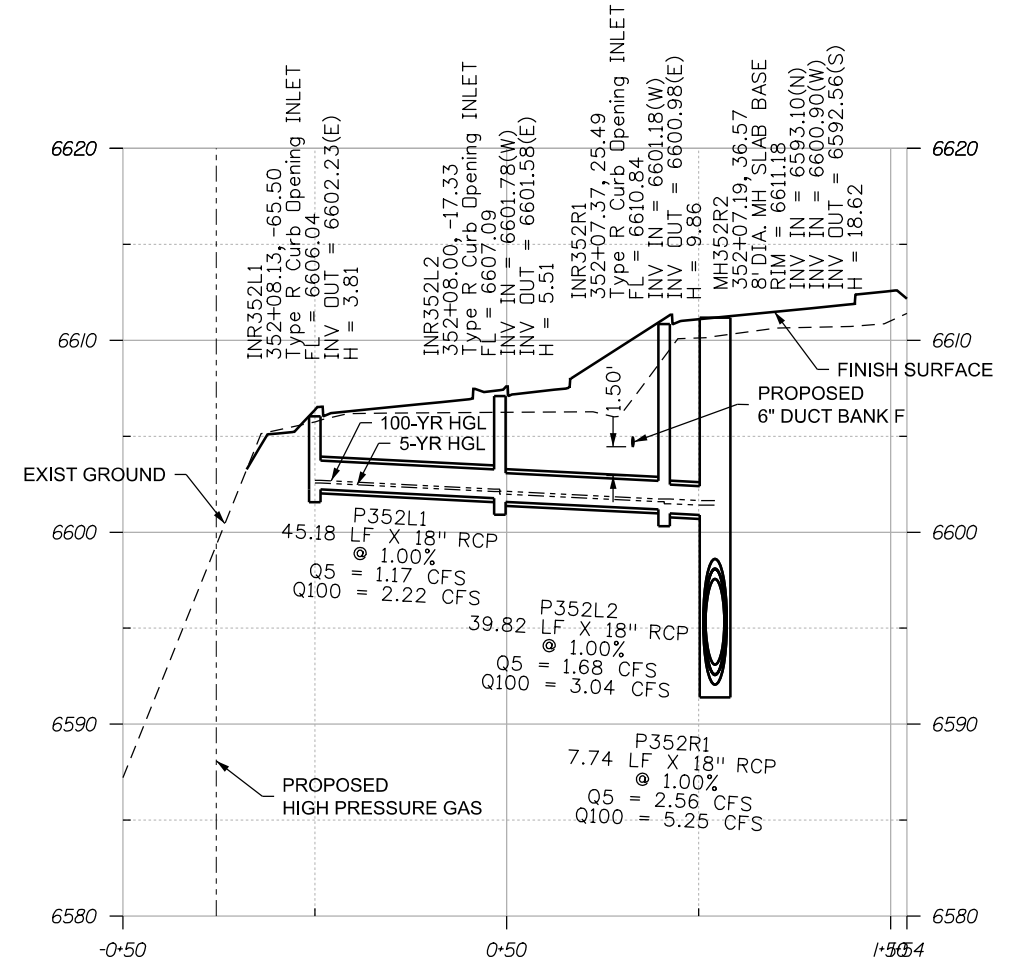


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INR348L1 TO MH348R2



INR352L1 TO MH352R2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_10.01pr.dgn
Horiz. Scale: 1:50
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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Phone: 719-633-8805

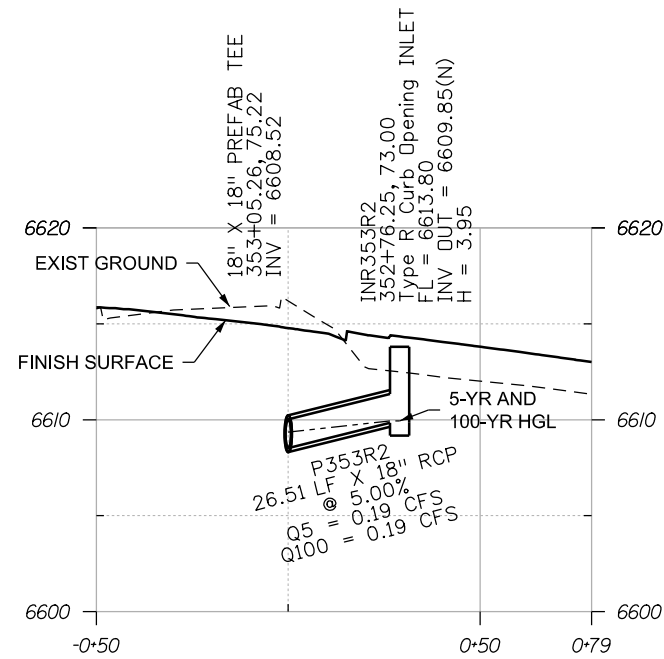
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Detailer:	JAM	Numbers
Sheet Subset: DRAINAGE	Subset Sheets: 25 of 36	Sheet Number 25

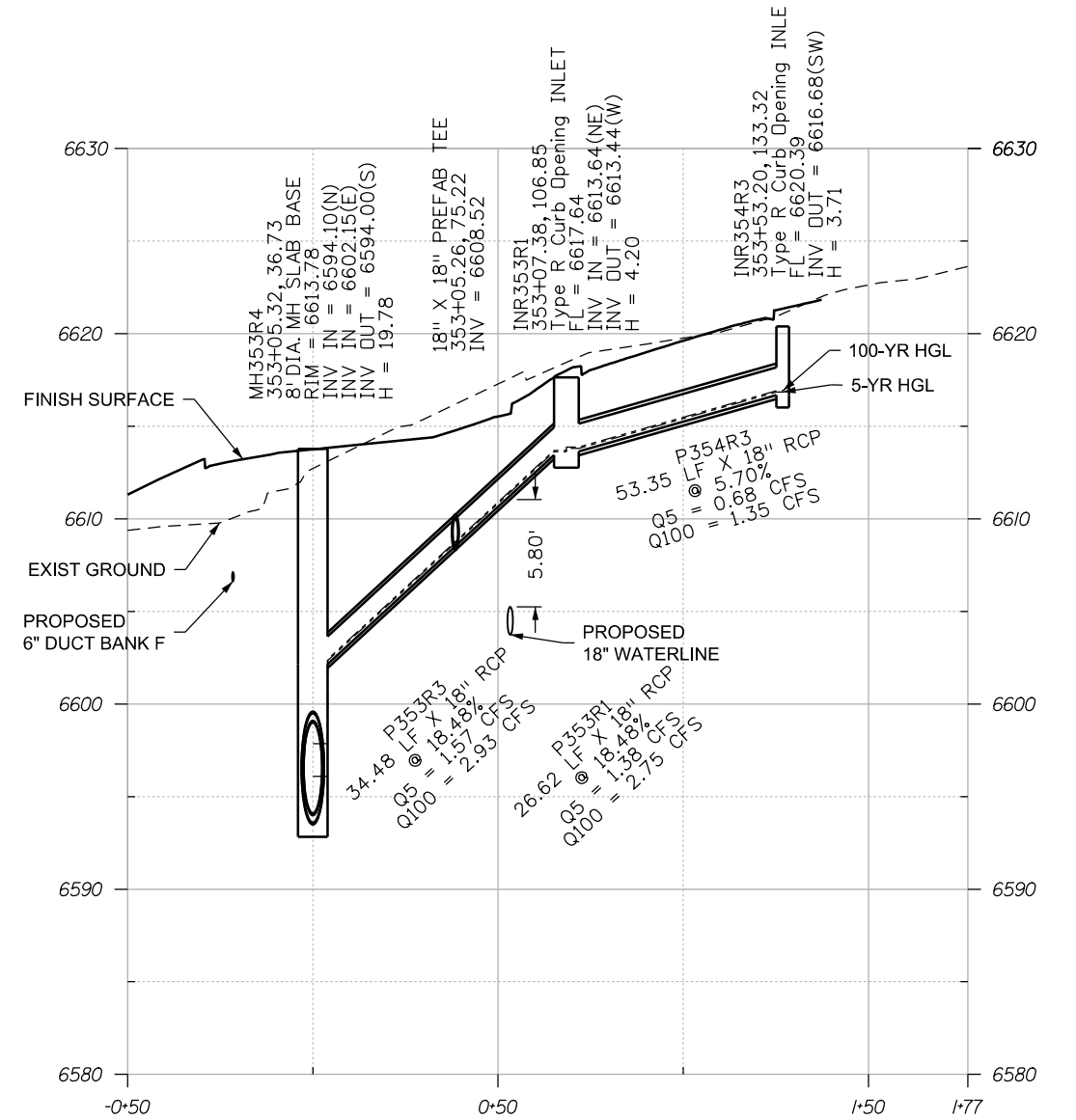


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P353R2 TO INR353R2



MH353R4 TO INR354R3

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRF_10.02pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Sheet Revisions		
Date:	Comments	Init.

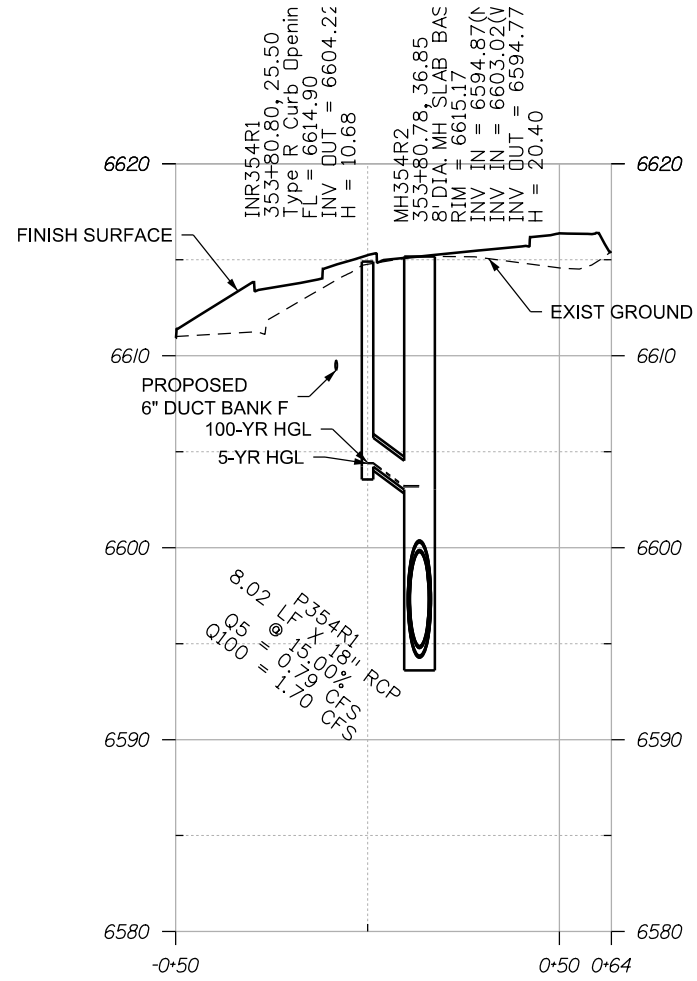


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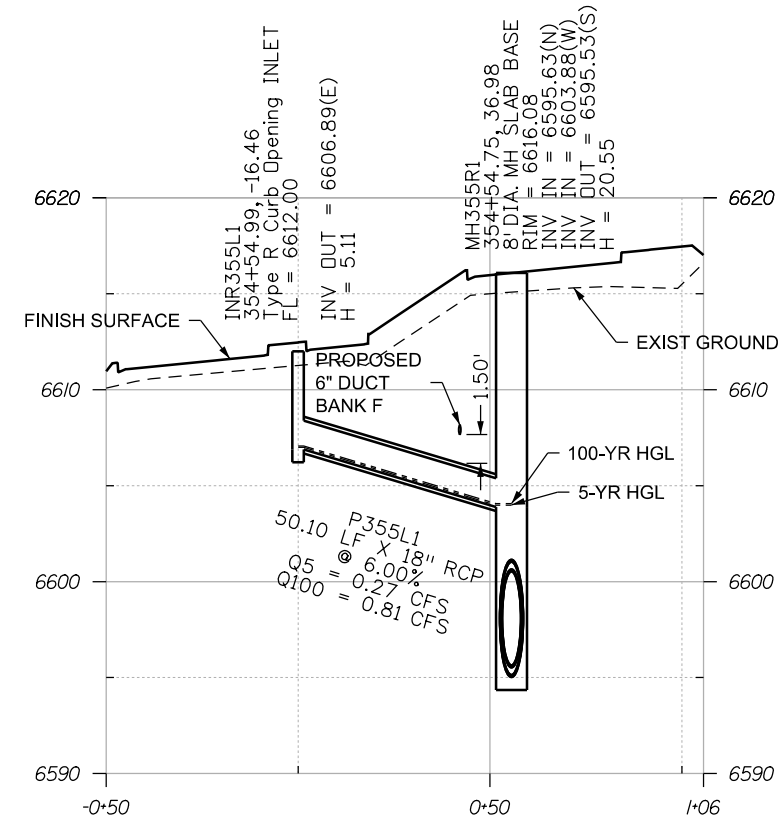
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Designer:	ZL	Structure Numbers
Detailer:	JAM	
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INR354R1 TO MH354R2



INR355L1 TO MH355R1

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.



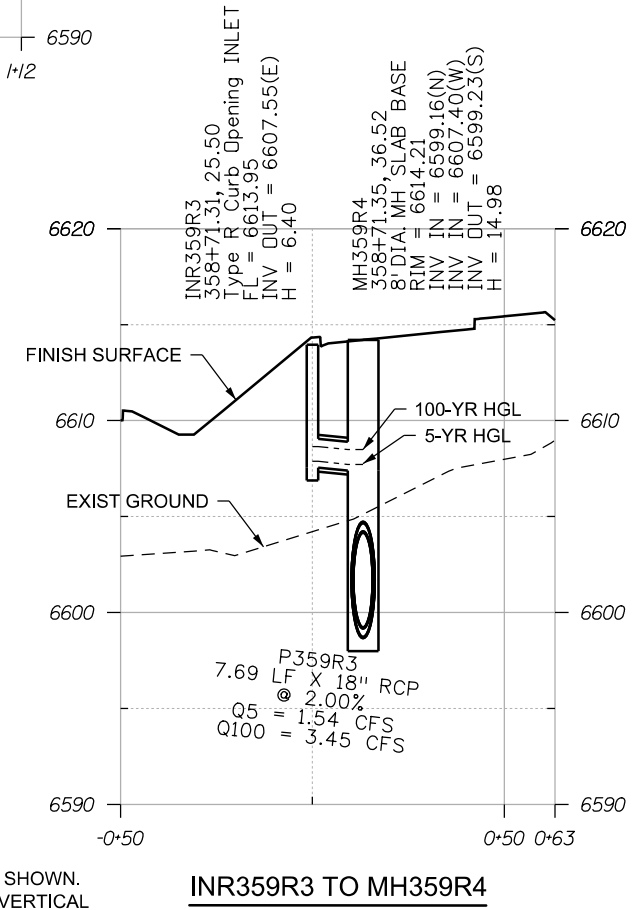
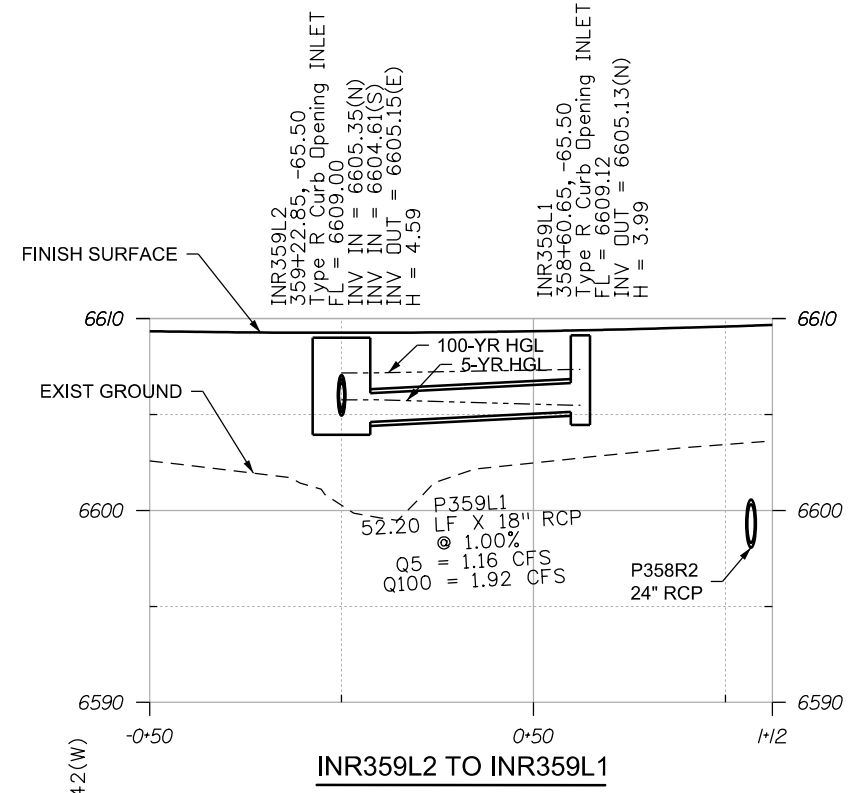
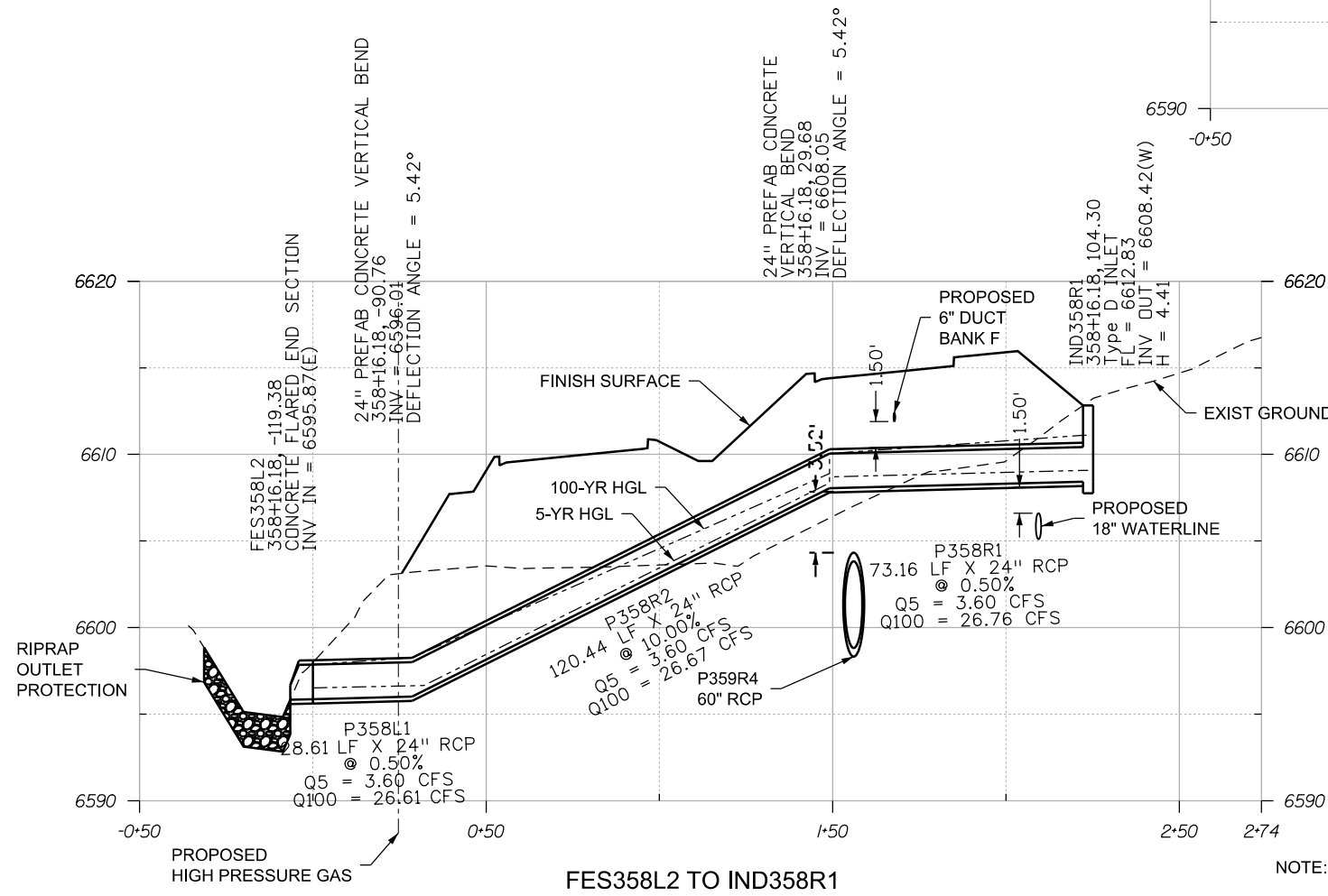
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Detailer:	JAM	
Sheet Subset: DRAINAGE	Subset Sheets: 27 of 36	



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NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN. THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRF_11.02pr.dgn
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

**COLORADO SPRINGS**  
OLYMPIC CITY USA

**JACOBS**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

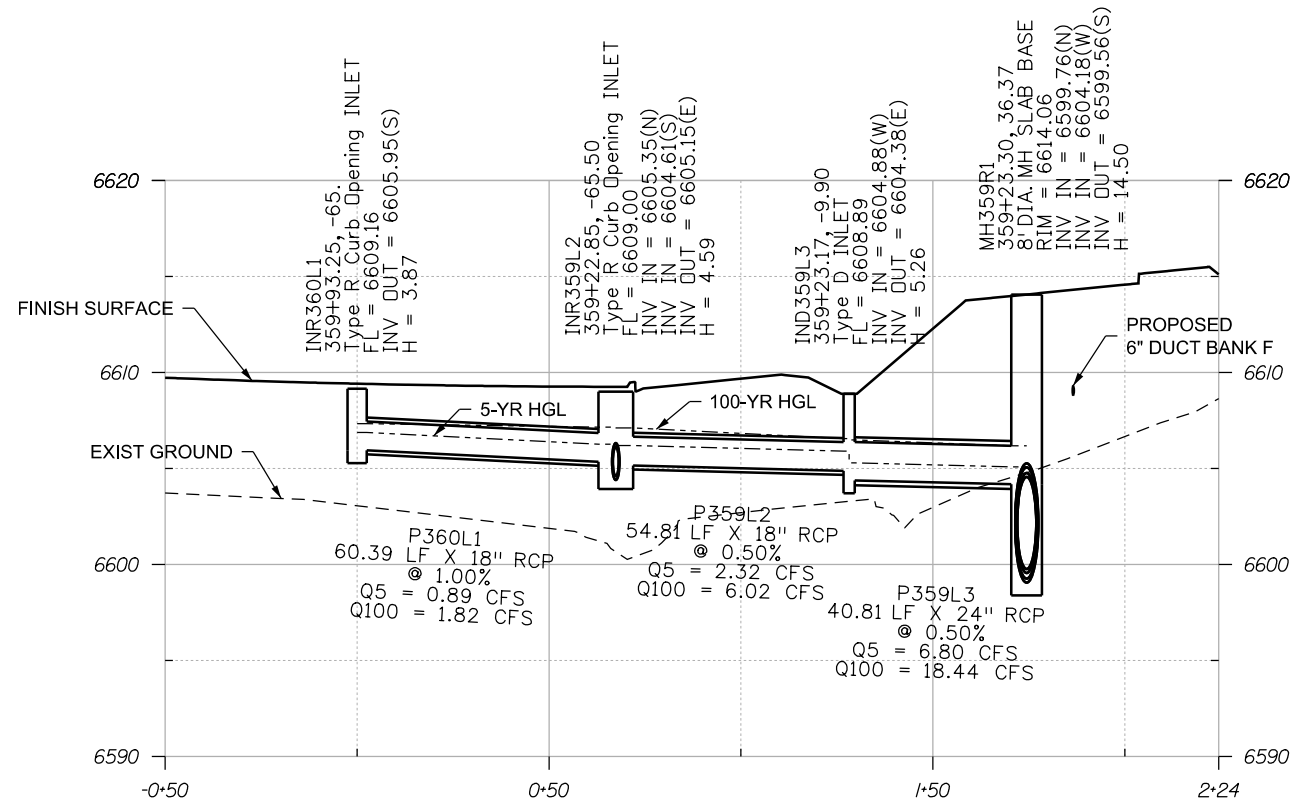
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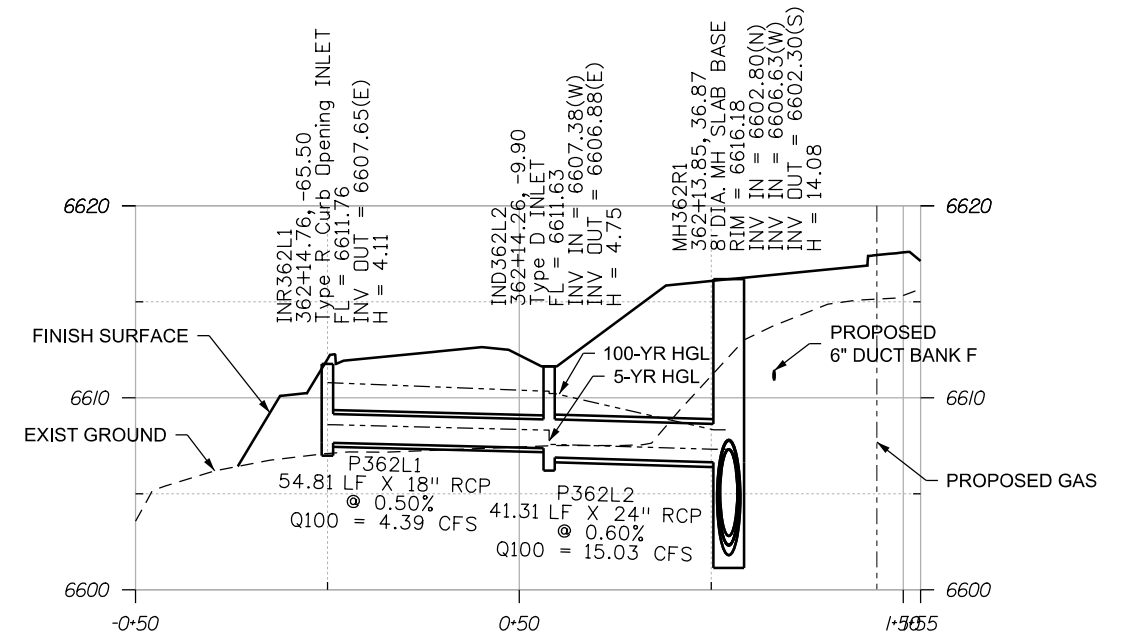




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INR360L1 TO MH359R1



INR362L1 TO MH362R1

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
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Project No./Code    PPRTA    10444

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Date:	Comments	Init.

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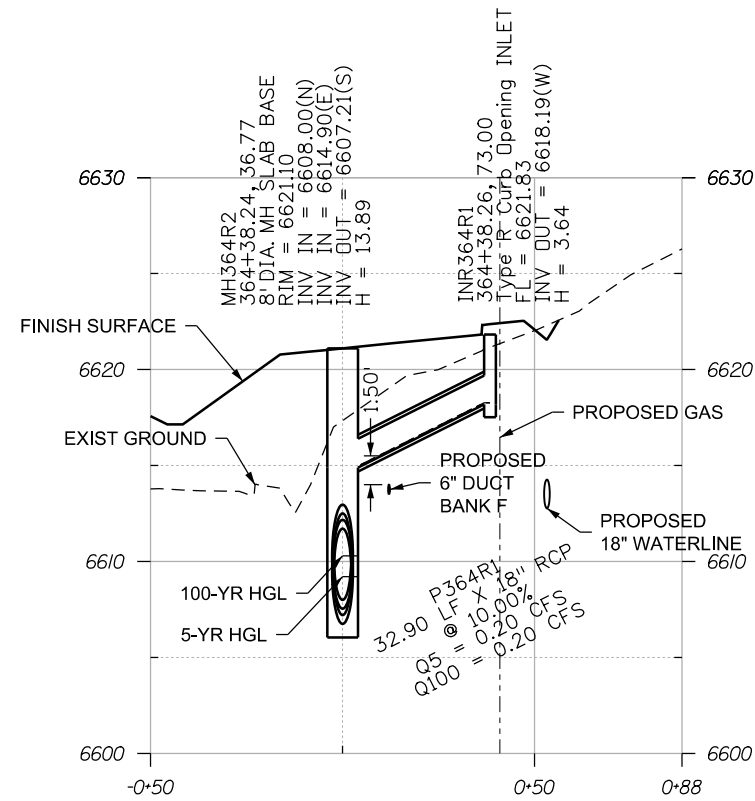
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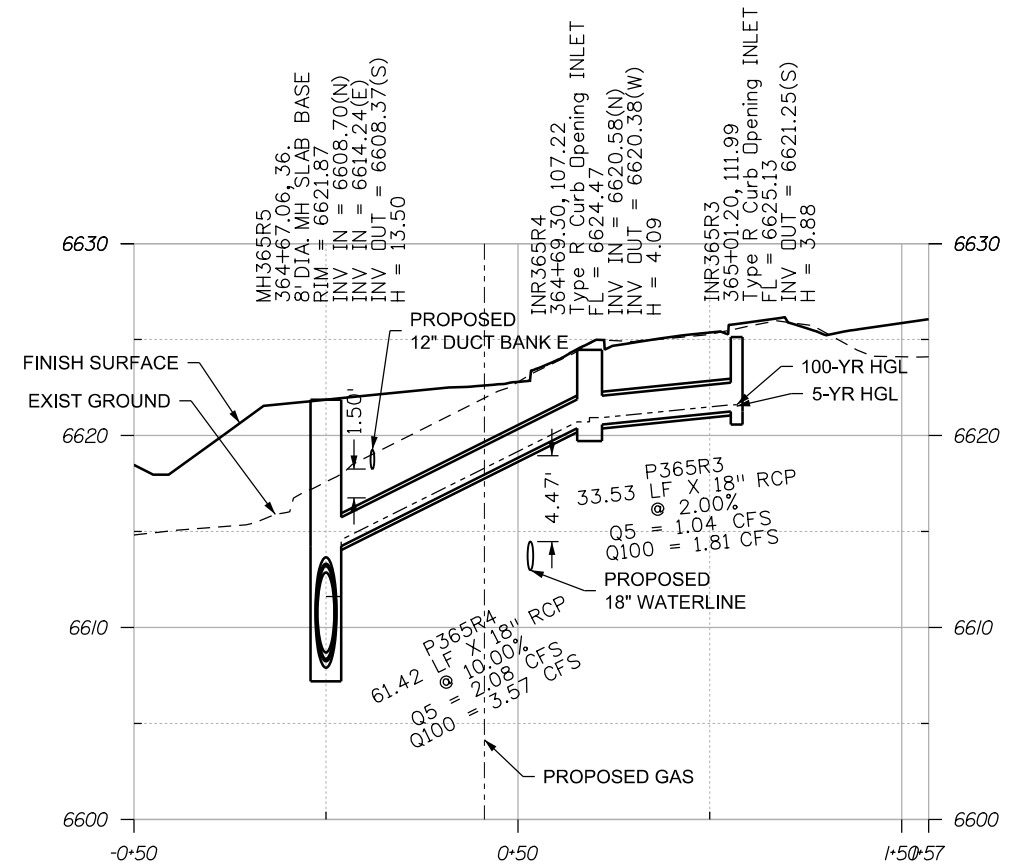
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MH364R2 TO INR364R1



MH365R5 TO INR365R3

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
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Project No./Code    PPRTA    10444

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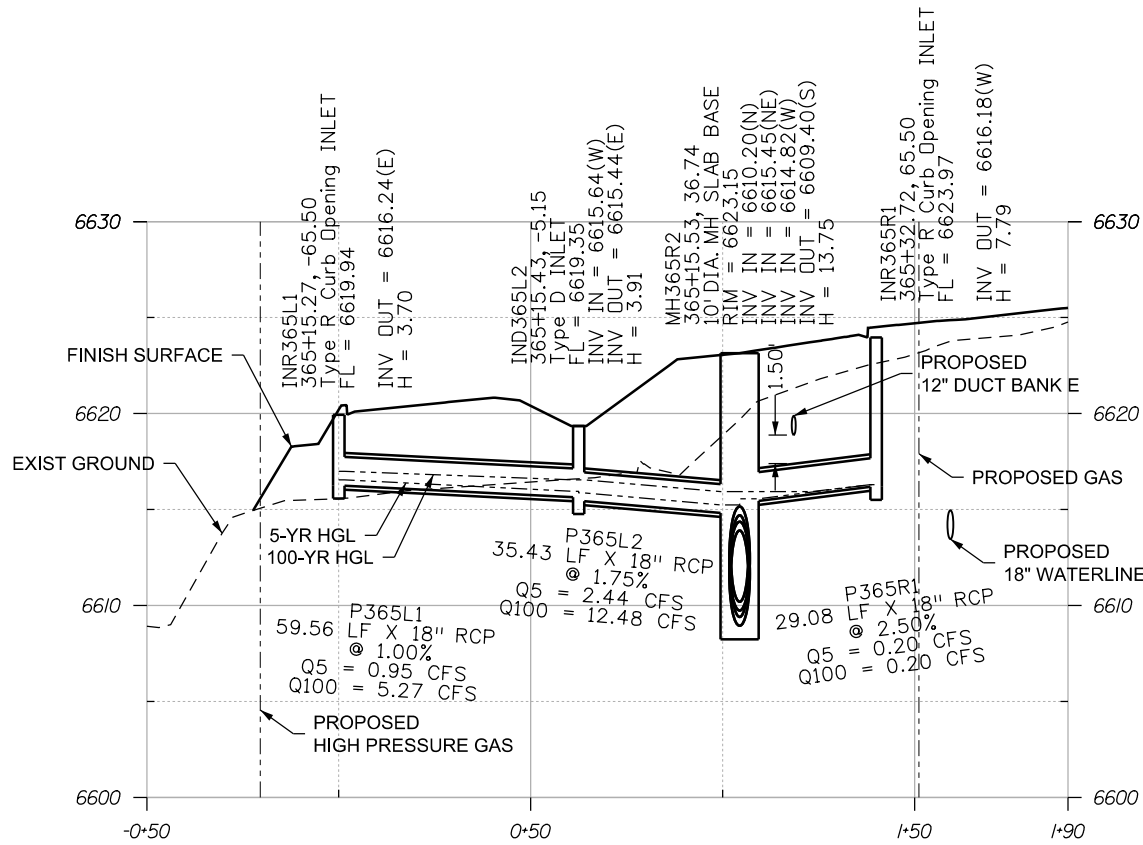
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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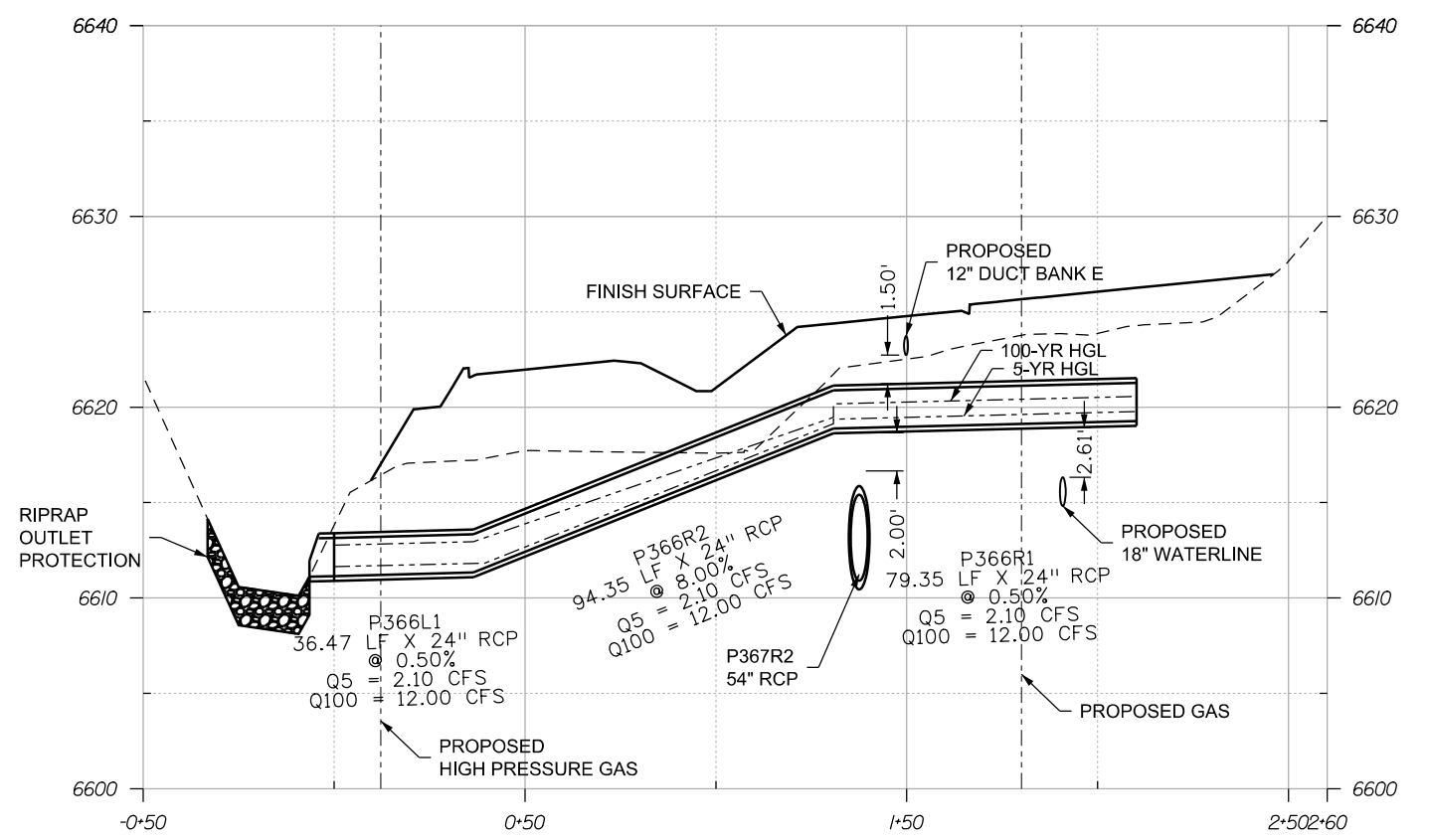


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INR365L1 TO INR365R1



FES366L2 TO P366R1

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

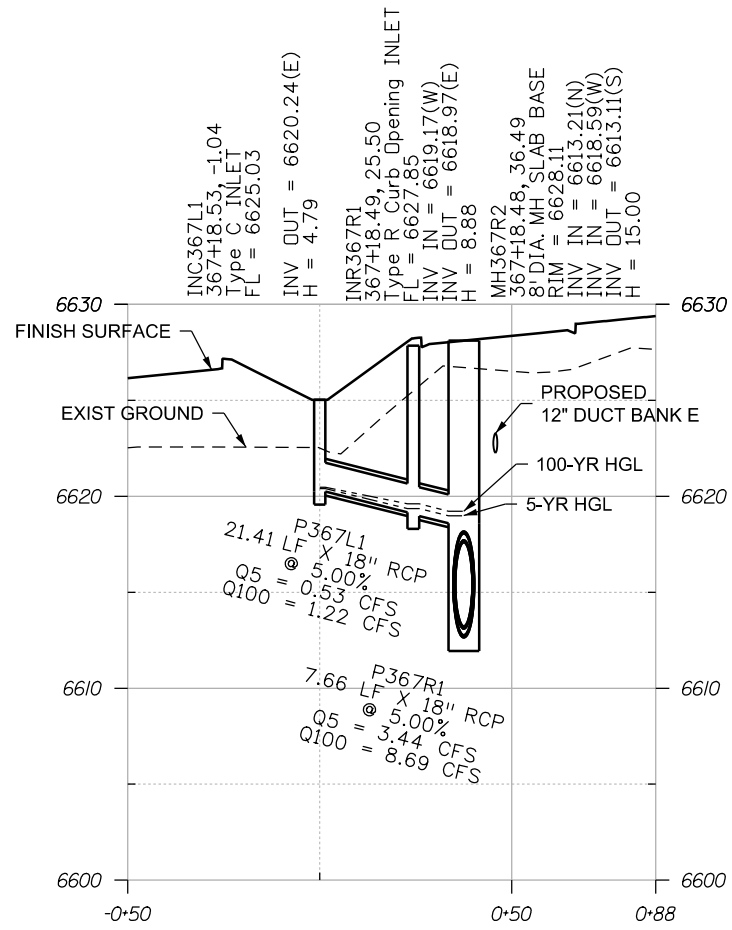
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Date:	Comments	Init.

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Suite 210  
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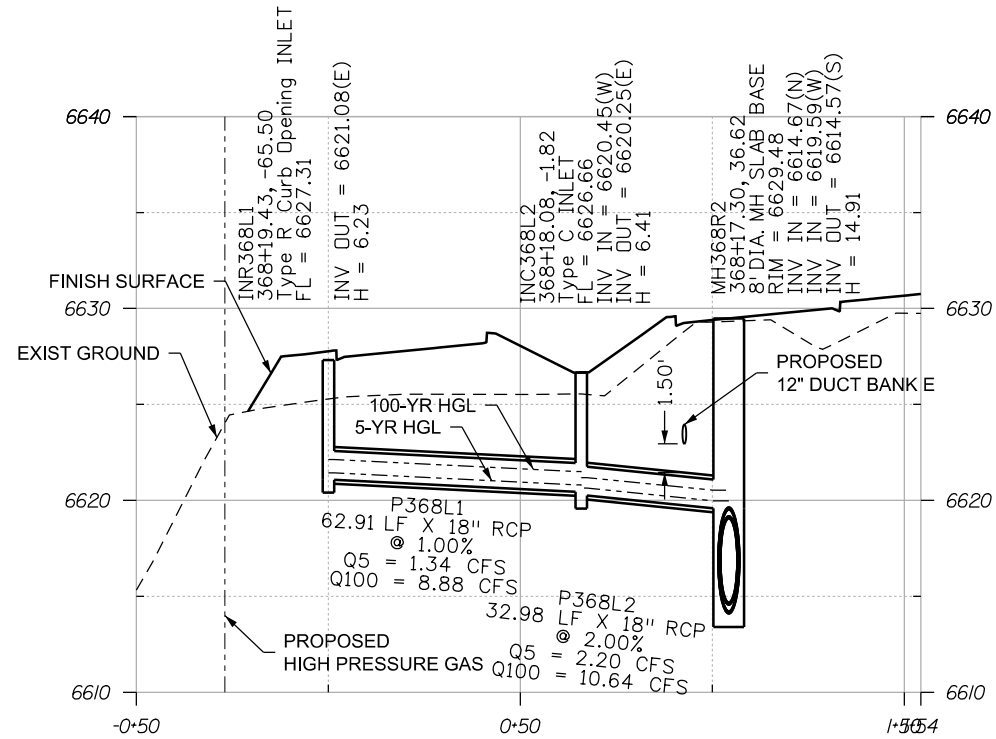
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Void:	Detailer: JAM	Sheet Subset: DRAINAGE
		Subset Sheets: 31 of 36
		Sheet Number <b>31</b>



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INC367L1 TO MH367R1



INR368L1 TO MH368R2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Sheet Revisions		
Date:	Comments	Init.



**Jacobs**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

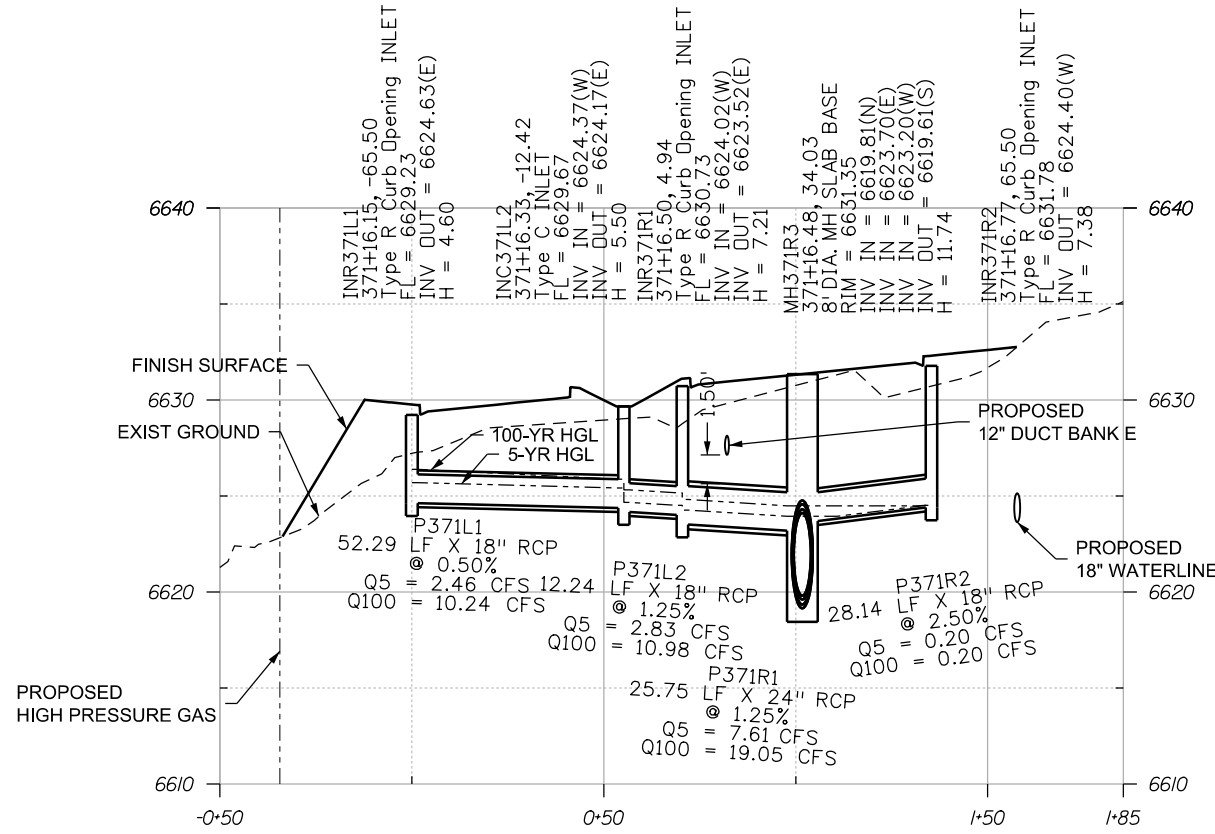
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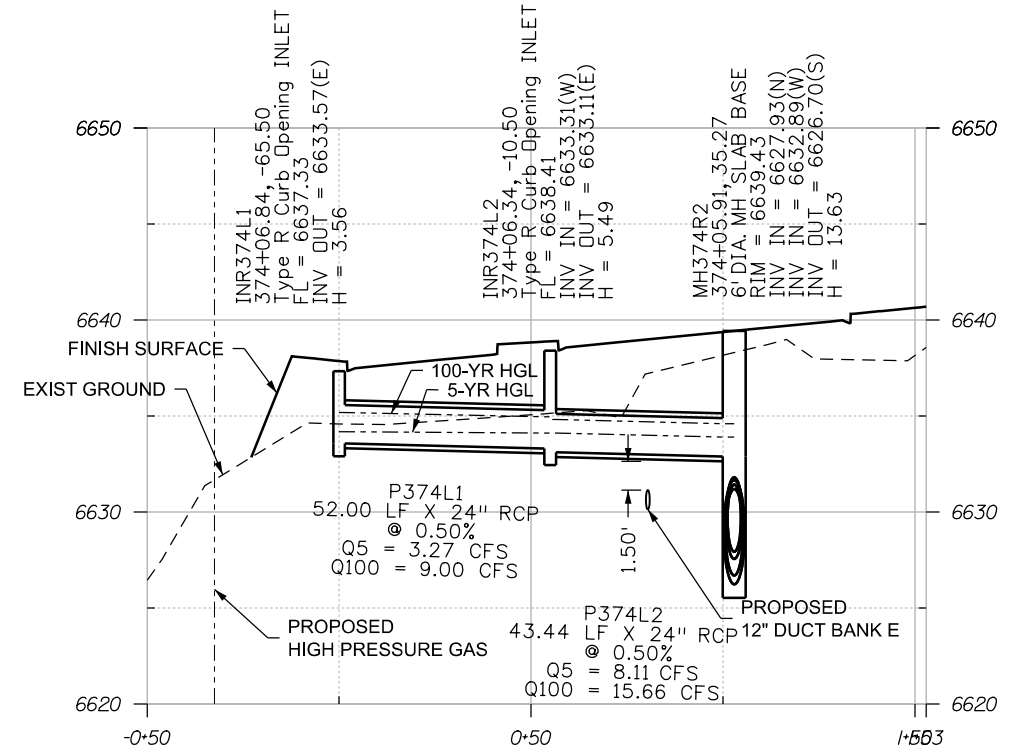


Know what's below.  
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INR371L1 TO INR371R2



INR374L1 TO MH374R2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRF_15pr.dgn
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Project No./Code    PPRTA    10444

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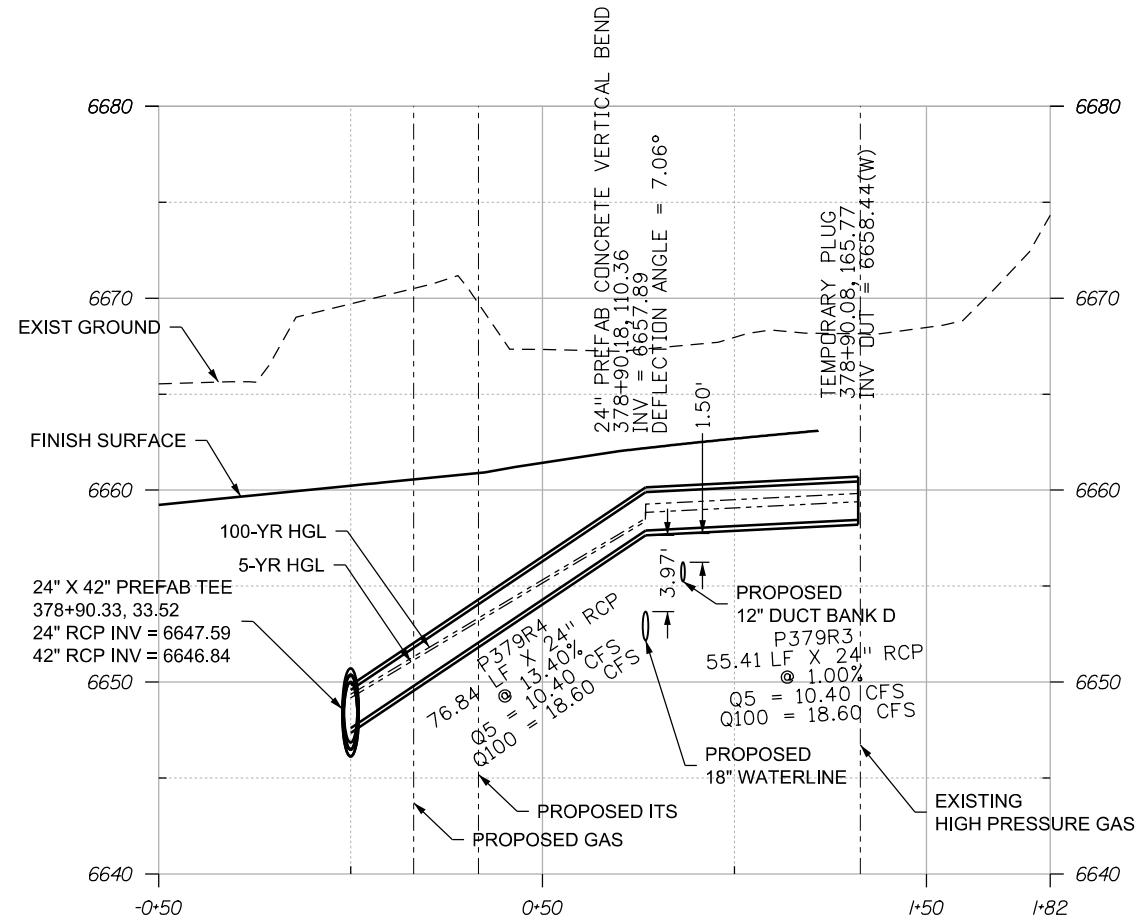


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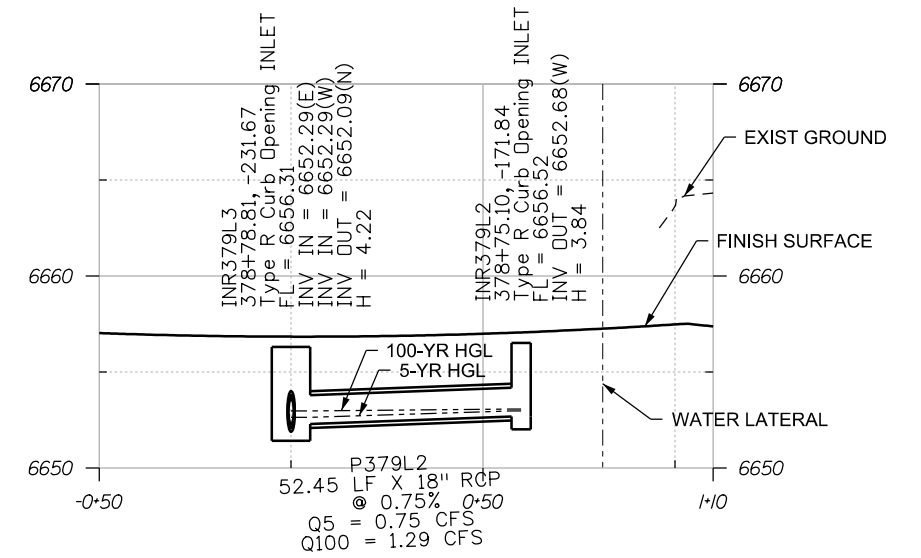
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Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
Sheet Subset: DRAINAGE	Subset Sheets: 33 of 36		



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P379R4 TO P379R3



INR379L3 TO INR379L2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
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Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444



Sheet Revisions		
Date:	Comments	Init.



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Suite 210  
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Phone: 719-633-8805

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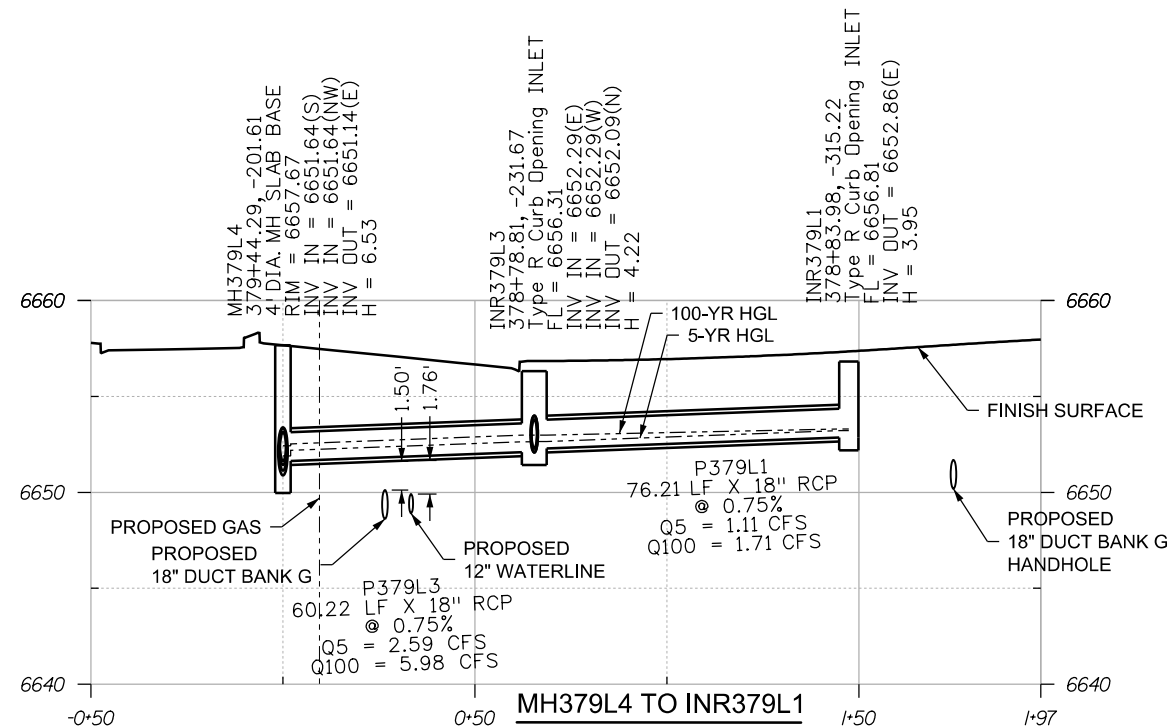
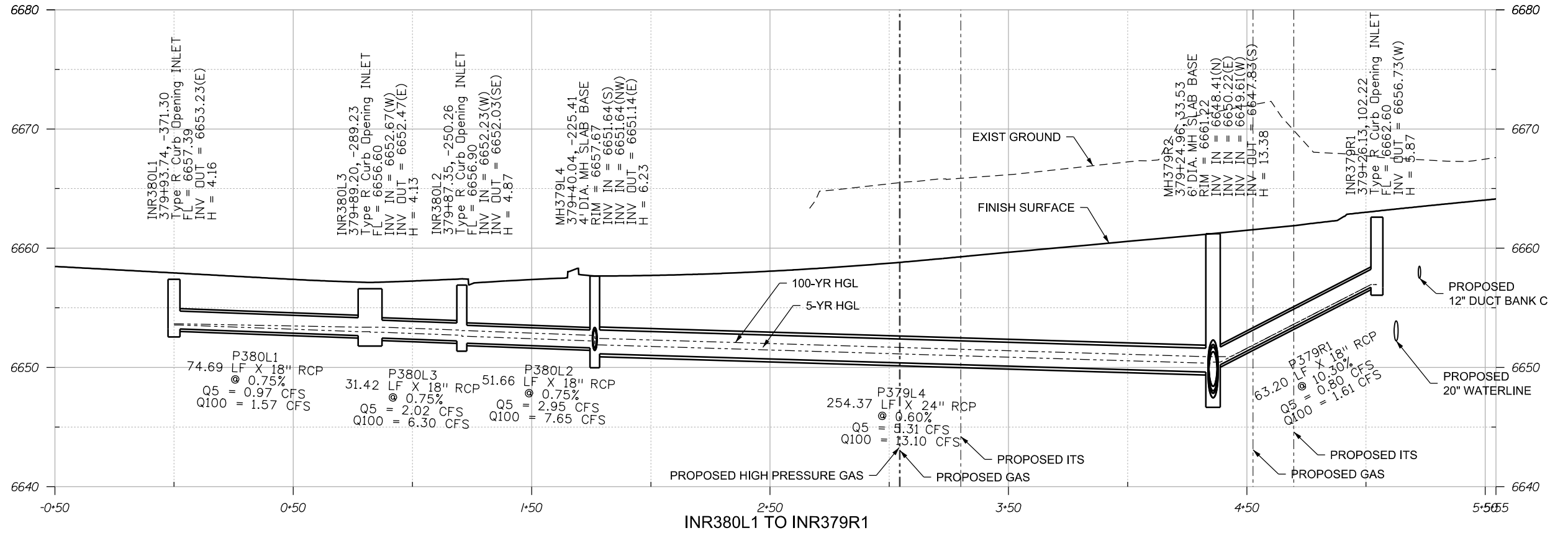
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Detailer:	JAM	Numbers
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Sheet Number **34**

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NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

Print Date: 1/8/2024
File Name: P1-18300DR_PRJ_17pr.dgn
Horiz. Scale: 1:50
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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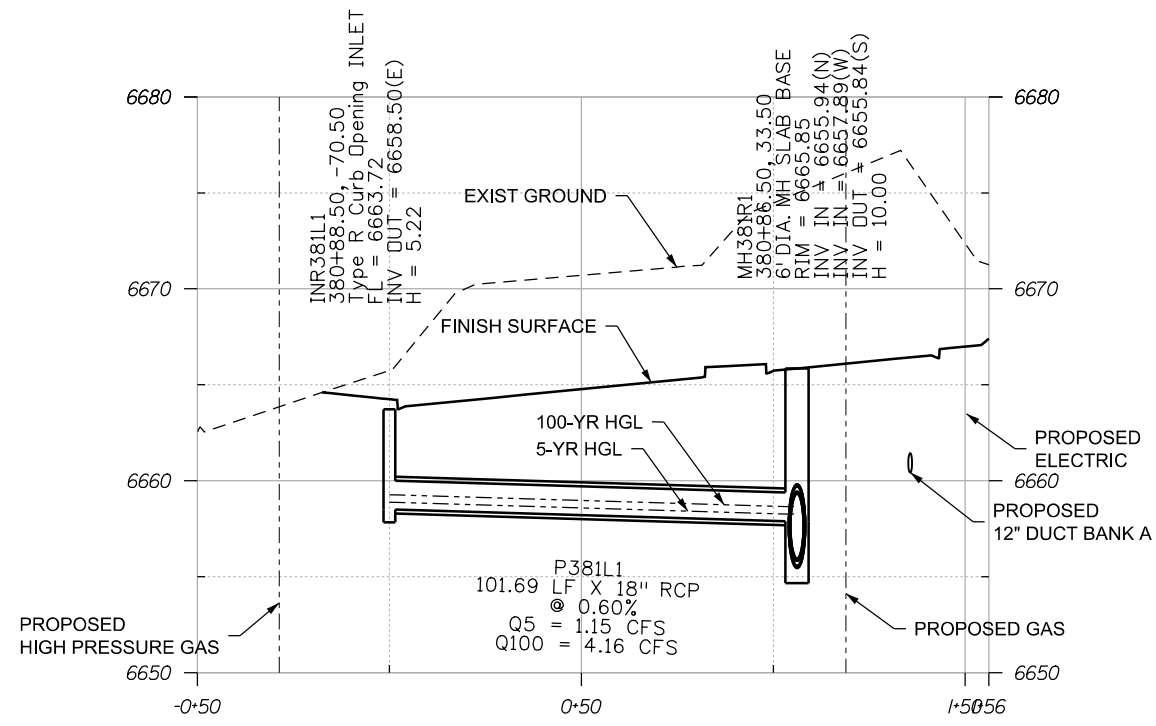
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Sheet Number 35

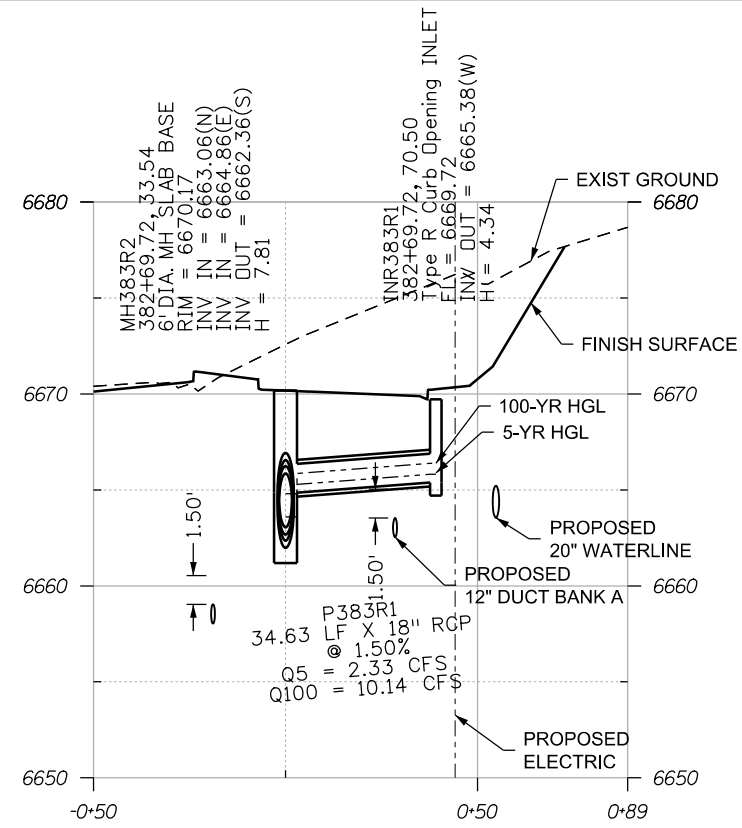
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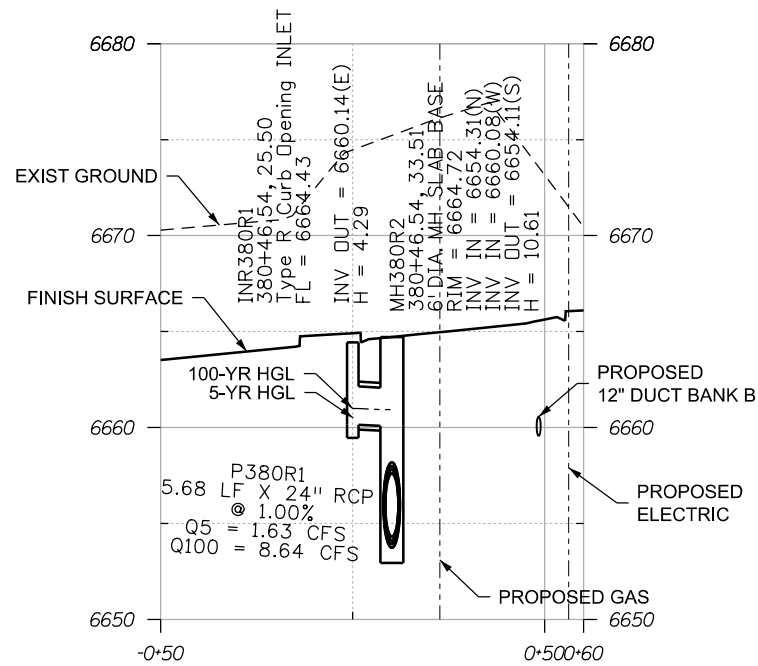
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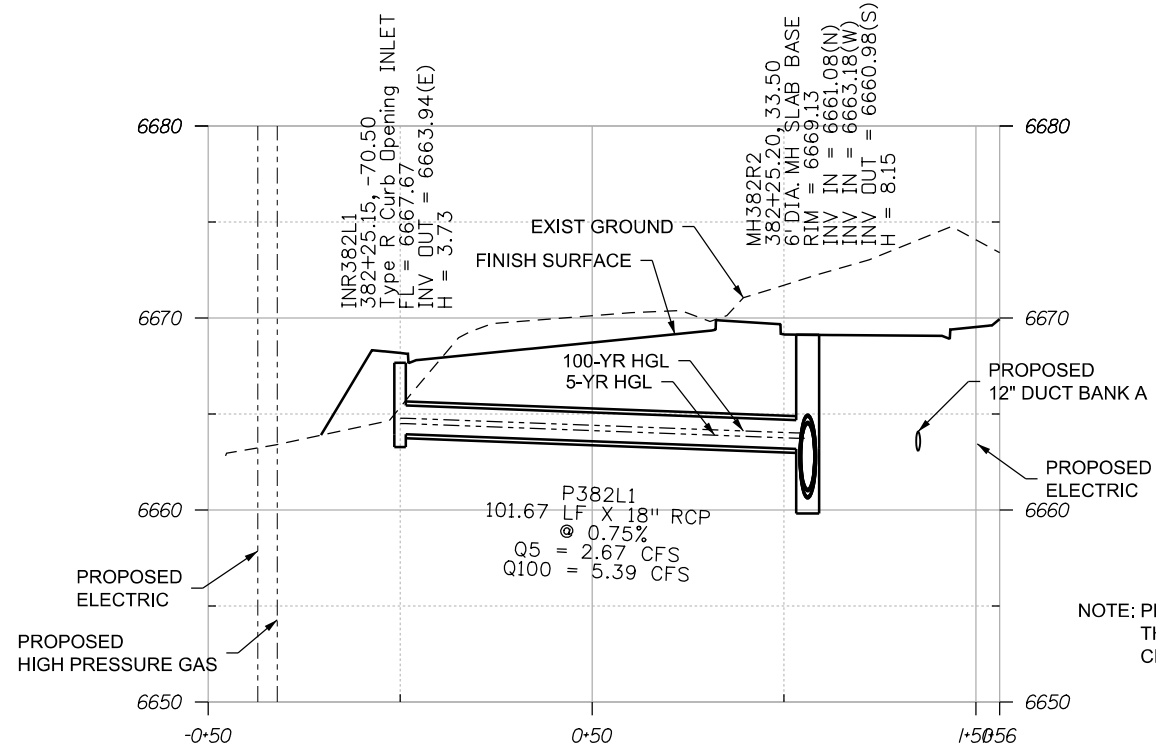
INR381L1 TO MH381R1



MH383R2 TO INR383R1



INR380R1 TO MH380R2



INR382L1 TO INR382R2

NOTE: PROPOSED UTILITY HORIZONTAL LOCATIONS ARE SHOWN.  
THE UTILITY DESIGNER WILL PROVIDE REQUIRED VERTICAL CLEARANCES.

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Project No./Code    PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.



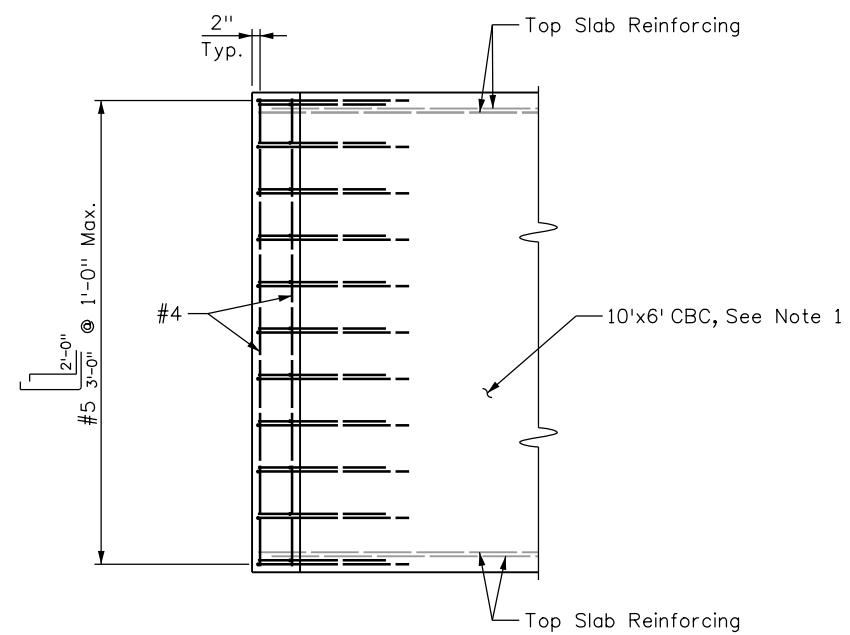
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Detailer: JAM		
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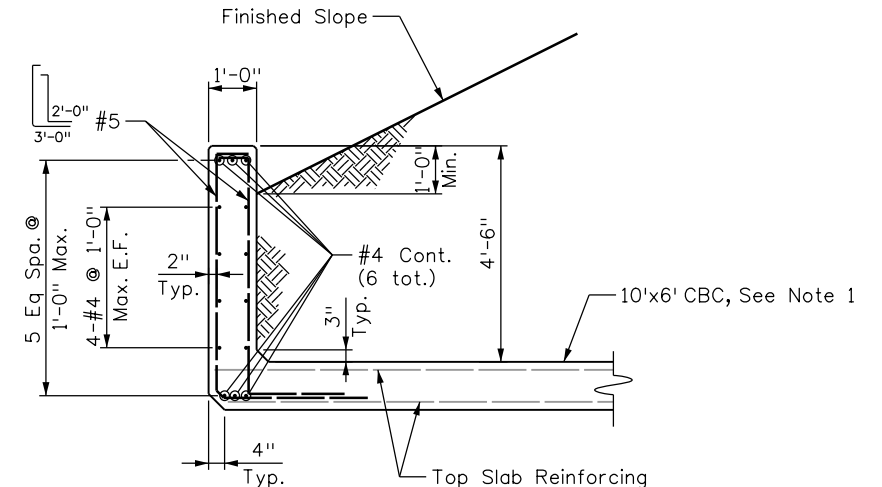


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INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

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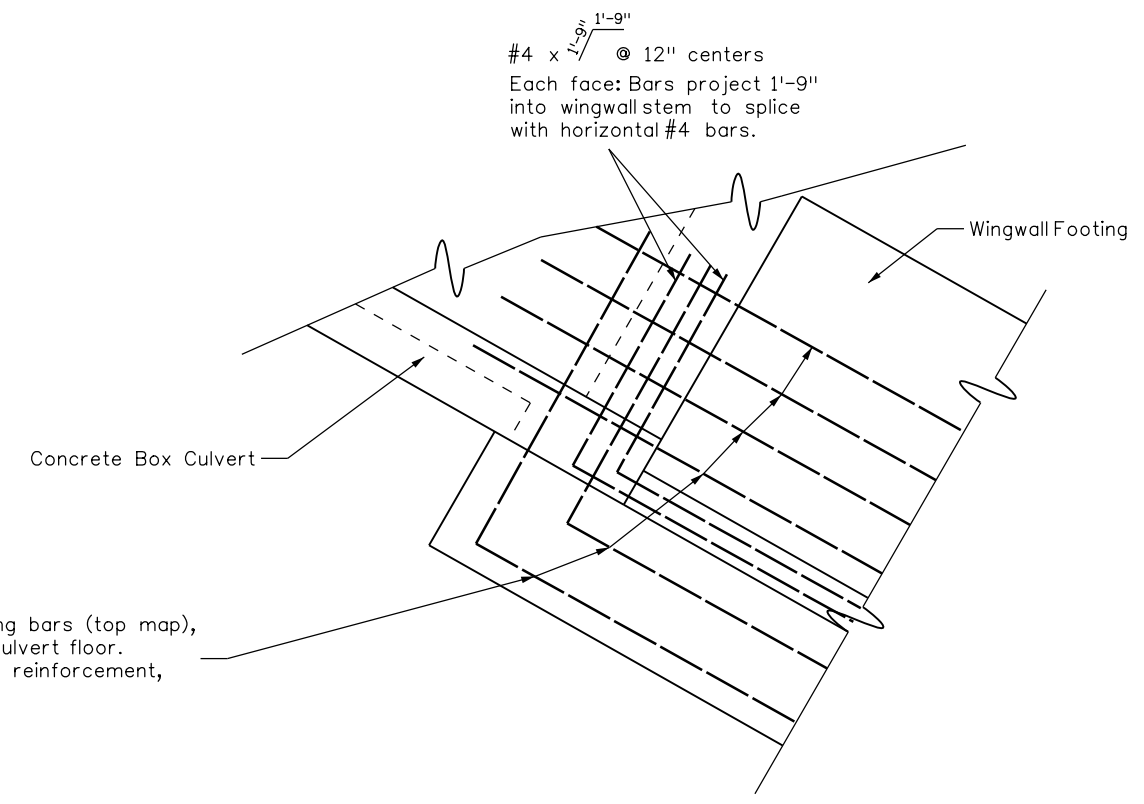
**PLAN**  
Top Slab Reinforcing shown for clarity only



**ELEVATION**  
Top Slab Reinforcing shown for clarity only

**NOTES:**

- For concrete box culvert details see CDDT Standard M-601-1.
- Concrete shall be Concrete Class D.
- All exposed corners shall be chamfered 3/4".
- Reinforcing steel shall be deformed bars and shall conform to ASTM A615, Grade 60.
- Connection detail is a modification to clarify detail "A" in Standard M-601-20, accounting for angle of wingwall. For wingwall details not shown refer to CDDT Standard M-601-20.



**FOOTING/CBC CONNECTION DETAIL**  
(Wingwall and CBC reinforcing not shown clarity)  
(See Note 5)

Six longitudinal #4 footing bars (top map), project 1'-9" min. into culvert floor. Lap with wingwall footing reinforcement, 1'-10" min.

Print Date: 1/8/2024
File Name: P1-18300STR_Detail_01.dgn
Horiz. Scale: 1:1      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

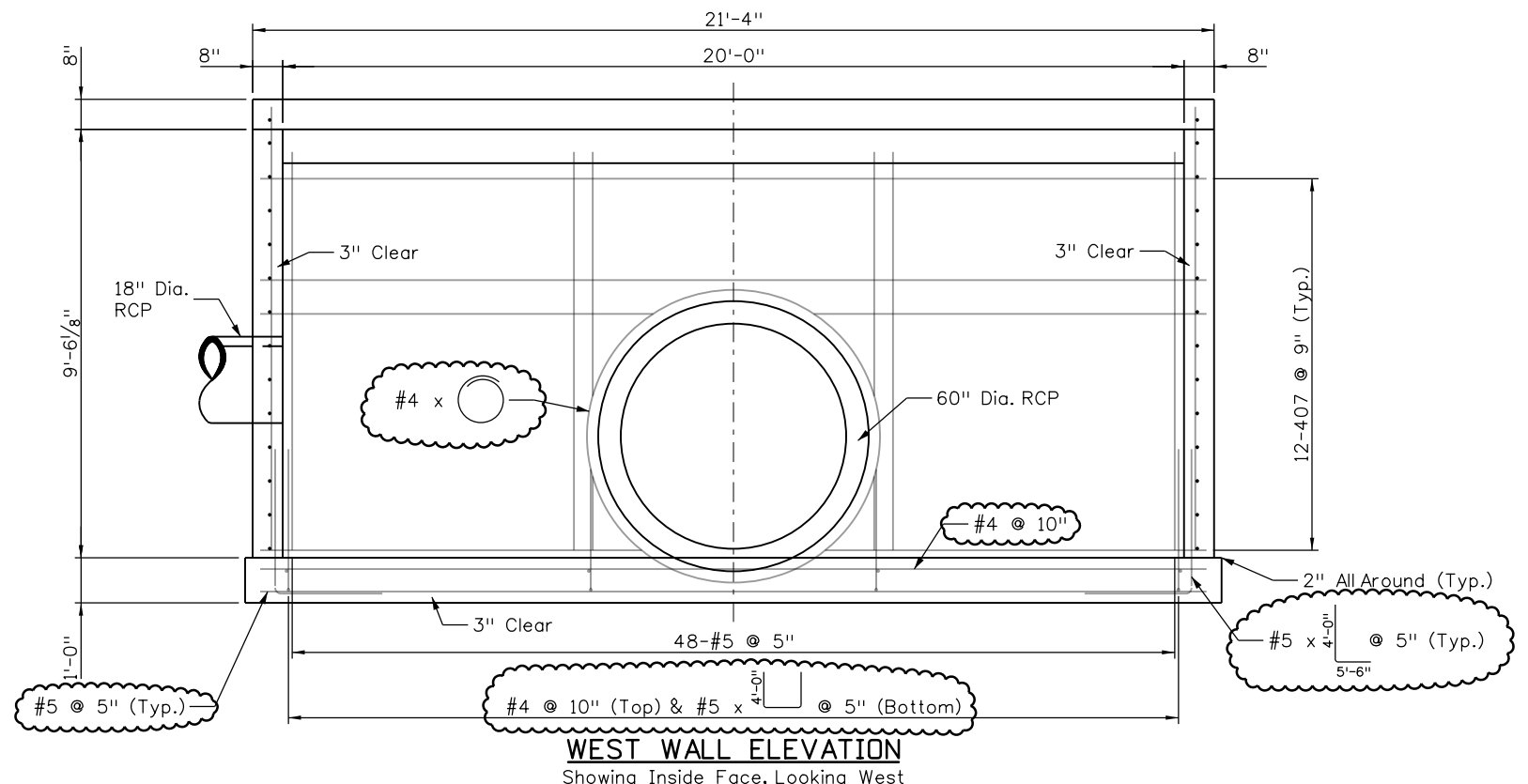
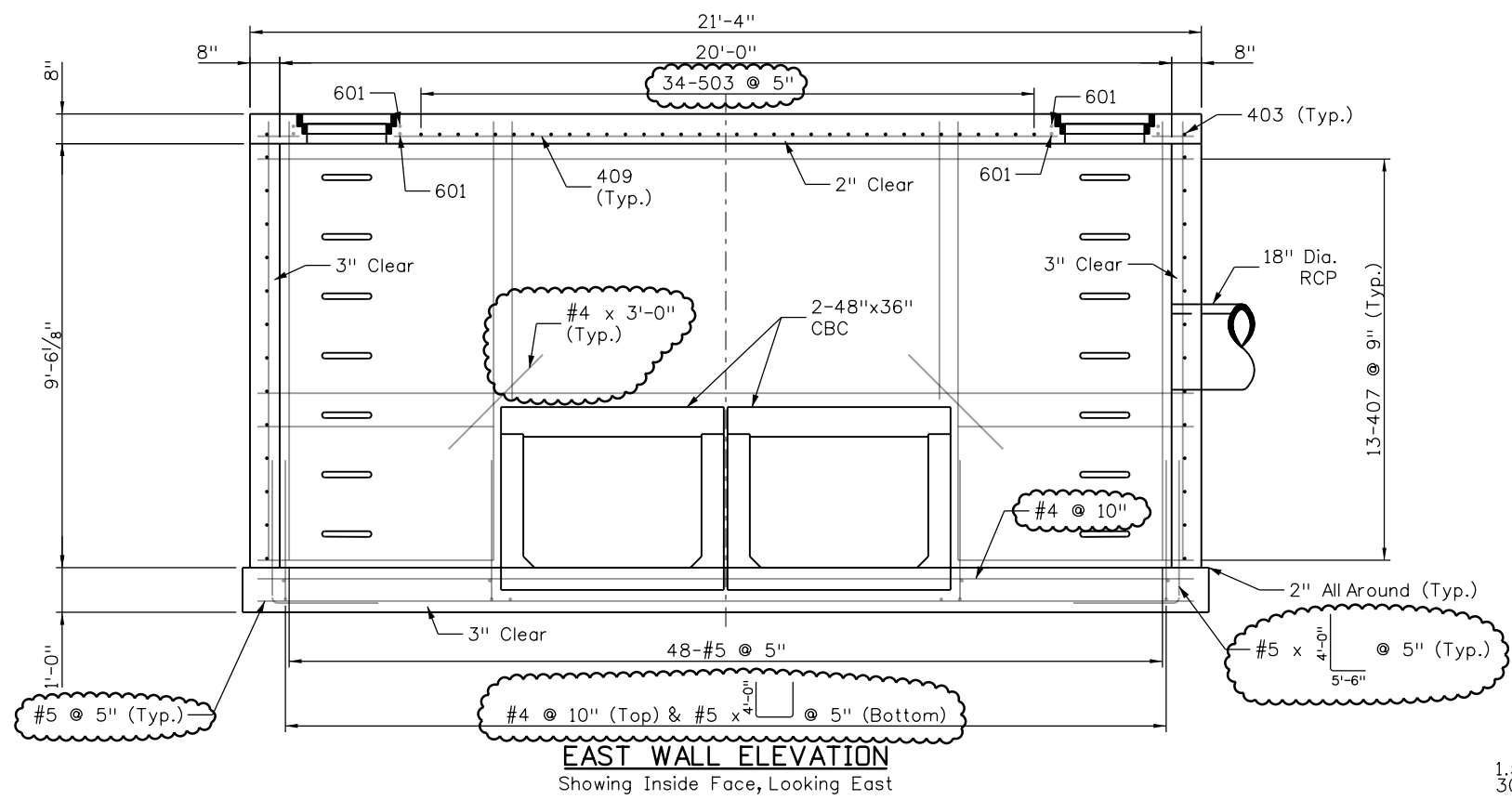
**Jacobs**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

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Revised:
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<b>MARKSHEFFEL ROAD CBC HEADWALL DETAILS</b>		
Designer: A. REGALADO	Structure Numbers	
Detailer: A. PRICE		
Sheet Subset: Structural	Subset Sheets: 1 of 1	

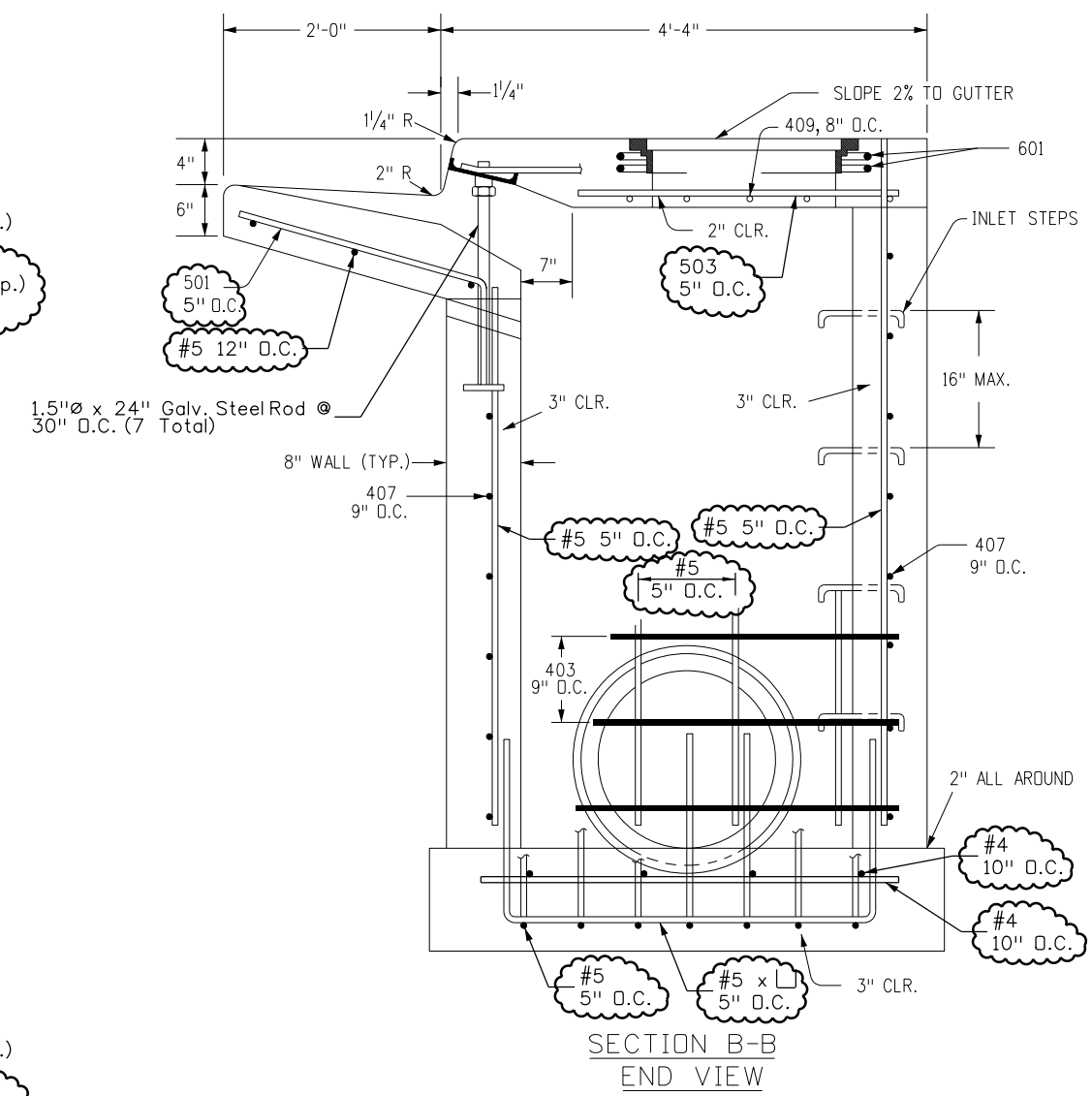
Sheet Number **37**

PRELIMINARY - NOT FOR CONSTRUCTION



**NOTES:**

1. Clouded rebar callouts indicate changes from M-604-12.
2. All other rebar, dimensions and details (e.g. steel rods, steel channel, temporary drainage hole, etc.) shall be as shown on M-604-12, Sheets 1 and 2.
3. Rebar may be cut as necessary to maintain 2" clear at CBC and pipe openings.
4. Backfill with CDOT Class 1 material after top slab is in place and has reached min compressive stress of 3,000 psi.



Design		Detail		Quantities	
INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
Designed By	Checked By	Detailed By	Checked By	Quantities By	Checked By

T:\High 320582 PM p.w. wls-pw.bentley.com\wis-pw\Documents\810031RM\City of Colorado Springs\CD-21-100-03-00-18300\Bridge\Drawings\VP-18300STR\_Detail\_02.dgn

Print Date: 1/8/2024

File Name: P1-18300STR\_Detail\_02.dgn

Horiz. Scale: 1:1      Vert. Scale:      Unit Information      Unit Leader

Project No./Code      PPRTA      10444

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Date:	Comments	Init.

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Suite 220  
Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:	
Revised:	
Void:	

**MARKSHEFFEL ROAD  
CURB INLET TYPE R DETAILS**

Designer:	REB	Structure	
Detailer:	CEF	Numbers	
Sheet Subset: Structural	Subset Sheets: 1 of 1	Sheet Number	<b>38</b>



**11\_SWENT Water Quality  
Will follow this page.**



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UTILITY NOTIFICATION  
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www.uncc.org

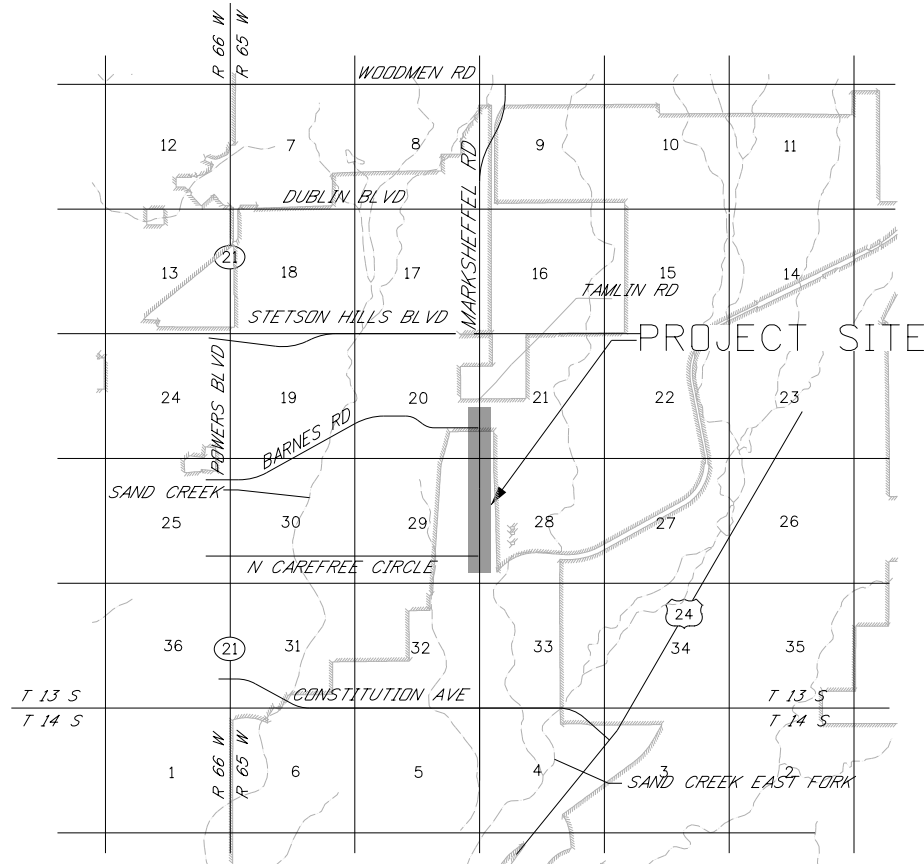


# DEPARTMENT OF PUBLIC SERVICES CITY OF COLORADO SPRINGS ENGINEERING DIVISION

*WATER QUALITY PLANS*  
**MARKSHEFFEL RD - DUBLIN BLVD TO N CAREFREE CIR**  
*FUNDED BY THE PIKES PEAK RURAL TRANSPORTATION AUTHORITY*

APPROVED BY \_\_\_\_\_

CITY OF COLORADO SPRINGS  
ENGINEERING DIVISION



SHEET NO.	INDEX OF SHEETS
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4	WATER QUALITY POND PLAN
5	WATER QUALITY POND CROSS SECTION AND OUTFALL PROFILE
6-9	WATER QUALITY POND DETAILS

AS CONSTRUCTED INFORMATION

CONTRACTOR: \_\_\_\_\_

PROJECT ENGINEER: \_\_\_\_\_

PROJECT STARTED: \_\_\_\_\_

PROJECT COMPLETED: \_\_\_\_\_

AS CONSTRUCTED PLANS: \_\_\_\_\_

APPROVED: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

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Print Date: 1/8/2024
File Name: P1-18300DR_WQP3_01a.dgn
Horiz. Scale: 1:3000      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
WATER QUALITY TITLE SHEET			
Designer:	TDS	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	WtQ	Subset Sheets: 1	of 9

Sheet Number	<b>1</b>
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**GENERAL NOTES**

1. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. THE LOCATIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE/SHE COMMENCES ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGED DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANDY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT UTILITY NOTIFICATION CENTER FOR THE LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION (1-800-922-1987).
4. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
7. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENT SHALL CONFORM TO THE CITY OF COLORADO SPRINGS'S SPECIFICATIONS AND STANDARDS (LATEST EDITION).
8. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK.
9. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
10. ANY WORK DONE WITHOUT INSPECTION OR MATERIALS TESTING IS SUBJECT TO REMOVAL OR CORRECTION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE FIELD ENGINEER,
12. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES, INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
13. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
14. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS OR IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANDY EARTHWORK. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF COLORADO SPRINGS FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANDY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
16. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS THE CITY ENGINEER APPROVES A CONSTRUCTION CHANGE OR THE CITY/AGENCY INSPECTOR REQUIRES THE CHANGE.
17. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.
18. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE WORK. THE PERMIT APPLICANT AND ALL OF TIER REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANDY OR THEIR REPRESENTATIONS OR CONTRACTORS FORM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT OR COLORADO DIVISION OF WILDLIFE. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS. OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STAT OR FEDERAL AGENCY.
19. IF AT ANY TIME DURING THE GRADING OPERATION, ANY UNFAVORABLE GEOLOGICAL CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
20. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
21. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
22. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN IN THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR.
23. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS NOT TO DISTURB THEM.
24. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING DEMOLITION AND CONSTRUCTION OPERATIONS.
25. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
26. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER PRIOR TO EXCAVATION.

**ABBREVIATIONS**

CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CL	CENTERLINE
CONC	CONCRETE
DWG	DRAWING
DR	DRIVE
EA	EACH
ELEV OR EL	ELEVATION
ESMT	EASEMENT
EX	EXISTING
FES	FLARED END SECTION
FL	FLOWLINE
FT	FOOT/FEET
HCL	HORIZONTAL CONTROL LINE
HGL	HYDRAULIC GRADE LINE
LF	LINEAR FEET
ME	MATCH EXISTING
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
RIM	RIM ELEVATION
PROP	PROPOSED

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Project No./Code	PPRTA 10444																			

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**Structural CCMs**

Structural CCMs that may be potentially used on the project for erosion and sediment control; practices may include:

APPLICATION, CCM	NARRATIVE	CCM PHASING		
		FIRST/INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
<p><i>PROTECTION OF EXISTING TREES/LANDSCAPING</i></p> <p><i>Fence (plastic)</i></p>	Fence (plastic) shall be used in areas indicated in the plans to prevent encroachment of construction traffic and sediment for the protection of mature trees and/or existing landscaping prior to start of construction disturbances.	X	X	
<p><i>INLET PROTECTION</i></p> <p><i>Storm drain inlet protection</i></p>	Placed prior to construction disturbances to protect existing inlets or immediately upon completion of new inlets to prevent sediment from entering the inlet throughout construction.	X	X	X
<p><i>CULVERT INLET/OUTLET PROTECTION</i></p> <p><i>Sediment control logs, aggregate bags</i></p>	Placed at mouth of culvert inlets and over top of culvert at inlet and outlet where disturbance may be occurring adjacent to pipe to prevent sediment laden water from entering pipe or drainage. Place prior to start of construction disturbances.	X	X	
<p><i>STOCKPILE PROTECTION</i></p> <p><i>Temporary berm, sediment control logs, aggregate bags</i></p>	Placed within specified distance from toe to contain sediment around stockpile. Place prior to start of stockpile.		X	
<p><i>PERIMETER CONTROL</i></p> <p><i>Sediment control logs, silt fence, temporary berm, topsoil</i></p>	Placed prior to construction commencing to address potential run-on water from off site, and to divert around disturbed area.	X	X	
<p><i>CONCRETE WASHOUT</i></p>	Construction control, used for waste management of concrete and concrete equipment cleaning. Place prior to start of concrete activities.	X	X	
<p><i>VEHICLE TRACKING PAD</i></p>	Source control, placed to prevent tracking of sediment from disturbed area to offsite surface. Place prior to start of construction disturbances.	X	X	

**Non-Structural CCMs**

Non-Structural CCMs/Control Measures that may be potentially used on the project for erosion and sediment control; practices may include:

APPLICATION, CCM	NARRATIVE	CCM PHASING		
		INITIAL CONSTRUCTION ACTIVITIES	INTERIM CONSTRUCTION	FINAL STABILIZATION
<p><i>MULCH</i></p>	Temporary or Final Stabilization placed as a surface cover for erosion control and or seeding establishment. To be installed as temporary surface cover when work is temporarily halted and as approved by the Engineer		X	X
<p><i>PERMANENT SEEDING (NATIVE)</i></p>	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.			X
<p><i>EROSION CONTROL BLANKET (ECB)</i></p>	Final Stabilization of disturbance and to reduce runoff and control erosion on disturbed areas.		X	X
<p><i>SWEEPING</i></p>	Source control, used to remove sediment tracked onto paved surfaces and to prevent sediment from entering drainage system. Sweep daily and at the end of the construction shift as needed. Kick brooms shall not be permitted.	X	X	

- Stockpile locations will be determined by the contractor and added to the plans. Stockpile locations will not result in additional land disturbance.
- Location of concrete washout structures to be determined by the contractor and added to the plans.
- Receiving water: Sand Creek East Fork approximately 1.2 miles SE of project.
- Anticipated project sequence:
  - June 2023: Start CCM Silt fence / perimeter control installation
  - June 2023 to Jan 2024: Roadway, storm drain, and water quality construction
  - September 2023 through March 2024: CCM Removal (all CCMs not required for final stabilization)
  - September 2023 through Spring 2024: Final Stabilization
  - March/April 2024: Perimeter CCM Removal



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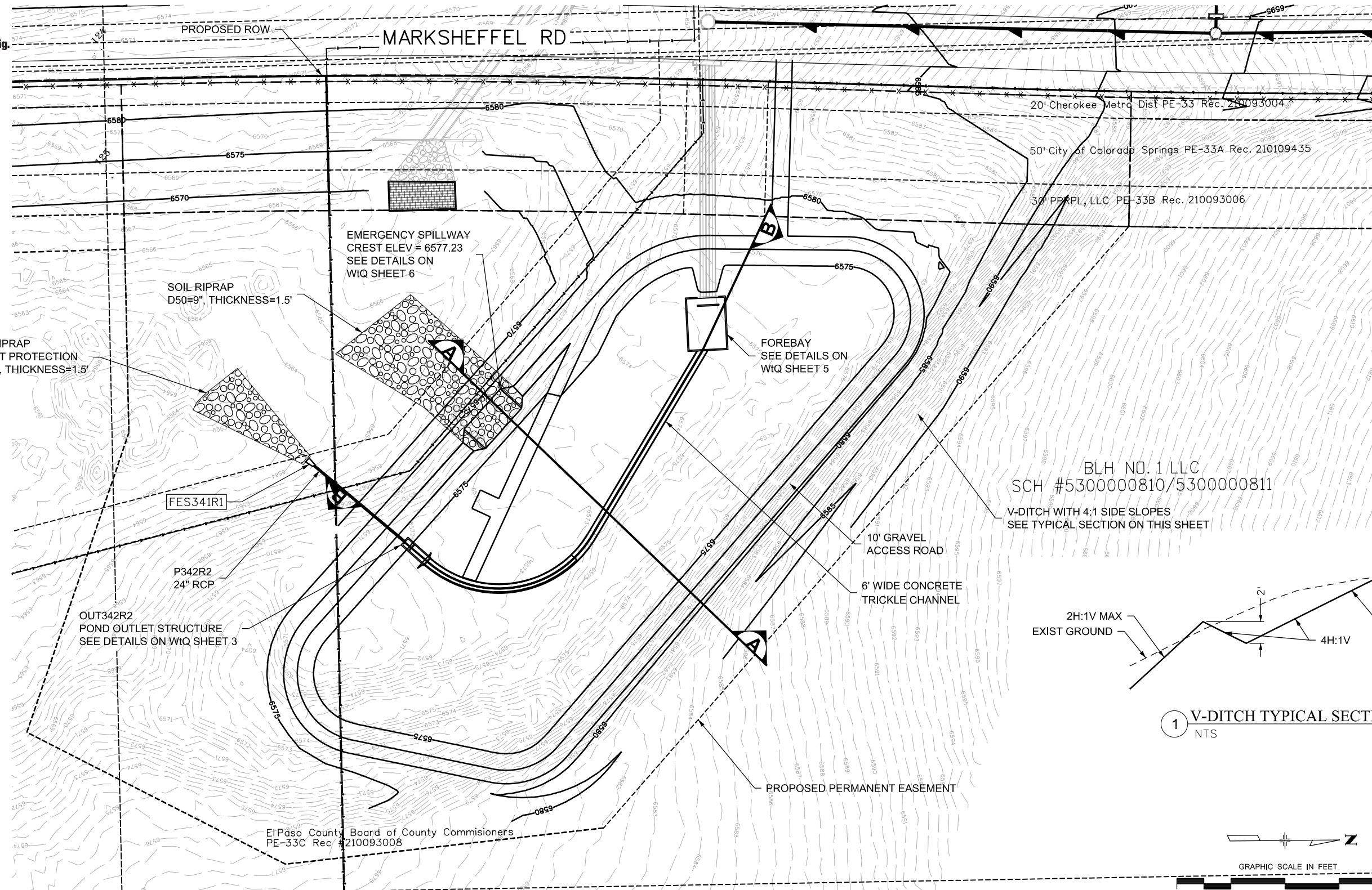
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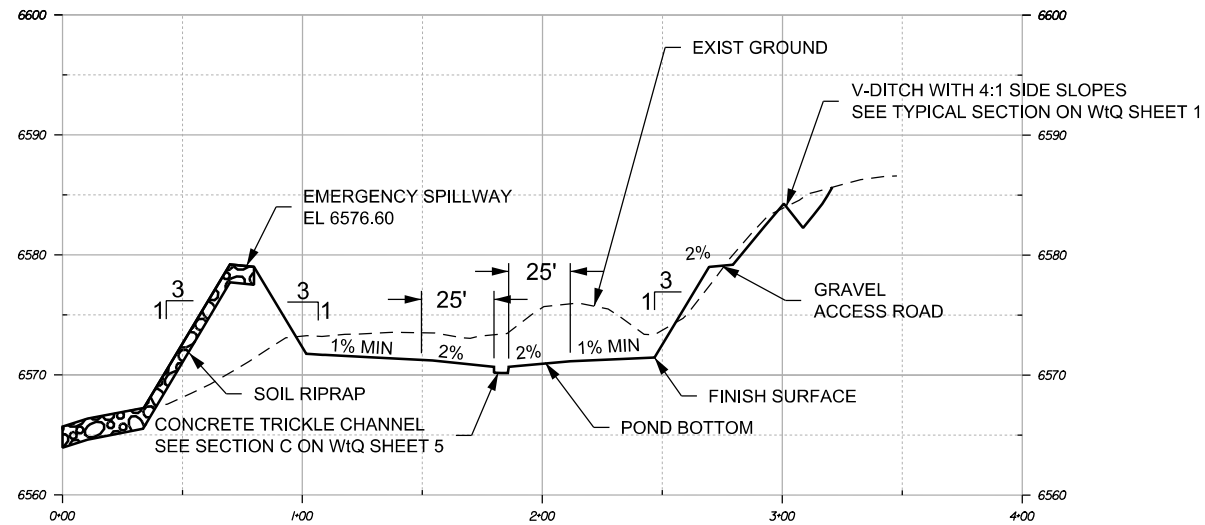
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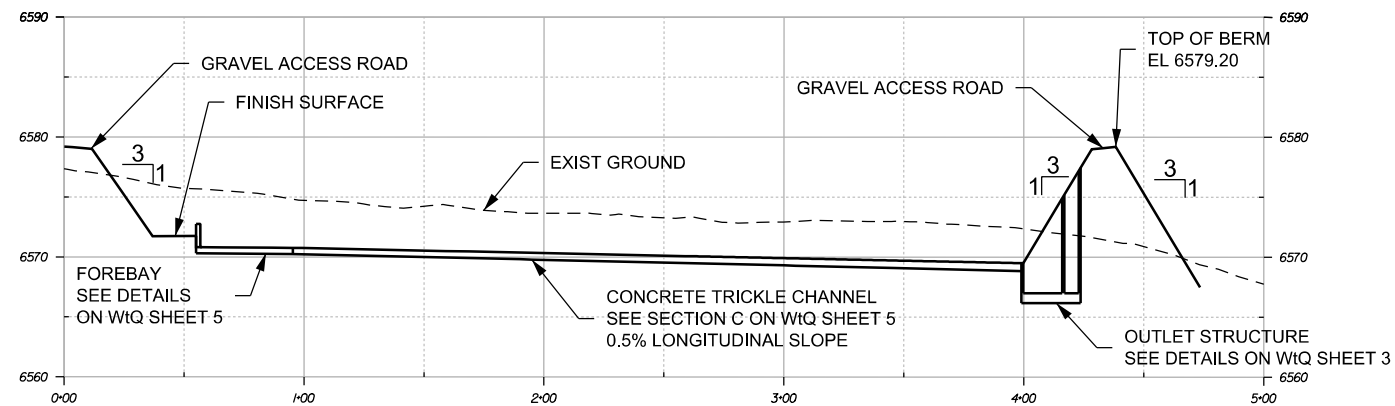
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**SECTION A-A**



**SECTION B-B**

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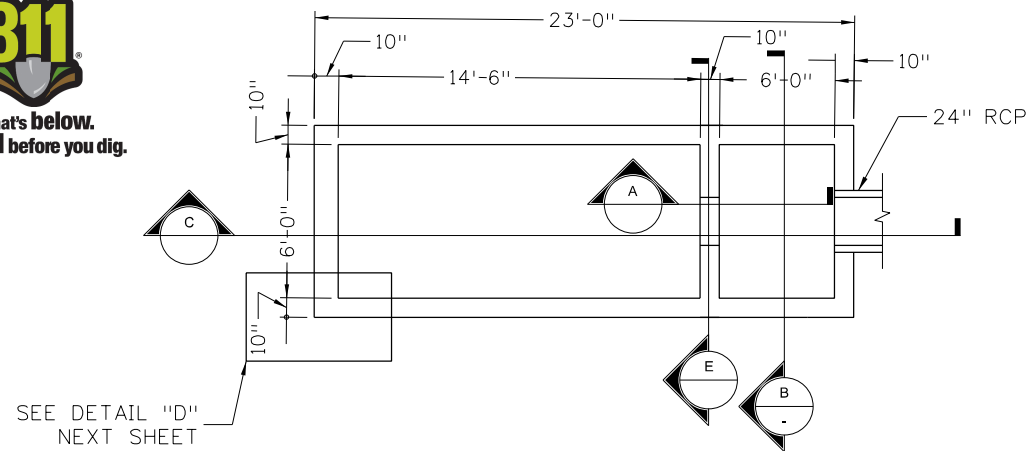
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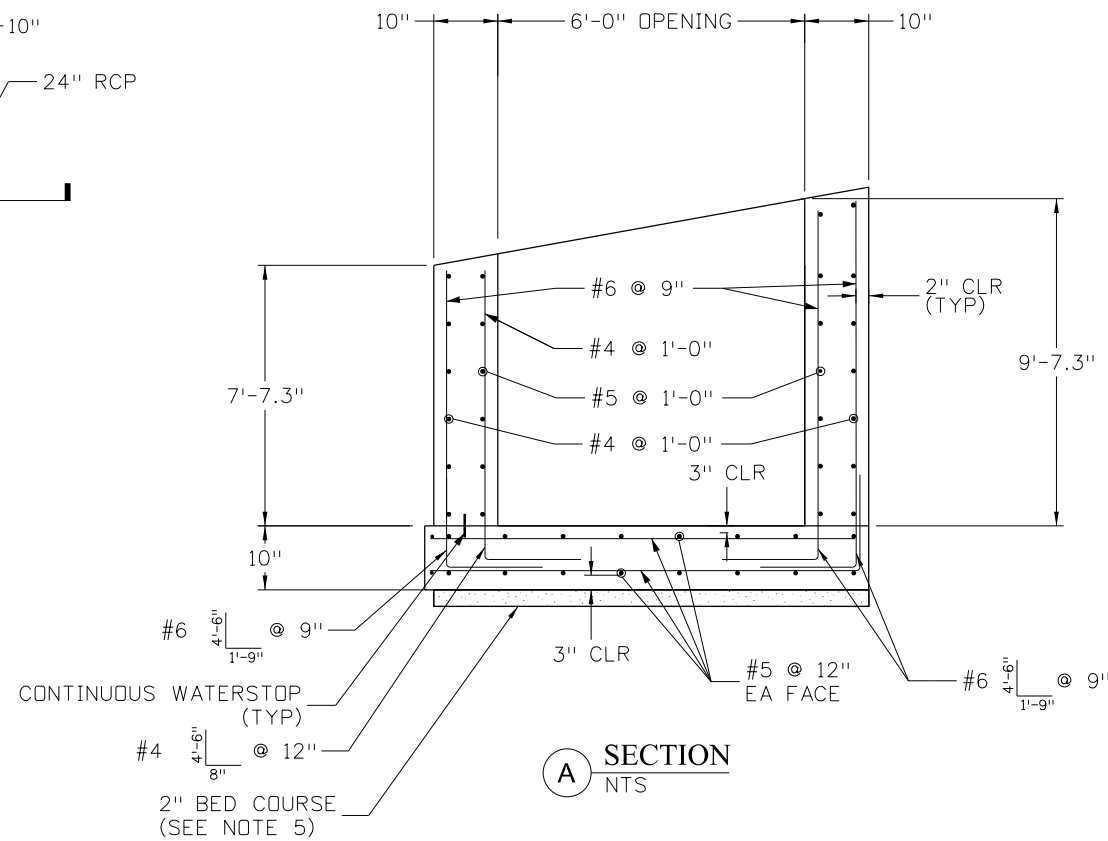




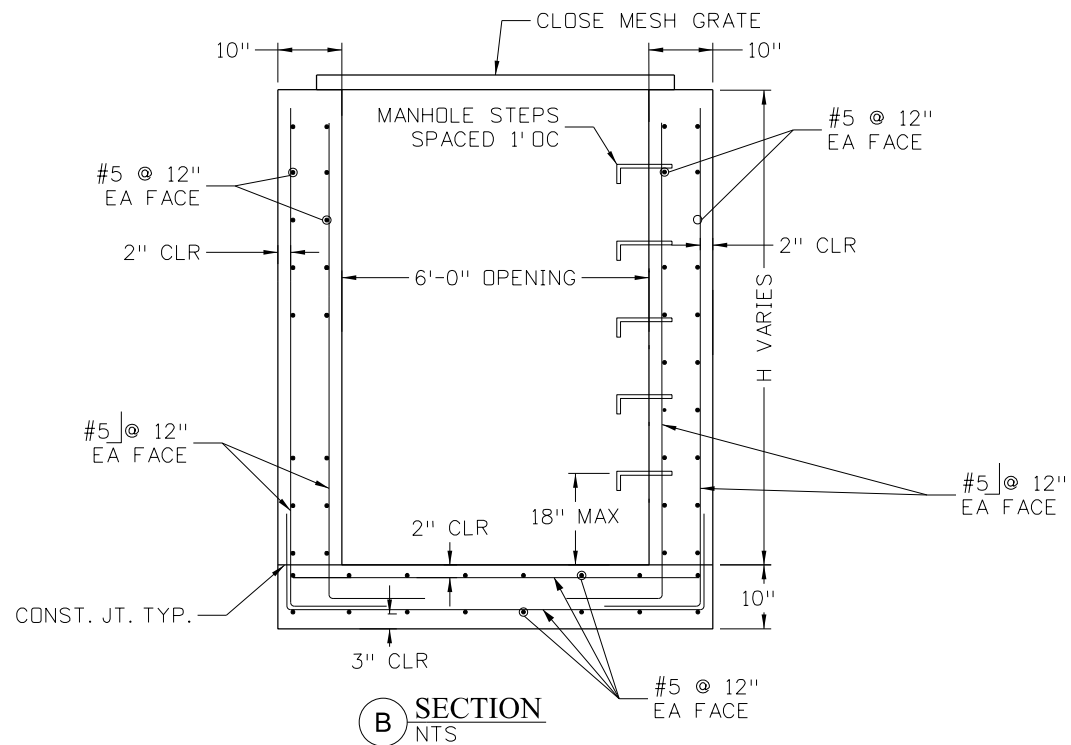
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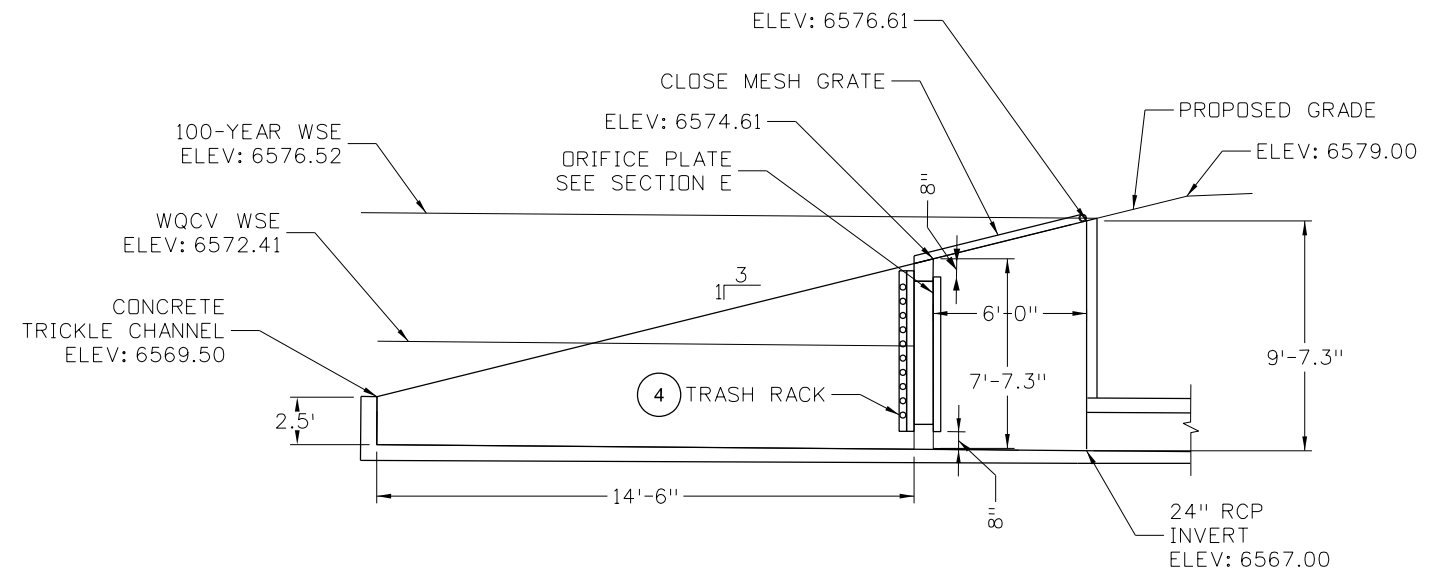
1 OUTLET STRUCTURE PLAN  
NTS



A SECTION  
NTS



B SECTION  
NTS



C ELEVATION  
NTS (TAKEN ALONG CL)

- NOTES:
1. ALL REINFORCING STEEL SHALL BE ASTM GRADE 60.
  2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND OTHER CONSTRUCTION DETAILS PRIOR TO FABRICATION.
  3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR CLOSE MESH GRATE COVERING THE ENTIRE OPEN AREA OF OVERFLOW WEIR (SECTION D), BUT DOES NOT EXTEND BEYOND THE LIMITS OF THE STRUCTURE. SEE CDOT STANDARD SPECIFICATION M-604-11 FOR GRATE TYPE AND MODIFY ITS DIMENSIONS TO FIT.
  4. PROVIDE CONCRETE SEALER ON ALL EXPOSED SURFACES AT THE INSIDE FACE.
  5. BED COURSE MATERIAL COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY IN CONFORMANCE WITH AASHTO T 180.
  6. LADDER TO RECEIVE A POWDER COAT FINISH. LADDER TO EXTEND 42" ABOVE CONCRETE AND SHALL MEET CURRENT OSHA SAFETY STANDARDS. LADDER SHALL BE CHOSEN BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. FEDERAL COLOR NUMBER: 20059, FOREST SERVICE BROWN.

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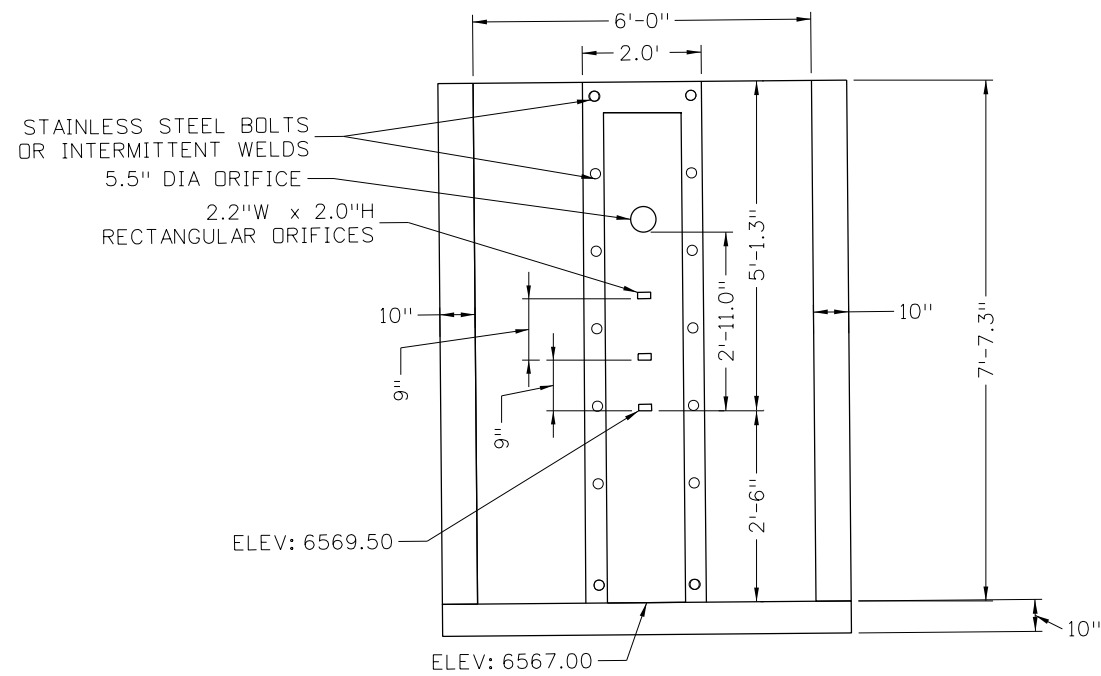
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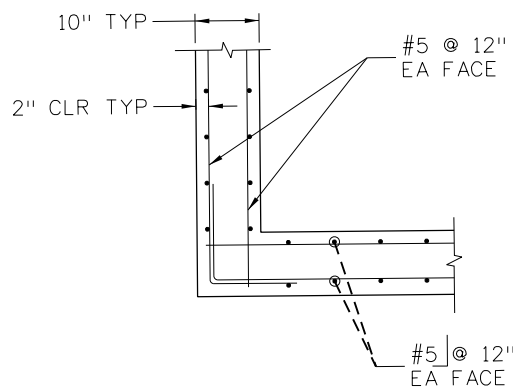


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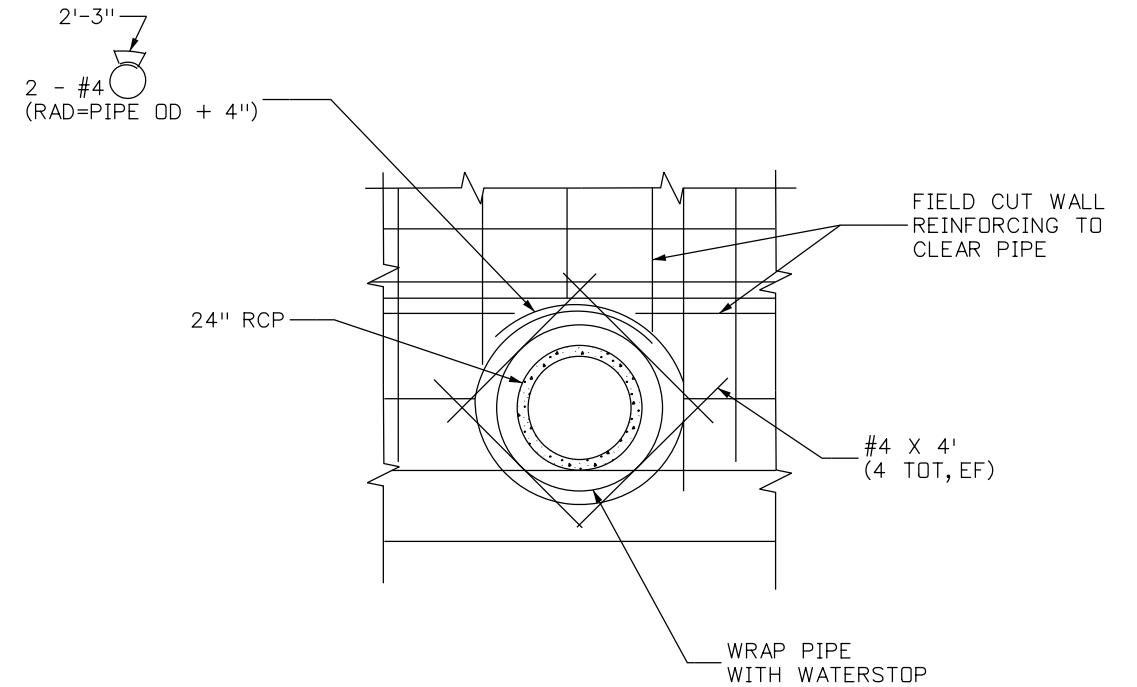
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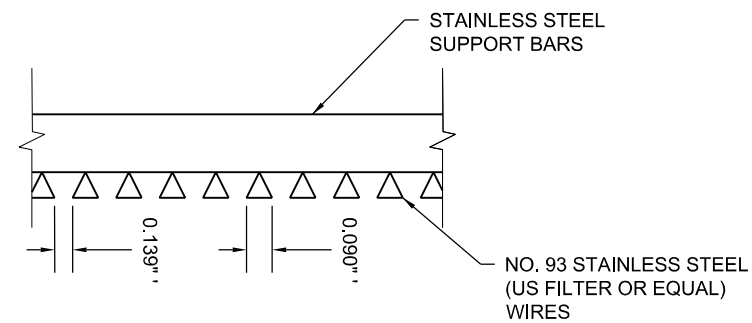
**E** ORIFICE PLATE  
NTS



**D** CORNER DETAIL  
NTS



**2** PIPE PENETRATION DETAIL  
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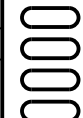


**NOTES:**

1. WELL - SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE. THEY SHALL BE ATTACHED BY 1/2" BOLTS EVERY FOOT ALONG THE EDGE OF THE MOUNTING FRAME.
2. THE SCREEN SHALL BE AN STAINLESS STEEL #93 VEE WIRE (US FILTER) TYPE SCREEN (OR APPROVED EQUAL) WITH A 0.139" (US FILTER) SCREEN OPENING SLOT DIMENSION. A TEE 0.074" X 0.50" SUPPORT RODS SHALL BE 1.0" O.C. THE HOLDING FRAME SHALL BE A 1" X 1.5" ANGLE BAR. THE WATER QUALITY TRASH RACK SHALL BE 5'-5" X 2'-0"
3. ATTACH WATER QUALITY TRASH RACK TO THE DRAINAGE STRUCTURE USING 1/2" BOLTS AT 1'-0" SPACING AROUND THE PERIMETER.

**4** WATER QUALITY TRASH RACK SECTION  
NTS

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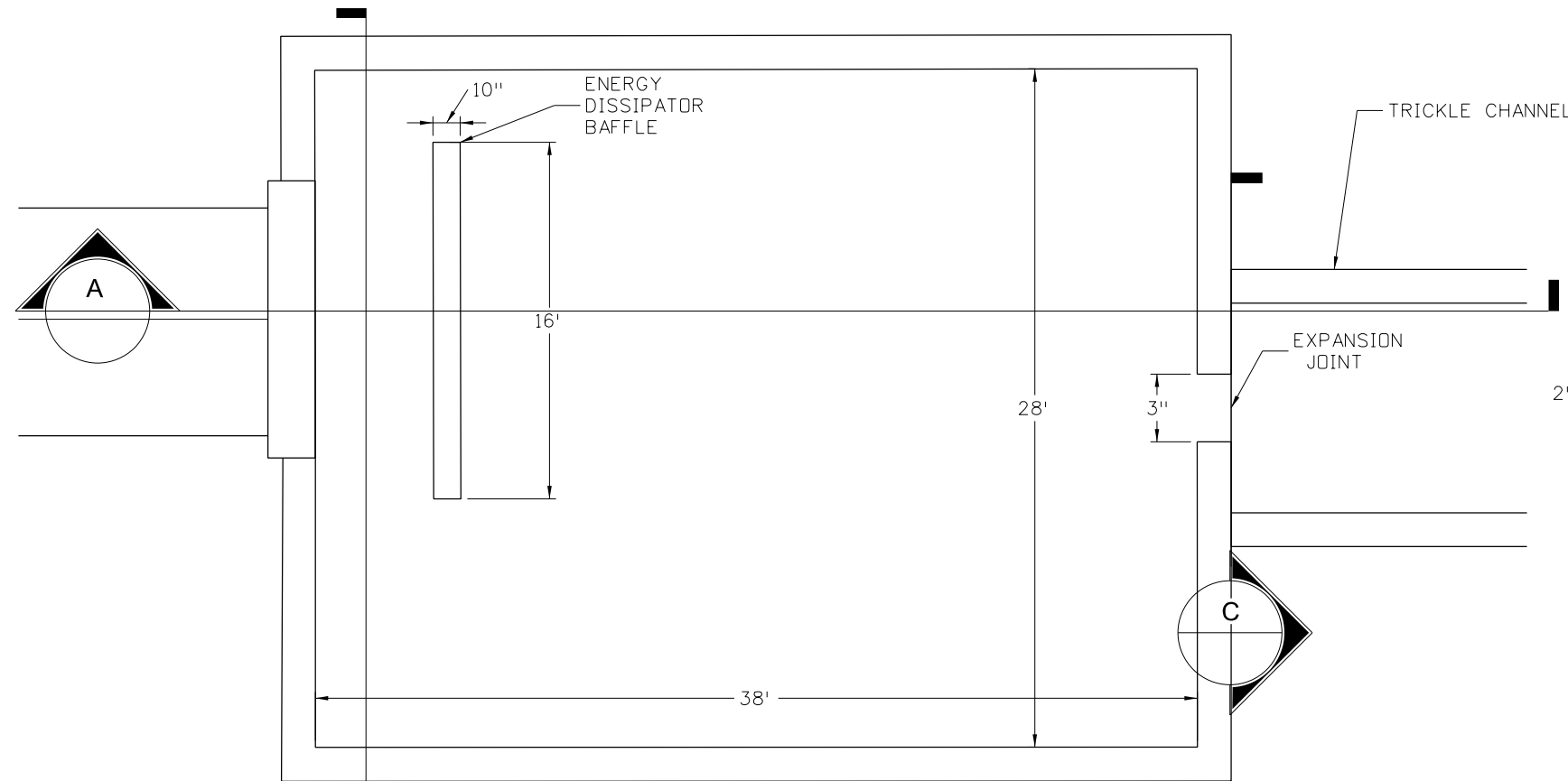


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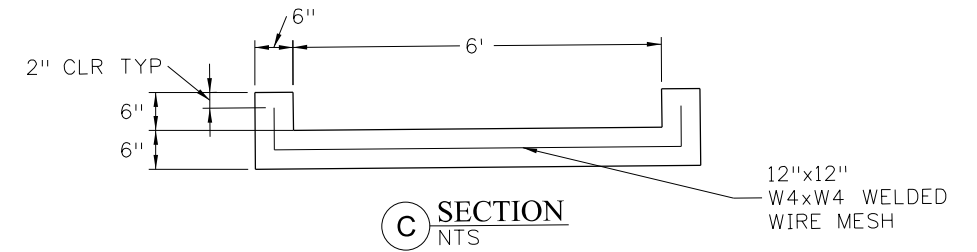


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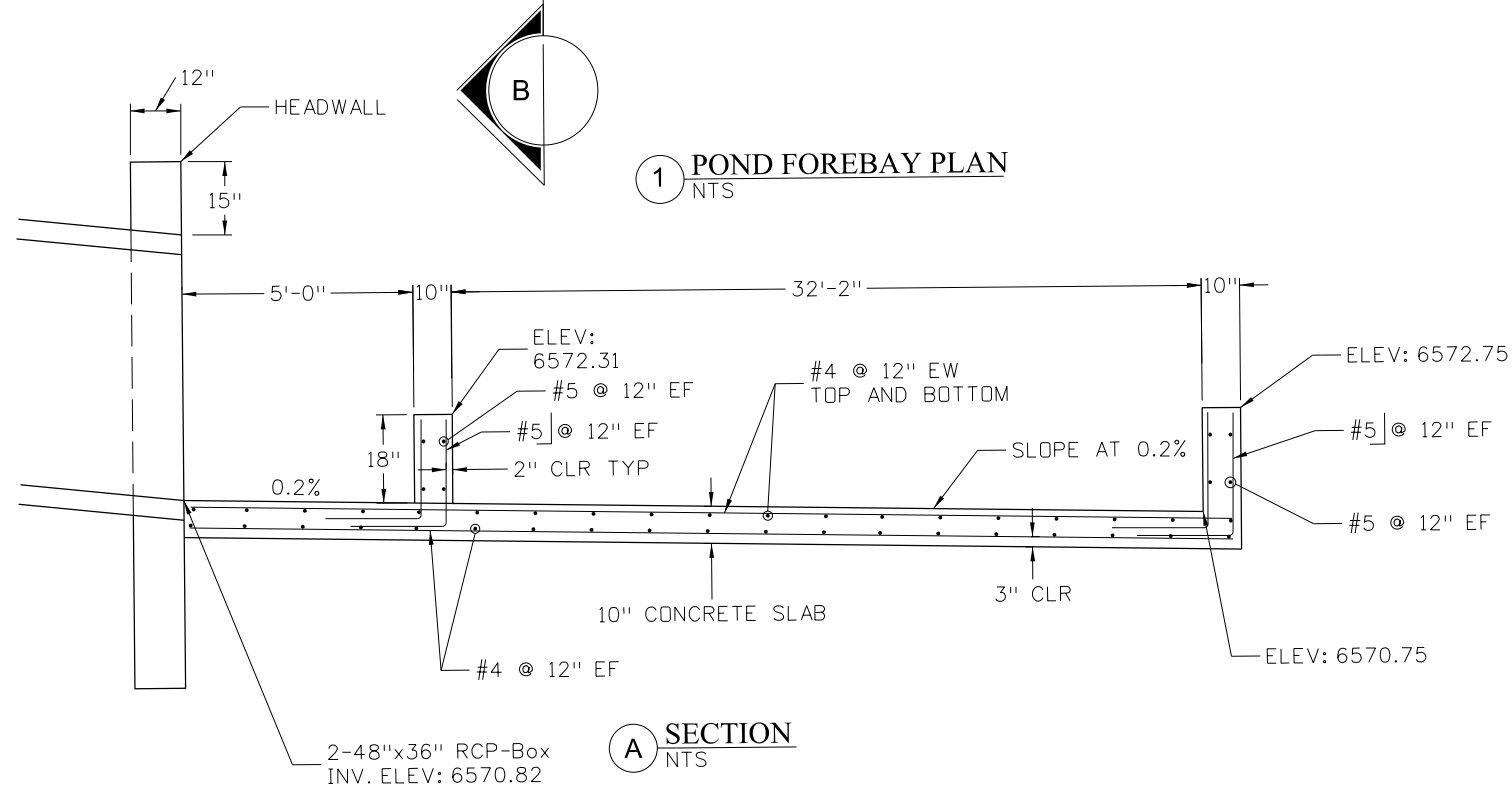


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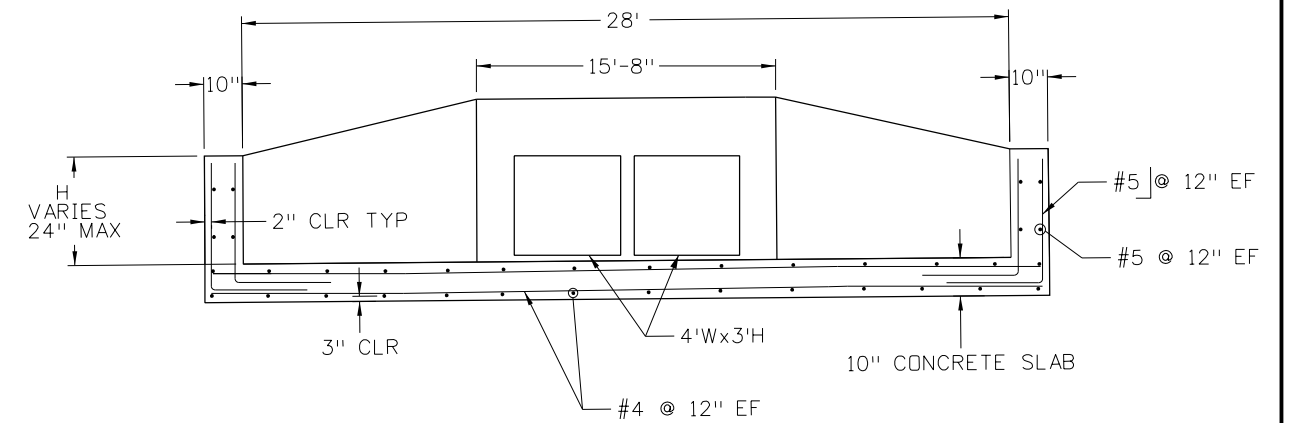
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2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND OTHER CONSTRUCTION DETAILS PRIOR TO FABRICATION.



C SECTION  
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A SECTION  
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B SECTION  
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1 POND FOREBAY PLAN  
NTS

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Date:	Comments	Init.

**Jacobs**  
5555 Tech Center Dr  
Suite 210  
Colorado Springs, CO 80919  
Phone: 719-633-8805

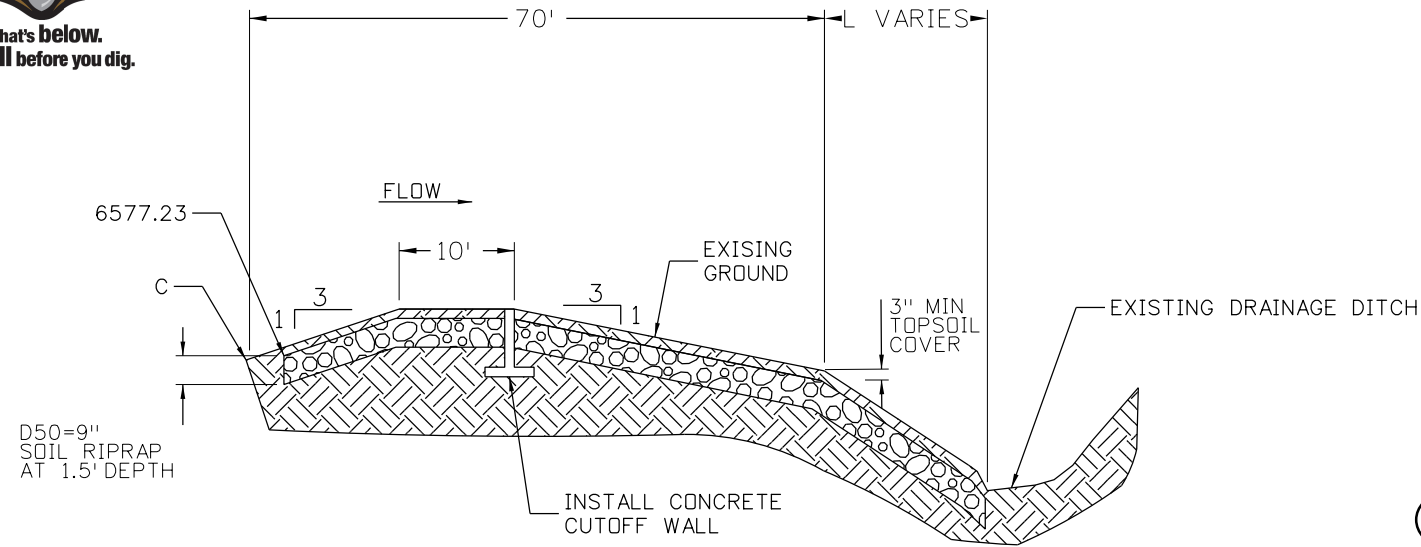
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Revised:
Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
FOREBAY DETAILS			
Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	WtQ	Subset Sheets: 8 of 9	

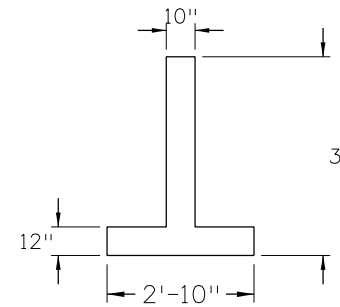
Sheet Number	8
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Know what's below.  
Call before you dig.



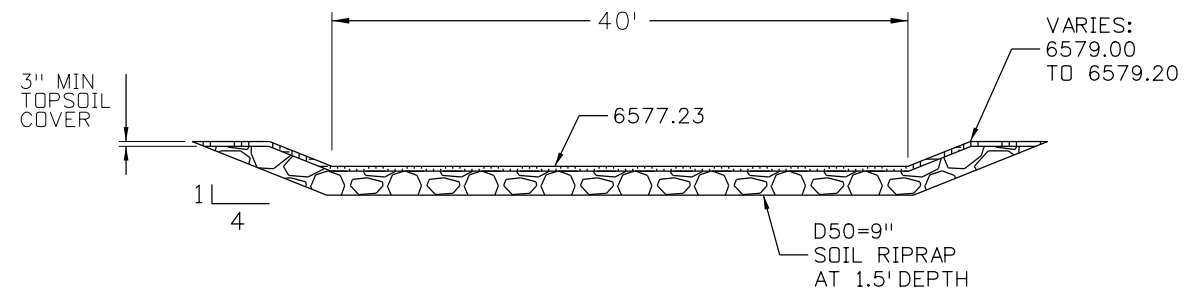
1 EMERGENCY SPILLWAY PROFILE  
NTS



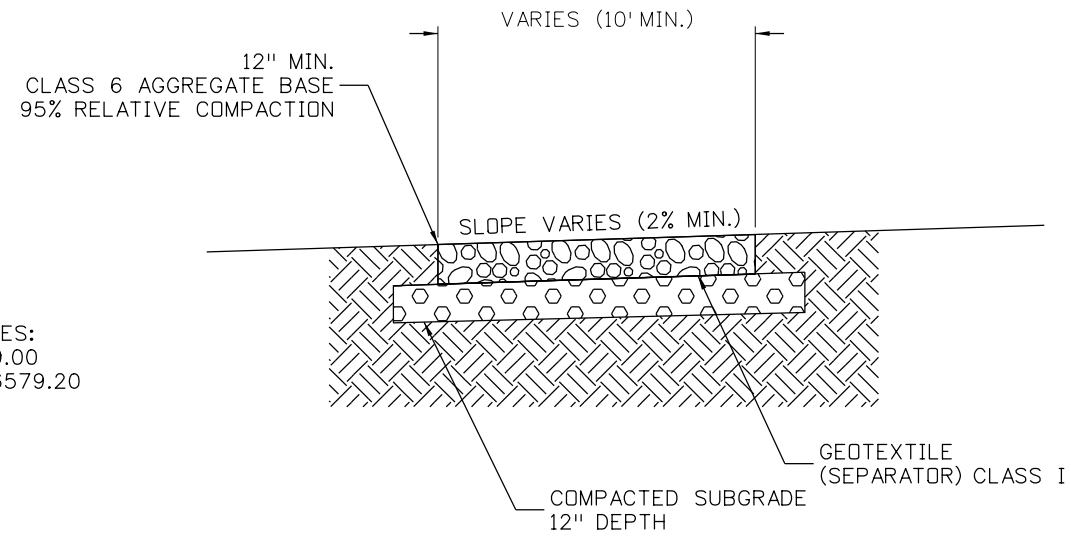
3 EMERGENCY SPILLWAY WALL DETAIL  
NTS

NOTES:

1. ALL REINFORCING STEEL SHALL BE ASTM GRADE 60.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING ALL REINFORCING STEEL AND OTHER CONSTRUCTION DETAILS PRIOR TO FABRICATION.
3. LENGTH OF SOIL RIPRAP VARIES AT EMERGENCY SPILLWAY. INSTALL TO TOE OF DITCH SLOPE.



2 EMERGENCY SPILLWAY SECTION  
NTS



4 POND MAINTENANCE ACCESS PATH  
NTS

T:\Arough 4:14:14 PM p:\wils-pw.bentley.com\wis-pw Documents\8100-TRN\City of Colorado Springs, CO\21-100-183-00\18300DR\_Hydraulics\_Drainage\Drawings\PI-18300DR\_WQP3\_06.dgn

Print Date: 1/8/2024
File Name: P1-18300DR_WQP3_06.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**Jacobs**  
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Colorado Springs, CO 80919  
Phone: 719-633-8805

No Revisions:
Revised:
Void:

MARKSHEFFEL RD - DUBLIN BLVD TO CAREFREE CIR			
EMERGENCY SPILLWAY DETAILS			
Designer:	ZL	Structure	
Detailer:	JAM	Numbers	
Sheet Subset:	WtQ	Subset Sheets: 9 of 9	Sheet Number 9



**12\_ROW**

**Will follow this page.**

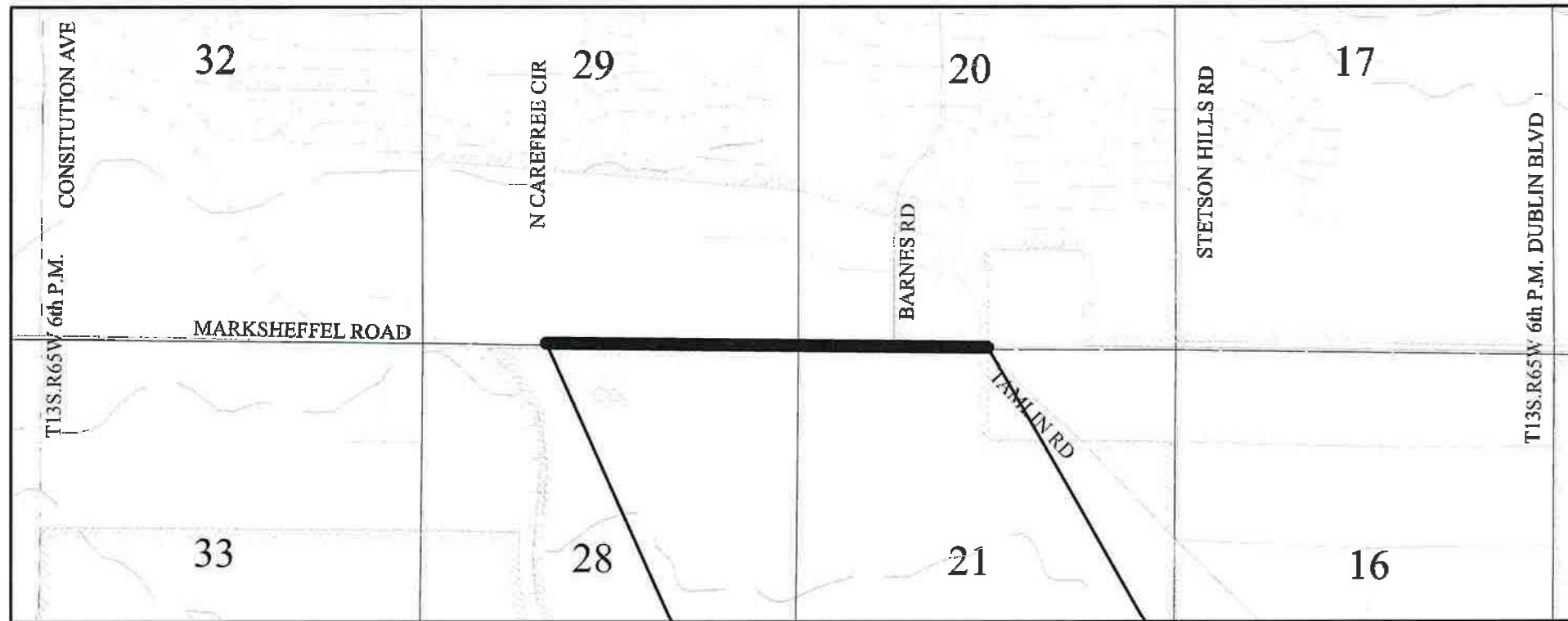
# DEPARTMENT OF PUBLIC SERVICES CITY OF COLORADO SPRINGS

*PROPOSED RIGHT OF WAY PLANS*  
MARKSHEFFEL RD AT BARNES PACKAGE 0 & 1  
*FUNDED BY THE PIKES PEAK RURAL TRANSPORTATION AUTHORITY*

### INDEX OF SUBSET SHEETS

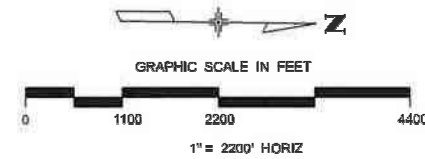
SHEET NO.	DESCRIPTION	SUBSET
1	COVER	COVER
2-4	TABULATION OF PROPERTIES	OWNER
5-6	CONTROL MONUMENTATION	CONTROL
7-17	PLAN SHEETS	ROW
18-19	TABULATION OF PROPOSED COORDINATES	COORDTAB

### LOCATION MAP



**BEGIN ROW PROJECT PACKAGE 1**  
MARKSHEFFEL RD STA 330+89

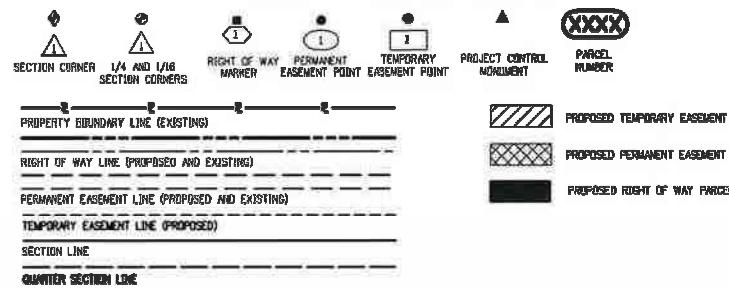
**END ROW PROJECT PACKAGE 1**  
MARKSHEFFEL RD STA 392+62.13



1. This Right-of-Way Plan is not a boundary survey of the adjoining property and is prepared for the City of Colorado Springs purposes only.
2. For title information, The City of Colorado Springs relied on Title Commitments prepared by Fidelity National Title.
3. This plan set is subject to change and may not be the most current set. It is the user's responsibility to verify with the City of Colorado Springs that this set is the most current. The information contained on the attached drawing is not valid unless this copy bears an original signature of the Professional Land Surveyor hereon named.

**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.

### CONVENTIONAL SIGNS



"Cherokee" is Cherokee Water District  
"MVEA" is Mountain View Electric Association  
"Plains" is Plains All American Pipeline LP

### SURVEYOR STATEMENT (ROW PLAN)

I, Kevin A. Williams, a professional land surveyor licensed in the State of Colorado, do hereby state to the City of Colorado Springs that based upon my knowledge, information and belief, the research, calculations and evaluation of the survey evidence were performed and this Right-of-Way Plan was prepared under my responsible charge in accordance with applicable standards of practice defined by Colorado Department of Transportation publications.  
*This statement is not a guaranty or warranty, either expressed or implied.*

All seals for this plan set of drawings are applied to the cover page



Print Date: 6/26/2023	
File Name: PI-18300ROW_TitleSht_01.dgn	
Horiz. Scale: 1:2200	Vert. Scale:
Unit Information	Unit Leader
<b>Project No./Code</b>	<b>PPRTA 10444</b>

Sheet Revisions		
Date:	Comments	Init.



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Suite 220  
Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

<b>MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN</b>	
No Revisions:	
Revised:	
Void:	
Designer:	Structure
Detailer:	Numbers
Sheet Subset: COVER	Subset Sheets: 1 of 1

K:\Williams 12:49:43 PM pwt\wis-pw.bentley.com\wis-pw\Documents\8100-TRN\City of Colorado Springs, CO\21-100-183-00\_Marksheffel Improvements N Corefree to Dublin Final Design T010444\18300\RDW\_Survey\Drawings\PI-18300RDW\_OWNERTAB1.dgn

**R.O.W. TABULATION OF PROPERTIES**

**Marksheffel Road**

PARCEL NO.	OWNER	ADDRESS	LOCATION	PARCEL AREA IN SQUARE FEET					BOOK-PAGE	REMARKS
				EXISTING AREA	EXISTING ROW	NET AREA	REMAINDER			
							LEFT	RIGHT		
PE-01	AE ZIRCON LLC	288 CLAYTON ST, STE 203 DENVER, CO 80206	TRACT IN NW 1/4 SEC. 28 T13S, R65W, 6TH P.M.	726,581	NA	5,020		726,581		TO COLORADO SPRINGS
TE-01	SAME AS PE-01	SAME AS PE-01	SAME AS PE-01		NA	70,957				TO COLORADO SPRINGS
PE-02	FALCON TRUCKING CO	8800 DIX ST DETROIT, MI 48209-1093	TRACT IN NW 1/4 SEC. 28 T13S, R65W, 6TH P.M.	1,556,399	NA	5,098		1,556,399		TO COLORADO SPRINGS
TE-02	SAME AS PE-02	SAME AS PE-02	SAME AS PE-02		NA	35,380				TO COLORADO SPRINGS
RW-03	CITY OF COLORADO SPRINGS	PO BOX 1575 MAIL CODE 455 COLORADO SPRINGS, CO 80901-1575	TRACT IN NW 1/4 SEC. 28 T13S, R65W, 6TH P.M.	98,881	NA	4,783		94,098		TO COLORADO SPRINGS
PE-03	SAME AS RW-03	SAME AS RW-03	SAME AS RW-03		NA	452				TO COLORADO SPRINGS
UE-03	SAME AS RW-03	SAME AS RW-03	SAME AS RW-03		NA	1,500				TO CHEROKEE WATER AND SANITATION DISTRICT
TE-03	SAME AS RW-03	SAME AS RW-03	SAME AS RW-03		NA	11,551				TO COLORADO SPRINGS
RW-04	YES ANTELOPE RIDGE LLC	5050 S. SYRACUSE ST STE 1200 DENVER, CO 80237-3388	TRACT B, CHATEAU AT ANTELOPE RIDGE FLG. NO. 1	198,634	NA	1,337	197,297			TO COLORADO SPRINGS
TE-04	SAME AS RW-04	SAME AS RW-04	SAME AS RW-04			4,397				TO COLORADO SPRINGS
TE-05	CD MARKSHEFFEL & BARNES LLC	106 S. KYRENE RD STE 2 CHANDLER, AZ 85226	TRACT IN SE 1/4 SEC. 20 T13S, R65W, 6TH P.M.	50,965	NA	1,527	50,965			TO COLORADO SPRINGS

All seals for this plan set of drawings are applied to the cover page

Sheet Number 2

Print Date: 6/7/2023
File Name: P1-18300RDW_OWNERTAB1.dgn
Horiz. Scale: 1:1      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**WILSON & COMPANY**  
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Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

No Revisions:
Revised:
Void:

<b>MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN OWNER TABULATIONS</b>		
Designer:	Structure Numbers	
Detailer:		
Sheet Subset: OWNER	Subset Sheets: 1 of 3	

K:\Williams 12:51:21 PM pwr:\wils-pw.bentley.com\wils-pw\Documents\8100-TRN\City of Colorado Springs, CO\21-100-183-00\_MarksheffelImprovements N Carefree to Dublin FinalDesign TO10444\18300RDW\_Survey\Drawings\P1-18300RDW\_DWNERTAB2.dgn

R.O.W. TABULATION OF PROPERTIES				Marksheffel Road						
PARCEL NO.	OWNER	ADDRESS	LOCATION	PARCEL AREA IN SQUARE FEET					BOOK-PAGE	REMARKS
				EXISTING AREA	EXISTING ROW	NET AREA	REMAINDER			
							LEFT	RIGHT		
TE-06	CD MARKSHEFFEL & BARNES LLC	106 S. KYRENE RD STE 2 CHANDLER, AZ 85226	TRACT IN SE 1/4 SEC. 20 T13S, R65W, 6TH P.M.	34,800	NA	1,050	34,800			TO COLORADO SPRINGS
TE-07	CD MARKSHEFFEL & BARNES LLC	106 S. KYRENE RD STE 2 CHANDLER, AZ 85226	TRACT IN SE 1/4 SEC. 20 T13S, R65W, 6TH P.M.	34,452	NA	1,040	34,452			TO COLORADO SPRINGS
TE-08	BLH NO. 2 LLC	111 S. TEJON ST., STE. 222 COLORADO SPRINGS, CO 80903	TRACT IN SW 1/4 SEC. 21 T13S, R65W, 6TH P.M.	156,380	NA	3,770		156,380		TO COLORADO SPRINGS
PE-09	BLH NO. 2 LLC	111 S. TEJON ST., STE. 222 COLORADO SPRINGS, CO 80903	TRACT IN SW 1/4 SEC. 21 T13S, R65W, 6TH P.M.	8,178,390	NA	3,289		8,178,390		TO COLORADO SPRINGS
TE-09	SAME AS PE-09	SAME AS PE-09	SAME AS PE-09		NA	56,128				TO COLORADO SPRINGS
TE-10	TAMLIN STORAGE LLC	25 N. SPRUCE ST STE 200 COLORADO SPRINGS, CO 80905	TRACT IN NW 1/4 SEC. 21 T13S, R65W, 6TH P.M.	718,304	NA	3,459		718,304		TO COLORADO SPRINGS
PE-11	BLH NO. 1 LLC	111 S. TEJON ST., STE. 222 COLORADO SPRINGS, CO 80903	TRACT IN NW 1/4 SEC. 28 T13S, R65W, 6TH P.M.	17,154,799	NA	5,338		17,154,799		TO COLORADO SPRINGS
PE-11A	SAME AS PE-11	SAME AS PE-11	SAME AS PE-11		NA	59,417				TO COLORADOS PRINGS
TE-11	SAME AS PE-11	SAME AS PE-11	SAME AS PE-11		NA	51,099				TO COLORADO SPRINGS

All seals for this plan set of drawings are applied to the cover page

Print Date: 6/7/2023  
 File Name: P1-18300RDW\_DWNERTAB2.dgn  
 Horiz. Scale: 1:1      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

No Revisions:  
 Revised:  
 Void:

**MARKSHEFFEL ROAD  
 RIGHT-OF-WAY PLAN  
 OWNER TABULATIONS**

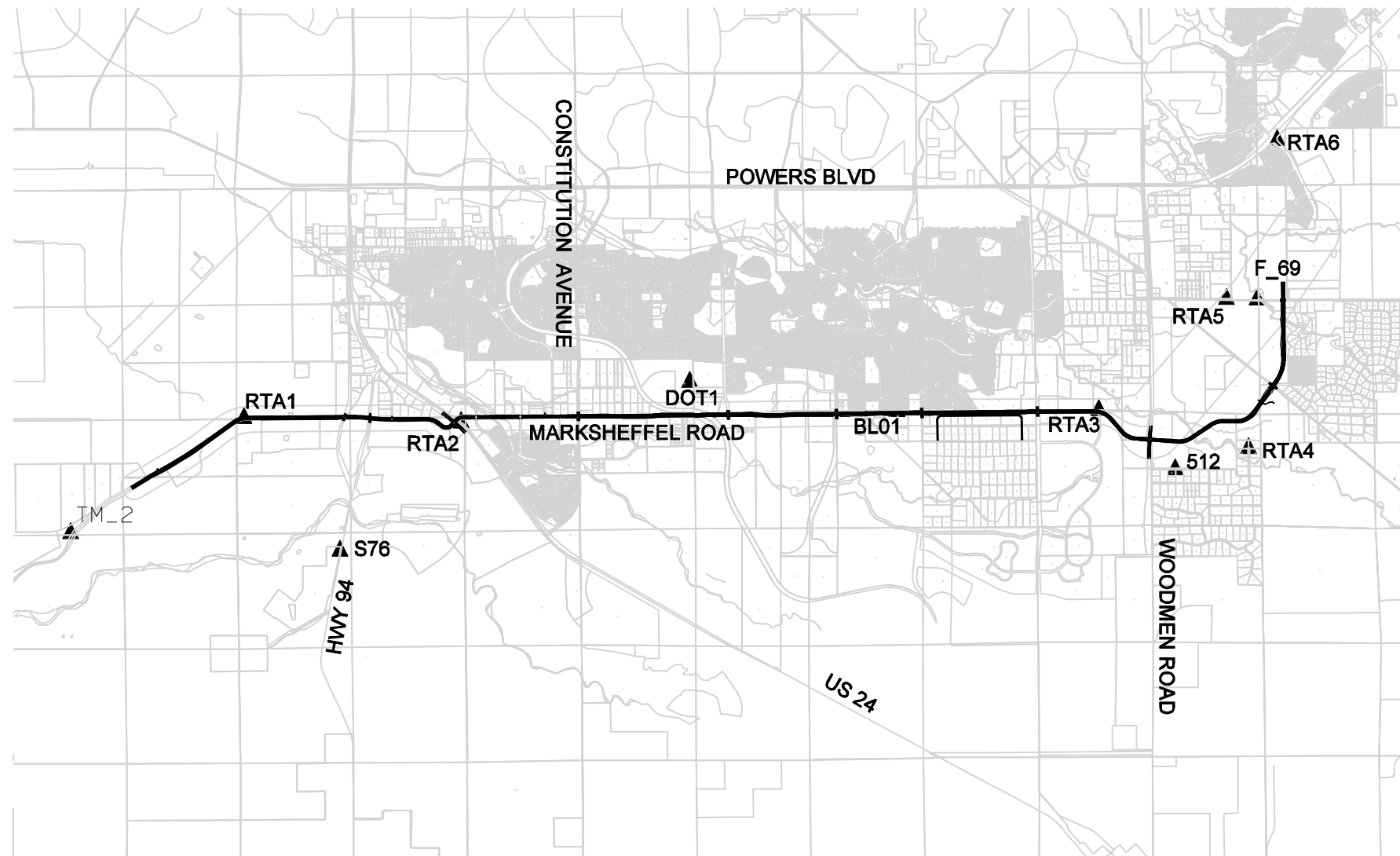
Designer:  
 Detailer:  
 Sheet Subset: OWNER

Structure Numbers  
 Subset Sheets: 2 of 3





# MARKSHEFFEL ROAD CONTROL DIAGRAM



## GENERAL NOTES

- THE GPS COORDINATES WERE ADJUSTED FROM NAD83 (1992) COLORADO COORDINATE SYSTEM CENTRAL ZONE 0502 TO A GROUND COORDINATE SYSTEM USING THE FOLLOWING PARAMETERS:
 

ELEVATION AT DOT1	= 6600.333
MEAN SEA LEVEL FACTOR	= 0.999371725
MEAN GRID FACTOR	= 0.999943161
COMBINED ADJUSTED SCALE FACTOR	= 0.999314922
TRUNCATION NORTH	= 1,300,000.00
TRUNCATION EAST	= 3,100,000.00
- ALL COORDINATES AND ELEVATIONS ARE EXPRESSED IN U.S. FEET.
- GPS NETWORK ADJUSTMENT WAS CONSTRAINED USING THE FOLLOWING NAD83(92) PUBLISHED HORIZONTAL CONTROL POINTS:
 

PID	DESIGNATION	NORTHING	EASTING
JK0858	L395 (NOT SHOWN)	1,419,416.07	3,195,454.16
JK0239	E24 (NOT SHOWN)	1,409,946.24	3,261,914.10
	DOT1	1,383,024.89	3,231,077.78
AE4293	HOWELLS (NOT SHOWN)	1,340,601.61	3,227,473.74

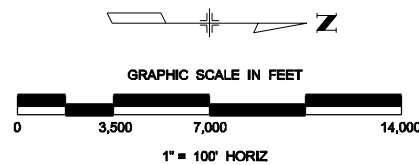
NOTE: DOT1 IS A EL PASO COUNTY DOT CONTROL POINT
- GPS NETWORK ADJUSTMENT WAS CONSTRAINED USING THE FOLLOWING NAVD88 VERTICAL CONTROL POINTS:
 

PID	DESIGNATION	ELEVATION
JK0858	L395 (NOT SHOWN)	6597.97
JK0239	E24 (NOT SHOWN)	6901.94
JK0223	S76	6214.46
	TM_2	6056.54

NOTE: THE TM\_2 ELEVATION IS A VERTCON SOLUTION FROM A NGVD29 FIMS MONUMENT. NO SPIRIT LEVELS WERE RUN THROUGH THE CONTROL POINTS, THE RESULTS LISTED ON THE CONTROL TABULATION SHEET ARE GEOID 2003 DERIVED GPS ELEVATIONS ONLY.
- NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN 3 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.
- BEARINGS ARE BASED ON A GPS STATIC SURVEY PERFORMED JULY 20, 2006, BY CH2M HILL INC. THE BASIS OF BEARING IS THE LINE BETWEEN STATIONS DOT1 AND E24 WHICH BEARS N 48°53'48" E.

IN ORDER TO CONVERT DATA FROM THE MATRIX "MARKSHEFFEL METROPOLITAN DISTRICT" COORDINATE SYSTEM TO THAT USED BY THIS SET OF PLANS:  
 ADD 68933.89' TO THE NORTH OR "Y" COORDINATE  
 ADD 130697.82' TO THE EAST OR "X" COORDINATE  
 ROTATE VECTOR 0°32'26" COUNTER-CLOCKWISE ABOUT N 78823.3320 E 134898.2290  
 RAISE ELEVATIONS BY 3.60'

NOTE: Project control and coordinates for project PPRTA Project Number 10444 are based on this Control Diagram from PPRTA Project Number 75174.



Computer File Information	
Creation Date: 07/31/2006	Initials: SDP
Print Date: 08/31/2009	Initials: LMS
File Name: succd01pl.dgn	

Sheet Revisions		
Date:	Comments	Init.

REVISIONS NO. DESCRIPTION

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 5755 Mark Dabling Blvd.  
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 Phone: 719-520-5800  
 Fax: 719-520-0108

No Revisions:	
Revised:	
Void:	

Marksheffel Road Right-Of-Way Plans Control Diagram	
Designer: MRC	Structure Numbers
Detailer: LMS	
Sheet Subset: CONTROL	Subset Sheets: 1 of 2

Project No./Code  
 PPRTA  
 75174  
 Sheet Number 3  
**PPRTA 10444 - Sheet 5**

## MARKSHEFFEL ROAD CONTROL TABULATION SHEET

POINT NAME	NAD83(92)			SPC ZONE 0502		PROJECT COORDINATES		NAVD88 (GEOID 03)	POINT NAME	POINT DESCRIPTION
	LATITUDE	LONGITUDE	HEIGHT	NORTHING (sft)	EASTING (sft)	NORTHING (sft)	EASTING (sft)	ELEVATION (sft)		
L_395	38°58'58.53301"N	104°48'44.63252"W	6543.257	1419416.070	3195454.160	120389.148	97644.797	6597.970	L_395	NGS DEEP ROD
RTA6	38°57'26.52208"N	104°43'36.52444"W	6887.014	1410303.589	3219860.935	111270.420	122068.304	6943.420	RTA6	PPRTA ALUM CAP
E_24	38°57'19.11384"N	104°34'44.20388"W	6843.542	1409946.240	3261914.100	110912.826	164150.299	6901.940	E_24	USCGS BRASS CAP
F_69	38°57'16.73303"N	104°42'03.02236"W	6922.375	1409377.219	3227254.993	110343.415	129467.432	6979.195	F_69	FIMS ALUM CAP
RTA4	38°57'12.17211"N	104°40'35.71089"W	6936.949	1408977.418	3234155.799	109943.340	136372.969	6994.117	RTA4	PPRTA ALUM CAP
RTA5	38°57'02.72886"N	104°42'03.43518"W	6895.207	1407960.239	3227234.846	108925.464	129447.271	6952.060	RTA5	PPRTA ALUM CAP
512	38°56'38.50819"N	104°40'23.60085"W	6883.768	1405580.599	3235143.366	106544.192	137361.212	6941.070	512	RED PLASTIC CAP
RTA3	38°56'03.61554"N	104°40'58.91809"W	6852.725	1402025.551	3232385.030	102986.706	134600.985	6909.985	RTA3	PPRTA ALUM CAP
BL01	38°54'31.12133"N	104°40'59.49339"W	6709.179	1392668.271	3232423.706	93623.012	134639.688	6766.694	BL01	FIMS ALUM CAP
DOT1	38°52'56.09949"N	104°41'17.60862"W	6542.632	1383042.890	3231077.776	83991.032	133292.835	6600.333	DOT1	EPC BRASS CAP
RTA2	38°51'11.01263"N	104°40'55.06489"W	6367.792	1372428.178	3232956.022	73369.044	135172.369	6425.880	RTA2	PPRTA ALUM CAP
S76	38°50'15.02899"N	104°39'40.25073"W	6155.941	1366818.804	3238926.246	67755.824	141146.685	6214.460	S76	USCGS BRASS CAP
RTA1	38°49'31.44315"N	104°40'58.70992"W	6132.904	1362353.054	3232758.284	63287.012	134974.495	6191.246	RTA1	PPRTA ALUM CAP
TM_2	38°48'11.40438"N	104°39'52.05691"W	5997.671	1354304.273	3238107.176	55232.714	140327.054	6056.544	TM_2	FIMS ALUM CAP
HOWELL	38°45'56.90534"N	104°42'07.89928"W	5875.795	1340601.610	3227473.740	41520.657	129686.328	5934.361	HOWELL	NGS BRASS CAP

CAF:	0.999314922
Truncation North:	1,300,000
Truncation East:	3,100,000
No spirit levels;	GPS Elevations

NOTE: Project control and coordinates for project PPRTA Project Number 10444 are based on this Control Diagram from PPRTA Project Number 75174.

Computer File Information	
Creation Date: 07/31/2006	Initials: LMS
Print Date: 08/31/2009	Initials: LMS
File Name: suct01pl.dgn	

Sheet Revisions		
Date:	Comments	Init.
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No Revisions:	
Revised:	
Void:	

Marksheffel Road Right-Of-Way Plans Control Tabulation Sheet		
Designer: MRC	Structure Numbers	
Detailer: LMS		
Sheet Subset: CONTROL	Subset Sheets: 2 of 2	

Project No./Code
PPRTA 75174
Sheet Number 4



Know what's below.  
Call before you dig.

SE 1/4 Sec. 29  
T13S, R65W, 6th PM

CITY OF COLORADO SPRINGS  
SCH #5329400015

COLD WINDERMERE #2 LLC  
SCH #5329416011  
WINDERMERE FILING NO 1

N CAREFREE CIRCLE

20' ELECTRIC EASEMENT

15' ROW PRESERVATION

ROW TO BE DEDICATED PER PLAT

MARKSHEFFEL RD

N0° 47'16"W 2,650.48' (SECTION LINE)

N0° 46'45"W  
15.48' (PE-12A)

210

MATCH LINE STA 326+00

MATCH LINE STA 340+00

20' CHEROKEE WATER & SANITATION EASEMENT B5437 P1189

S89° 13'15"W  
4.50'

209

30' WYCD EASEMENT BOOK 2127 PAGE 180  
(ASSIGNED TO KANAB PIPELINE B6608 P1373)  
(ASSIGNED TO ROCKY MOUNTAIN PIPELINE REC #205161563)

N0° 46'45"W 908.54' (PE-12)

PE-12

20' CHEROKEE METRO DIST PE-31  
REC. 210093039

N28° 53'42"W  
11.01'

582

583

20' CHEROKEE METRO DIST PE-31 REC. 210093039

S0° 46'45"E 908.54' (PE-12)

N0° 46'45"W 908.54'

314

S89° 13'15"W  
100.00' (PE-12A)

50' CITY OF COLORADO SPRINGS  
PE-31A REC. 210109414

N60° 35'51"W  
51.84'

581

S0° 46'45"E 390.35'

585

50' CITY OF COLORADO SPRINGS PE-31A REC. 210109414

S89° 13'15"W  
100.635' (TE-12)

TE-12

575

S0° 46'45"E  
15.48' (PE-12A)

571

S13° 18'47"W 350.17'

569

S1° 09'11"E 157.90'

567

580

PE-12 PE-12A TE-12

BLH No. 1 LLC  
111 S. Tejon St., Ste. 222  
Colorado Springs, CO 80903-2246  
Rec. #215057837  
Sch #5300000813

BLH NO. 1 LLC  
#5300000813

CIG B2115 P137

S85° 38'02"W 254.75'

S85° 44'15"E 282.94'

568

S0° 59'27"E  
70.46'

566

All seals for this plan  
set of drawings are  
applied to the cover  
page

SW 1/4 Sec. 28  
T13S, R65W, 6th PM

Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_01.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

**COLORADO SPRINGS**  
OLYMPIC CITY USA

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Phone: 719-520-5800  
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No Revisions:
Revised:
Void:

MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN Sta 326+00 To 340+00	
Designer:	Structure Numbers
Detailer:	
Sheet Subset: RDW	Subset Sheets: 1 of 11

Sheet Number 7

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Know what's below.  
Call before you dig.

NE 1/4 Sec. 29  
T13S, R65W, 6th PM

EAGLE DEVELOPMENT COMPANY  
SCH. #532911249  
TRACT A, WINDERMERE FILING NO. 1

YES ANTELOPE RIDGE LLC  
SCH. #532911002  
TRACT A, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 2

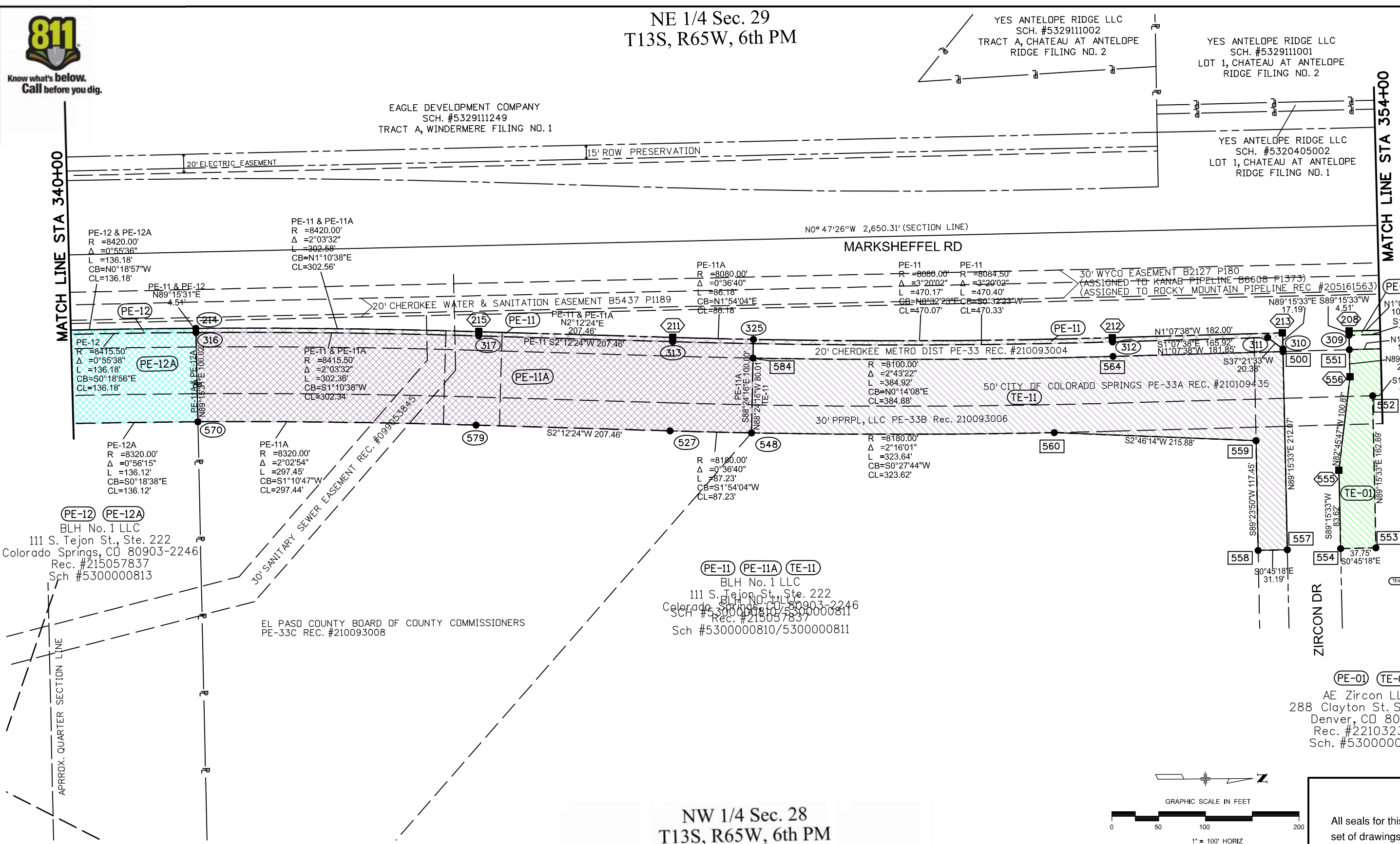
YES ANTELOPE RIDGE LLC  
SCH. #532911001  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 2

YES ANTELOPE RIDGE LLC  
SCH. #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

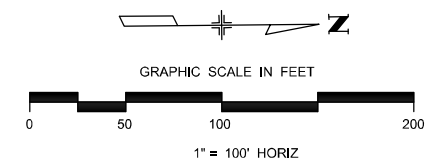
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MATCH LINE STA 340+00

MATCH LINE STA 354+00



NW 1/4 Sec. 28  
T13S, R65W, 6th PM



Print Date: 6/26/2023  
File Name: P1-18300RDW\_Plan\_02.dgn  
Horiz. Scale: 1:100 Vert. Scale:  
Unit Information Unit Leader  
Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.

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Colorado Springs, CO 80919  
Phone: 719-520-5800  
FAX: 719-520-0108

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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	
Detailer:	
Sheet Subset: ROW	Structure Numbers:
	Subset Sheets: 2 of 11

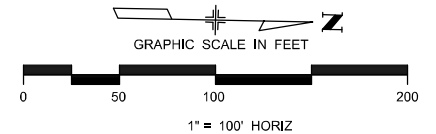
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Sheet Number 8



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T13S, R65W, 6th PM

SE 1/4 Sec. 20  
T13S, R65W, 6th PM

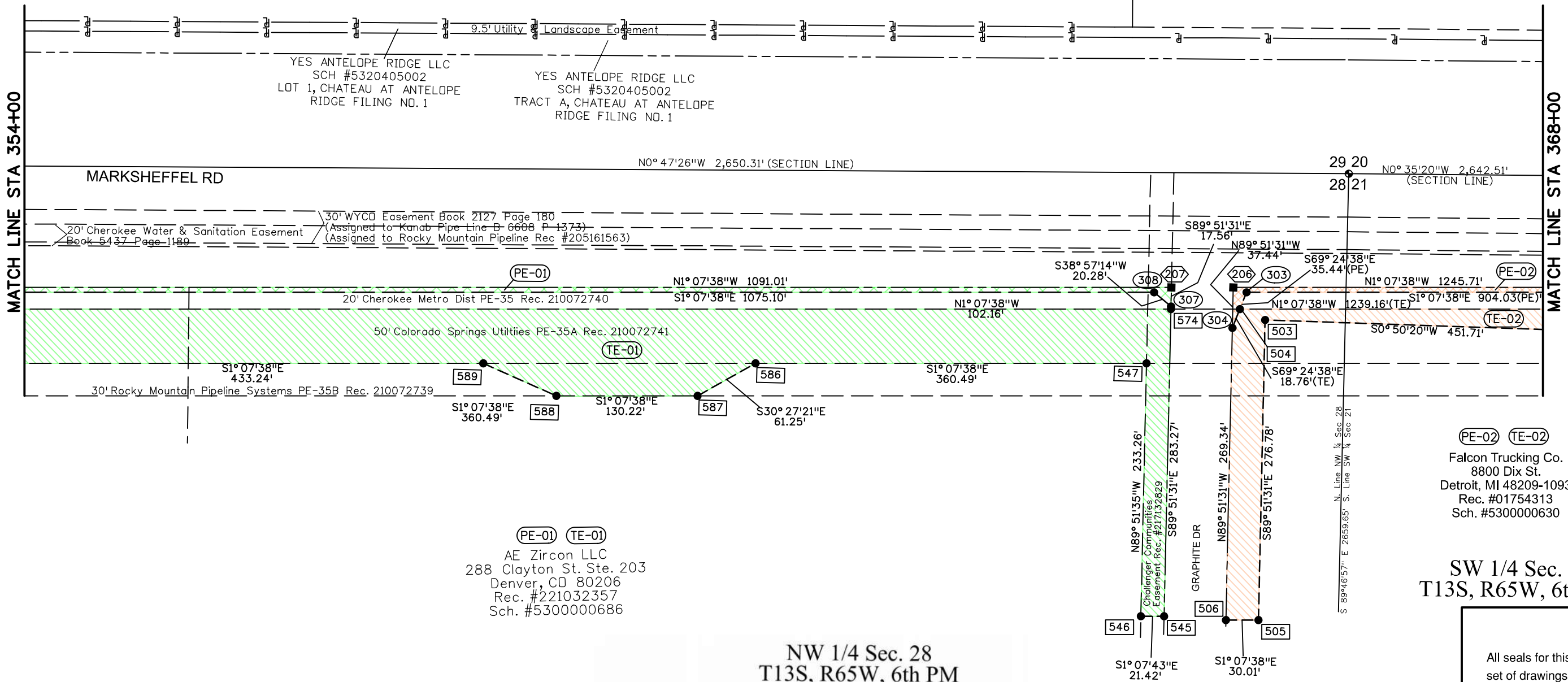


YES ANTELOPE RIDGE LLC  
SCH #5329111001  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 2

YES ANTELOPE RIDGE LLC  
SCH #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO 1

YES ANTELOPE RIDGE LLC  
SCH #5320405002  
LOT 1, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1

YES ANTELOPE RIDGE LLC  
SCH #5320405002  
TRACT A, CHATEAU AT ANTELOPE  
RIDGE FILING NO. 1



(PE-01) (TE-01)  
AE Zircon LLC  
288 Clayton St. Ste. 203  
Denver, CO 80206  
Rec. #221032357  
Sch. #5300000686

(PE-02) (TE-02)  
Falcon Trucking Co.  
8800 Dix St.  
Detroit, MI 48209-1093  
Rec. #01754313  
Sch. #5300000630

NW 1/4 Sec. 28  
T13S, R65W, 6th PM

SW 1/4 Sec. 21  
T13S, R65W, 6th PM

Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_03.dgn
Horiz. Scale: 1:100
Unit Information
Project No./Code PPRTA 10444

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Revised:
Void:

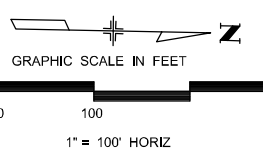
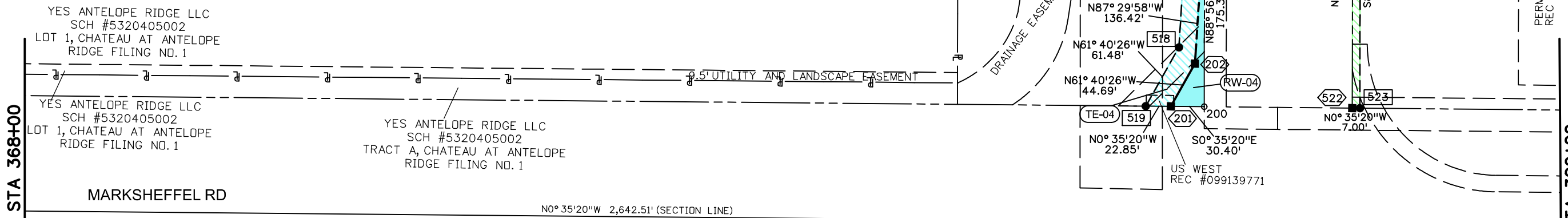
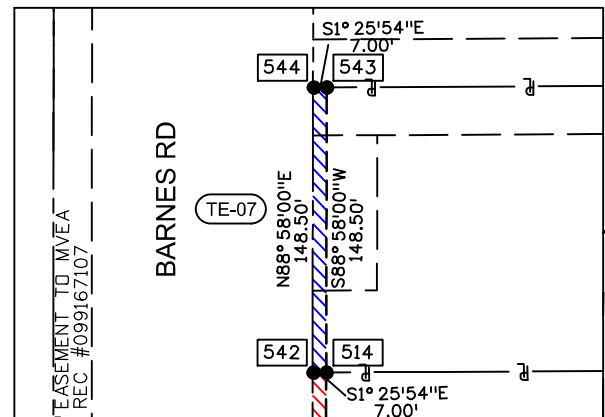
MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	Structure Numbers
Detailer:	
Sheet Subset: ROW	Subset Sheets: of

All seals for this plan set of drawings are applied to the cover page

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SE 1/4 Sec. 20  
T13S, R65W, 6th PM

<p>(RW-03) (PE-03) (UE-03) (TE-03) City of Colorado Springs PO Box 1575 Mail Code 455 Colorado Springs, CO 80901-1575 Rec. #96020361 Sch. #5300000624</p>	<p>(TE-07) CD Marksheffel &amp; Barnes LLC 106 S. Kyrene Rd. Ste. 2 Chandler, AZ 85226 Rec. #221230438 Sch. #5320414003</p>
<p>(RW-04) (TE-04) YES Antelope Ridge LLC 5050 S. Syracuse St., Ste. 1200 Denver, CO 80237-3388 Rec. #22029536 Sch. #5320405001</p>	<p>(TE-08) BLH No.2 LLC 111 S. Tejon St., Ste 222 Colorado Springs, CO 80903 Rec. #215057837 Sch. #5300000783</p>
<p>(TE-05) CD Marksheffel &amp; Barnes LLC 106 S. Kyrene Rd. Ste. 2 Chandler, AZ 85226 Rec. #221230438 Sch. #5320414001</p>	<p>(PE-09) (TE-09) BLH No. 2 LLC 111 S. Tejon St., Ste 222 Colorado Springs, CO 80903-2246 Rec. #222100571 Sch. #5300000781</p>
<p>(TE-06) CD Marksheffel &amp; Barnes LLC 106 S. Kyrene Rd. Ste. 2 Chandler, AZ 85226 Rec. #221230438 Sch. #5320414002</p>	<p>(TE-13) BL Development Inc. 111 S. Tejon St., Ste 222 Colorado Springs, CO 80903-2246 Rec. #222100571 Sch. #5300000789</p>



SW 1/4 Sec. 21  
T13S, R65W, 6th PM

(PE-02) (TE-02)  
Falcon Trucking Co.  
8800 Dix St.  
Detroit, MI 48209-1093  
Rec. #01754313  
Sch. #5300000630

Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_04.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA 10444

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Date:	Comments	Init.

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FAX: 719-520-0108

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Revised:	Detailer:	Subset Sheets: of
Void:	Sheet Subset: ROW	

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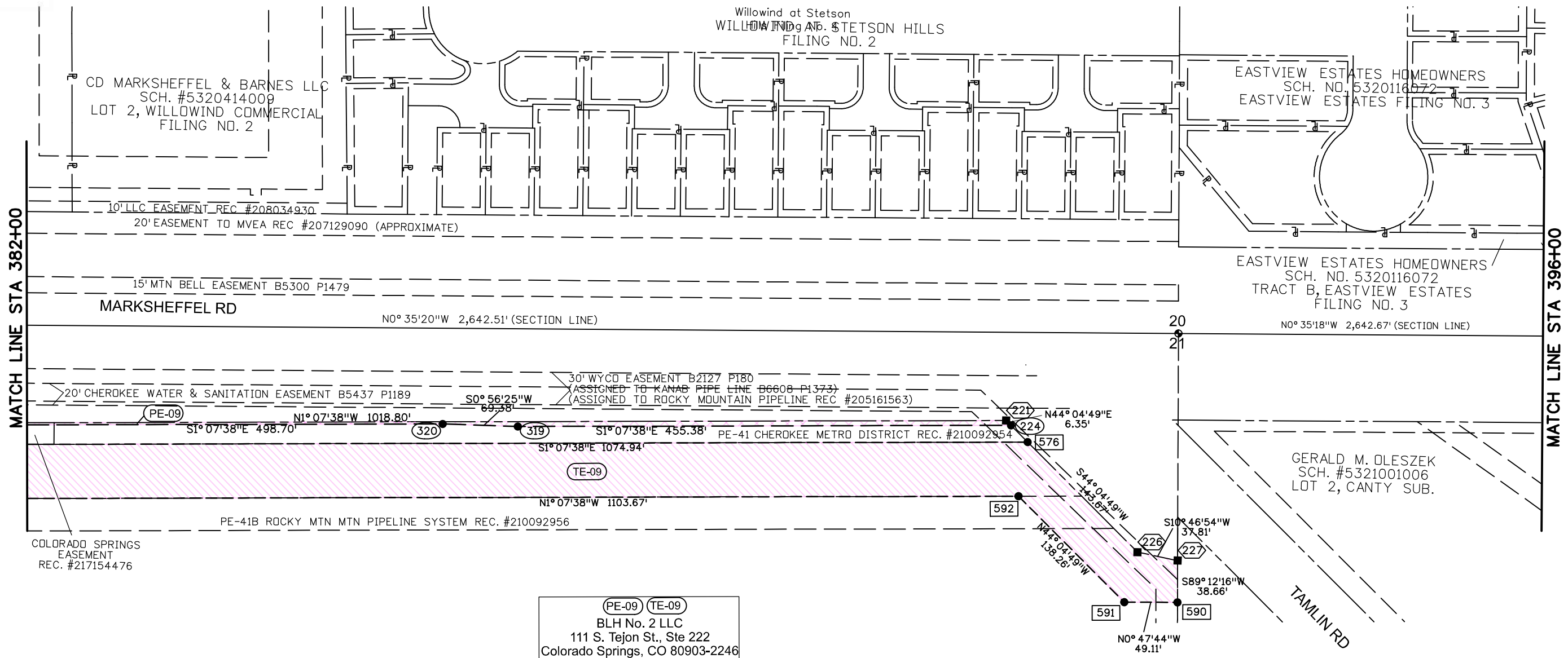
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Know what's below.  
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SE 1/4 Sec. 20  
T13S, R65W, 6th PM

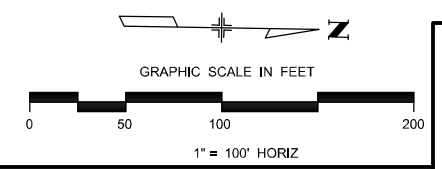
NE 1/4 Sec. 20  
T13S, R65W, 6th PM



(PE-09) (TE-09)  
BLH No. 2 LLC  
111 S. Tejon St., Ste 222  
Colorado Springs, CO 80903-2246  
Rec. #222100571  
Sch. #5300000781

SW 1/4 Sec. 21  
T13S, R65W, 6th PM

NW 1/4 Sec. 21  
T13S, R65W, 6th PM



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Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_05.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
<b>Project No./Code</b> PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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OLYMPIC CITY USA

PPRTA

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Void:

<b>MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN</b>	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:    ROW	Subset Sheets:    of

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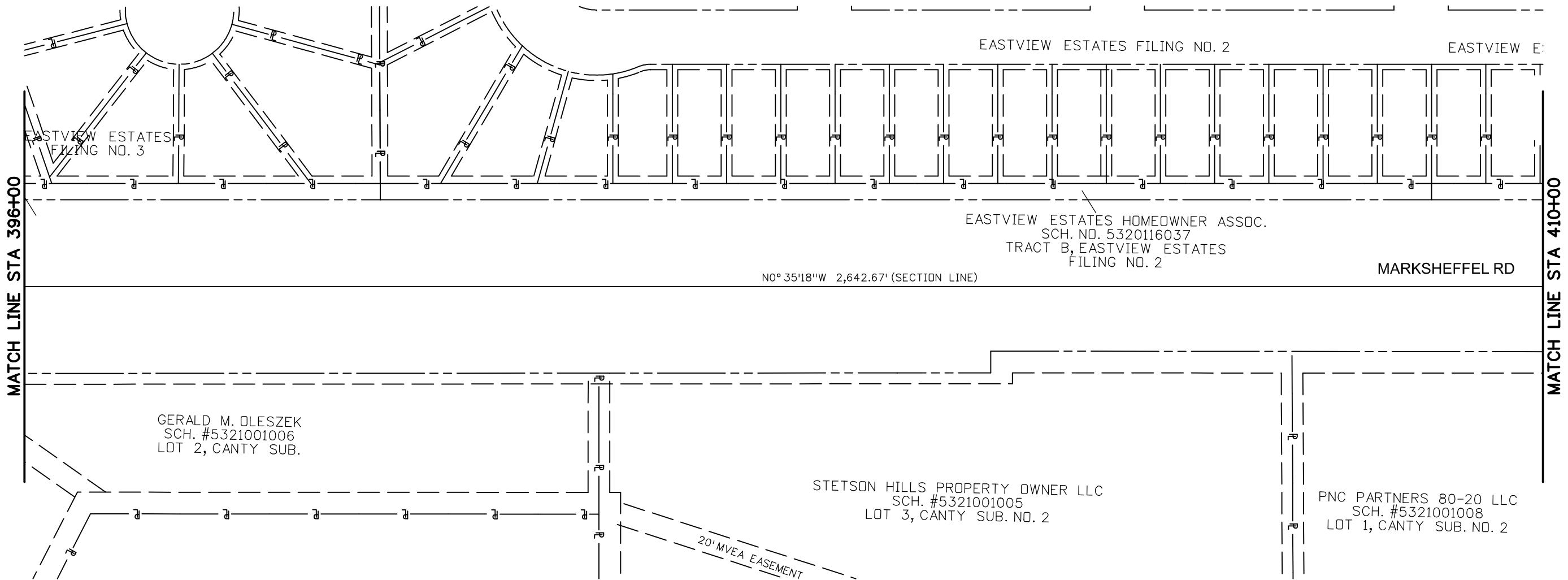
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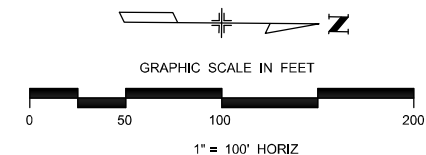
Know what's below.  
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NE 1/4 Sec. 20  
T13S, R65W, 6th PM



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NW 1/4 Sec. 21  
T13S, R65W, 6th PM



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Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_06.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:    RDW	Subset Sheets: 6 of 11

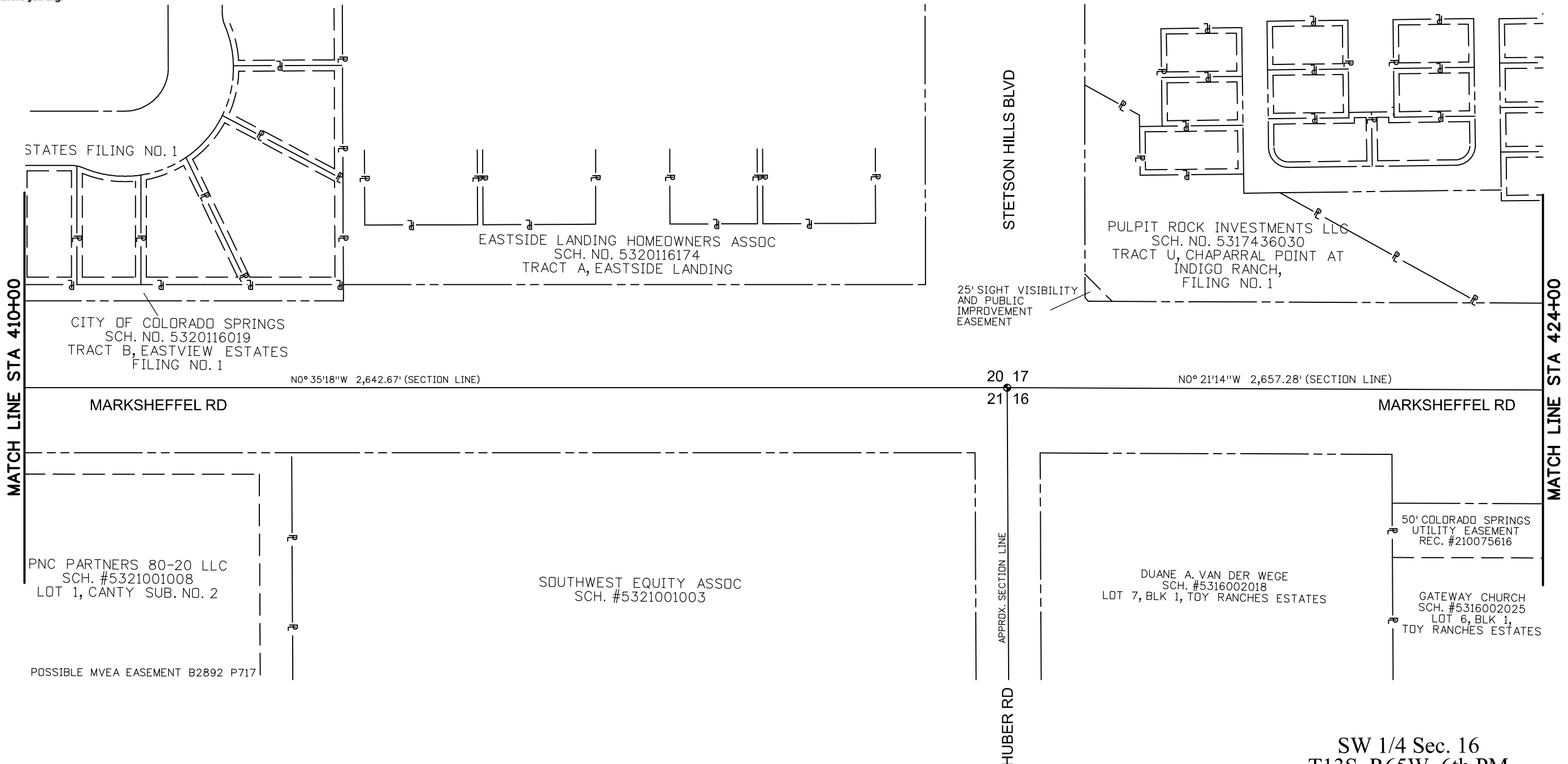
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Call before you dig.

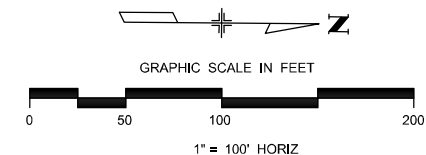
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T13S, R65W, 6th PM

SE 1/4 Sec. 17  
T13S, R65W, 6th PM



NW 1/4 Sec. 21  
T13S, R65W, 6th PM

SW 1/4 Sec. 16  
T13S, R65W, 6th PM



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Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_07.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.

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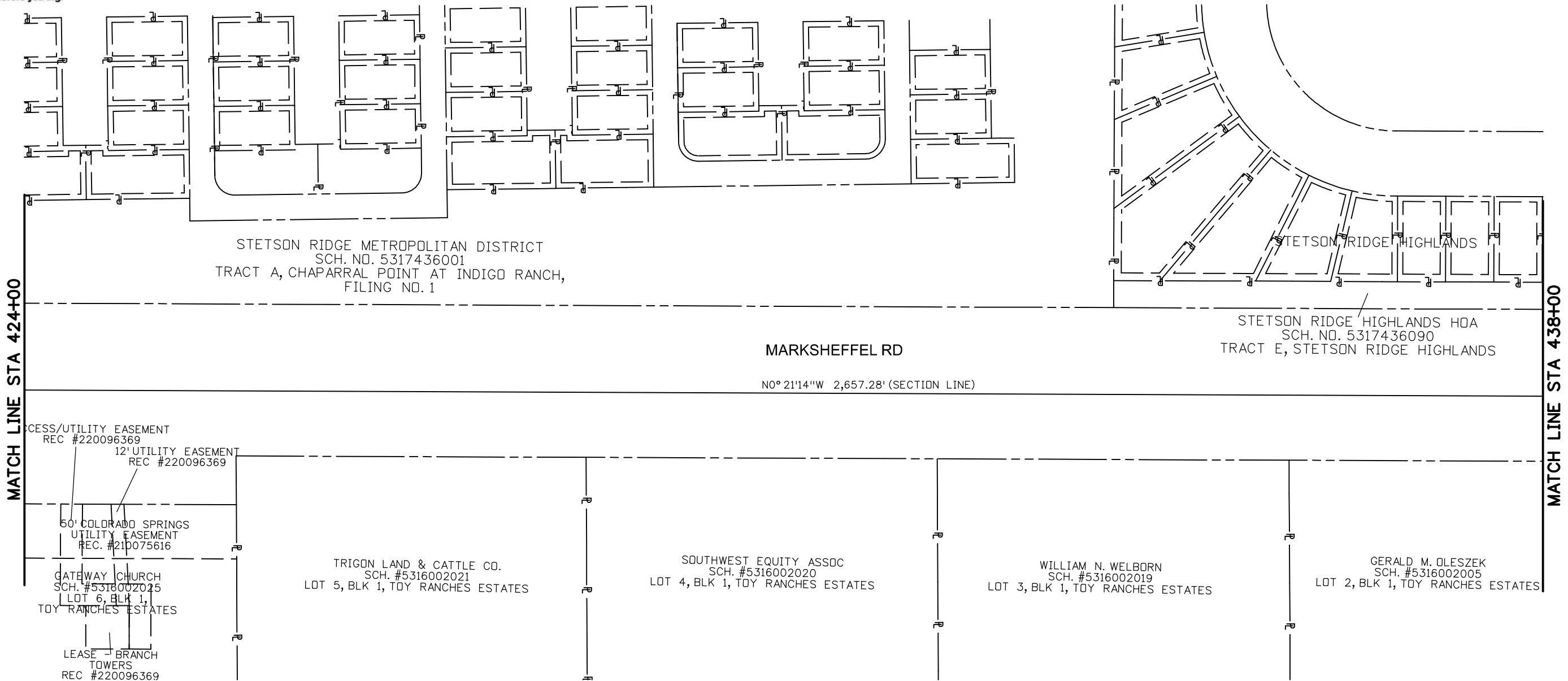
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Designer:	Structure Numbers
Detailer:	
Sheet Subset:    RDW	Subset Sheets: 7 of 11

Sheet Number **13**

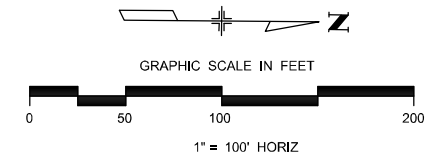


Know what's below.  
Call before you dig.

SE 1/4 Sec. 17  
T13S, R65W, 6th PM



SW 1/4 Sec. 16  
T13S, R65W, 6th PM



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Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_08.dgn
Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:    RDW	Subset Sheets: 8    of    11

All seals for this plan set of drawings are applied to the cover page

Sheet Number **14**



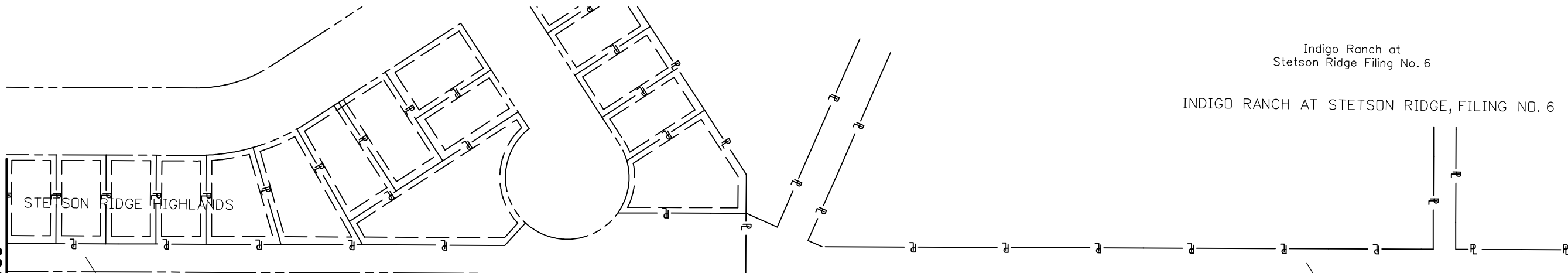
Know what's below.  
Call before you dig.

SE 1/4 Sec. 17  
T13S, R65W, 6th PM

NE 1/4 Sec. 17  
T13S, R65W, 6th PM

Indigo Ranch at  
Stetson Ridge Filing No. 6

INDIGO RANCH AT STETSON RIDGE, FILING NO. 6



STETSON RIDGE HIGHLANDS HOA  
SCH. NO. 5317436090  
TRACT E, STETSON RIDGE HIGHLANDS

MARKSHEFFEL RD

STETSON RIDGE METROPOLITAN DISTRICT  
SCH. NO. 5317116151  
TRACT D, INDIGO RANCH AT STETSON RIDGE, FILING NO. 6

N0° 21'14"W 2,657.28' (SECTION LINE)

N0° 21'20"W 2,657.15' (SECTION LINE)

MATCH LINE STA 438+00

MATCH LINE STA 452+00

GERALD M. DLESZEK  
SCH. #5316002005  
LOT 2, BLK 1, TOY RANCHES ESTATES

MVEA UTILITY EASEMENT  
REC. #216077420

MVEA UTILITY EASEMENT REC #216077420  
MOUNTAIN VALLEY METROPOLITAN DIST.  
SCH. #5316301009  
TRACT E, MOUNTAIN VALLEY PRESERVE FILING NO. 1  
50' EASEMENT - PE-67A - REC #210103944

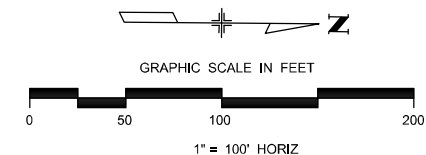
TARREN HEIGHTS

APPROX. SECTION LINE

MVEA UTILITY EASEMENT REC #216077420  
MOUNTAIN VALLEY METROPOLITAN DIST.  
SCH. #5316301009  
TRACT D, MOUNTAIN VALLEY PRESERVE FILING NO. 1  
50' EASEMENT - PE-69A - REC #210103940

SW 1/4 Sec. 16  
T13S, R65W, 6th PM

NW 1/4 Sec. 16  
T13S, R65W, 6th PM



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page

Print Date: 6/26/2023
File Name: P1-18300RDW_Plan_09.dgn
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Unit Information
Project No./Code PPRTA 10444

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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	Structure Numbers
Detailer:	
Sheet Subset: RDW	Subset Sheets: 9 of 11

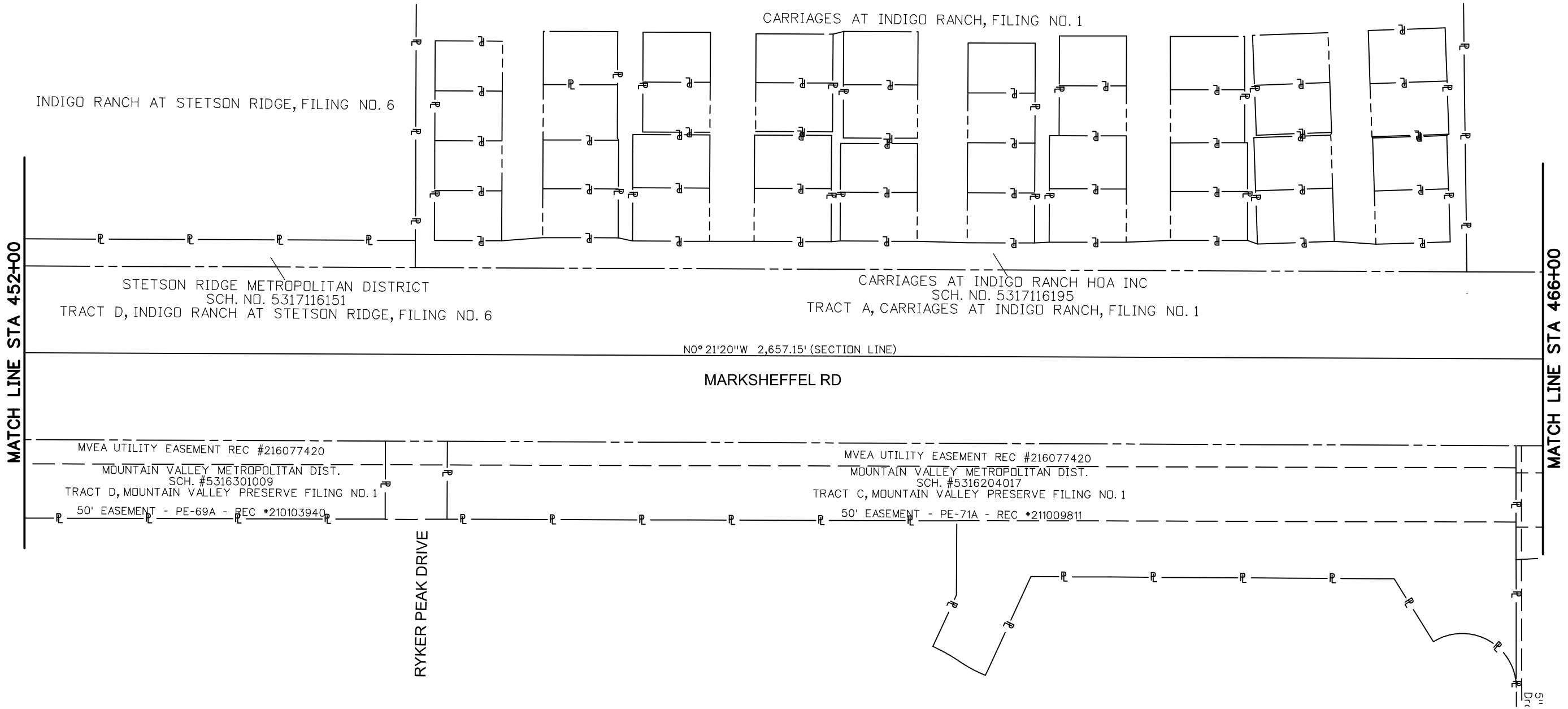
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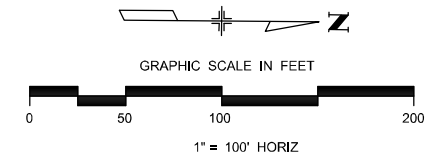


Know what's below.  
Call before you dig.

NE 1/4 Sec. 17  
T13S, R65W, 6th PM



NW 1/4 Sec. 16  
T13S, R65W, 6th PM



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Print Date: 6/26/2023
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Horiz. Scale: 1:100      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:    RDW	Subset Sheets: 10 of 11

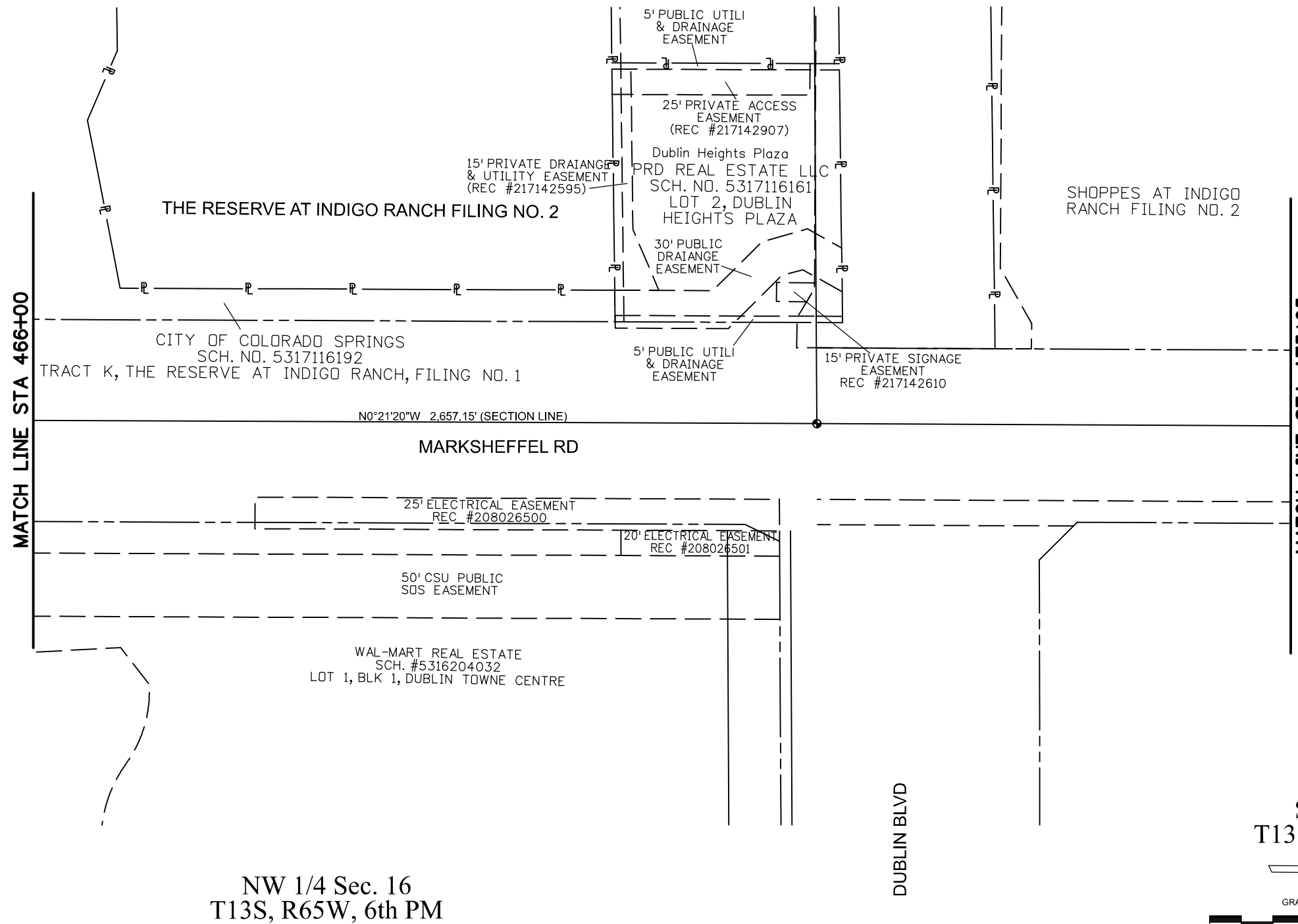
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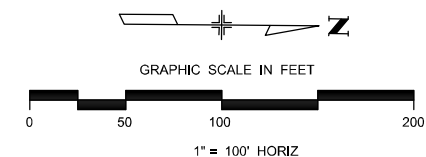
Know what's below.  
Call before you dig.

NE 1/4 Sec. 17  
T13S, R65W, 6th PM

SE 1/4 Sec. 8  
T13S, R65W, 6th PM



SW 1/4 Sec. 9  
T13S, R65W, 6th PM



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Unit Information      Unit Leader
Project No./Code    PPRTA    10444

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Date:	Comments	Init.



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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN	
Designer:	Structure Numbers
Detailer:	
Sheet Subset:    RDW	Subset Sheets: 11 of 11

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Sheet Number **17**



Know what's below.  
Call before you dig.

### PROPOSED R.O.W. COORDINATES

Point No.	Northing(ft)	Easting(ft)
201	90714.31	134654.69
202	90735.52	134615.35
203	90741.47	134479.06
205	90708.93	134853.16
207	89331.44	134880.26
208	88240.64	134901.73
210	86871.69	134888.83
211	87517.67	134902.28
212	87987.72	134906.70
213	88169.68	134903.12
215	87310.37	134894.29
216	90708.90	134872.37
217	90716.38	134876.05
219	90755.24	134938.10
221	91977.59	134828.19
223	90910.12	134876.45
226	92101.04	134947.75
227	92138.18	134954.82
522	90879.64	134652.98
526	90878.59	134935.00
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556	88241.30	134950.74

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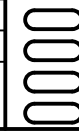
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224	91982.16	134832.61
301	90708.88	134871.02
302	90670.89	134855.91
303	89400.82	134883.41
305	90388.02	134861.48
306	90304.68	134865.62
307	89331.39	134897.83
308	89315.62	134885.08
309	88240.73	134906.23
310	88169.91	134920.31
311	88153.71	134907.94
312	87987.83	134911.21
313	87517.51	134906.78
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315	85963.29	134905.68
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317	87310.20	134898.79
319	91526.87	134841.57
320	91457.49	134840.43
321	90958.88	134850.25
322	86654.78	134891.78
323	86654.78	135283.73
326	86634.78	135304.17
327	86634.78	134892.05
328	87108.45	134888.93
329	87032.77	134988.17

### TABULATION OF PERMANENT EASEMENT MONUMENTS TO BE SET

Point No.	Northing(ft)	Easting(ft)
330	87101.44	134988.84
331	87096.14	134941.23
333	87135.69	134889.37
400	90708.88	134873.16
401	90633.88	134874.64
527	87513.84	135002.20
548	87601.02	135005.09
565	86857.57	134989.03
570	87009.16	134988.08
571	86873.05	134988.82
579	87306.54	134994.21
584	87603.25	134925.12

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<b>MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN RIGHT Of Way Monumentation</b>	
Designer:	Structure Numbers
Detailer:	
Sheet Subset: COORD TAB	Subset Sheets: 1 of 2

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### PROPOSED TEMPORARY EASEMENT POINTS

Point No.	Northing(ft)	Easting(ft)
220	90880.79	134930.91
500	88169.94	134923.12
501	90633.82	134898.19
502	89876.04	134915.26
503	89418.38	134908.56
505	89417.70	135185.34
506	89387.69	135185.93
509	90708.53	135013.20
510	90633.53	135014.68
511	90739.87	135012.59
512	90882.71	134434.72
513	90875.71	134434.90
514	90880.00	134284.75
515	90881.84	135009.79
516	90738.68	134327.93
517	90728.25	134426.43
518	90720.64	134600.80
519	90691.47	134654.92
520	92138.78	134997.69
521	92080.85	134986.66
523	90886.64	134652.91
524	92019.65	134927.39
525	91795.18	134896.23
528	92184.73	134876.80
529	88169.94	134923.12
530	90886.84	134919.68
531	87988.13	134926.70
532	87516.91	134922.26

### PROPOSED TEMPORARY EASEMENT POINTS

Point No.	Northing(ft)	Easting(ft)
533	92138.19	134954.82
534	92222.13	134996.53
535	92137.63	134914.70
536	92131.38	134825.13
537	92234.48	134924.97
538	92248.40	134910.61
542	90873.01	134284.92
543	90877.33	134136.27
544	90870.33	134136.44
546	89309.28	135183.96
547	89309.85	134950.70
549	88968.75	134922.34
550	88617.37	134929.26
551	88240.93	134921.72
552	88265.32	134971.25
553	88267.42	135133.92
554	88229.68	135134.42
557	88172.69	135135.17
558	88141.49	135135.58
559	88140.26	135018.14
560	87924.63	135007.70
561	87630.64	134930.01
562	87609.90	134929.90
563	87207.67	134990.99
564	87988.13	134926.70
566	86679.08	135300.74
567	86700.06	135018.57
568	86608.64	135301.95

### PROPOSED TEMPORARY EASEMENT POINTS

Point No.	Northing(ft)	Easting(ft)
569	86589.24	135047.95
572	87309.60	134914.27
573	87008.13	134908.08
574	89331.39	134900.27
576	91997.84	134847.80
577	90923.11	134868.95
578	93002.63	134848.22
580	86857.93	135015.40
581	85858.17	134972.62
582	85883.62	134927.46
583	85893.26	134922.14
585	86248.48	134967.31
586	88949.43	134957.79
587	88896.63	134988.84
588	88766.43	134991.40
589	88698.48	134962.73
590	92138.72	134993.47
591	92089.61	134994.16
592	91990.29	134897.97

### TABULATION OF INFORMATION ONLY POINTS

Point No.	Northing(ft)	Easting(ft)
200	90744.71	134654.37
218	90738.52	134911.39
222	90958.99	134848.24
225	90938.16	134860.26

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MARKSHEFFEL ROAD RIGHT-OF-WAY PLAN RIGHT Of Way Monumentation		Designer:	Structure Numbers
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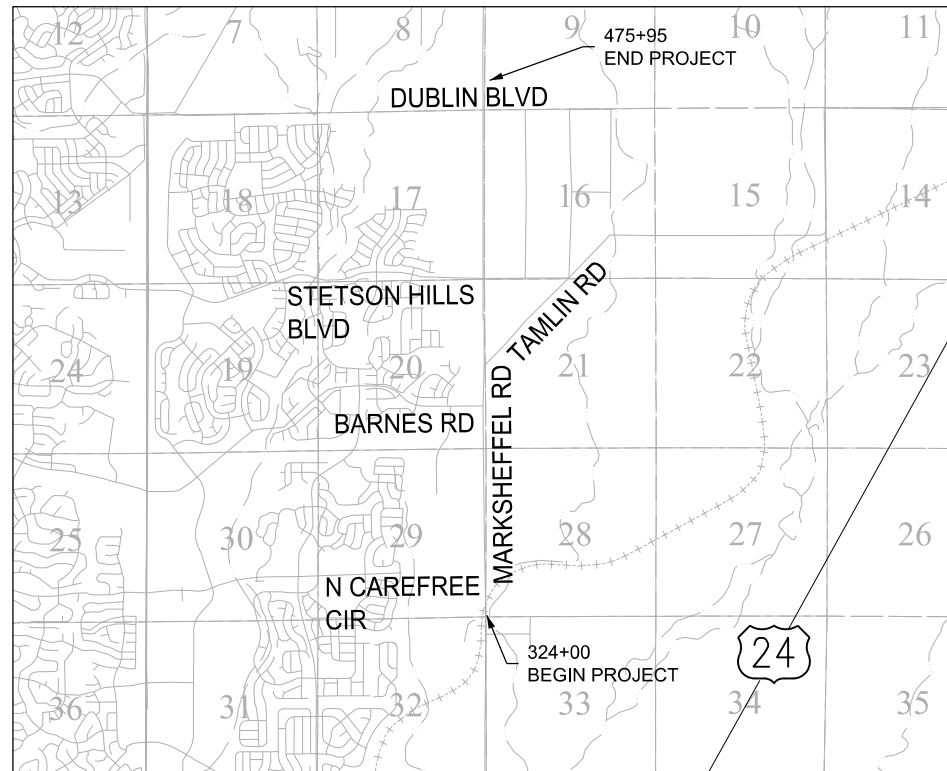
**EXISTING FEATURES**

- WALL
- RETAINING WALL
- W-QLB --- WATER LINE QUALITY LEVEL "B"
- W-QLD --- WATER LINE QUALITY LEVEL "D"
- QLC --- SANITARY LINE QUALITY LEVEL "C"
- QLD --- SANITARY LINE QUALITY LEVEL "D"
- QLC --- STORM LINE QUALITY LEVEL "C"
- QLD --- STORM LINE QUALITY LEVEL "D"
- G-QLB --- GAS / PETROLEUM LINE QUALITY LEVEL "B"
- G-QLD --- GAS / PETROLEUM LINE QUALITY LEVEL "D"
- FO-QLB --- FIBER OPTIC LINE QUALITY LEVEL "B"
- TV-QLB --- CABLE TELEVISION LINE QUALITY LEVEL "B"
- E-QLB --- ELECTRIC LINE QUALITY LEVEL "B"
- E-QLD --- ELECTRIC LINE QUALITY LEVEL "D"
- E --- OH --- E ELECTRIC LINE OVERHEAD
- T-QLB --- TELEPHONE LINE QUALITY LEVEL "B"
- T-QLD --- TELEPHONE LINE QUALITY LEVEL "D"
- TV-QLB --- TV LINE QUALITY LEVEL "B"
- EXISTING ROW LINE
- EXISTING CONTOUR LINE

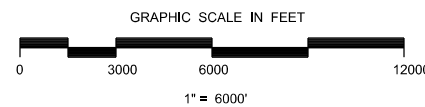
- |                    |                                   |
|--------------------|-----------------------------------|
| WATER MANHOLE      | UTILITY PULLBOX / UTILITY RISER   |
| WATER VALVE        | UTILITY JUNCTION BOX / CONTROLLER |
| WATER VENT         | TRAFFIC POLE - DOUBLE ARM         |
| FIRE HYDRANT       | TRAFFIC POLE                      |
| WATER SPIGOT       | ELECTRIC POLE                     |
| SANITARY MANHOLE   | POLE GUY                          |
| STORM INLET        | ELECTRIC MANHOLE                  |
| STORM MANHOLE      | ELECTRIC TRANSMISSION POLE        |
| FLARED END SECTION | LIGHT POLE                        |
| UTILITY VAULT      | TRAFFIC CONTROL POLE              |
| UTILITY POTHOLE    | SIGN / UTILITY MARKER POST        |

**NEW FEATURES**

- PROPOSED ROADWAY ALIGNMENT
- PROPOSED ROW LINE
- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY EASEMENT



**VICINITY MAP**



**UTILITY OWNER CONTACT LIST**

MARKSHEFFEL ROAD UTILITY OWNER CALL LIST			
Utility Owner	Contact Name	Email	Phone
Cherokee Metro Dist	Kevin Brown	<a href="mailto:kbrown@cherokeemetro.org">kbrown@cherokeemetro.org</a>	Kevin o: 719-597-5080 ext 119
Cherokee Metro Dist	Jeff Munger	<a href="mailto:jmunger@cherokeemetro.org">jmunger@cherokeemetro.org</a>	Jeff o: 719-597-5080 ext 115
Colorado Interstate Gas	Julie Barnum	<a href="mailto:julie_barnum@kindermorgan.com">julie_barnum@kindermorgan.com</a>	719-289-8283
Colorado Springs Utilities ( Water)	Rocky Wiley		719-668-4675
Colorado Springs Utilities (Gas) Low Pressure	Ryan Pogue		719-668-7840
Colorado Springs Utilities (Gas) High Pressure	Scott Jensen	<a href="mailto:siensen@csu.org">siensen@csu.org</a>	605-430-4798
Colorado Springs Utilities ( Electric)	Rudy Duran		719-668-8762
Comcast	Leo Coats	<a href="mailto:Leo_Coats@comcast.com">Leo_Coats@comcast.com</a>	Leo :719-675-4657
El Paso County Public Works	Samantha Sherman		719-520-6460
Falcon Broadband	Chris Otrin	<a href="mailto:cotrin@stratusiq.com">cotrin@stratusiq.com</a>	719-886-7913
Lumen (Century Link/Level 3/Qwest)	Robert McLeod	<a href="mailto:Rmcleod@terratechllc.net">Rmcleod@terratechllc.net</a>	303-949-2187
Magellan / Kinder Morgan	Clara Lucero	<a href="mailto:Clara.Lucero@magellanlp.com">Clara.Lucero@magellanlp.com</a>	719-318-3179
MCI / Verizon	Jared Williams	<a href="mailto:jared_williams@one.verizon.com">jared_williams@one.verizon.com</a>	719-821-5430
Mountain View Electric	Andrew Haggard	<a href="mailto:andrew.h@mvea.coop">andrew.h@mvea.coop</a>	719-641-1107
Zayo	James Black (Lead)	<a href="mailto:jamesr.black@zayo.com">jamesr.black@zayo.com</a>	719-216-8508

**UTILITY NOTES**

- EXISTING UTILITY INFORMATION WAS COLLECTED IN ACCORDANCE WITH ASCE 38-22 GUIDELINES.
- THE QUALITY LEVELS OBTAINED, AS DEFINED BY ASCE 38-22, ARE AS FOLLOWS:  
  
 QUALITY LEVEL A - PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT.  
  
 QUALITY LEVEL B - INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES.  
  
 QUALITY LEVEL C - INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D.  
  
 QUALITY LEVEL D - INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.
- SUBSURFACE UTILITIES WERE TRACED USING INDUCTIVE OR CONDUCTIVE METHODS. GROUND PENETRATING RADAR OR OTHER GEOPHYSICAL INVESTIGATION TECHNIQUES WERE NOT UTILIZED TO SEARCH FOR NONCONDUCTIVE UTILITIES OR UTILITIES NOT IDENTIFIED BY SURFACE OR MAP EVIDENCE.
- ALL QUALITY LEVELS OF THE EXISTING UTILITIES ARE SHOWN BY THEIR LINE TYPE.
- STORM AND SANITARY LINES SHOWN MEET ASCE 38-22 QUALITY LEVEL C. MANHOLE LIDS WERE OPENED AND INVERT ELEVATIONS WERE MEASURED USING A DIP ROD.
- EXISTING SANITARY SERVICE LINES WERE NOT INVESTIGATED OR SHOWN ON DRAWING.
- ABANDONED FACILITIES WERE NOT DESIGNATED AS PART OF THE SCOPE OF WORK. ABANDONED FACILITIES ARE SHOWN AS A QL-D LINE ON THIS PLAN SET IN CASES WHERE THEY WERE DEPICTED ON UTILITY PROVIDER MAPS.
- UTILITY MAPPING FIELD SERVICES WERE COMPLETED IN JUNE OF 2022, UTILITIES MAY HAVE BEEN ADJUSTED OR ADDED AFTER THIS DATE.

**CERTIFICATION**

I, TROY D. SLOCUM, HEREBY CERTIFY THAT THE EXISTING UTILITY INFORMATION SHOWN HEREIN WAS COLLECTED AND DEPICTED PURSUANT TO THE REQUIREMENTS OF COLORADO REVISED STATUTES 9-1.5-103 AND ASCE 38-22, "THE STANDARD GUIDELINE FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."

**TABLE OF CONTENTS**

- (1) Title Sheet
- (2) Pothole Index
- (23) Plan Sheets
- (26) Total Sheets

PREPARED BY:  
TROY D. SLOCUM, COLORADO PE 35270  
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MARKSHEFFEL ROAD SUBSURFACE UTILITY PLAN TITLE SHEET			
Designer:	Structure Numbers		
Detailer:			
Sheet Subset: SUE	Subset Sheets: 1 of 26		

Sheet Number	G 01
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**PRELIMINARY - NOT FOR CONSTRUCTION**

POTHOLE INDEX



Know what's below.  
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POTHOLE NUMBER	SURVEY NUMBER	NORTHING	EASTING	GROUND ELEVATION	TOP OF UTILITY ELEVATION	BOTTOM OF UTILITY ELEVATION	DEPTH OF COVER	UTILITY FEATURE	UTILITY SIZE	UTILITY MATERIAL	UTILITY OWNER	PAVEMENT THICKNESS	APPROXIMATE LOCATION	POTHOLE NOTES
PH-1	51541	85903.78	134912.97	6573.71	6567.62	6565.96	6.08'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & CAREFREE	
PH-1A	51618	85925.94	134911.28	6574.64	6568.56	6566.89	6.08'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & CAREFREE	POTHOLED NORTH OF PH-1 IN ATTEMPT TO FIND 45° BEND FOR TIE IN
PH-1B	51619	85941.34	134911.28	6575.13	6568.63	6566.97	6.50'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & CAREFREE	POTHOLED NORTH OF PH-1 IN ATTEMPT TO FIND 45° BEND FOR TIE IN
PH-1F	51620	85974.72	134909.96	6575.78	6567.53	6565.86	8.25'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & CAREFREE	BELIEVED TO HAVE FOUND 45° BEND FOR TIE IN
PH-2	87029	87137.12	134866.93	6568.13	6561.97	6560.30	6.17'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	
PH-3	87033	87141.12	134897.08	6570.62	6567.28	6565.78	3.33'	STORM	18"	CAST IRON	CITY OF COLORADO SPRINGS	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	
PH-4	51506	87034.39	134995.11	6565.71	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	NO POTHOLE COMPLETED - PER FIELD CONVERSATIONS ON 02/22/2023
PH-5	51507	87096.85	134994.84	6566.49	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	NO POTHOLE COMPLETED - PER FIELD CONVERSATIONS ON 02/22/2023
PH-6	87031	87281.85	134866.73	6571.37	6565.79	6564.12	5.58'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	
PH-7	51504	87282.69	134883.06	6572.90	6569.82	6569.98	3.08'	FIBER OPTICS	2" X 2	HDPE	ZAYO	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	POTHOLE ON FIBER OPTICS PULLBOX - MEASUREMENTS ARE TO BOTTOM OF PULLBOX
PH-8	51508	87269.39	134903.10	6572.29	6559.79	6558.96	12.49'	SANITARY	10"	PVC	COLORADO SPRINGS UTILITIES	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	NO POTHOLE COMPLETED - ELEVATIONS ARE FROM INVERT MEASUREMENTS
PH-9	51554	87294.91	134981.85	6575.70	6568.12	6567.62	7.58'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	
PH-10	51551	88051.25	134762.59	6605.20	6598.53	6597.70	6.67'	WATER	10"	PVC	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCONE	
PH-11	87023	88052.20	134745.53	6604.32	6602.74	6602.65	1.58'	FIBER OPTICS	1" X 2	HDPE	FALCON BROADBAND	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCONE	
PH-12	87022	88062.62	134748.80	6605.22	6601.55	6600.22	3.67'	ELECTRIC	16"	CONCRETE DUCT BANK	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCONE	
PH-13	87025	88059.84	134840.84	6606.71	6606.62	6606.46	0.08'	FIBER OPTICS	2" X 2	HDPE	ZAYO	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCONE	UTILITY IS NEARLY AT GROUND SURFACE ELEVATION
PH-14	87026	88061.59	134857.03	6610.13	6605.13	6603.46	5.00'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCONE	
PH-15	87027	88230.95	134910.43	6616.46	6611.87	6611.54	4.58'	ELECTRIC	4"	HDPE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCONE	
PH-16	87021	89325.08	134888.99	6622.64	6620.48	6620.14	2.17'	FIBER OPTICS	4"	POLYETHYLENE	CENTURY LINK	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-17	87020	89334.34	134883.39	6621.93	6617.43	6617.26	4.50'	FIBER OPTICS	2" X 2	HDPE	COMCAST	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-18	87019	89338.70	134892.48	6623.21	6620.04	6619.71	3.17'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-19	87017	89341.67	134889.92	6622.88	6619.21	6618.96	3.67'	ELECTRIC	3"	PVC	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-20	87016	89393.22	134886.45	6623.35	6610.76	6610.60	12.58'	FIBER OPTICS	2" X 2	POLYETHYLENE	FALCON BROADBAND	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-21	87005	90649.80	134853.24	6665.02	6661.86	6661.52	3.17'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-22	87006	90694.66	134857.60	6668.46	6665.05	6664.55	3.42'	GAS	6"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-23	87007	90746.18	134863.54	6667.11	6663.94	6663.61	3.17'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-24	87008	90794.64	134873.65	6667.89	6664.89	6664.55	3.00'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-25	87010	90850.68	134861.95	6668.29	6665.12	6664.62	3.17'	GAS	6"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-26	87011	90891.87	134858.87	6669.12	6665.62	6665.28	3.50'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-27	51565	90764.98	134622.94	6663.81	6658.23	6657.39	5.58'	WATER	10"	PVC	CHEROKEE METRO DISTRICT	5"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-27A	51613	90757.67	134231.45	6659.64	6652.98	6652.14	6.67'	WATER	10"	PVC	CHEROKEE METRO DISTRICT	7"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-28	51634	90775.13	134644.17	6664.44	6661.10	6660.94	3.33'	FIBER OPTICS	2"	POLYETHYLENE	ZAYO	5"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-29	51580	90774.96	134647.31	6664.46	6661.63	6661.53	2.83'	FIBER OPTICS	1-1/4"	POLYETHYLENE	ZAYO	5"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-30	51581	90774.98	134653.82	6664.60	6659.60	6659.10	5.00'	ELECTRIC	6"	PVC	MOUNTAIN VIEW ELECTRIC	5"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-31	51582	90775.07	134655.50	6664.62	6660.29	6660.12	4.33'	TELE	2"	PVC	ZAYO	5"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-32	51535	90776.79	134656.14	6664.63	N/A	N/A	N/A	TELE	N/A	N/A	QWEST	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	NO POTHOLE COMPLETED - NO LOCATES INDICATING BURIED UTILITY
PH-33	51583	90776.63	134664.02	6664.84	N/A	N/A	N/A	FIBER OPTICS	N/A	N/A	COMCAST	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	NO POTHOLE COMPLETED - NO LOCATES INDICATING BURIED UTILITY
PH-34	51537	90777.13	134674.01	6664.98	N/A	N/A	N/A	ELECTRIC	N/A	N/A	MOUNTAIN VIEW ELECTRIC	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	NO POTHOLE COMPLETED - NO LOCATES INDICATING BURIED UTILITY
PH-35	51635	90765.88	134690.66	6665.11	6658.53	6657.70	6.58'	WATER	10" X 6"	STEEL TMI FITTING	COLORADO SPRINGS UTILITIES	7.5"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-36	51614	90777.11	134698.85	6665.44	6661.85	6661.69	3.58'	FIBER OPTICS	2" X 2	HDPE/PVC	FALCON BROADBAND	7"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-37	51615	90776.39	134701.98	6665.42	6660.92	6660.42	4.50'	ELECTRIC	6" X 4	HDPE	COLORADO SPRINGS UTILITIES	7"	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-38	87012	91084.07	134850.73	6672.55	6666.64	6665.64	5.92'	WATER	12"	PVC	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-39	87003	92011.27	134837.98	6711.73	N/A	N/A	N/A	WATER	N/A	POLYETHYLENE	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	UNABLE TO FIND WATER LINE - POTHOLED AREA 5' NORTH AND SOUTH OF PH-39 STAKE TO 12'-13' DEEP
PH-39A	51576	91991.63	134849.64	6711.05	6706.05	6704.38	5.00'	WATER	20"	POLYETHYLENE	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-39B	51577	91975.66	134832.91	6710.15	6705.15	6703.49	5.00'	WATER	20"	POLYETHYLENE	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-39C	51578	91956.21	134813.99	6708.77	6703.35	6701.68	5.42'	WATER	20"	POLYETHYLENE	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-40	87002	92089.07	134909.16	6717.09	6711.09	6710.59	6.00'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-41	87004	92099.28	134921.06	6717.94	N/A	N/A	N/A	WATER	N/A	POLYETHYLENE	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	UNABLE TO FIND WATER LINE - POTHOLED AREA 5' NORTH AND SOUTH OF PH-41 STAKE TO 12'DEEP
PH-42	51610	90782.93	134778.05	6666.74	N/A	N/A	N/A	FIBER OPTICS	N/A	N/A	ZAYO	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS. ZAYO ESTIMATES 7'-8' DEPTH
PH-43	51611	90786.61	134777.28	6666.95	N/A	N/A	N/A	FIBER OPTICS	N/A	N/A	ZAYO	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS. ZAYO ESTIMATES 7'-8' DEPTH
PH-44	51612	90773.91	134823.66	6671.65	6664.65	6662.99	7.00'	WATER	20"	DUCTILE IRON	CHEROKEE METRO DISTRICT	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-45	40018	87123.84	134886.49	6567.94	N/A	N/A	N/A	FIBER OPTICS	N/A	N/A	ZAYO	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	NO UTILITY FOUND HERE - SEE PH-45A
PH-45A	51559	87126.57	134886.62	6568.34	6563.75	6563.59	4.58'	FIBER OPTICS	2" X 2	HDPE	ZAYO	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	APPROX. 300' SOUTH OF PH-45 STAKE (NOT FOUND AT 45, 10' DEEP SLOT IN GROUNDWATER) MOVED PER WADE CANNON
PH-46	51627	90829.77	134878.00	6667.69	N/A	N/A	N/A	WATER	N/A	N/A	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS.
PH-47	51616	87232.55	134745.67	6570.86	6562.95	6562.61	7.92'	ELECTRIC	4" X 2	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	
PH-48	51617	87237.82	134740.40	6571.32	6567.40	6567.24	3.92'	FIBER OPTICS	2" X 2	POLYETHYLENE	FALCON BROADBAND	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCONE	
PH-49	51621	87867.38	134995.03	6612.22	6607.80	6607.30	4.42'	GAS	6"	STEEL	MAGELLAN PETROLEUM	8"	INTERSECTION OF MARKSHEFFEL & ZIRCONE	
PH-50	51624	89317.45	134966.62	6629.56	6624.81	6624.31	4.75'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-51	51609	89325.84	135047.95	6636.42	6631.42	6631.08	5.00'	FIBER OPTICS	4"	POLYETHYLENE	CENTURY LINK	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-52	51623	89334.67	135042.31	6636.59	N/A	N/A	N/A	FIBER OPTICS	N/A	N/A	COMCAST	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	UNABLE TO FIND FIBER LINE - POTHOLED 4-5' W AND 13' DEEP
PH-53	51608	89340.85	135052.64	6637.18	6634.10	6633.76	3.08'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-54	51607	89342.09	135052.58	6637.23	6633.56	6633.23	3.67'	ELECTRIC	4"	PVC	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-55	51622	89369.95	135048.28	6636.52	6627.68	6626.68	8.83'	WATER	12"	PVC	COLORADO SPRINGS UTILITIES	5"	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-56	51606	89392.12	135050.42	6637.86	6634.86	6634.70	3.00'	FIBER OPTICS	2" X 2	POLYETHYLENE	FALCON BROADBAND	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-57	51629	90545.98	134853.02	6652.00	6648.92	6648.58	3.08'	GAS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-57A	51630	90545.13	134847.00	6652.33	6649.08	6648.74	3.25'	FIBER OPTICS	4"	POLYETHYLENE	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-58	51625	90633.24	134912.31	6667.11	N/A	N/A	N/A	WATER	N/A	N/A	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS.
PH-59	51626	90704.18												

POTHOLE INDEX



Know what's below.  
Call before you dig.

POTHOLE NUMBER	SURVEY NUMBER	NORTHING	EASTING	GROUND ELEVATION	TOP OF UTILITY ELEVATION	BOTTOM OF UTILITY ELEVATION	DEPTH OF COVER	UTILITY FEATURE	UTILITY SIZE	UTILITY MATERIAL	UTILITY OWNER	PAVEMENT THICKNESS	APPROXIMATE LOCATION	POTHOLE NOTES
PH-64	51639	87024.63	134986.14	6566.01	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	NO POT HOLE COMPLETED - UNABLE TO ACCESS DUE TO STANDING WATER
PH-65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	NO POT HOLE COMPLETED - UNABLE TO ACCESS DUE TO STANDING WATER
PH-65A	51669.00'	87147.50'	134976.27'	6566.84'	6560.09	6559.59	6.75'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	
PH-65B	51670.00'	87166.65'	134974.16'	6566.99'	6561.99	6561.49	5.00'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	
PH-66	40205	87440.17	134986.50	6577.59	6573.26	6572.76	4.33'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	
PH-67	40203	87500.53	134989.06	6578.97	6574.64	6574.14	4.33'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	
PH-68	40201	87537.84	134989.80	6584.70	6580.20	6579.70	4.50'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	
PH-69	51656	88018.35	134991.81	6619.42	6615.26	6614.76	4.16'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN CAREFREE & ZIRCON	
PH-70	51658	88178.97	134988.62	6623.45	6618.04	6617.54	5.41'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCON	
PH-71	51660	88228.94	134988.20	6623.38	6618.88	6618.38	4.50'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & ZIRCON	
PH-72	51664	88795.66	134975.62	6613.97	6609.72	6609.22	4.25'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	EAST OF MARKSHEFFEL BETWEEN ZIRCON & GRAPHITE	
PH-73	51661	89339.14	134965.47	6630.22	6624.89	6624.39	5.33'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-74	51662	89379.97	134965.09	6630.29	6624.96	6624.46	5.33'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-74A	51663	89388.64	134939.65	6628.09	6619.84	6618.84	8.25'	WATER	12"	PVC	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-74B	40208	89370.08	134961.86	6629.75	6620.17	6618.17	9.58'	WATER	24"	Steel Casing	COLORADO SPRINGS UTILITIES	4.5"	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-74C	40207	89369.66	135156.84	6644.19	6638.19	6637.19	6.00'	WATER	12"	PVC	COLORADO SPRINGS UTILITIES	4.5"	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-74D	51675	89408.21	134939.20	6625.97	6616.89	6615.89	9.08'	WATER	12"	PVC	COLORADO SPRINGS UTILITIES	5"	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-74E	51674	89369.76	135019.86	6634.42	6628.42	6627.42	6.00'	WATER	12"	PVC	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-75	51649	90758.40	134938.36	6667.38	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF THE INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS.
PH-76	51650	90816.00	134938.83	6668.18	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF THE INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS.
PH-77	51665	90879.59	134937.56	6668.66	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	EAST OF THE INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS.
PH-78	51668	92089.08	134909.02	6716.91	N/A	N/A	N/A	GAS	N/A	N/A	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	NO POT HOLE COMPLETED - DUE TO PROXIMITY OF PH-79
PH-79	51667	92122.89	134924.42	6716.18	6714.02	6713.52	2.16'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-80	51666	92146.22	134946.23	6717.97	6714.47	6713.97	3.50'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-81	51671	92201.46	134998.47	6715.31	6711.98	6711.48	3.33'	GAS	6"	STEEL	MAGELLAN PETROLEUM	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	
PH-82	51682	87800.41	134852.92	6600.98	6597.65	6597.55	3.33'	FIBER OPTICS	1.25" X 2	POLYETHYLENE	ZAYO	N/A	SOUTH OF THE INTERSECTION OF MARKSHEFFEL & ZIRCON	
PH-83	51684	89675.53	134826.34	6629.10	6625.52	6625.42	3.58'	FIBER OPTICS	1.25"	POLYETHYLENE	ZAYO	N/A	INTERSECTION OF MARKSHEFFEL & GRAPHITE	
PH-84	51685	90603.09	134794.67	6658.39	6655.81	6655.71	2.58'	FIBER OPTICS	1.25"	POLYETHYLENE	ZAYO	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	
PH-85	51680	90743.55	134297.32	6659.66	6655.16	6654.95	4.50'	FIBER OPTICS	2.5"	POLYETHYLENE	CENTURY LINK	N/A	WEST OF THE INTERSECTION OF MARKSHEFFEL & BARNES	
PH-86	51678	90856.23	134910.92	6667.43	N/A	N/A	N/A	WATER	N/A	N/A	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & BARNES	UNABLE TO DETERMINE UTILITY LOCATION DUE TO UNDERGROUND ROCKS.
PH-87	51687	92049.90	134824.37	6705.44	6701.27	6700.94	4.17'	ELECTRIC	4"	PVC	COLORADO SPRINGS UTILITIES	N/A	INTERSECTION OF MARKSHEFFEL & TAMLIN	

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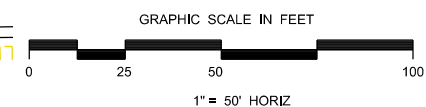
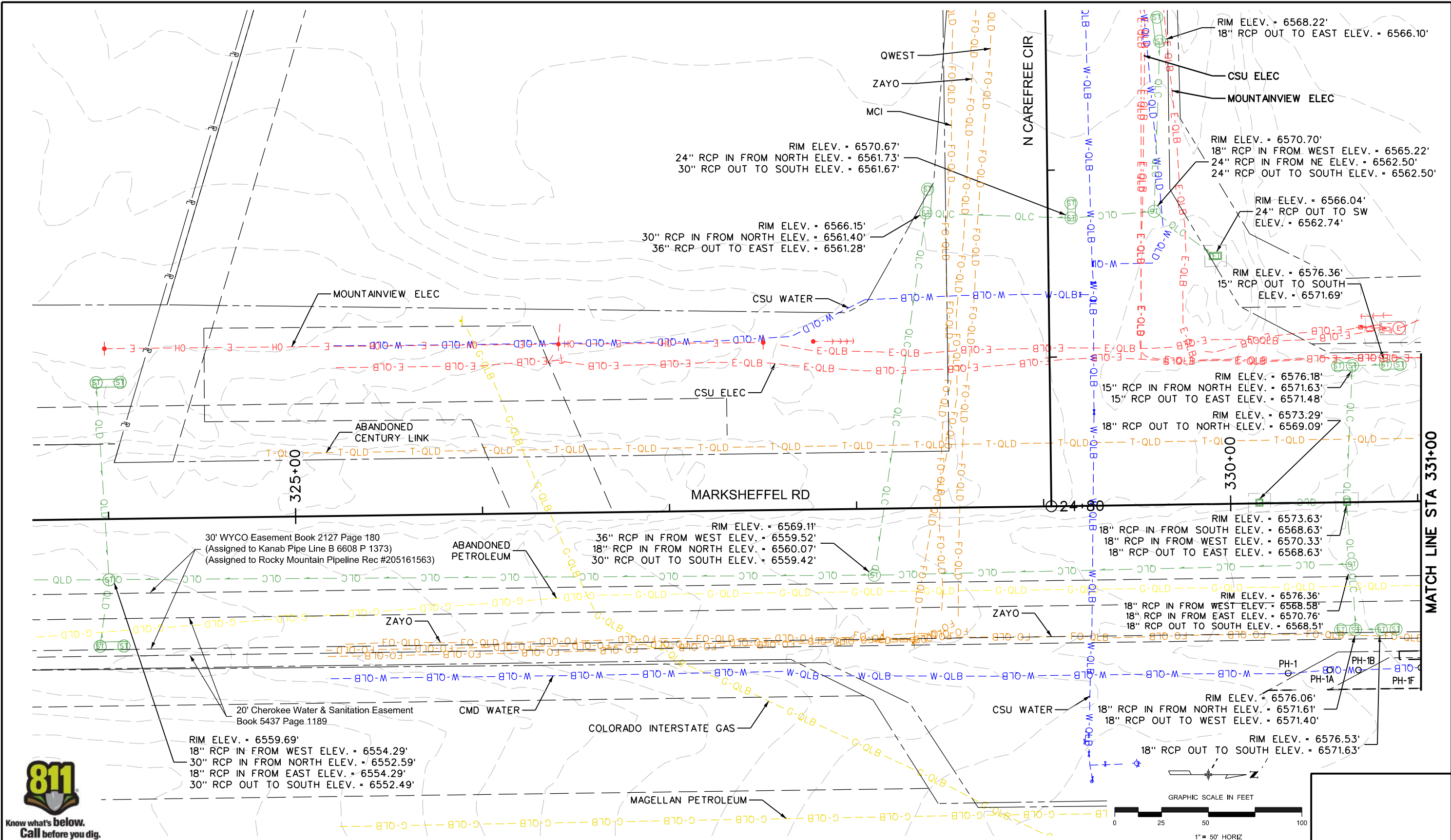
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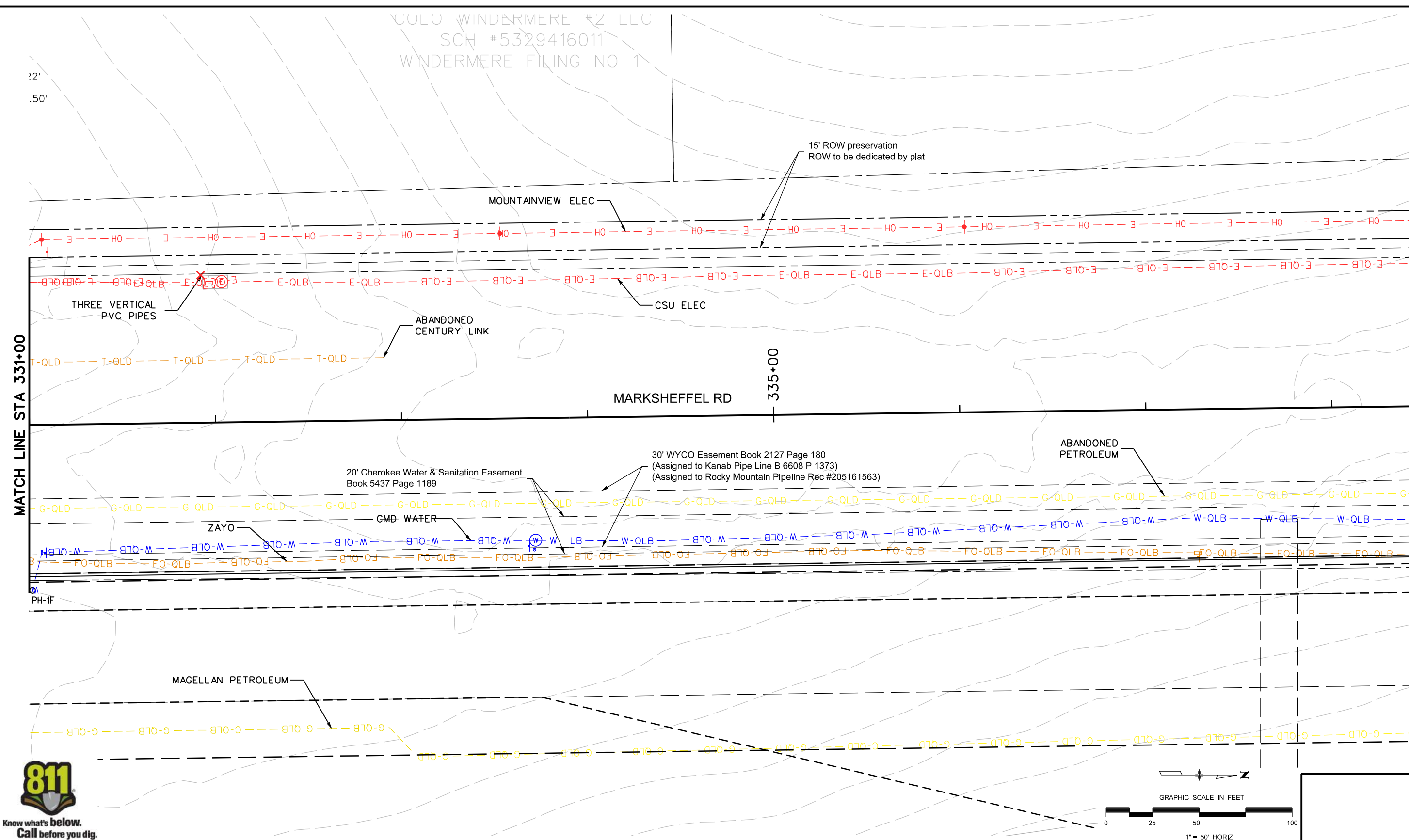
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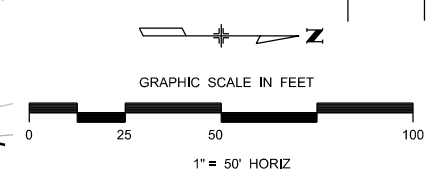
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**MARKSHEFFEL ROAD  
 SUBSURFACE UTILITY PLAN**

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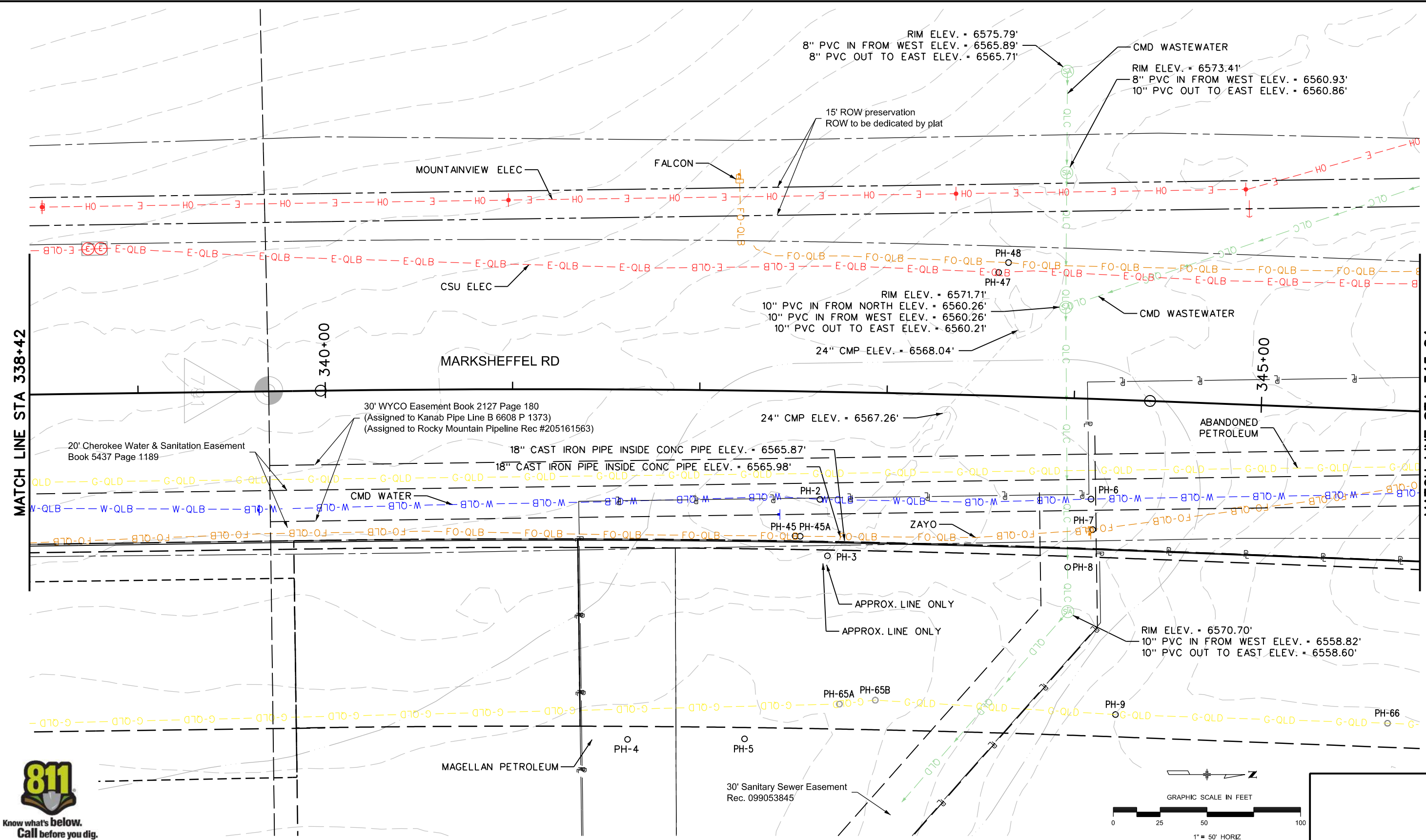
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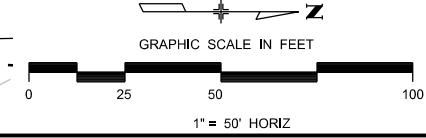
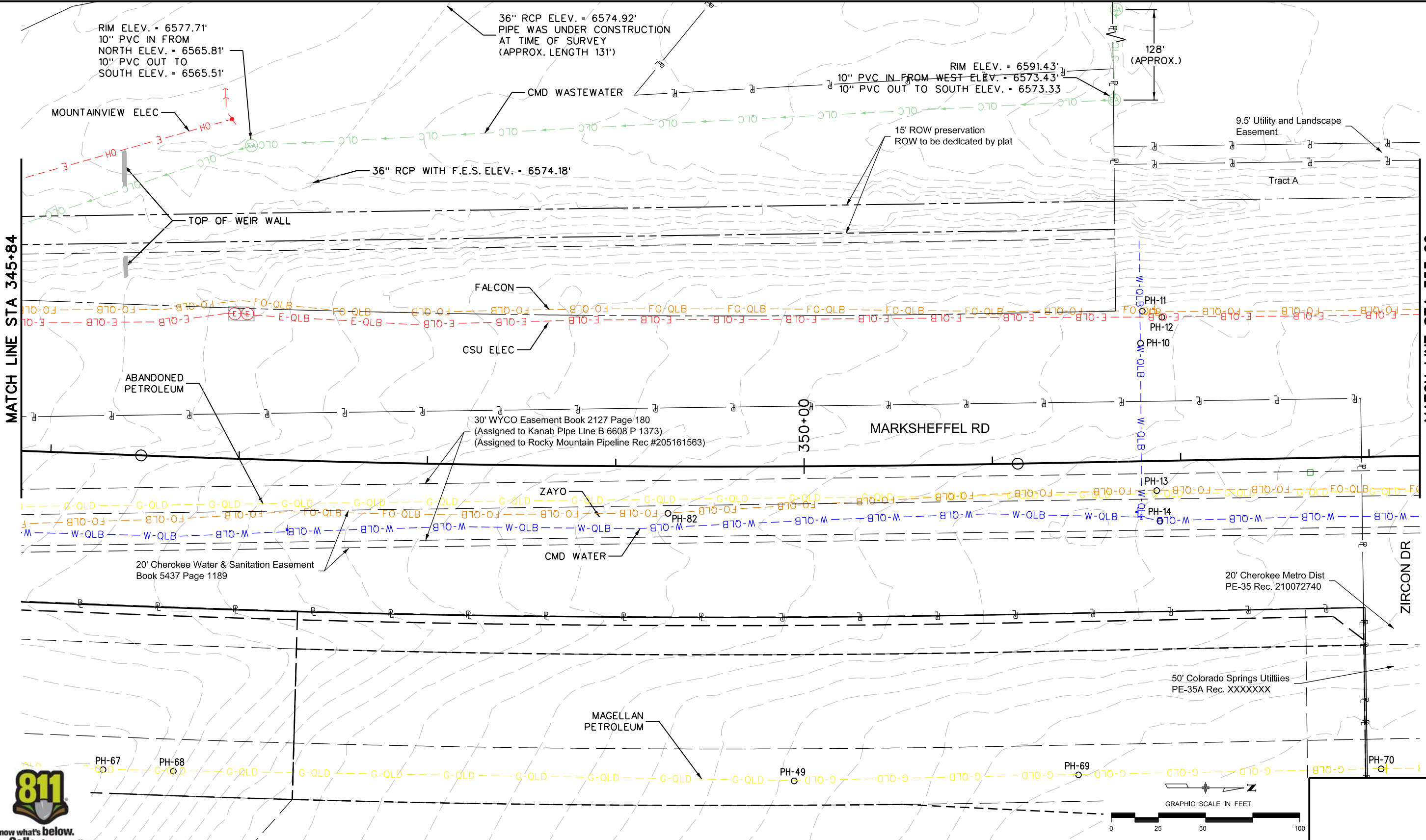
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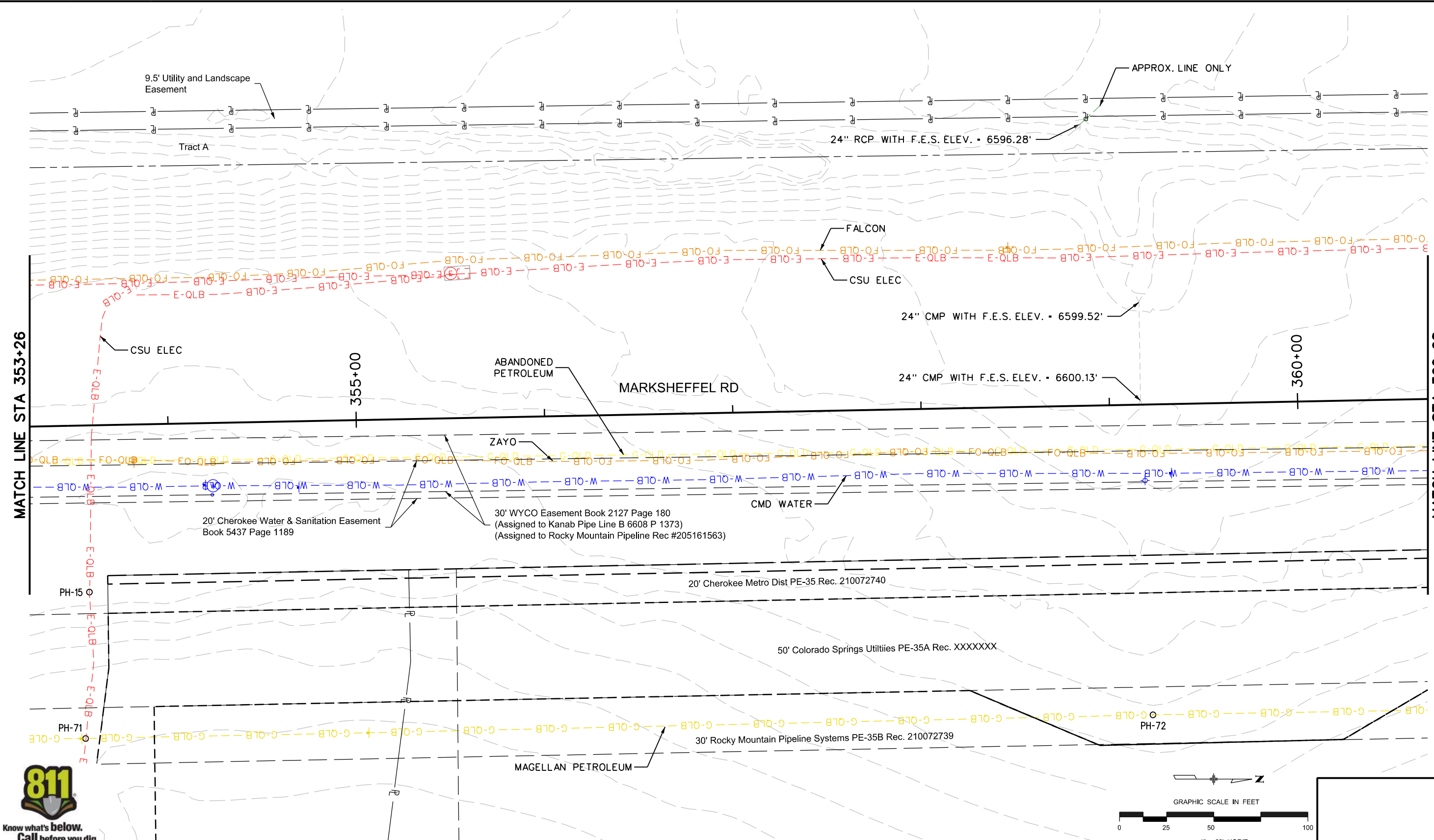
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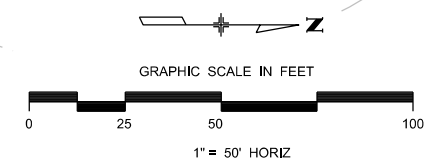
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**MARKSHEFFEL ROAD  
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 Detailer:  
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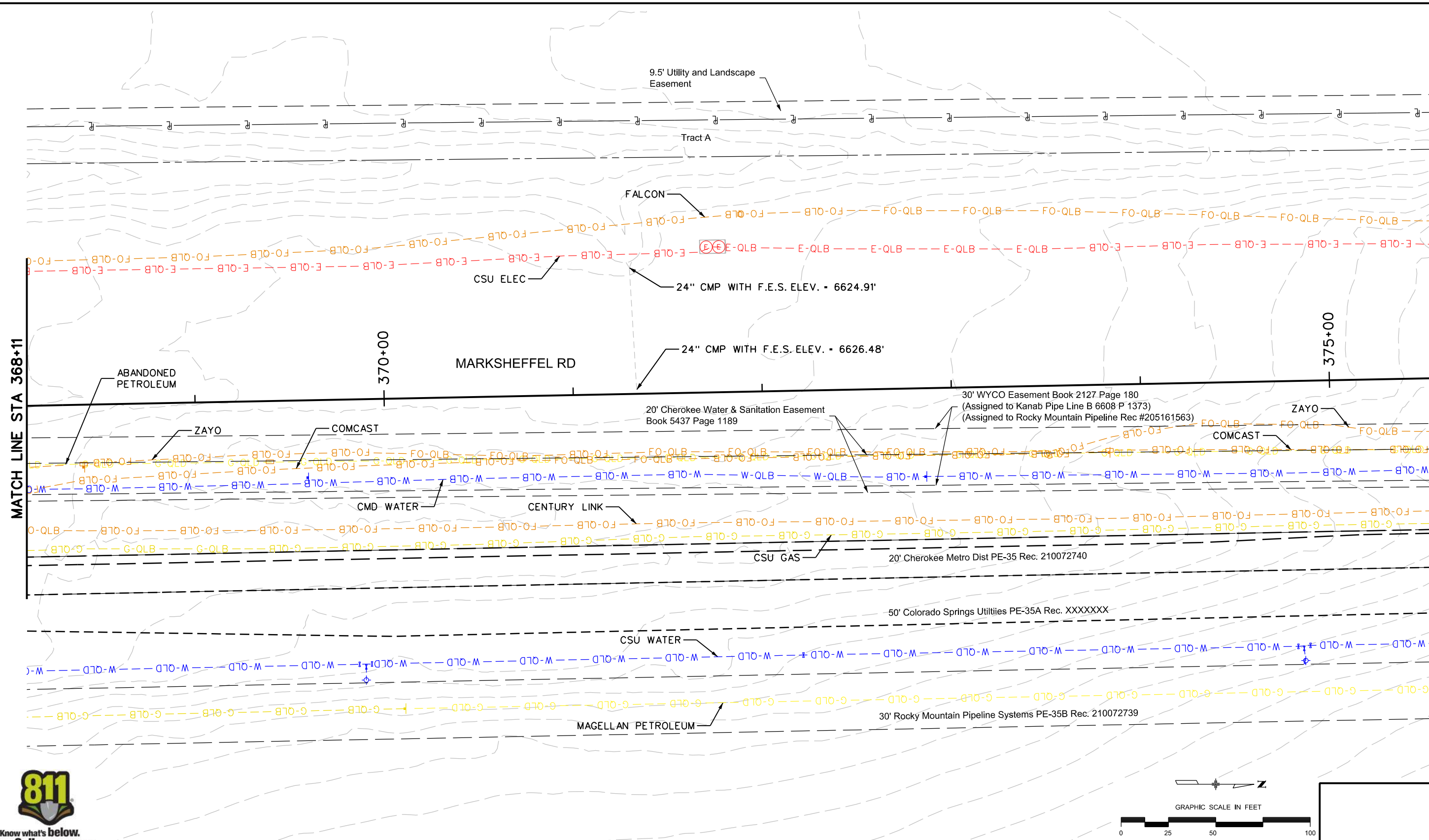
Sheet Number Plan 05



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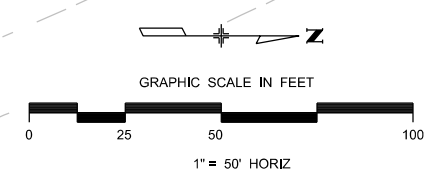


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MATCH LINE STA 368+11

MATCH LINE STA 375+53



Print Date: 11/3/2023
File Name: SUE PLAN SHEET STA 368+11 to 375+53
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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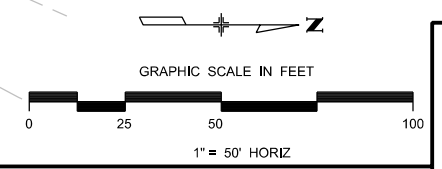
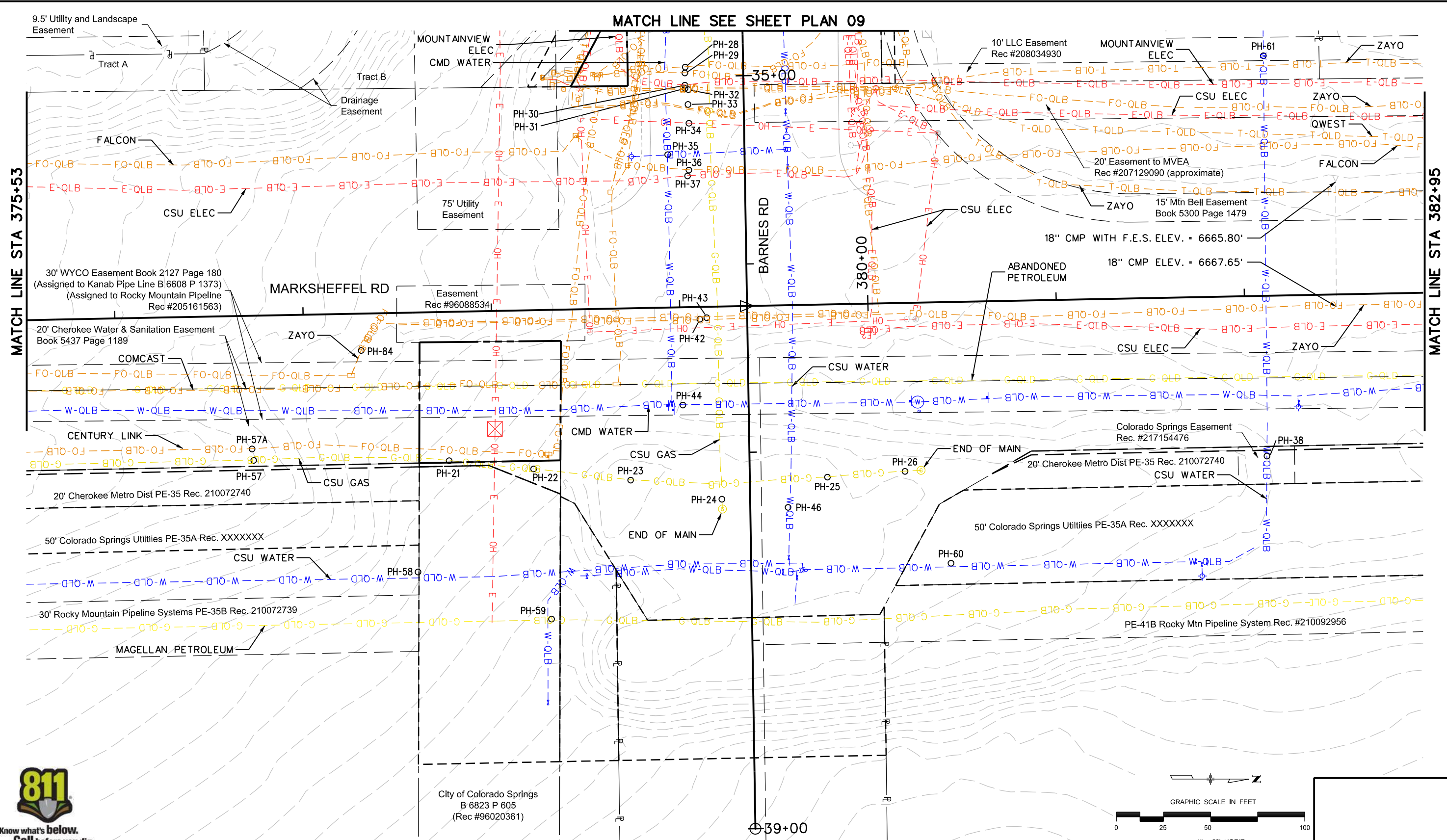
No Revisions:
Revised:
Void:

<b>MARKSHEFFEL ROAD SUBSURFACE UTILITY PLAN</b>		
Designer:	Structure Numbers	
Detailer:		
Sheet Subset: SUE	Subset Sheets: 10 of 26	

Sheet Number **Plan 07**

**PRELIMINARY - NOT FOR CONSTRUCTION**

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Print Date: 11/3/2023  
 File Name: SUE PLAN SHEET STA 375+53 to 382+95  
 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:  
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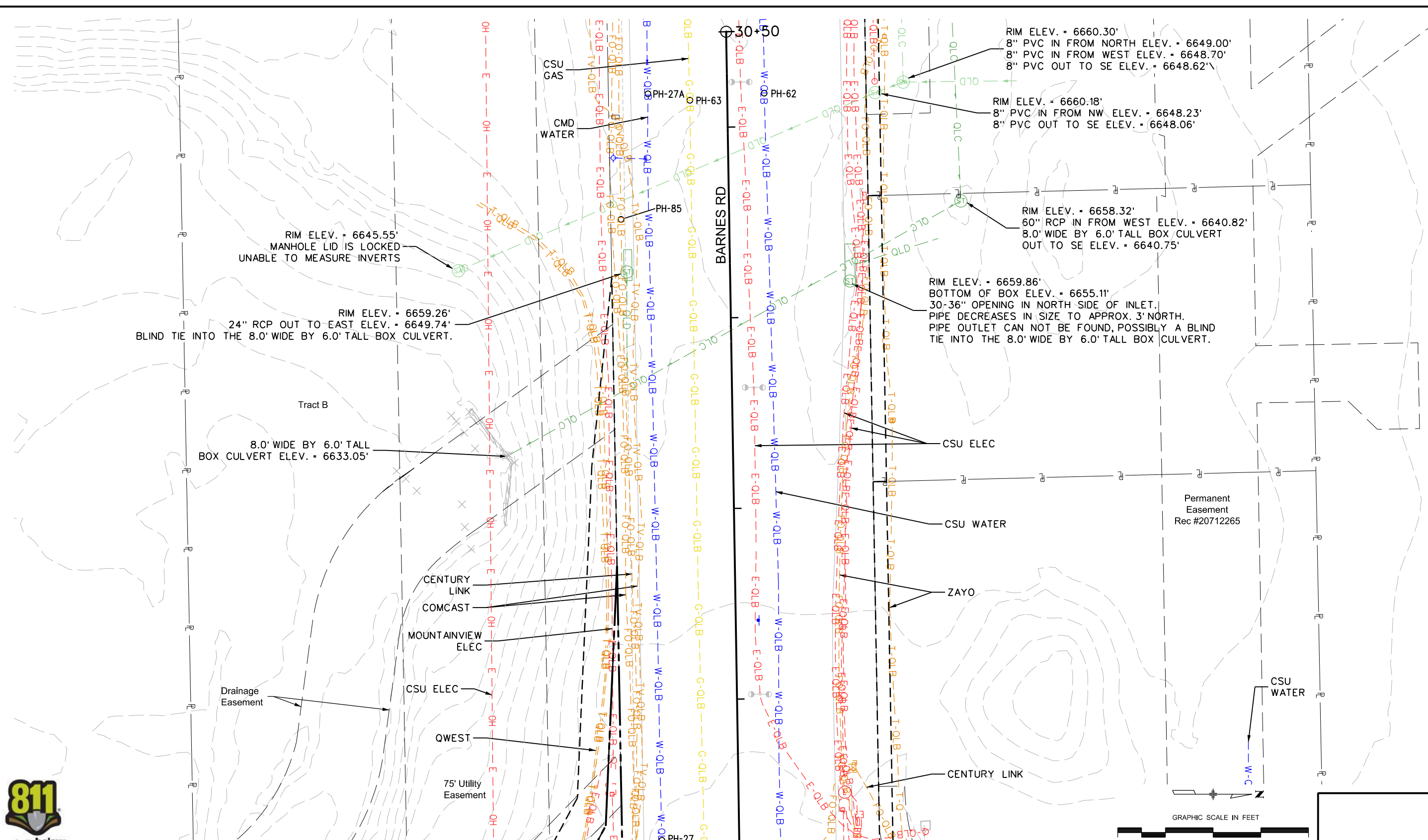
**MARKSHEFFEL ROAD  
 SUBSURFACE UTILITY PLAN**

Designer:  
 Detailer:  
 Sheet Subset: SUE    Subset Sheets: 11 of 26

Sheet Number **Plan 08**

**PRELIMINARY - NOT FOR CONSTRUCTION**

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RIM ELEV. = 6660.30'  
 8" PVC IN FROM NORTH ELEV. = 6649.00'  
 8" PVC IN FROM WEST ELEV. = 6648.70'  
 8" PVC OUT TO SE ELEV. = 6648.62'

RIM ELEV. = 6660.18'  
 8" PVC IN FROM NW ELEV. = 6648.23'  
 8" PVC OUT TO SE ELEV. = 6648.06'

RIM ELEV. = 6658.32'  
 60" RCP IN FROM WEST ELEV. = 6640.82'  
 8.0' WIDE BY 6.0' TALL BOX CULVERT  
 OUT TO SE ELEV. = 6640.75'

RIM ELEV. = 6659.86'  
 BOTTOM OF BOX ELEV. = 6655.11'  
 30-36" OPENING IN NORTH SIDE OF INLET.  
 PIPE DECREASES IN SIZE TO APPROX. 3' NORTH.  
 PIPE OUTLET CAN NOT BE FOUND, POSSIBLY A BLIND  
 TIE INTO THE 8.0' WIDE BY 6.0' TALL BOX CULVERT.

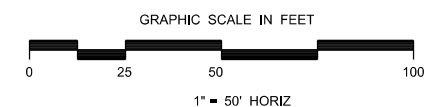
RIM ELEV. = 6645.55'  
 MANHOLE LID IS LOCKED  
 UNABLE TO MEASURE INVERTS

RIM ELEV. = 6659.26'  
 24" RCP OUT TO EAST ELEV. = 6649.74'  
 BLIND TIE INTO THE 8.0' WIDE BY 6.0' TALL BOX CULVERT.

8.0' WIDE BY 6.0' TALL  
 BOX CULVERT ELEV. = 6633.05'



MATCH LINE SEE SHEET PLAN 08



**PRELIMINARY - NOT FOR CONSTRUCTION**

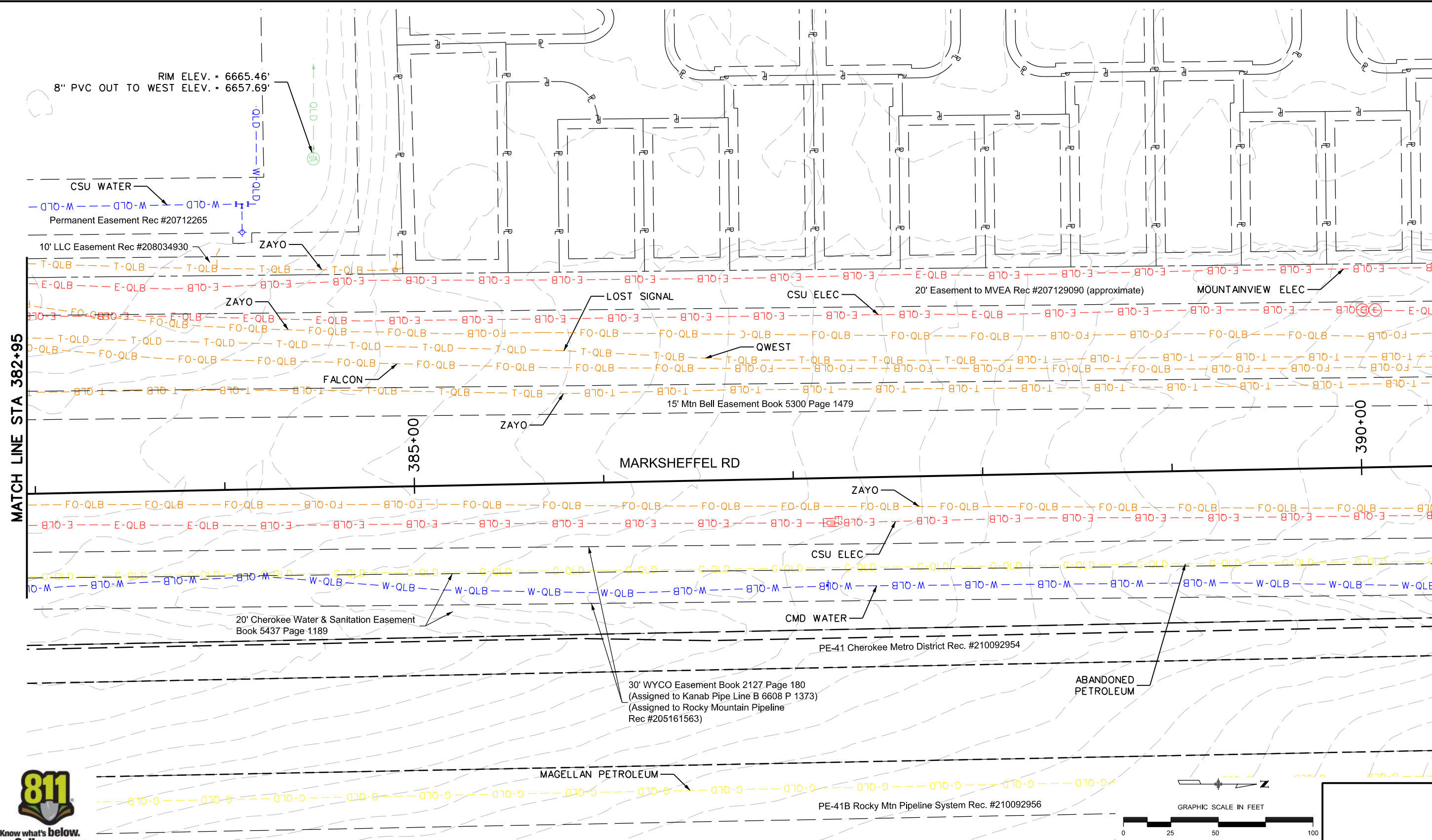
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Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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No Revisions:	Designer:		Structure Numbers
Revised:	Detailer:		
Void:	Sheet Subset: SUE	Subset Sheets: 12 of 26	Sheet Number Plan 09

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Print Date: 11/3/2023  
 File Name: SUE PLAN SHEET STA 382+95 to 390+37  
 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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 Revised:  
 Void:

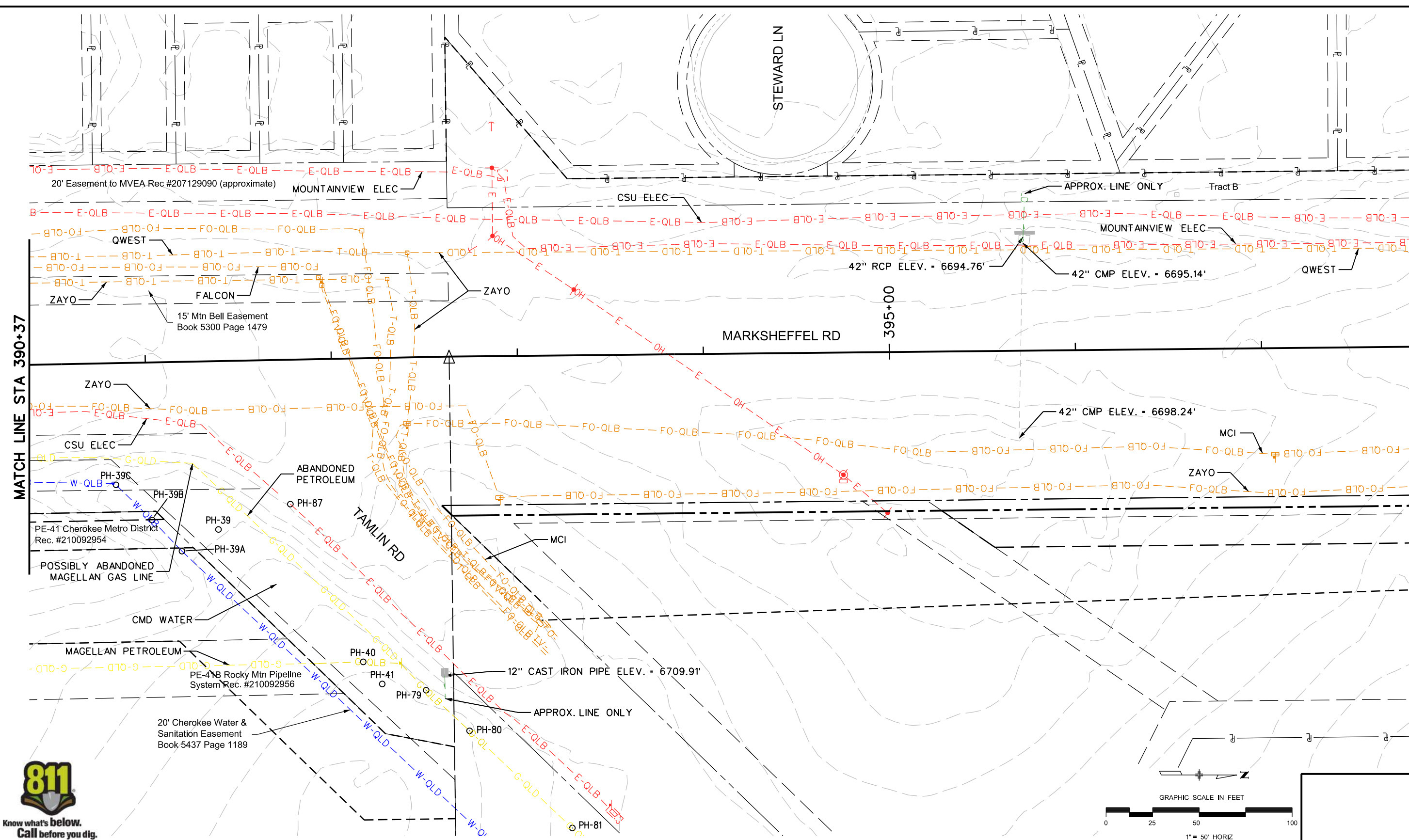
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 SUBSURFACE UTILITY PLAN**

Designer:  
 Detailer:  
 Sheet Subset: SUE    Subset Sheets: 13 of 26

Sheet Number **Plan 10**

**PRELIMINARY - NOT FOR CONSTRUCTION**

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MATCH LINE STA 390+37

MATCH LINE STA 397+80



Print Date: 11/3/2023  
 File Name: SUE PLAN SHEET STA 390+37 to 397+80  
 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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 Revised:  
 Void:

MARKSHEFFEL ROAD  
 SUBSURFACE UTILITY PLAN

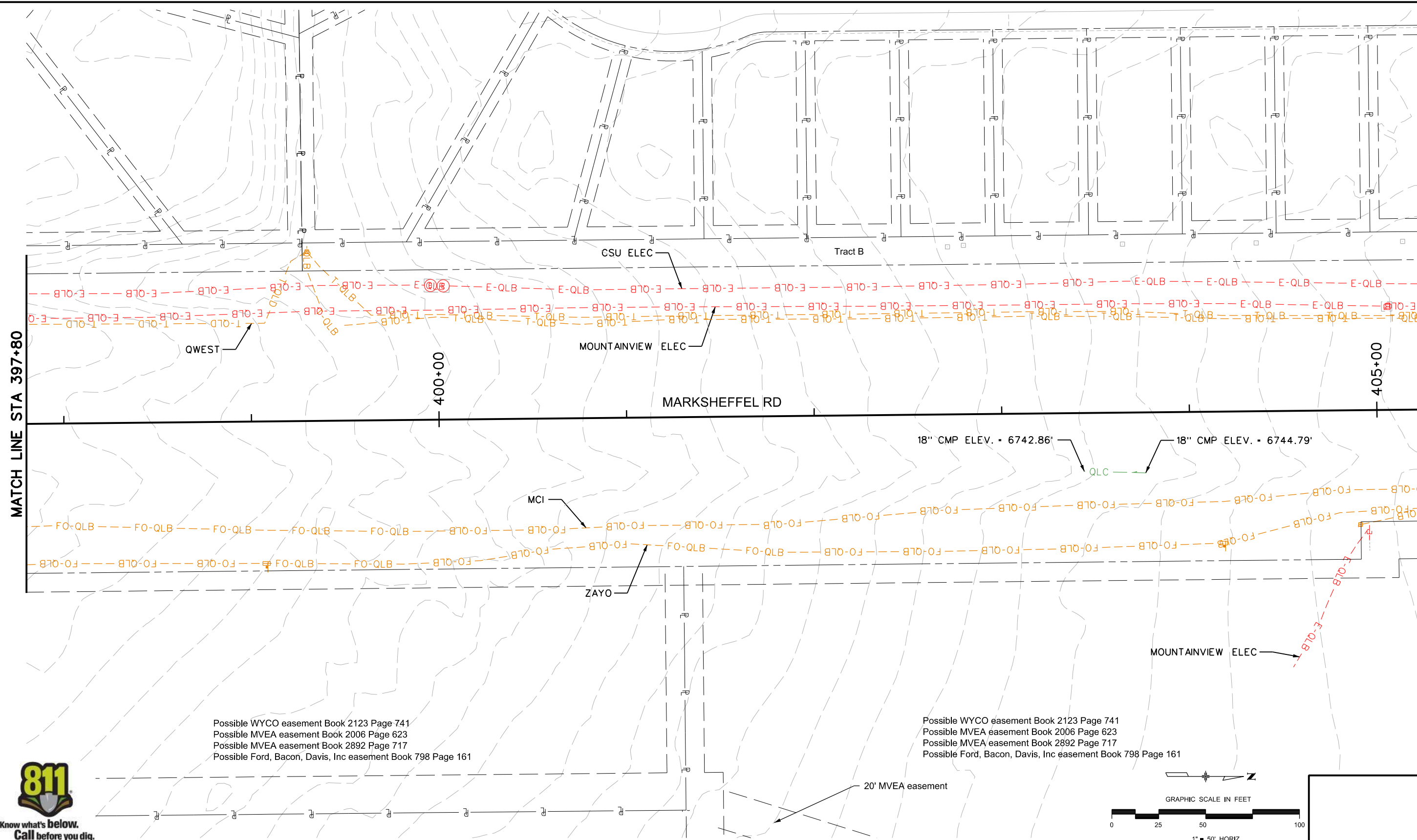
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 Detailer:  
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Structure Numbers:  
 Subset Sheets: 14 of 26

Sheet Number Plan 11

PRELIMINARY - NOT FOR CONSTRUCTION

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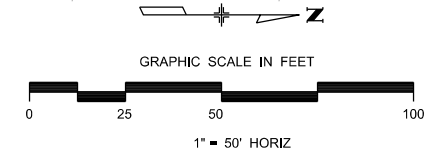
MATCH LINE STA 397+80

MATCH LINE STA 405+22



Possible WYCO easement Book 2123 Page 741  
 Possible MVEA easement Book 2006 Page 623  
 Possible MVEA easement Book 2892 Page 717  
 Possible Ford, Bacon, Davis, Inc easement Book 798 Page 161

Possible WYCO easement Book 2123 Page 741  
 Possible MVEA easement Book 2006 Page 623  
 Possible MVEA easement Book 2892 Page 717  
 Possible Ford, Bacon, Davis, Inc easement Book 798 Page 161



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 397+80 to 405+22
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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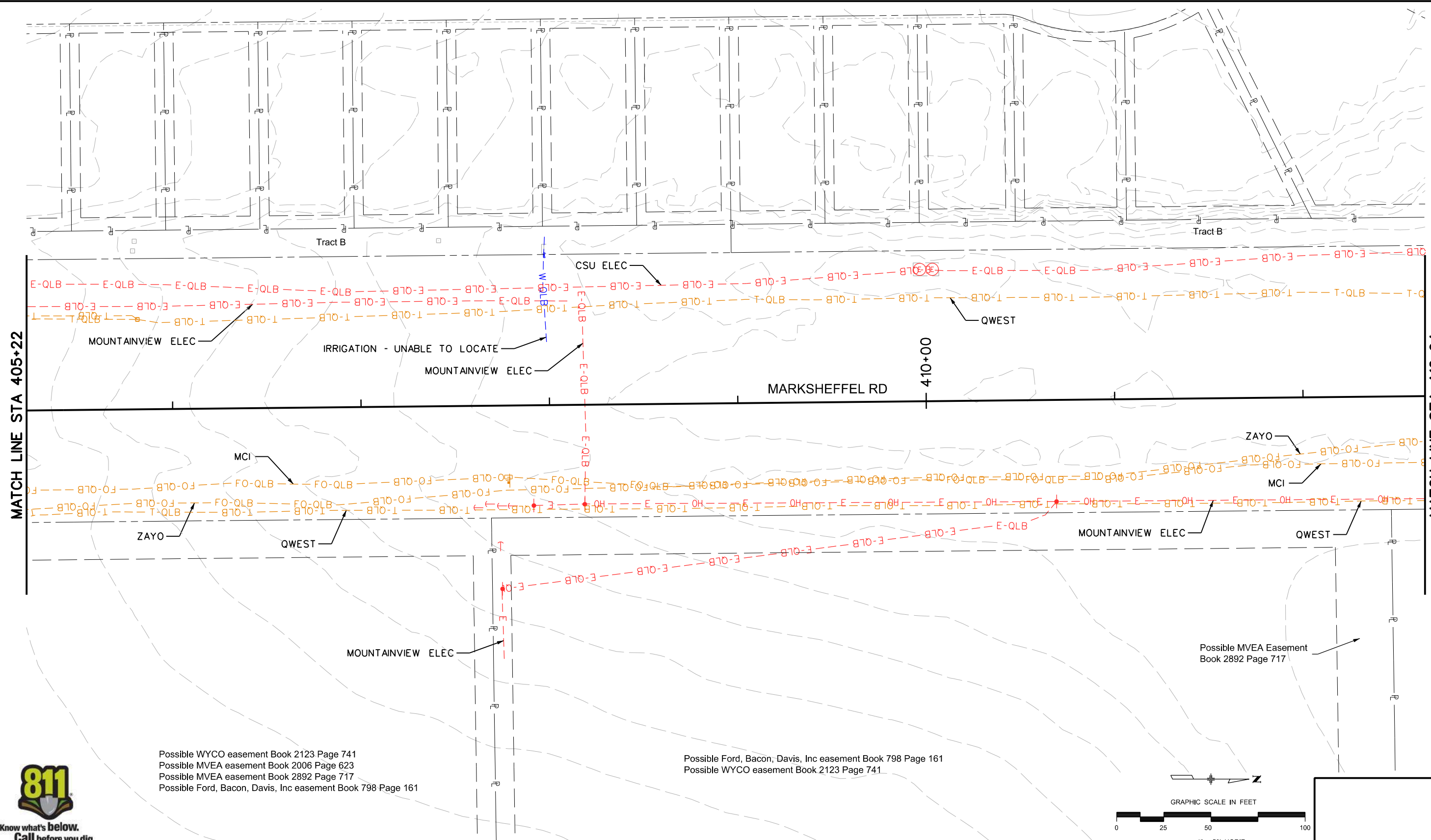
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Sheet Number	Plan 12
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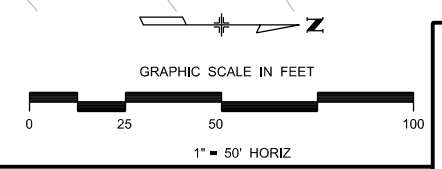
MATCH LINE STA 405+22

MATCH LINE STA 412+64



Possible WYCO easement Book 2123 Page 741  
 Possible MVEA easement Book 2006 Page 623  
 Possible MVEA easement Book 2892 Page 717  
 Possible Ford, Bacon, Davis, Inc easement Book 798 Page 161

Possible Ford, Bacon, Davis, Inc easement Book 798 Page 161  
 Possible WYCO easement Book 2123 Page 741



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 405+22 to 412+64
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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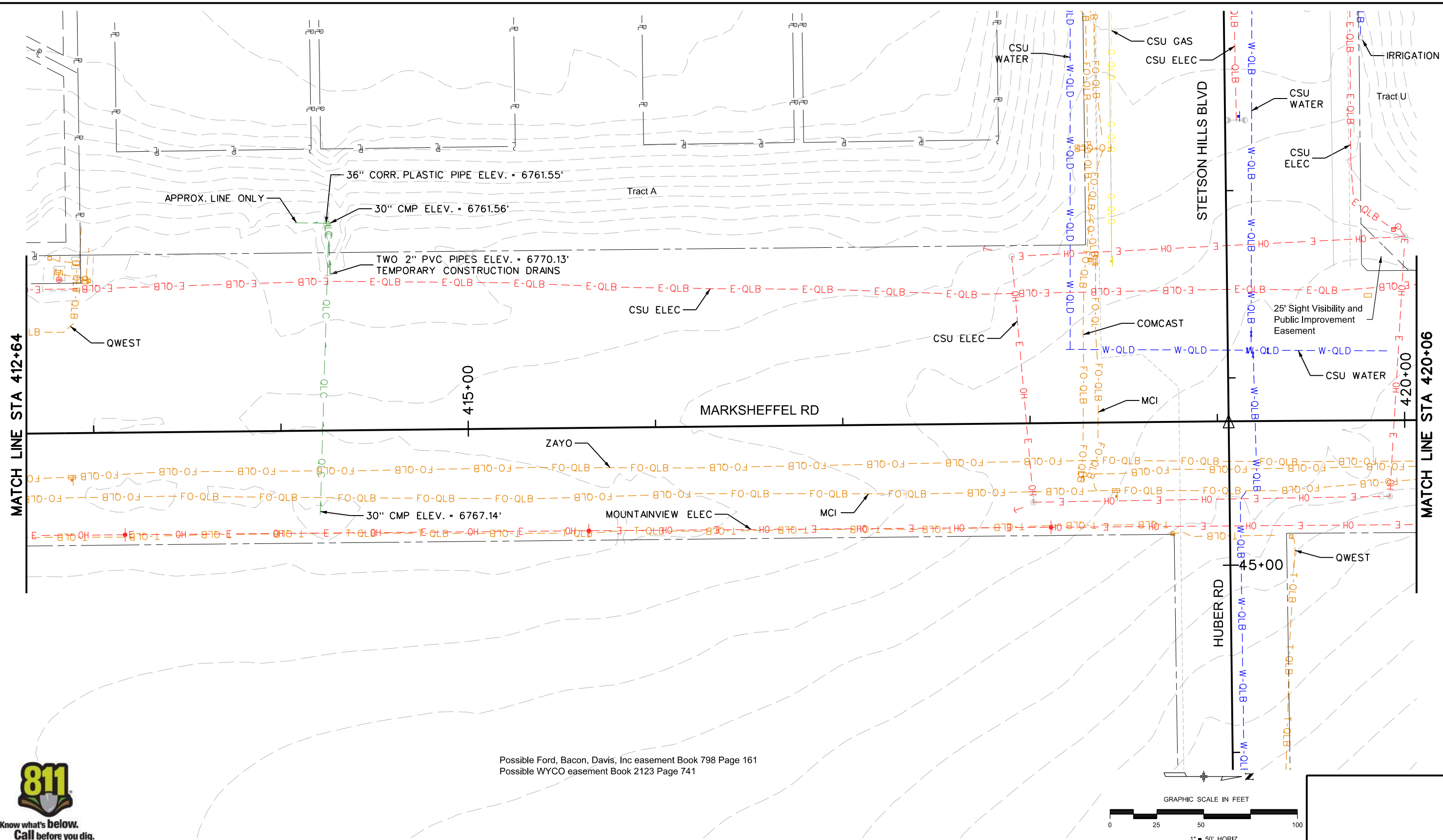
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Designer:	Structure Numbers		
Detailer:			
Sheet Subset: SUE	Subset Sheets: 16 of 26		

Sheet Number Plan 13

**PRELIMINARY - NOT FOR CONSTRUCTION**

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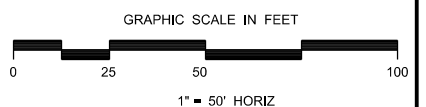


MATCH LINE STA 412+64

MATCH LINE STA 420+06



Possible Ford, Bacon, Davis, Inc easement Book 798 Page 161  
Possible WYCO easement Book 2123 Page 741



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 412+64 to 420+06
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Unit Information      Unit Leader
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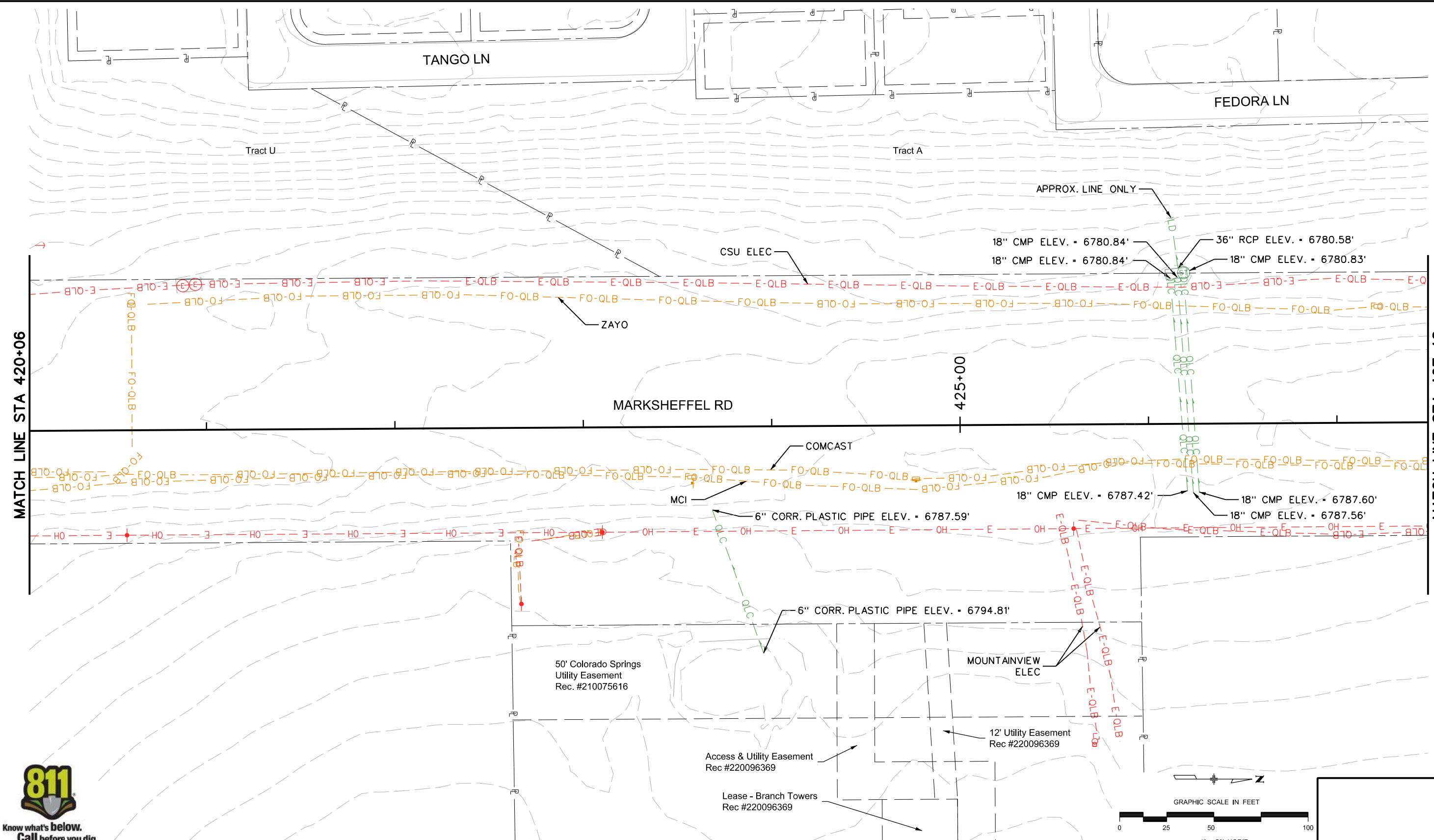
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Designer:	Structure Numbers	
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Sheet Number Plan 14

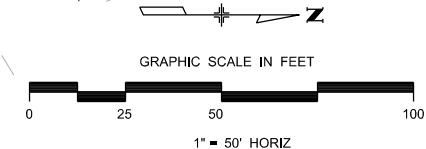
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MATCH LINE STA 420+06

MATCH LINE STA 427+48



Print Date: 9/1/2023  
 File Name: SUE PLAN SHEET STA 420+06 to 427+48  
 Horiz. Scale: 1:50 Vert. Scale:  
 Unit Information Unit Leader  
 Project No./Code PPRTA 10444

Sheet Revisions		
Date:	Comments	Init.



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**MARKSHEFFEL ROAD  
 SUBSURFACE UTILITY PLAN**

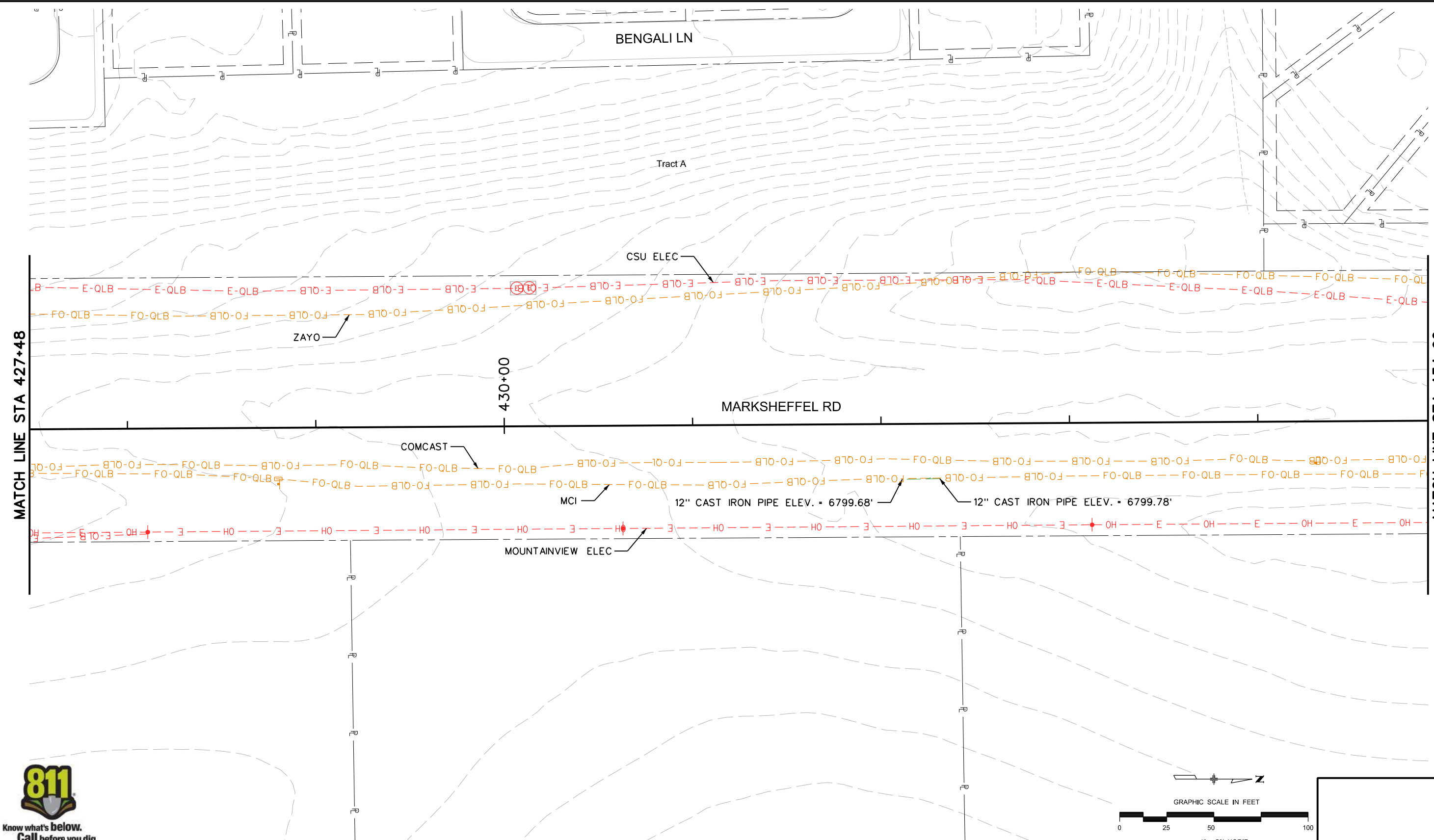
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Structure Numbers  
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Sheet Number Plan 15

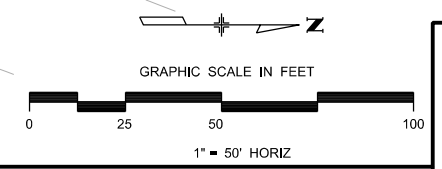
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MATCH LINE STA 427+48

MATCH LINE STA 434+90



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 427+48 to 434+90
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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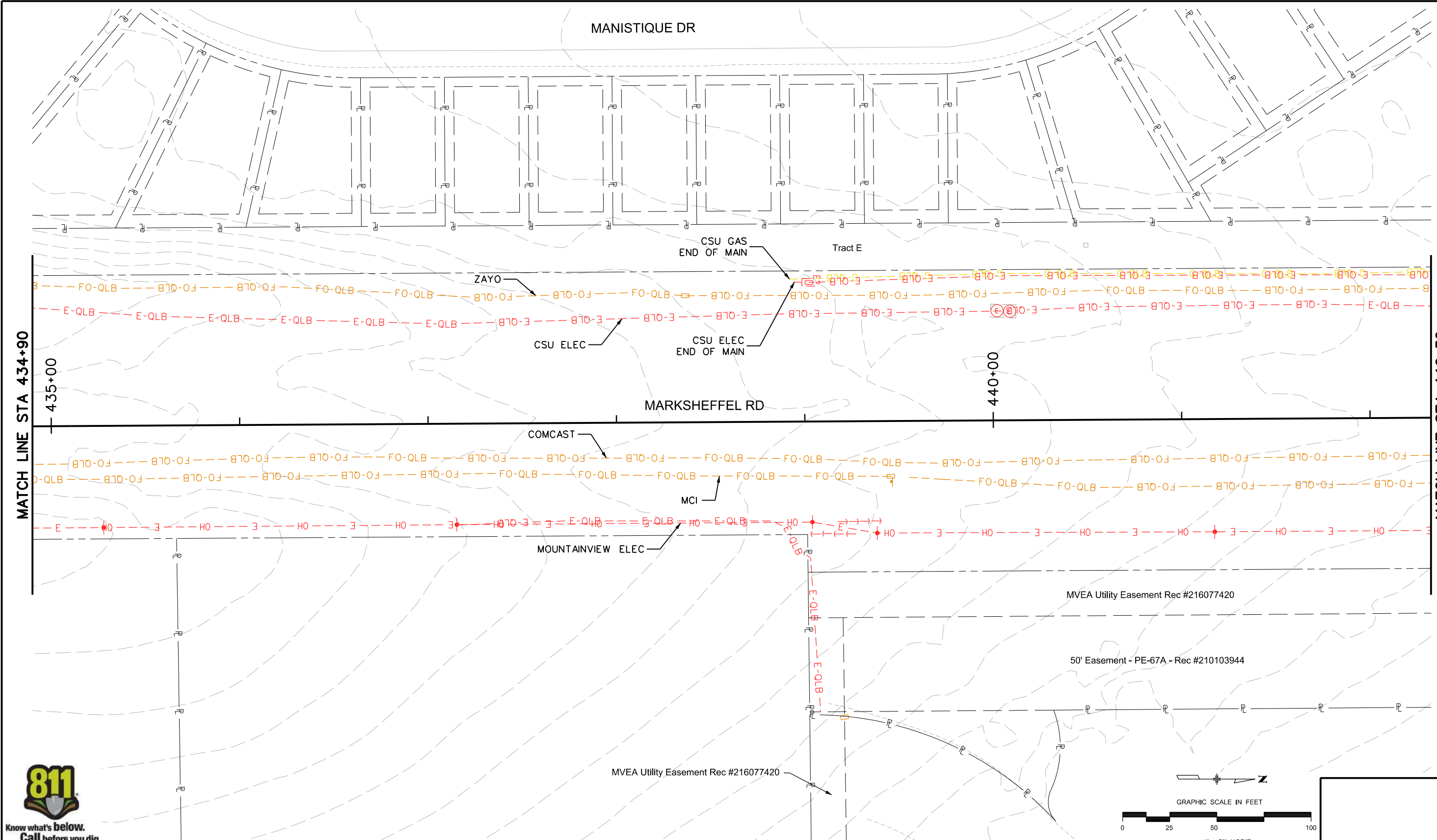
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<b>MARKSHEFFEL ROAD SUBSURFACE UTILITY PLAN</b>		
Designer:	Structure Numbers	
Detailer:		
Sheet Subset: SUE	Subset Sheets: 19 of 26	

Sheet Number <b>Plan 16</b>
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**PRELIMINARY - NOT FOR CONSTRUCTION**

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MATCH LINE STA 434+90

MATCH LINE STA 442+32



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 434+90 to 442+32
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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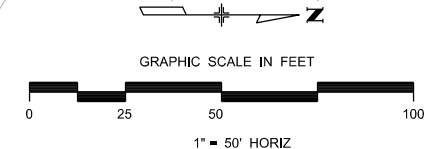
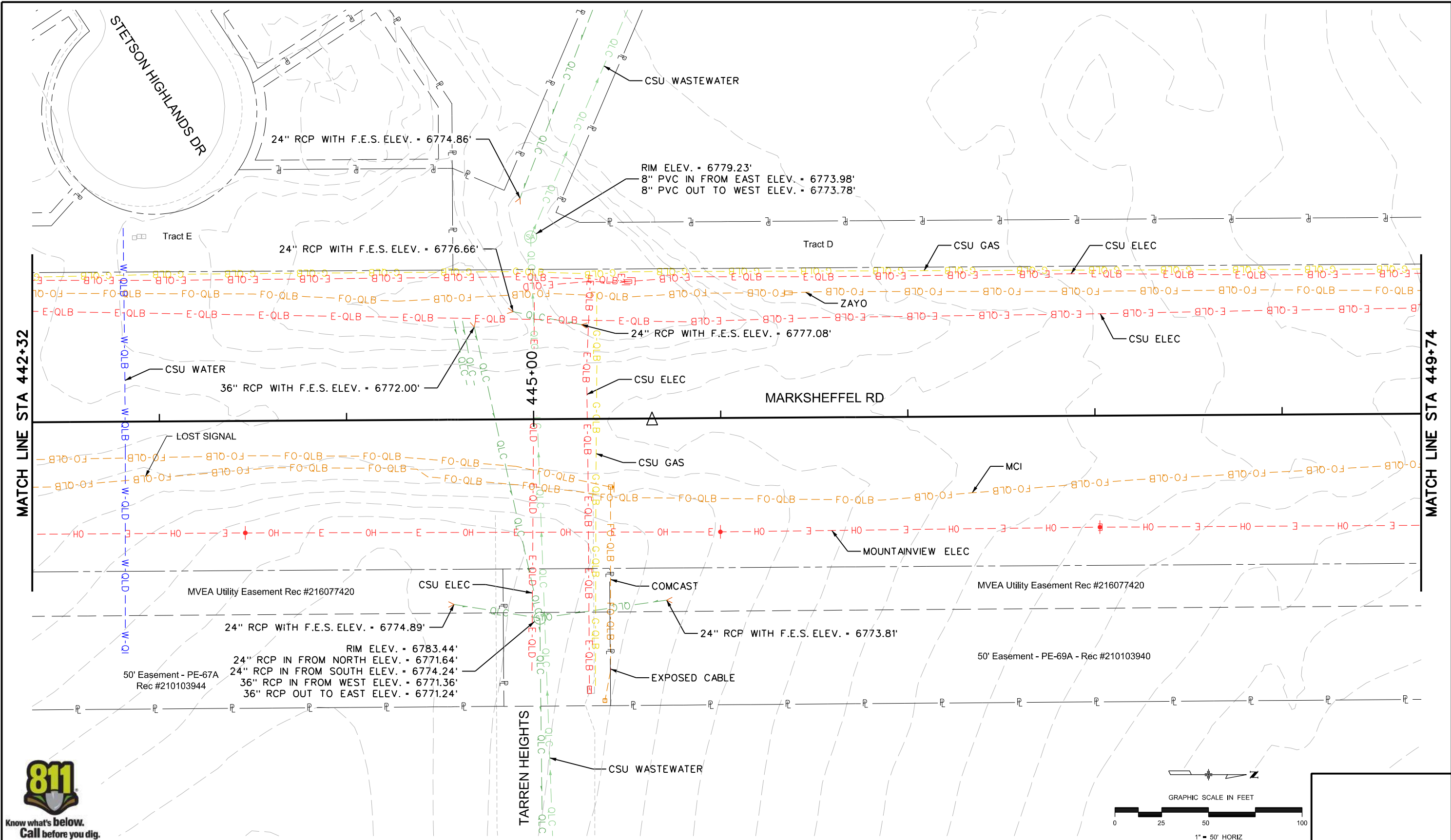
No Revisions:
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<b>MARKSHEFFEL ROAD SUBSURFACE UTILITY PLAN</b>		
Designer:	Structure Numbers	
Detailer:		
Sheet Subset: SUE	Subset Sheets: 20 of 26	

Sheet Number Plan 17

**PRELIMINARY - NOT FOR CONSTRUCTION**

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Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 442+32 to 449+74
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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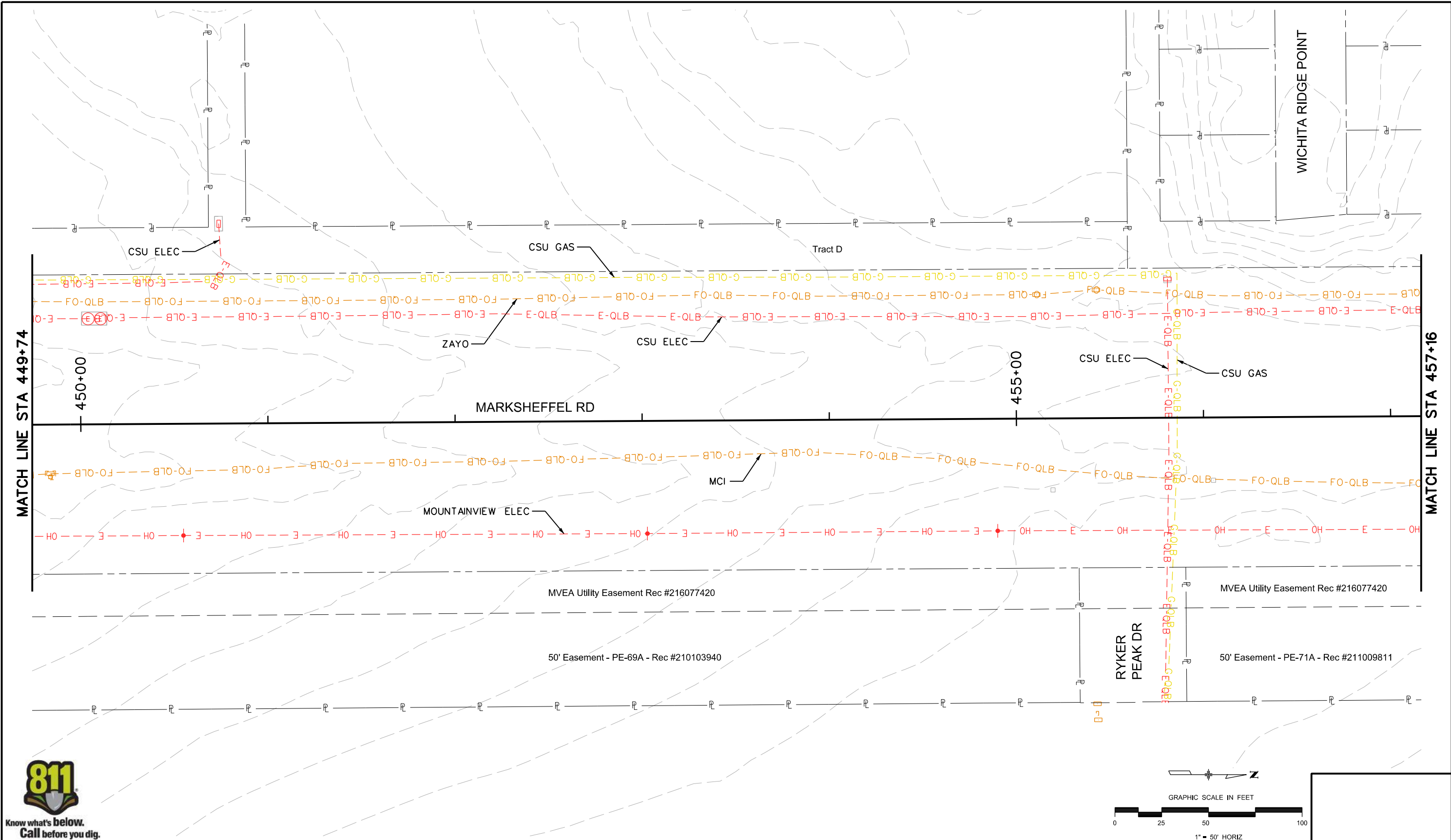
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Designer:	Structure Numbers	
Detailer:		
Sheet Subset: SUE	Subset Sheets: 21 of 26	

Sheet Number Plan 18

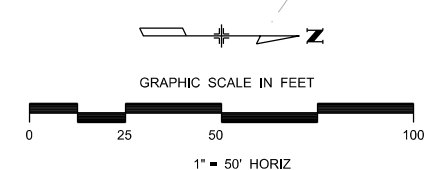
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MATCH LINE STA 449+74

MATCH LINE STA 457+16



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 449+74 to 457+16
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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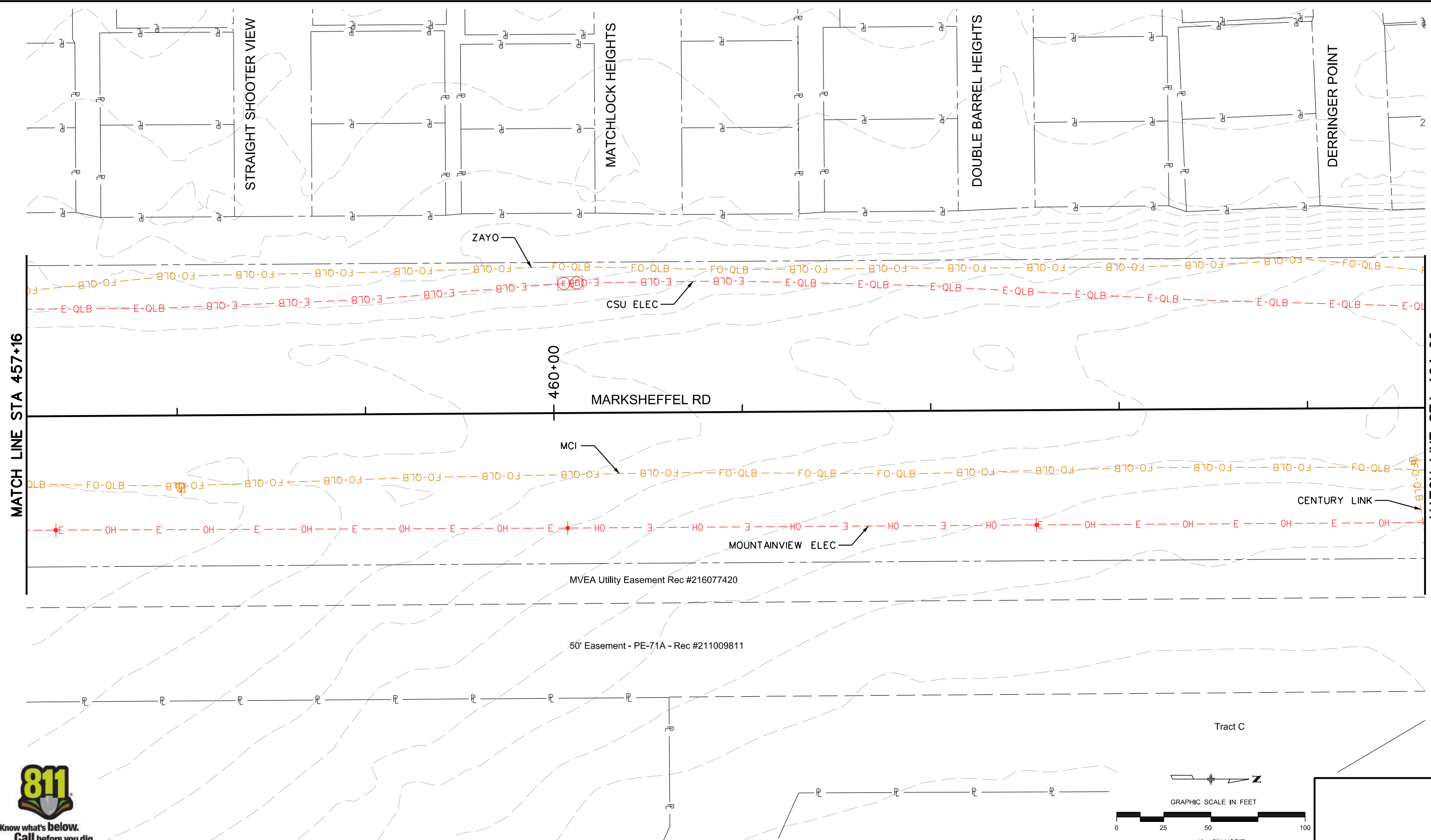
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<b>MARKSHEFFEL ROAD SUBSURFACE UTILITY PLAN</b>		
Designer:	Structure Numbers	
Detailer:		
Sheet Subset: SUE	Subset Sheets: 22 of 26	

Sheet Number Plan 19

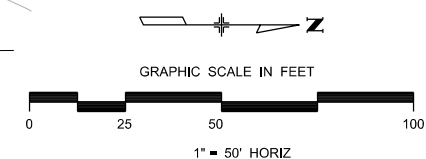
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MATCH LINE STA 457+16

MATCH LINE STA 464+62



Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 457+16 to 464+62
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

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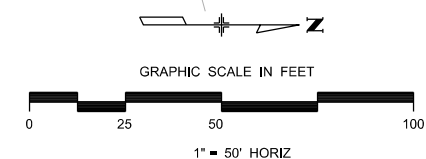
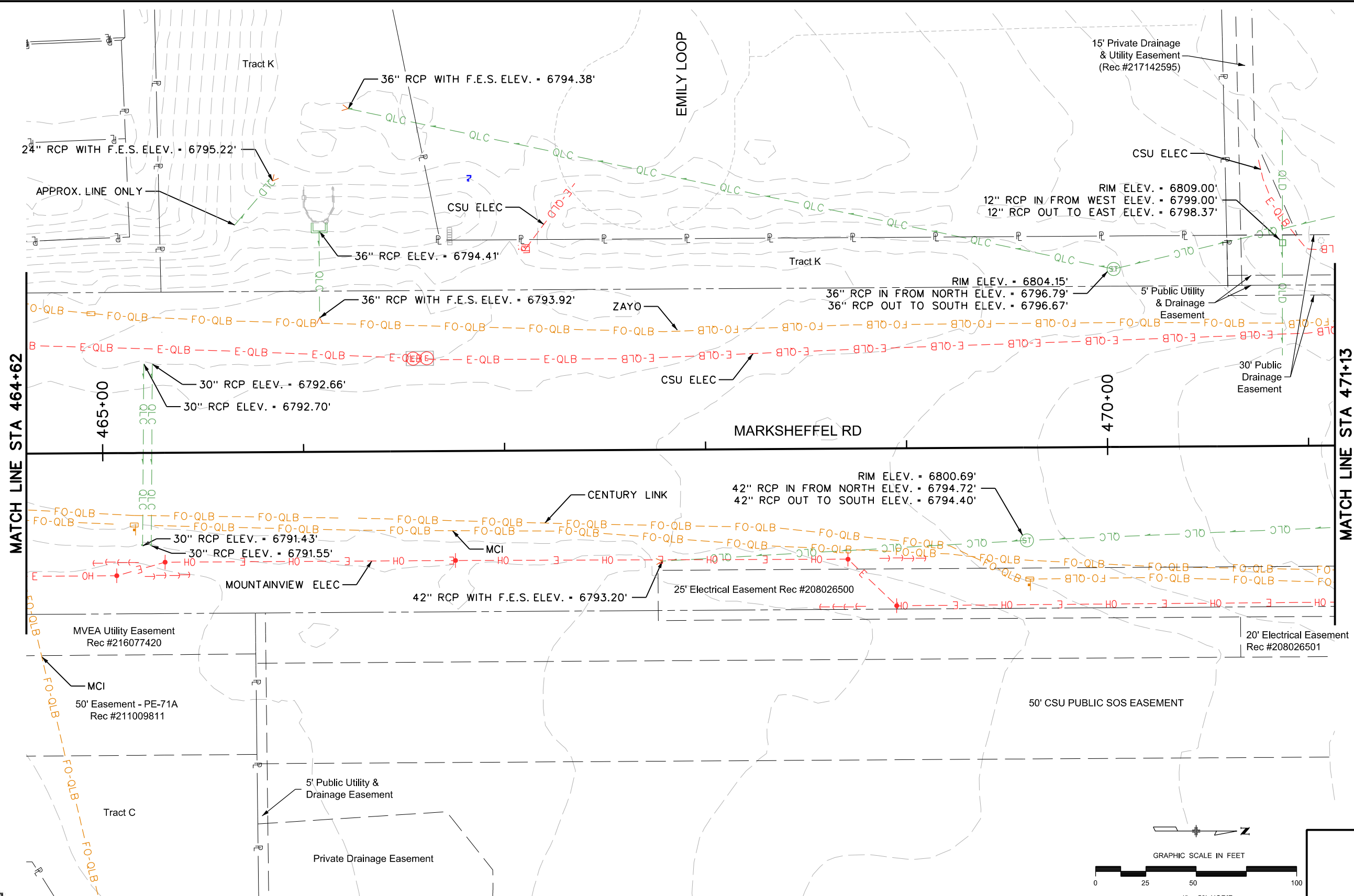
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Sheet Number **Plan 20**

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Print Date: 9/1/2023  
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 Horiz. Scale: 1:50      Vert. Scale:  
 Unit Information      Unit Leader  
 Project No./Code    PPRTA    10444

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Date:	Comments	Init.

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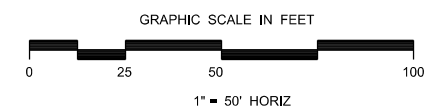
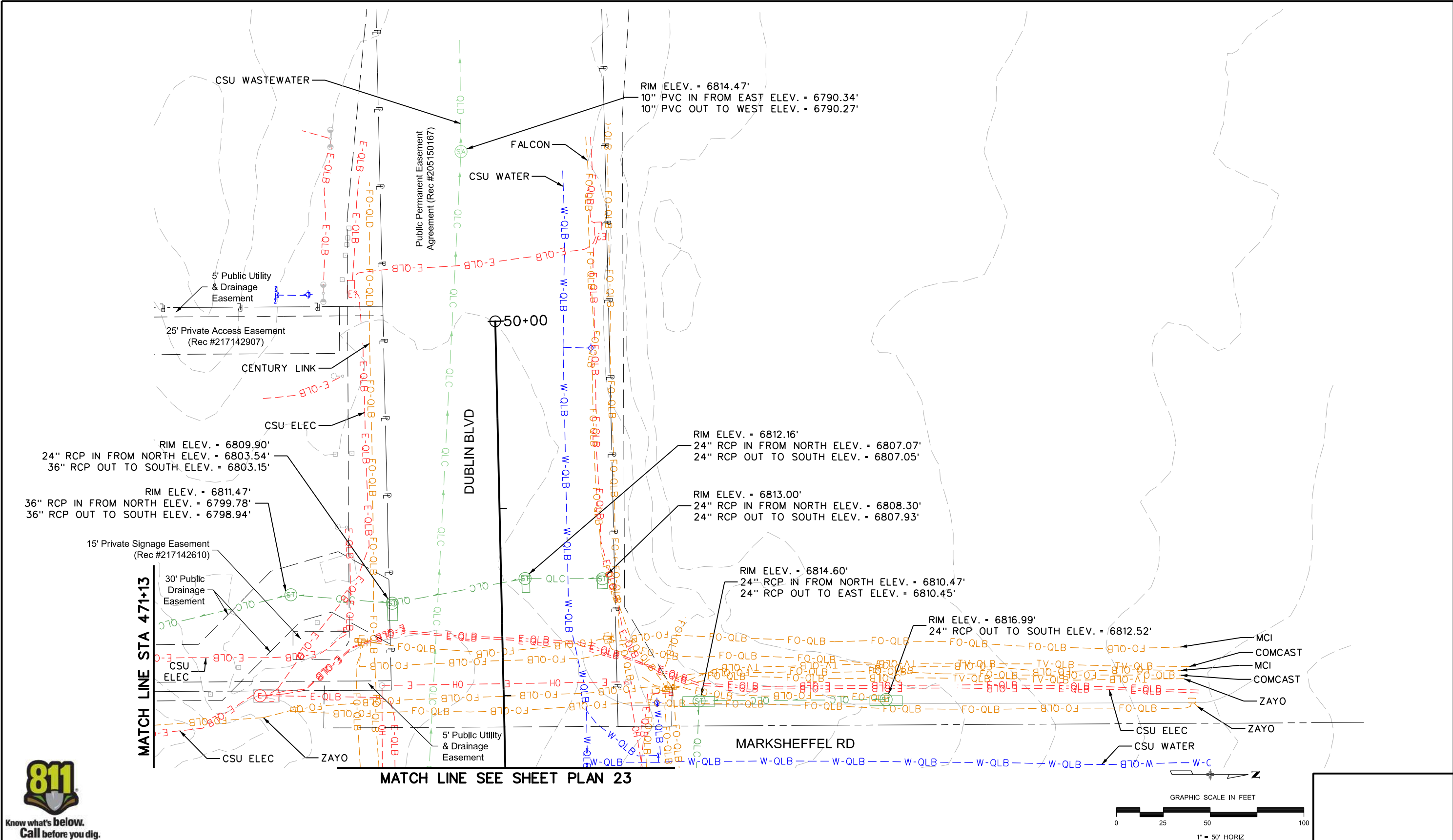
**MARKSHEFFEL ROAD  
 SUBSURFACE UTILITY PLAN**

Designer:  
 Detailer:  
 Sheet Subset:    SUE    Subset Sheets: 24 of 26

Sheet Number Plan 21

**PRELIMINARY - NOT FOR CONSTRUCTION**

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Print Date: 9/1/2023
File Name: SUE PLAN SHEET STA 471+13 to End
Horiz. Scale: 1:50      Vert. Scale:
Unit Information      Unit Leader
Project No./Code    PPRTA    10444

Sheet Revisions		
Date:	Comments	Init.

**Jacobs**  
 5555 Tech Center Dr  
 Suite 210  
 Colorado Springs, CO 80919  
 Phone: 719-633-8805

No Revisions:
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Void:

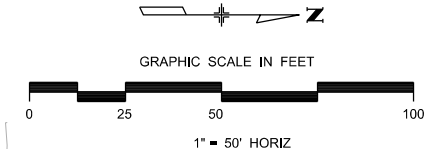
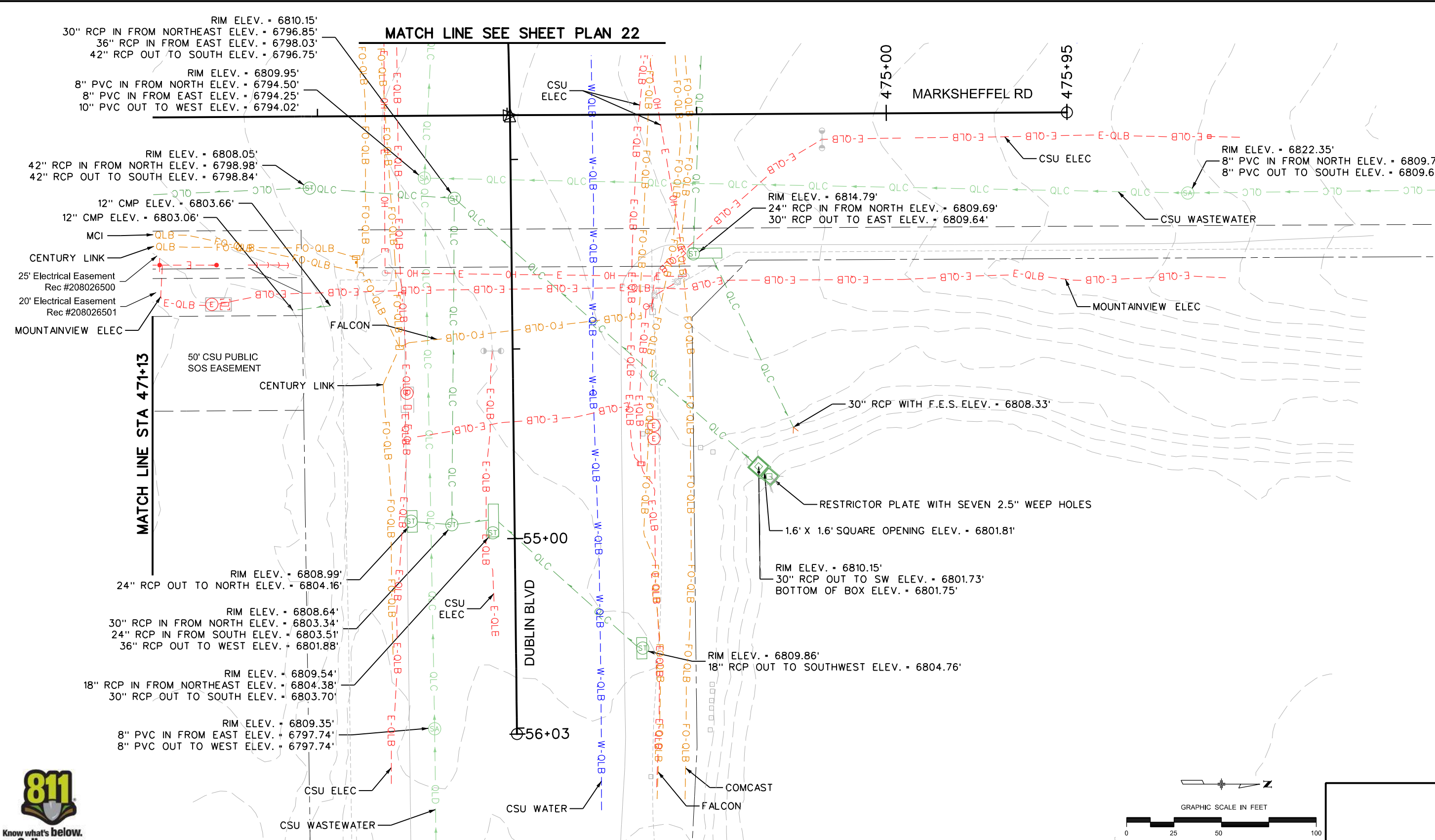
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Detailer:		
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Sheet Number Plan 22

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**PRELIMINARY - NOT FOR CONSTRUCTION**



Print Date: 9/1/2023
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<b>Project No./Code</b> PPRTA    10444

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Date:	Comments	Init.

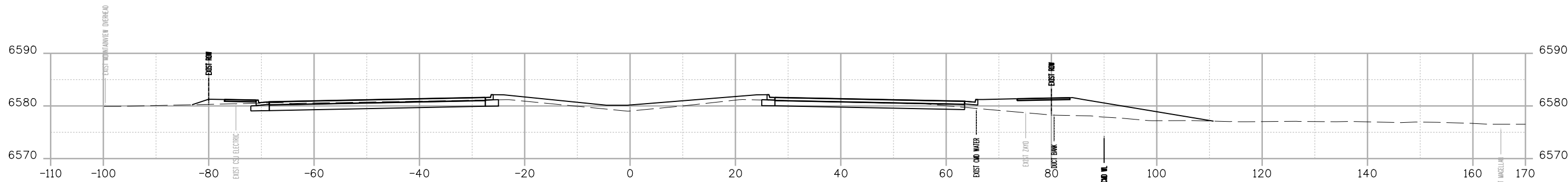
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Suite 210  
Colorado Springs, CO 80919  
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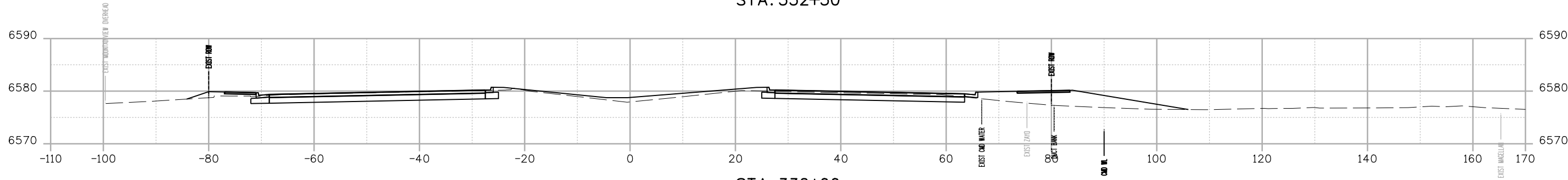


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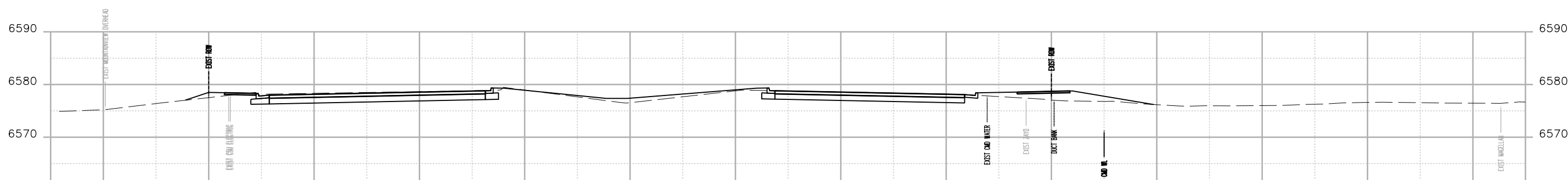
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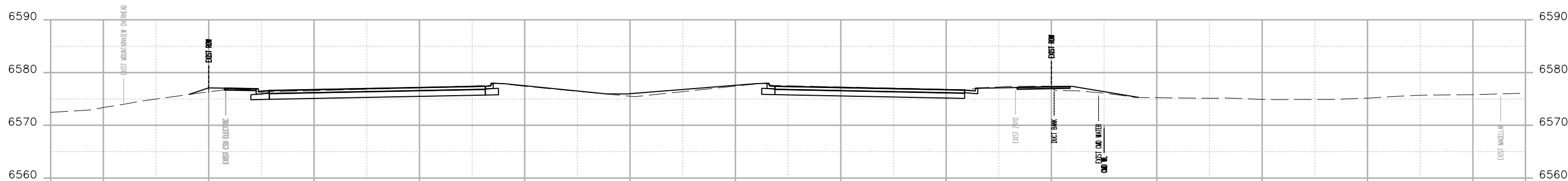
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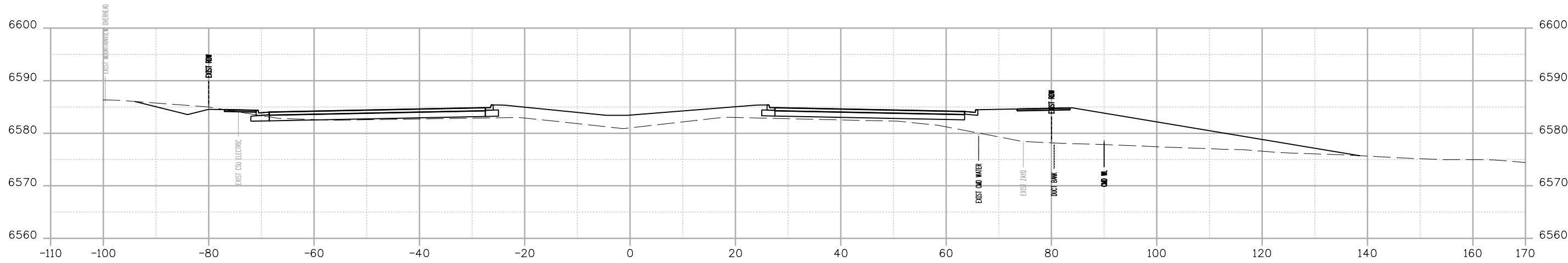
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 Suite 220  
 Colorado Springs, CO 80919  
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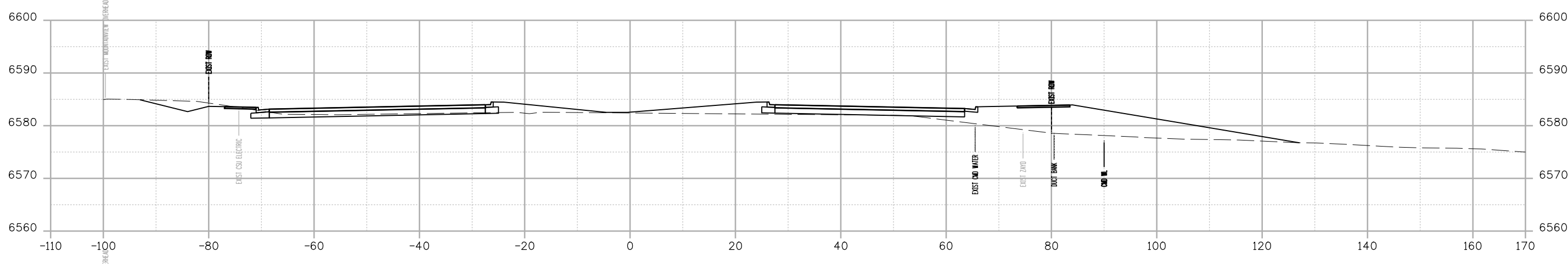
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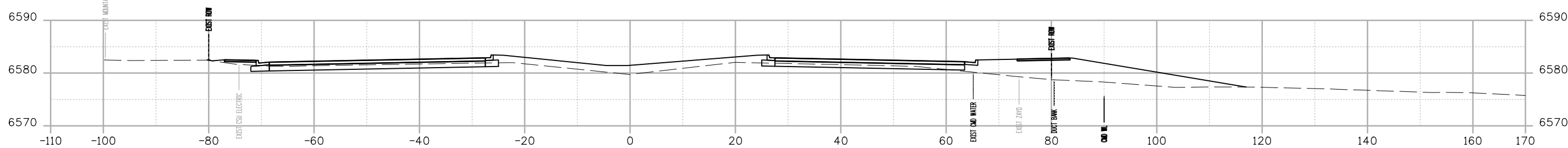
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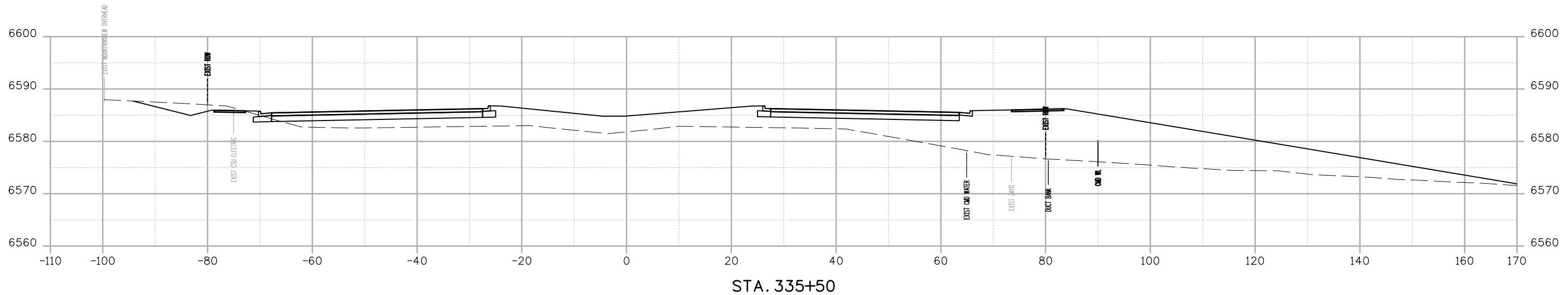
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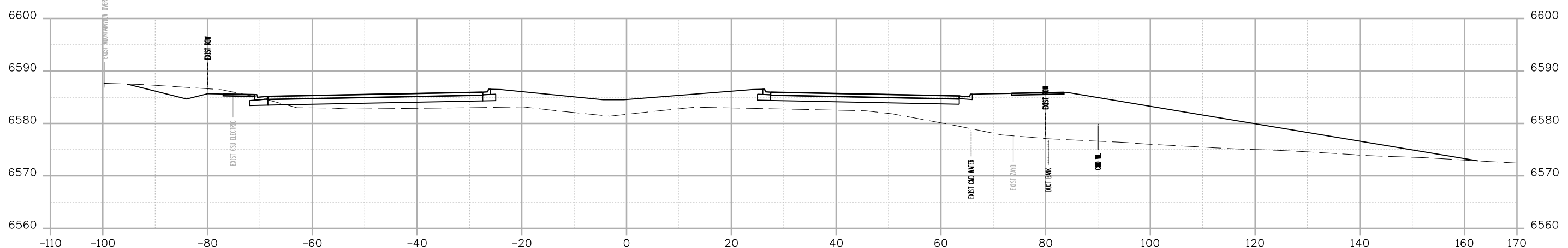
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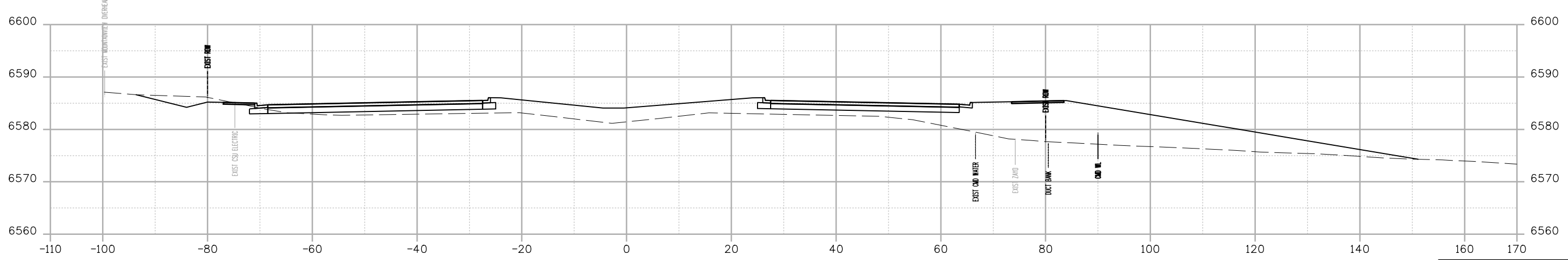
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Date:	Comments	Init.



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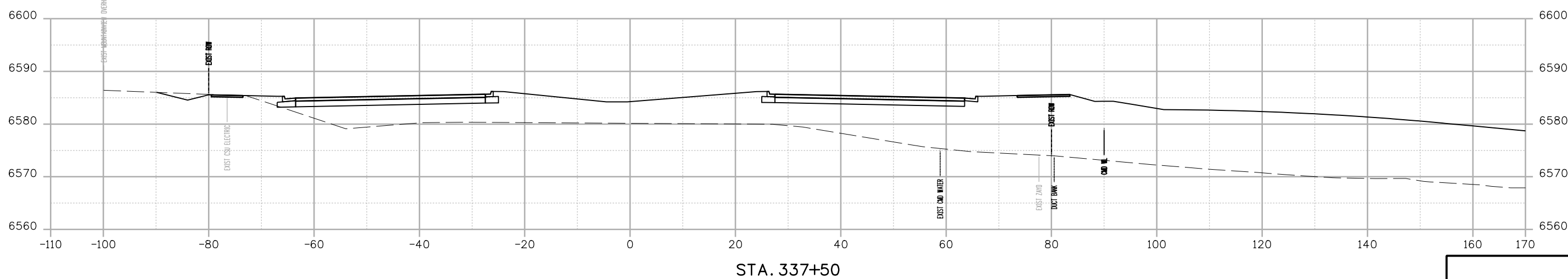
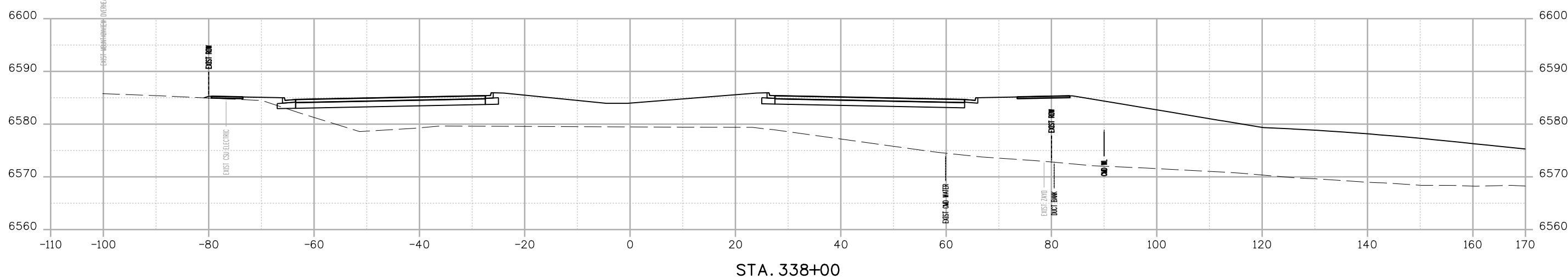
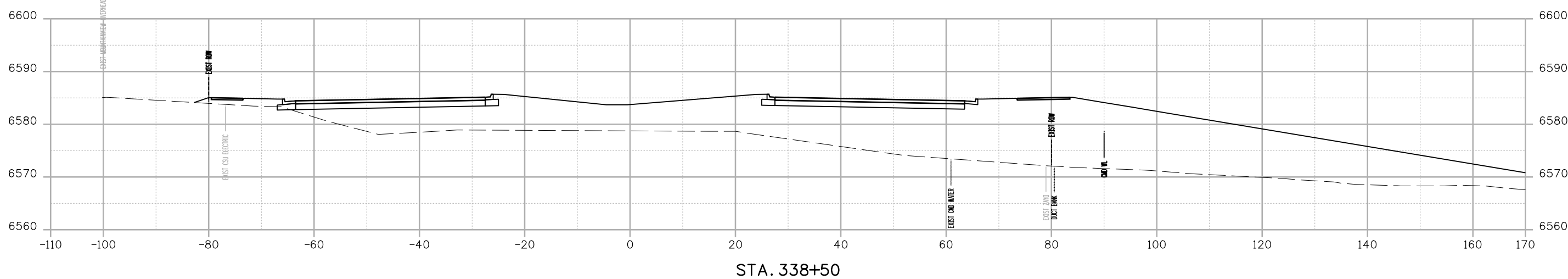
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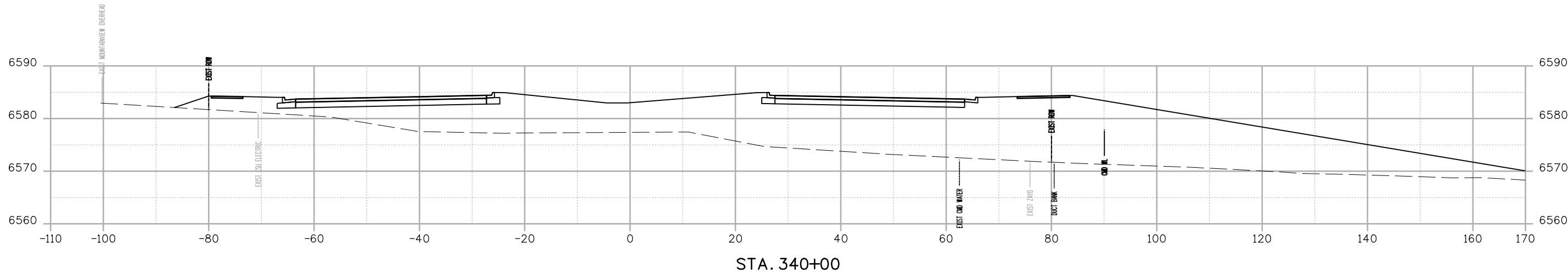
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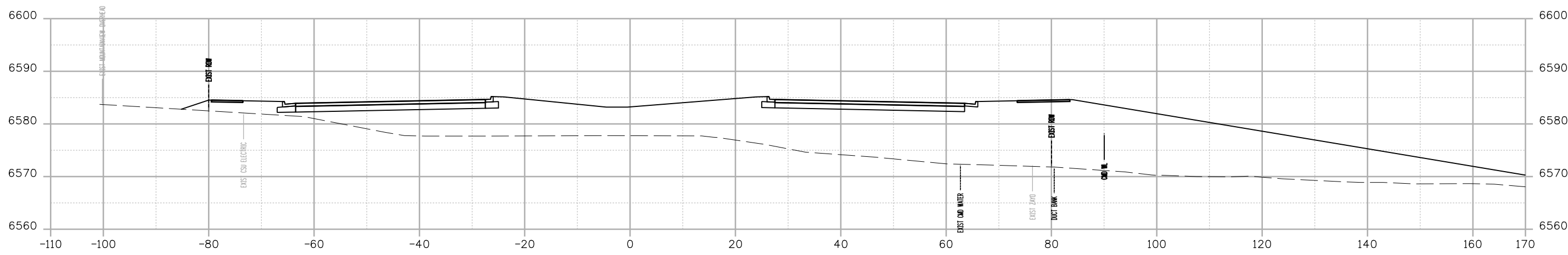
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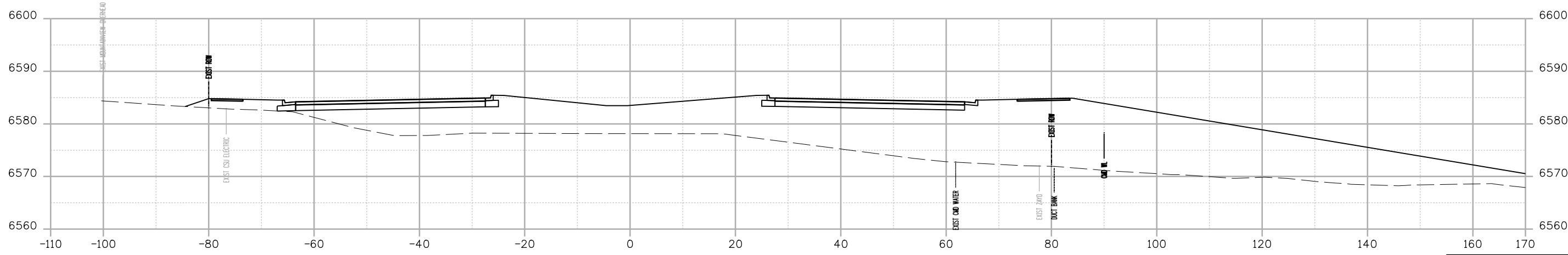
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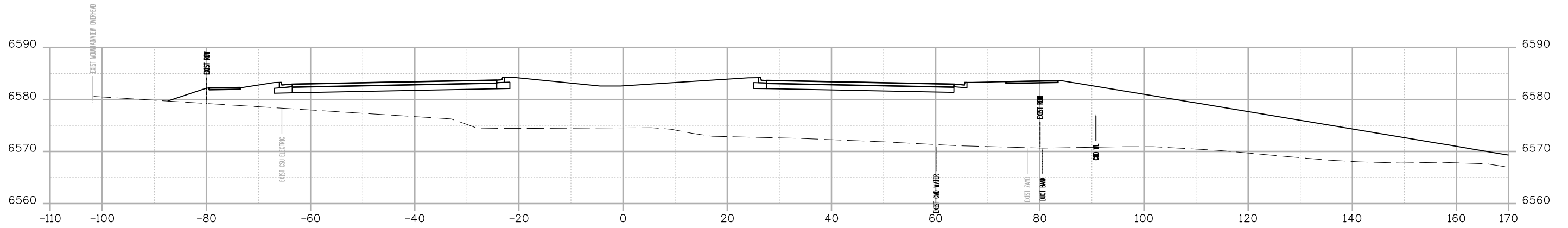
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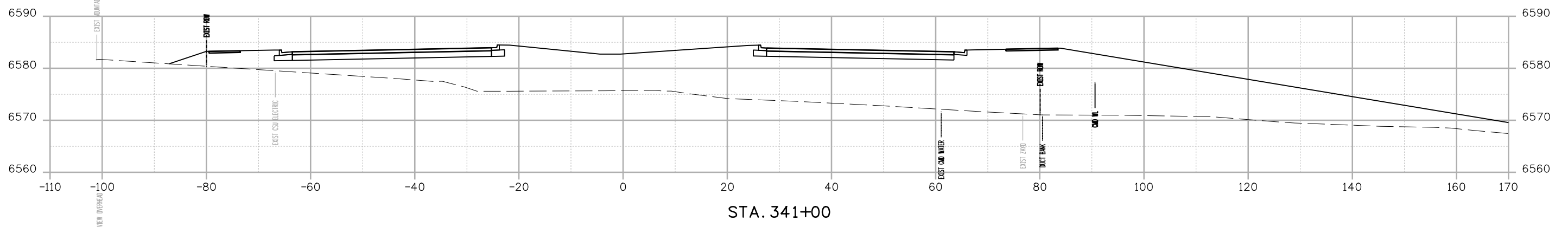
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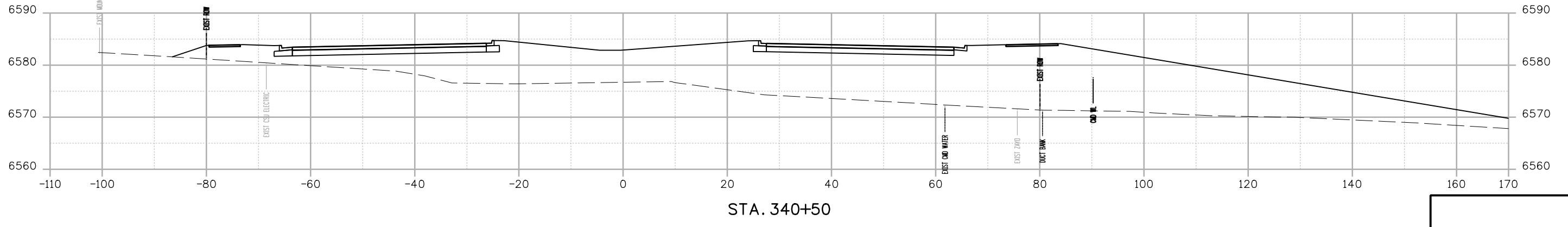
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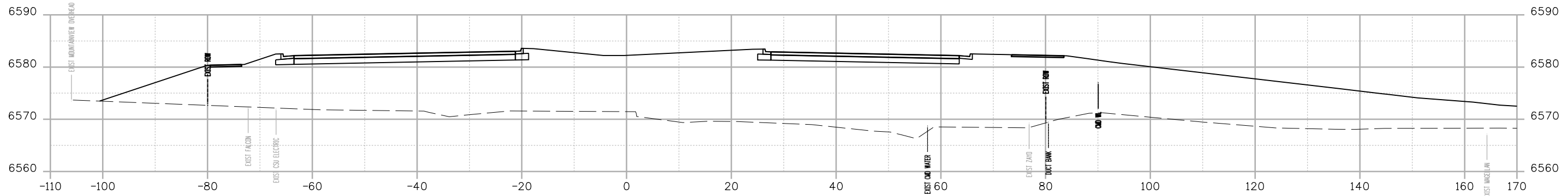
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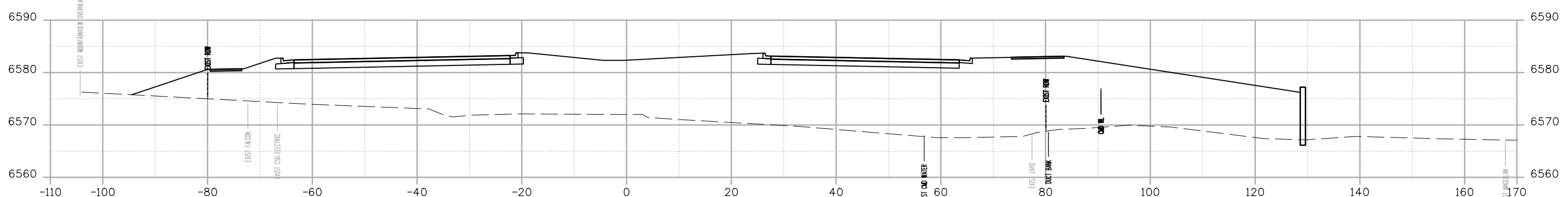
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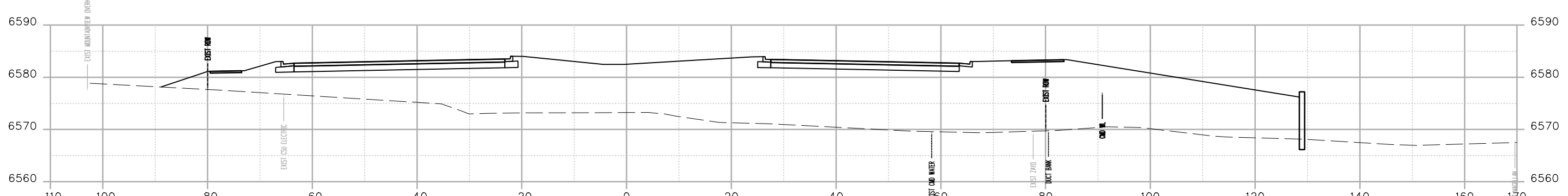
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**COLORADO SPRINGS**  
OLYMPIC CITY USA

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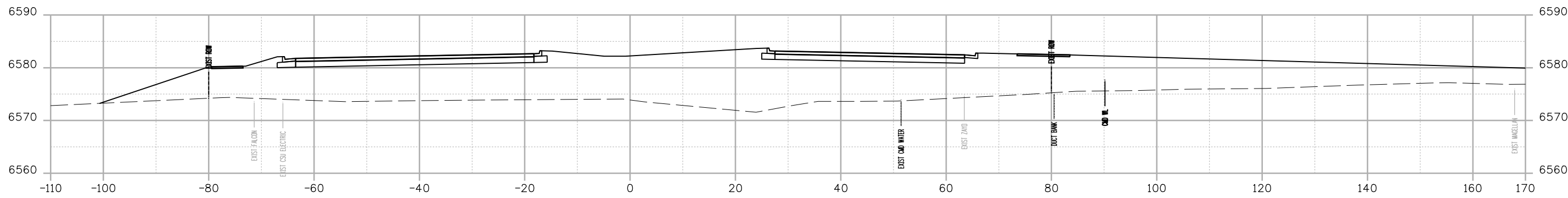
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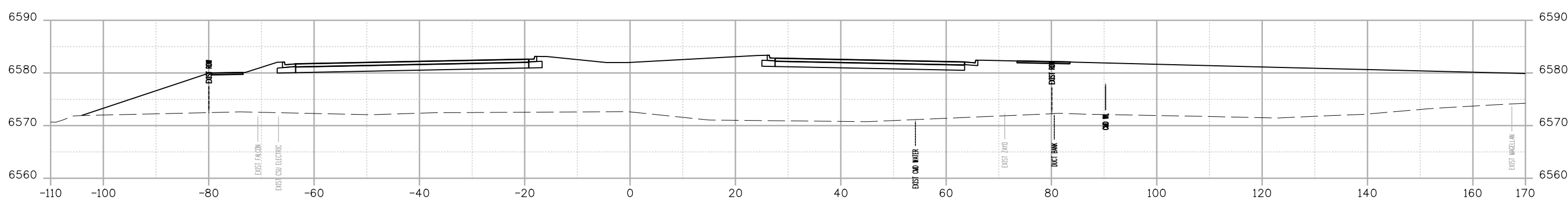
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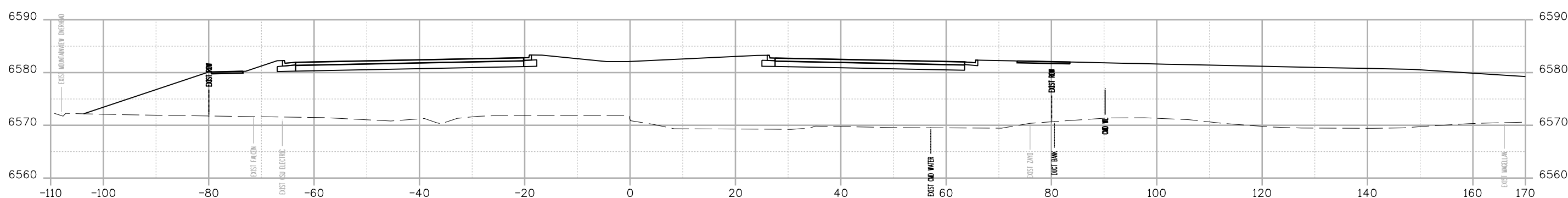
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STA. 343+50

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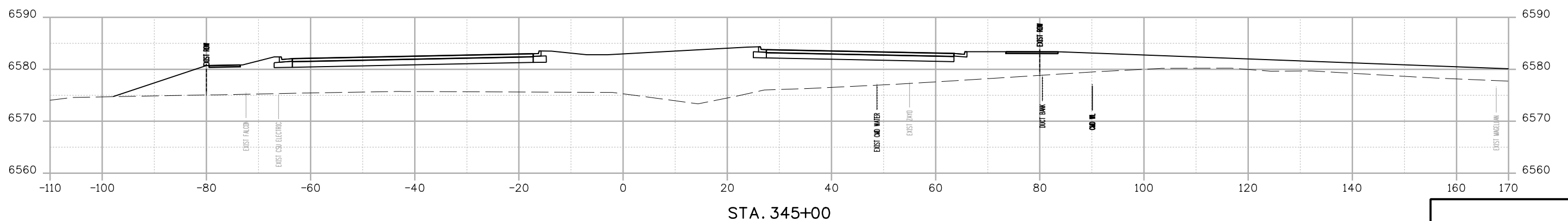
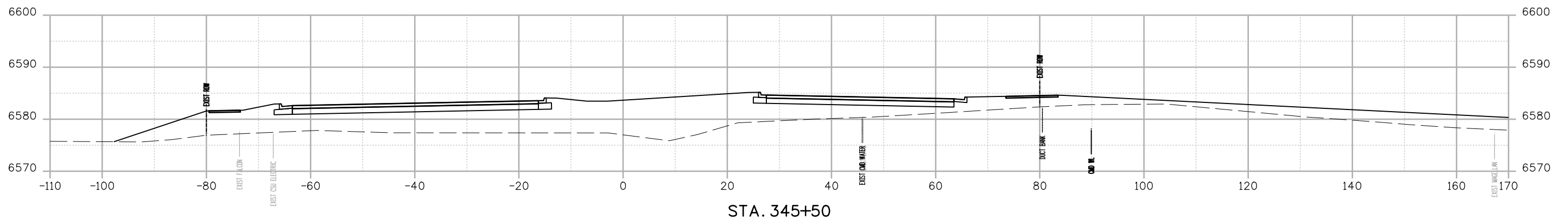
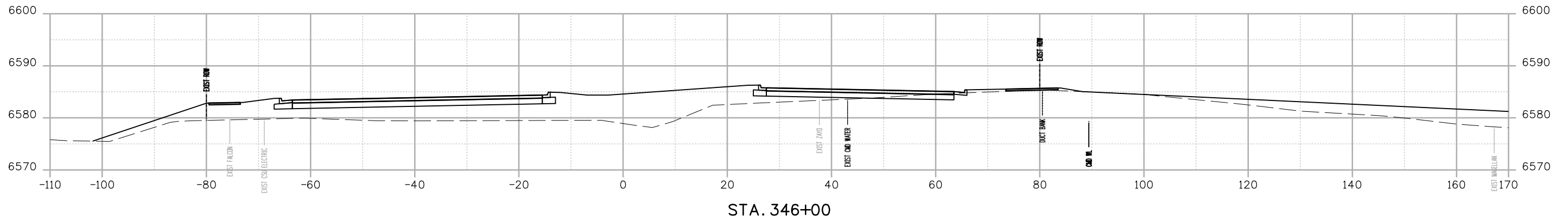
**WILSON & COMPANY**  
 5755 Mark Dabling Blvd.  
 Suite 220  
 Colorado Springs, CO 80919  
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 FAX: 719-520-0108

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Sheet Number

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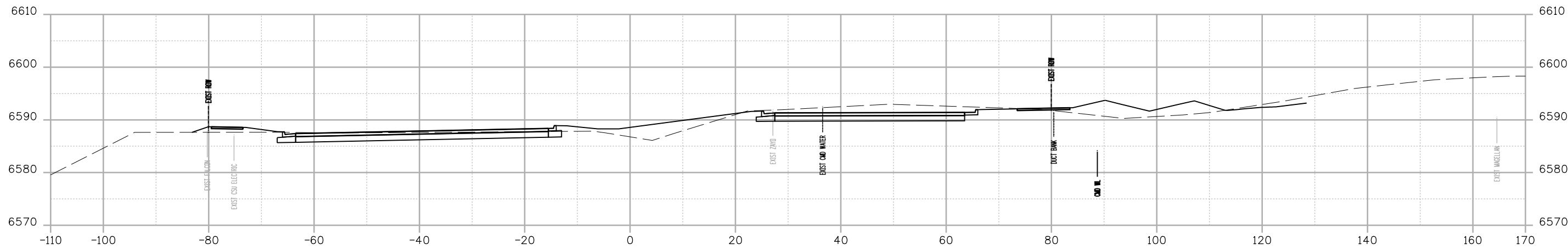
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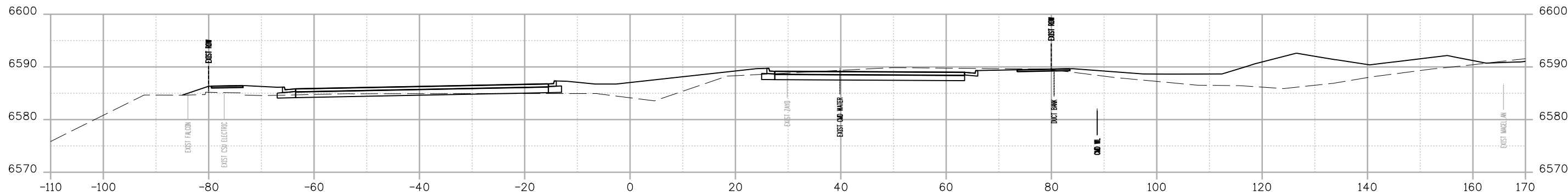
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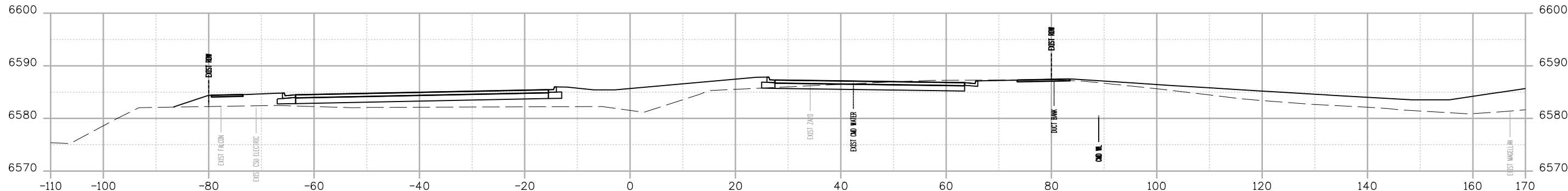
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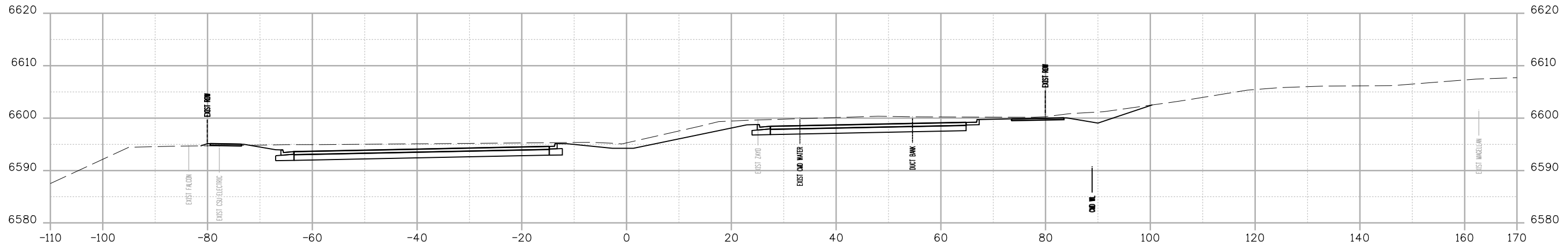


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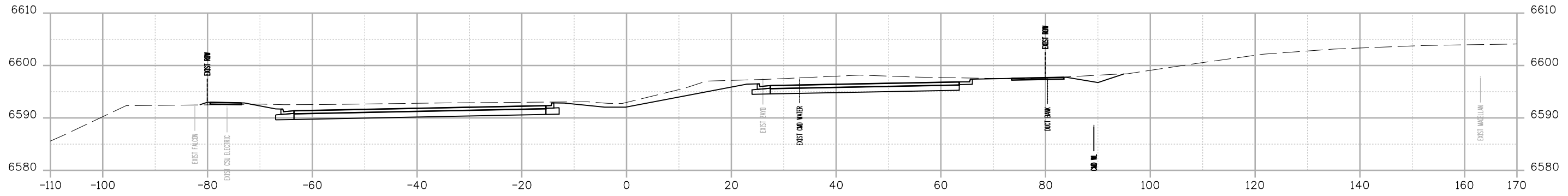
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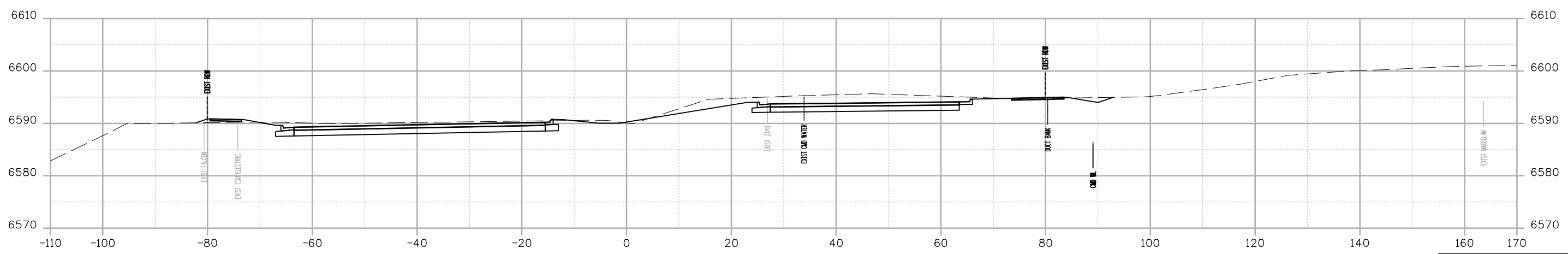
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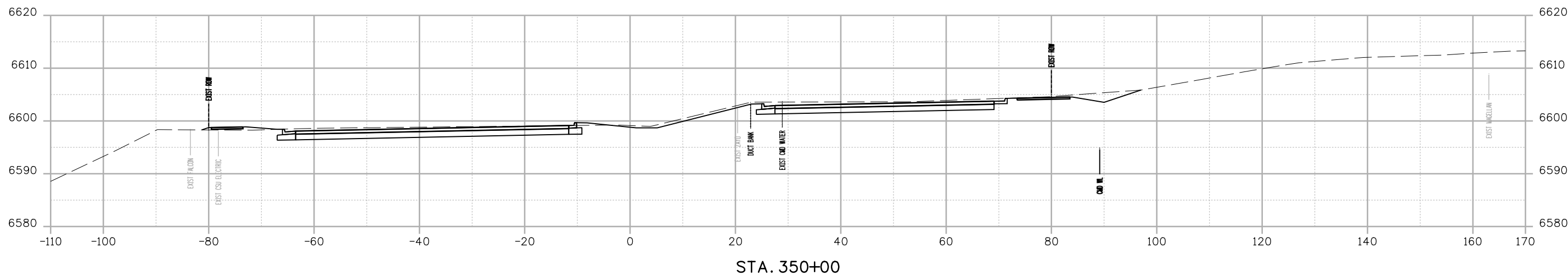
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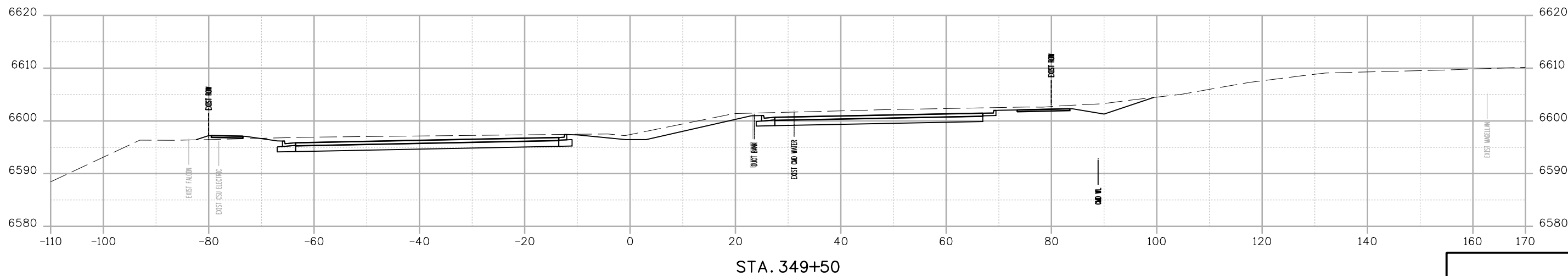
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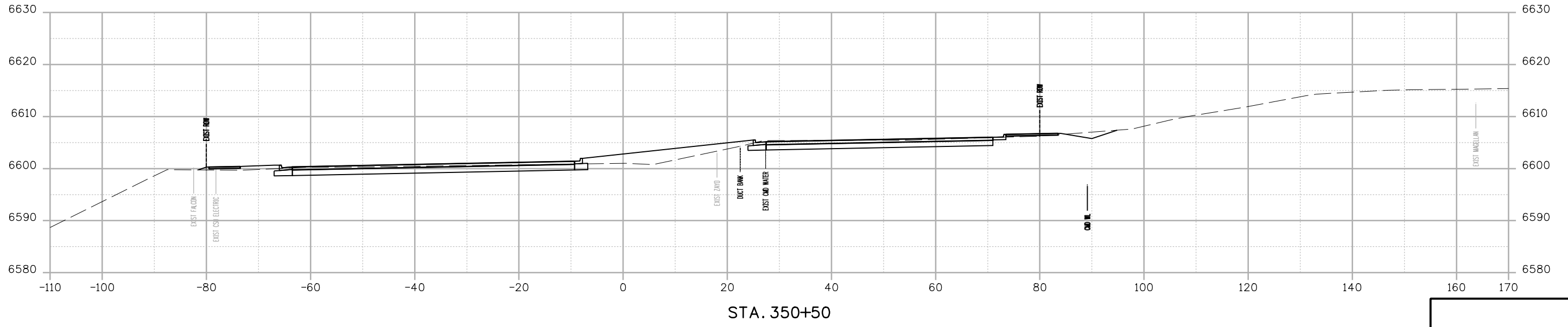
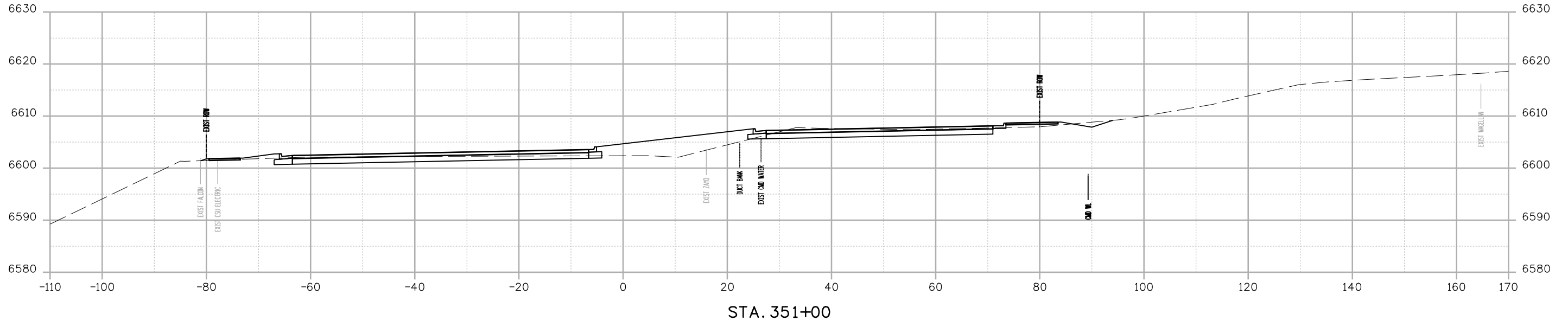
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**PPRTA**  
Pikes Peak Rural Transportation Authority



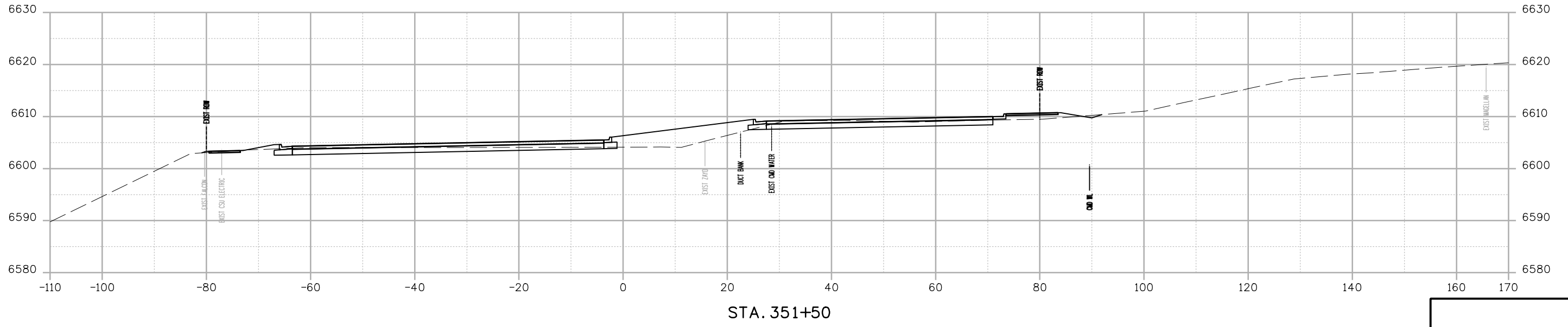
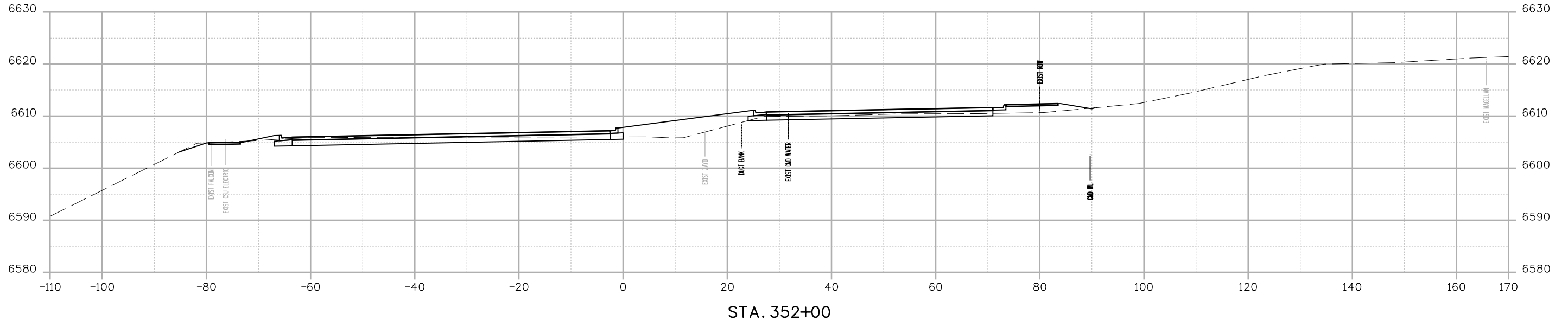
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Project No./Code    PPRTA    10444

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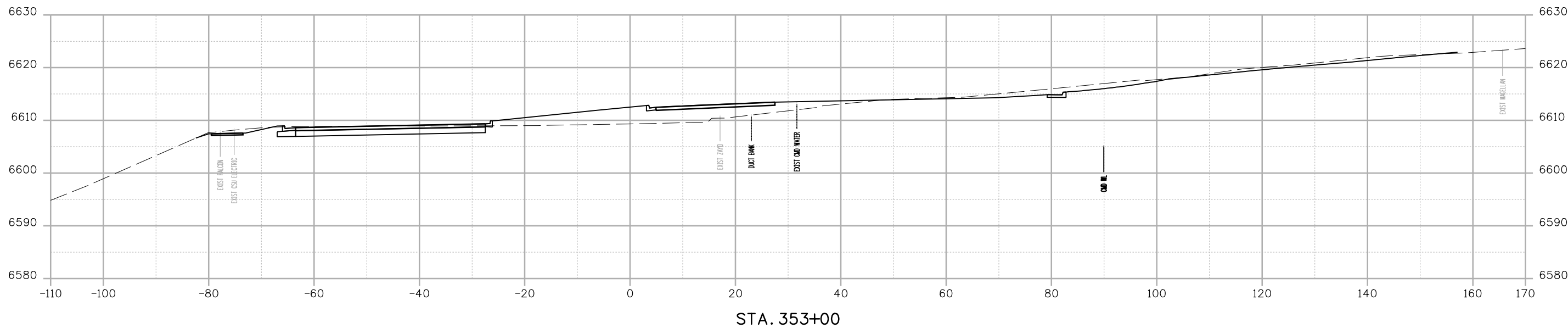
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 FAX: 719-520-0108

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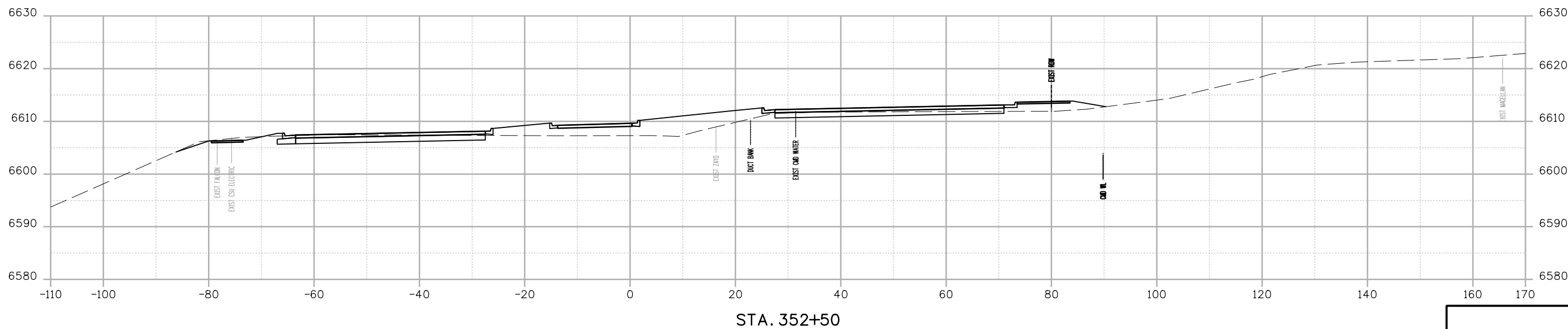
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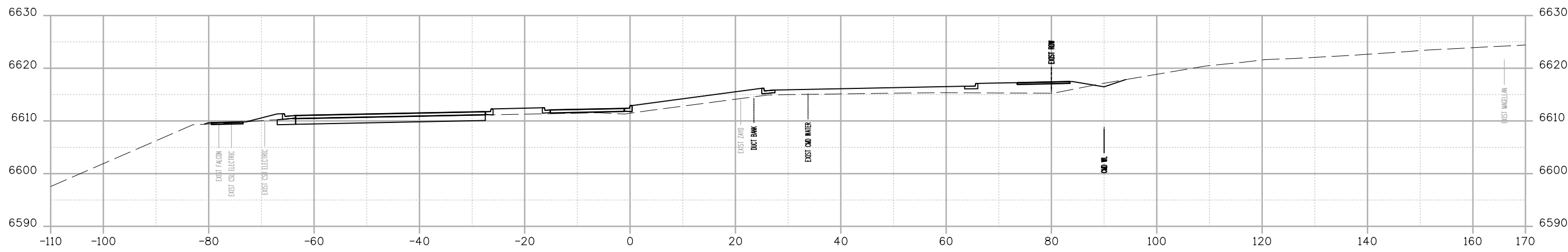
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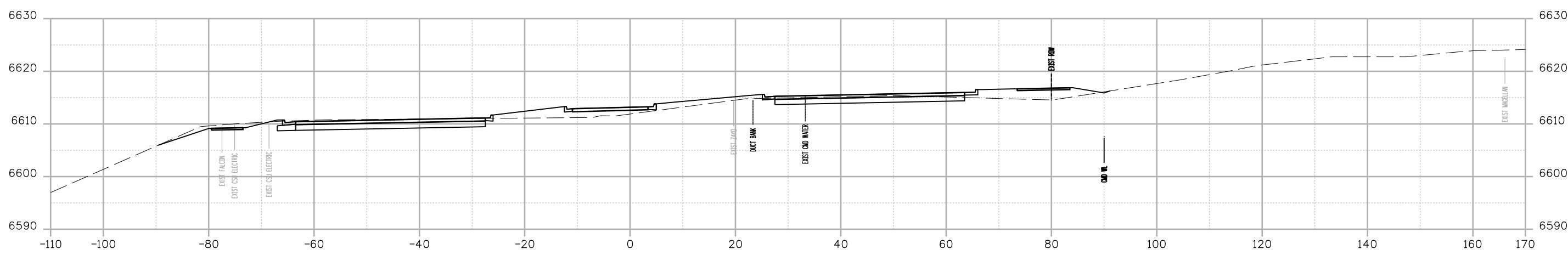
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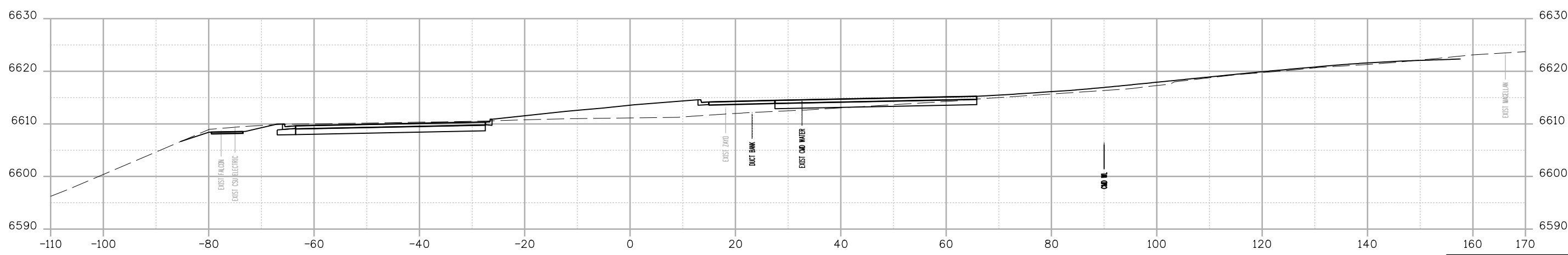
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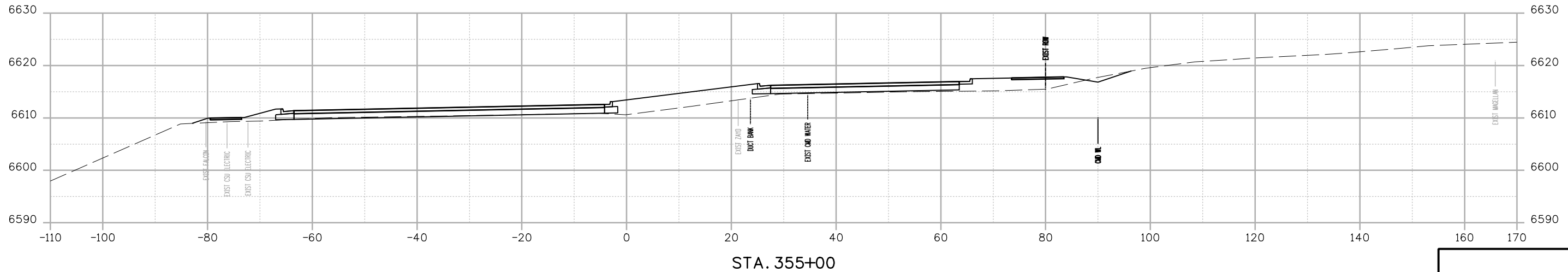
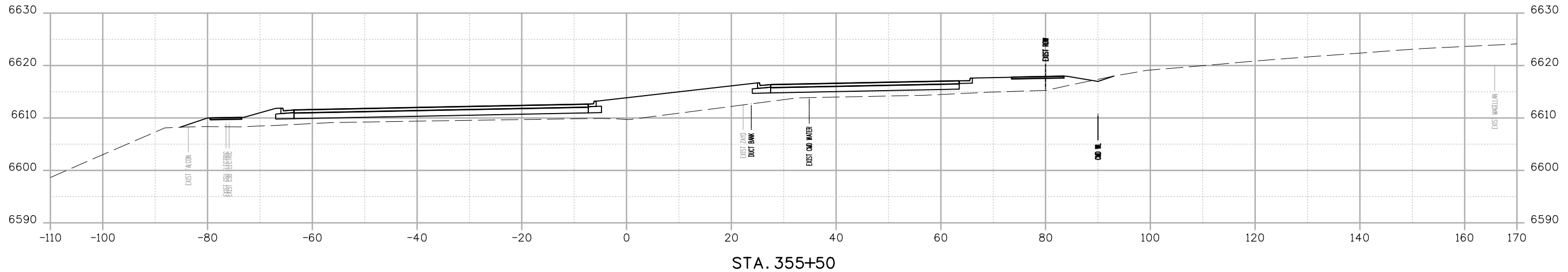
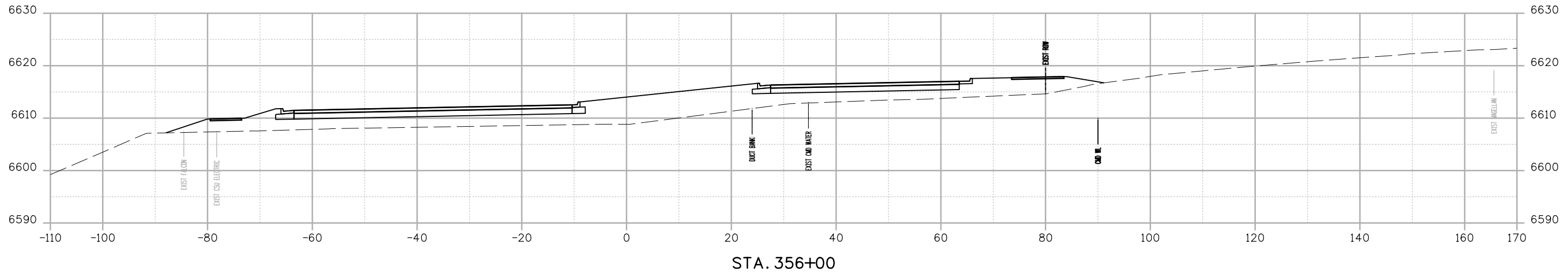
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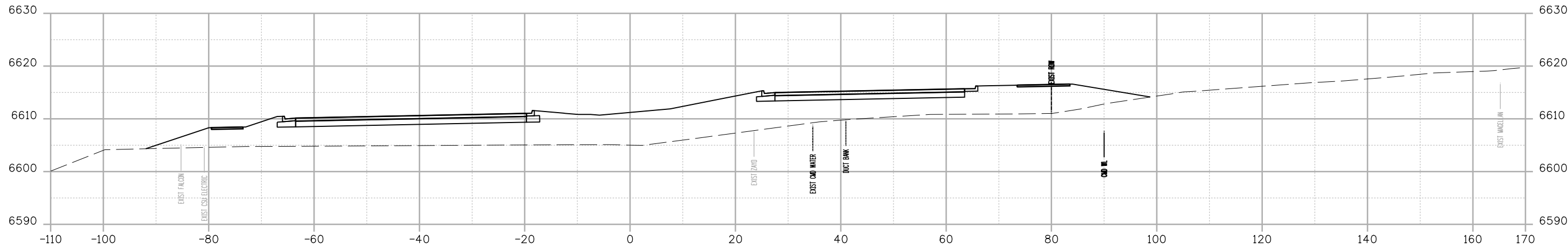
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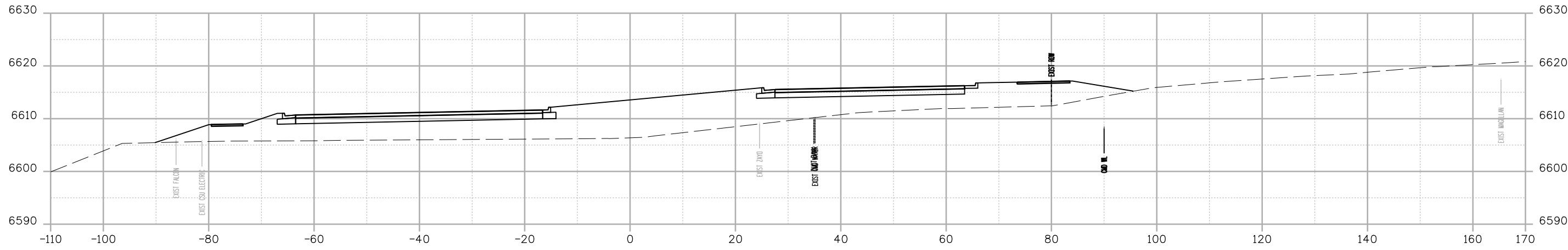
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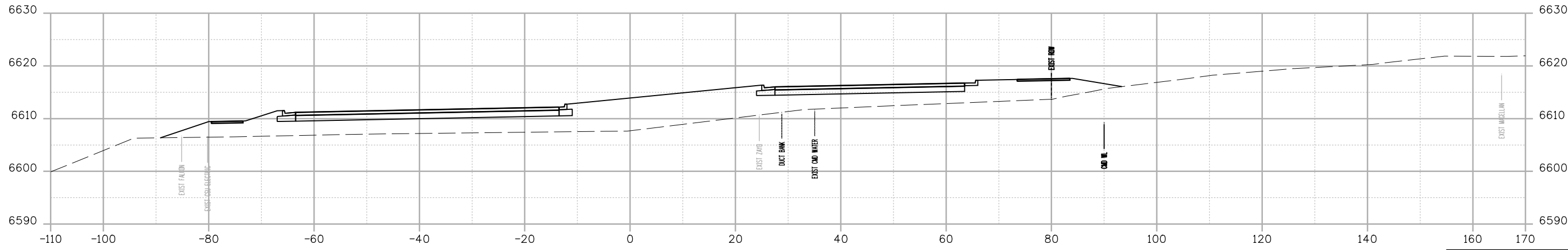
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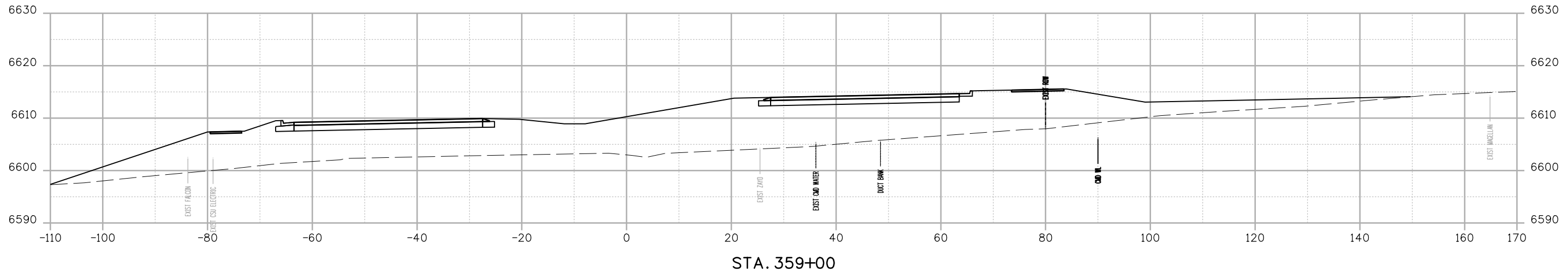
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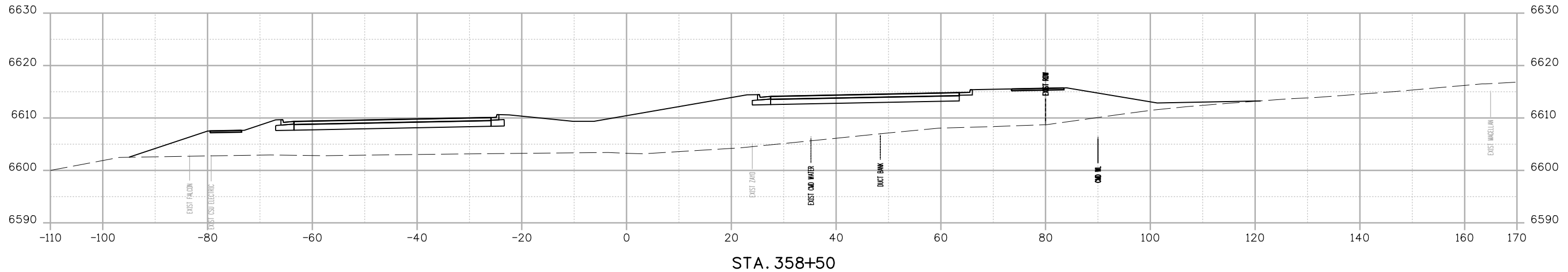
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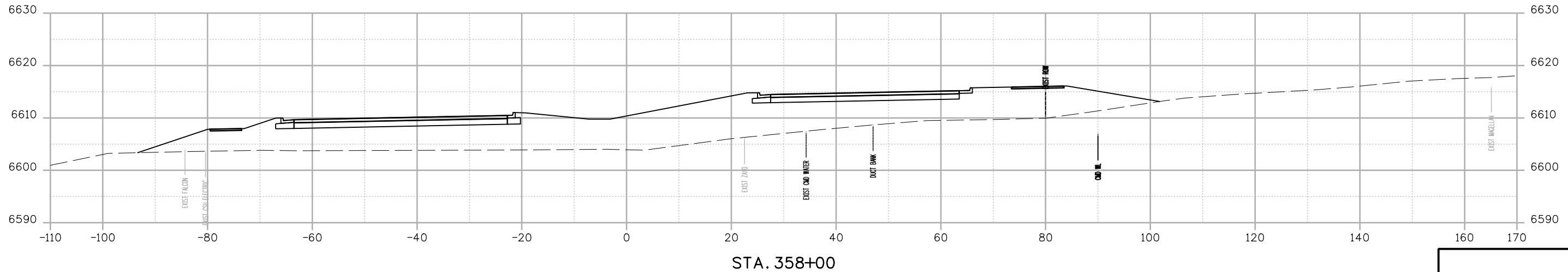
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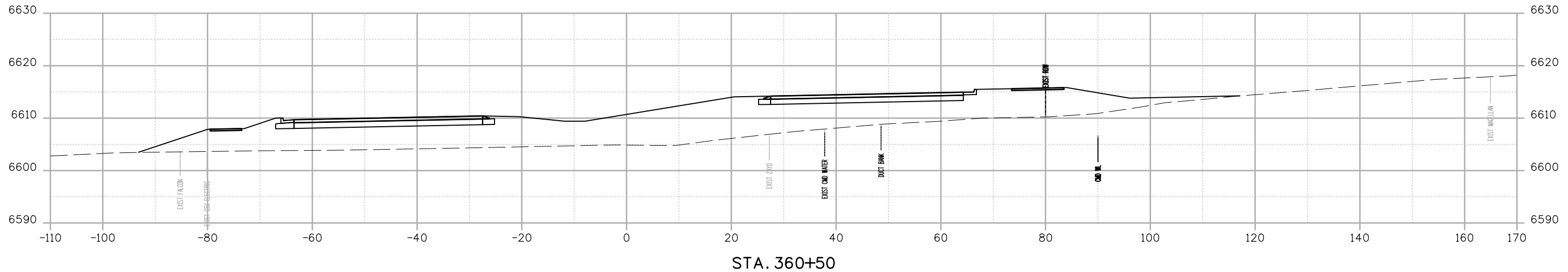
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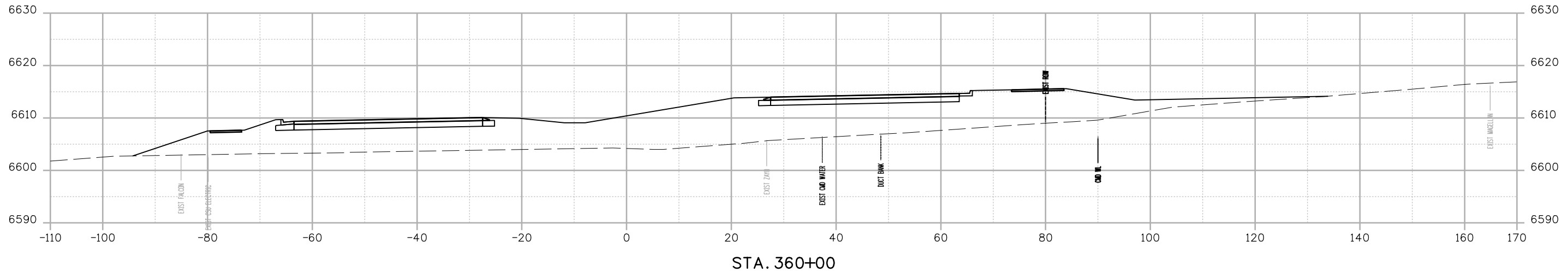
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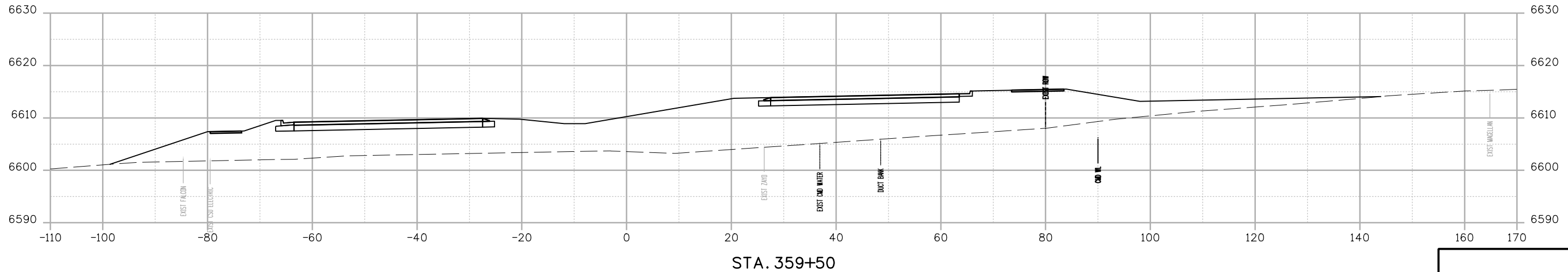
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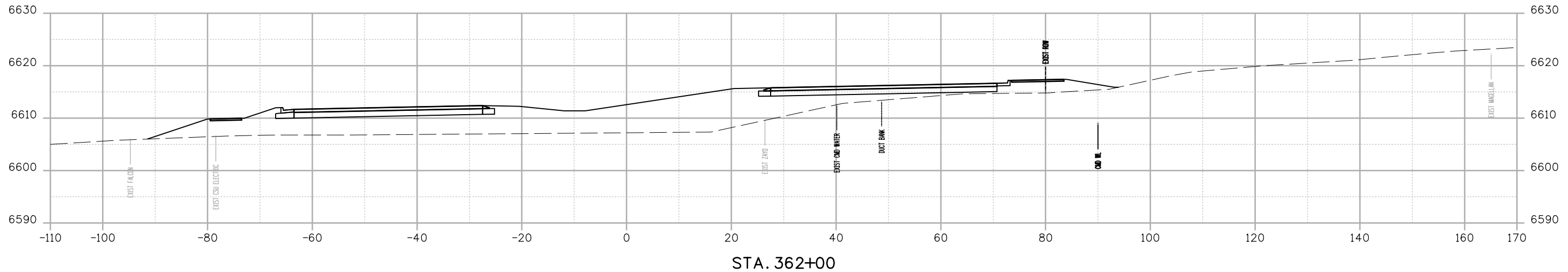
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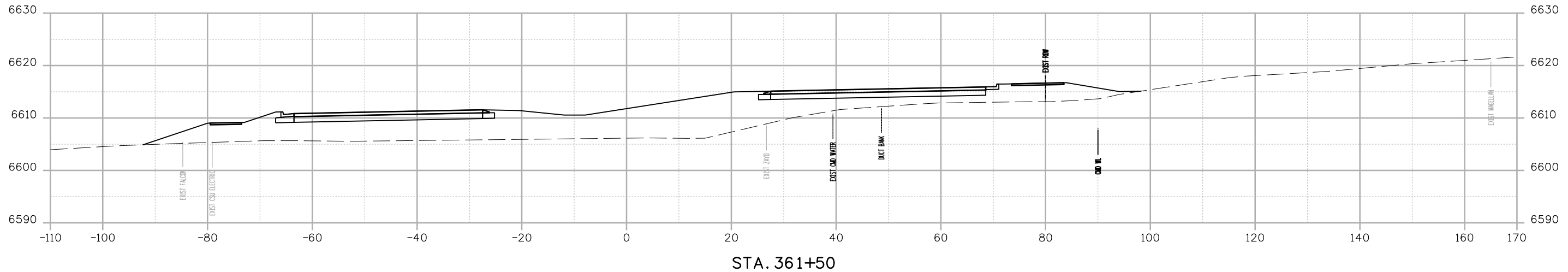
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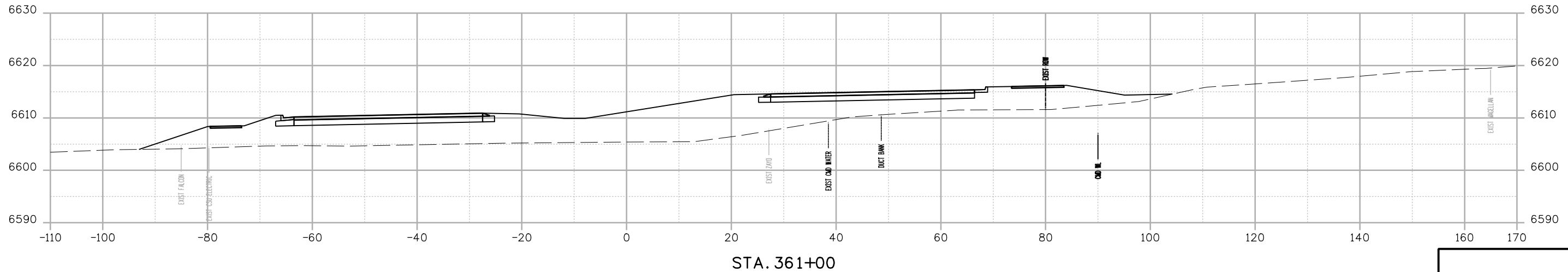
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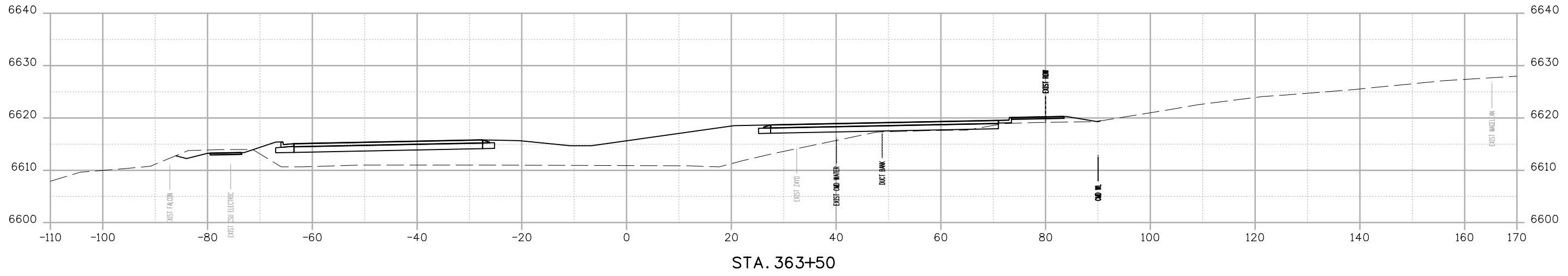
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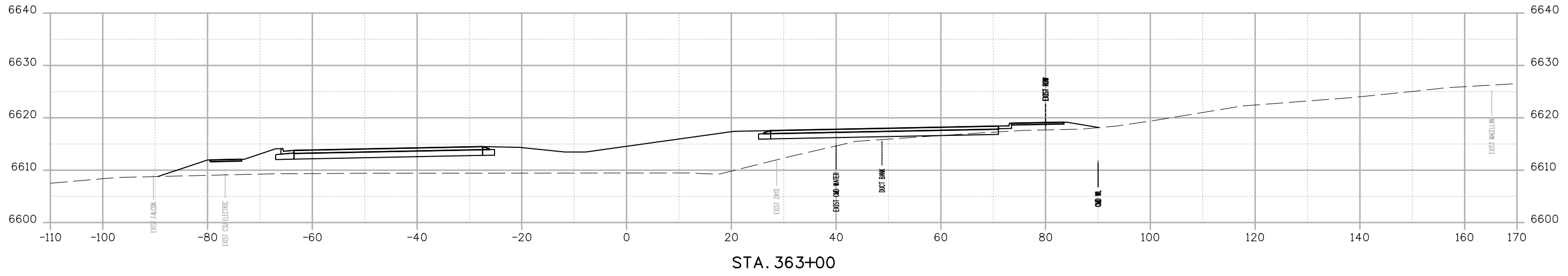
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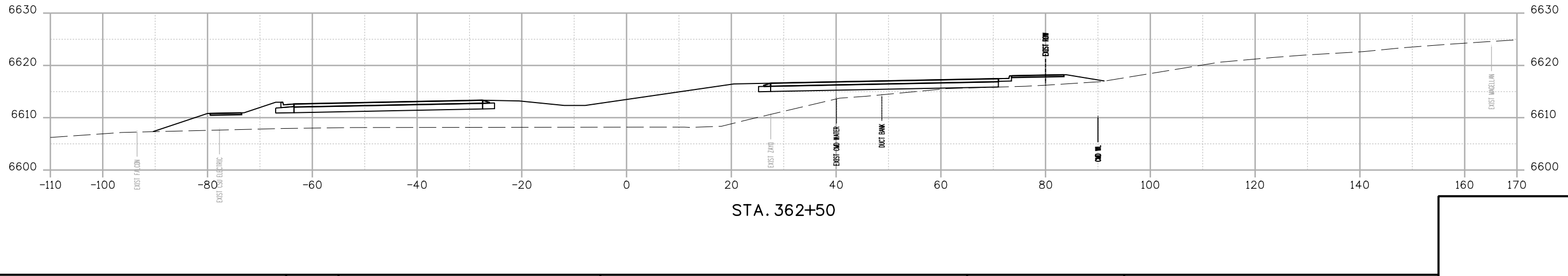
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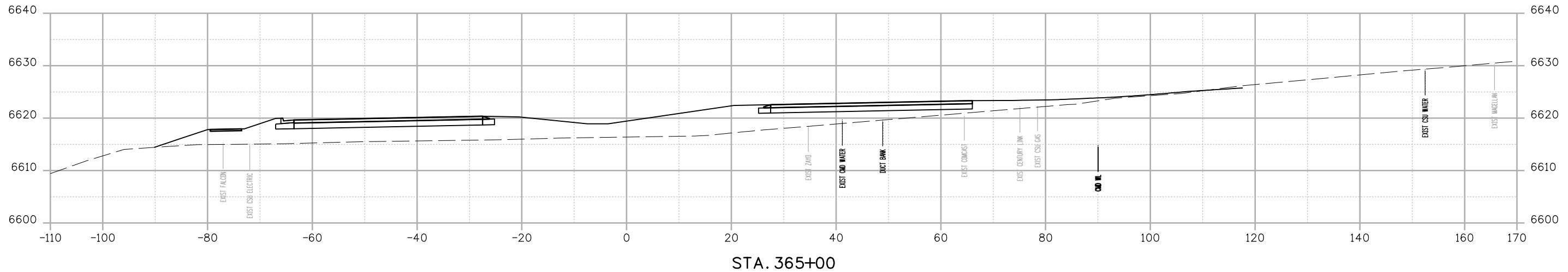
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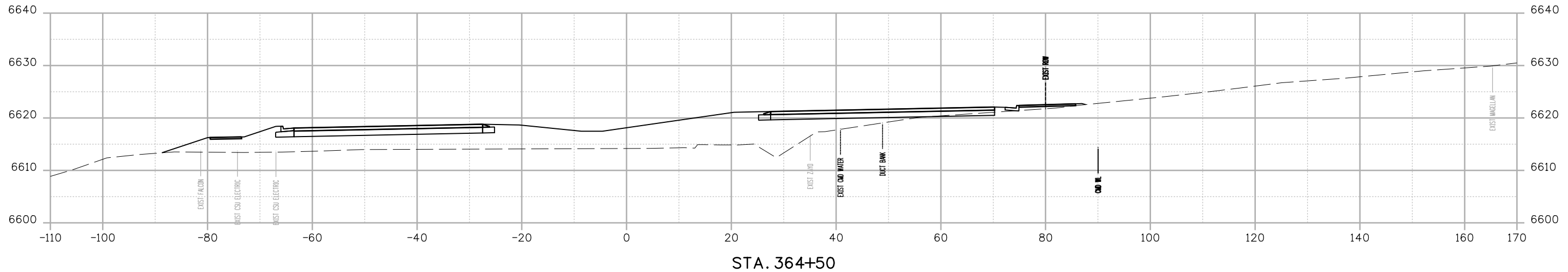
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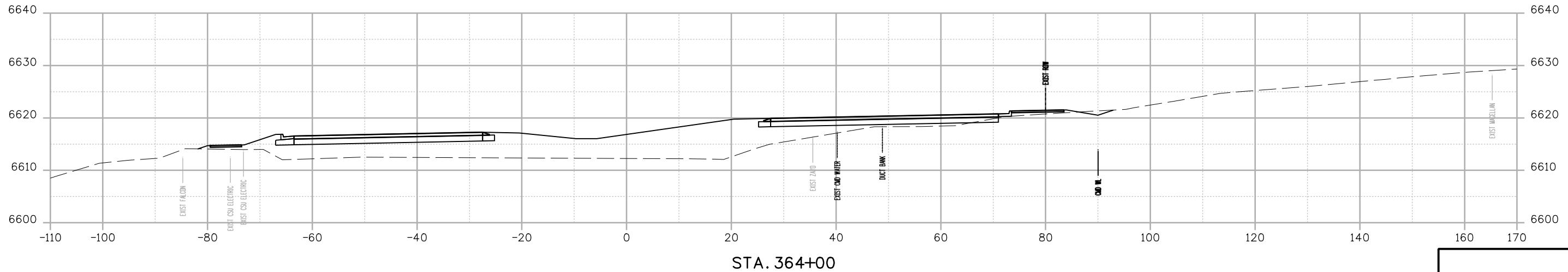
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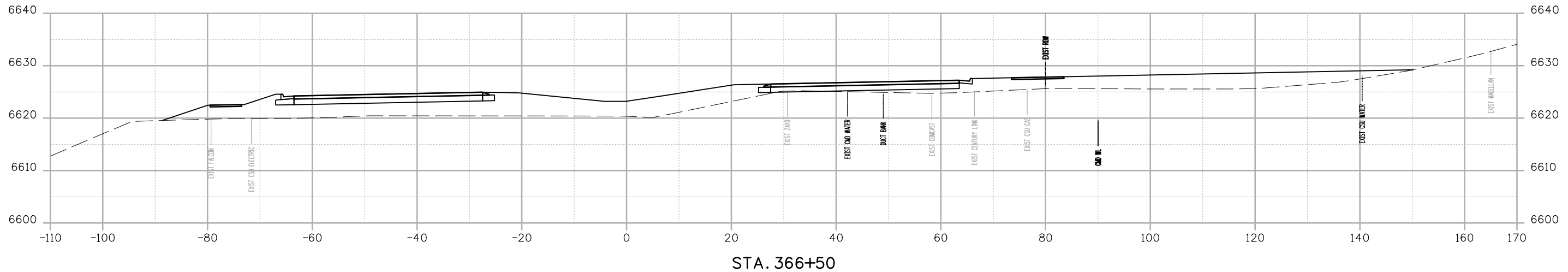


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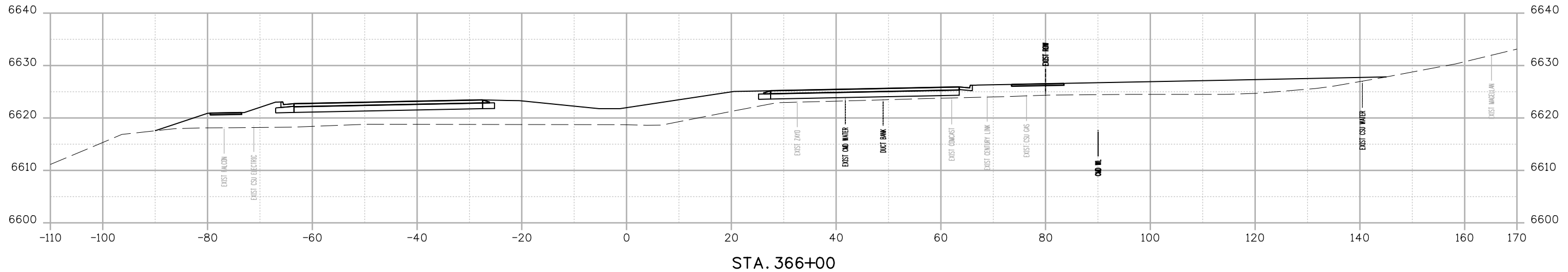
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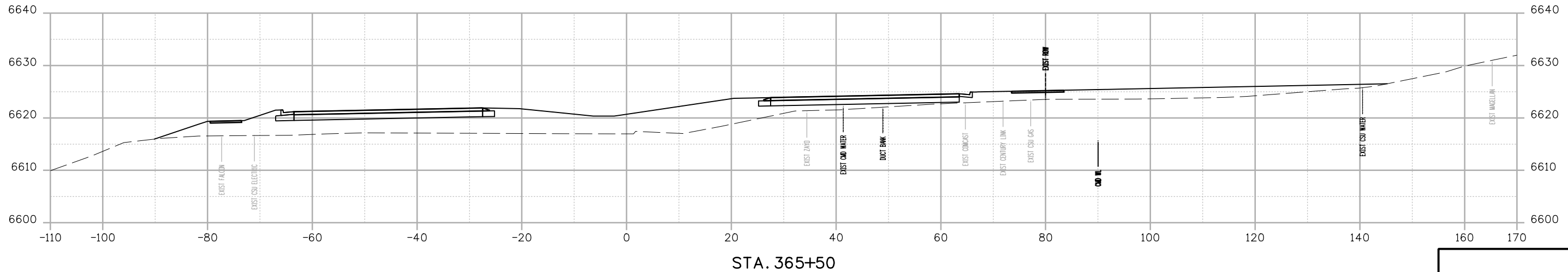
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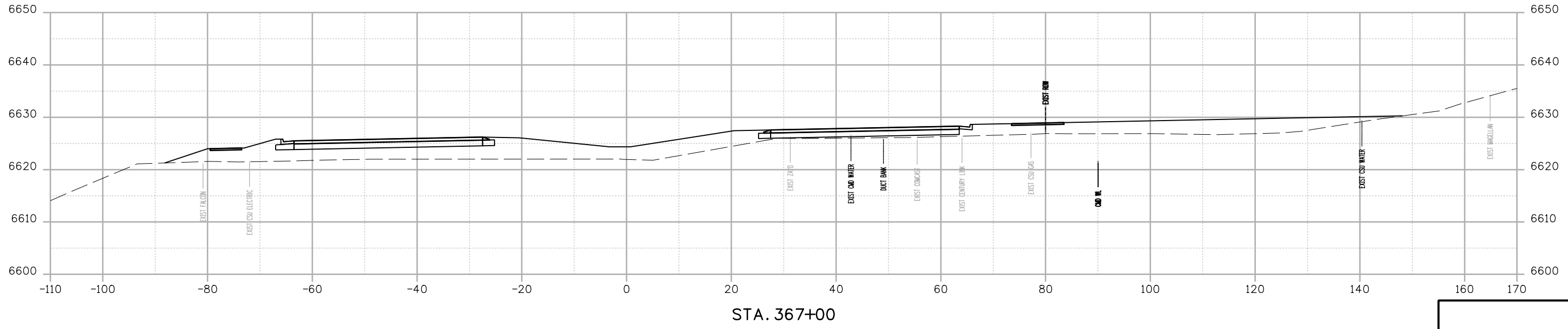
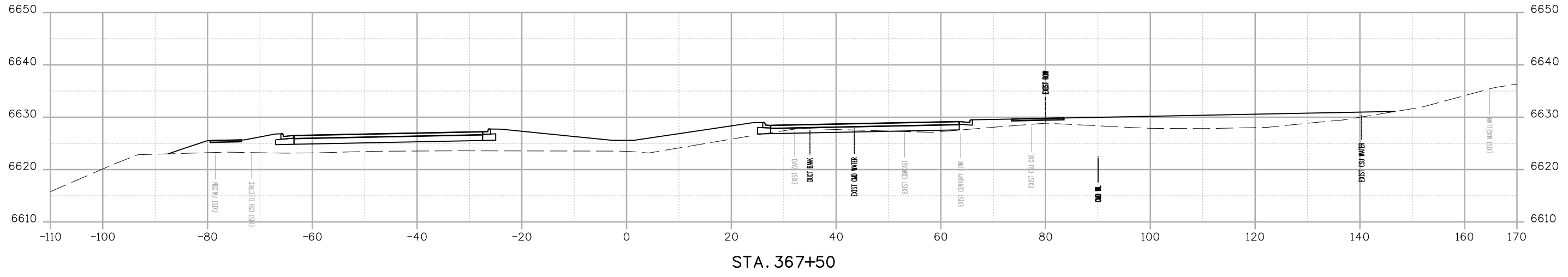


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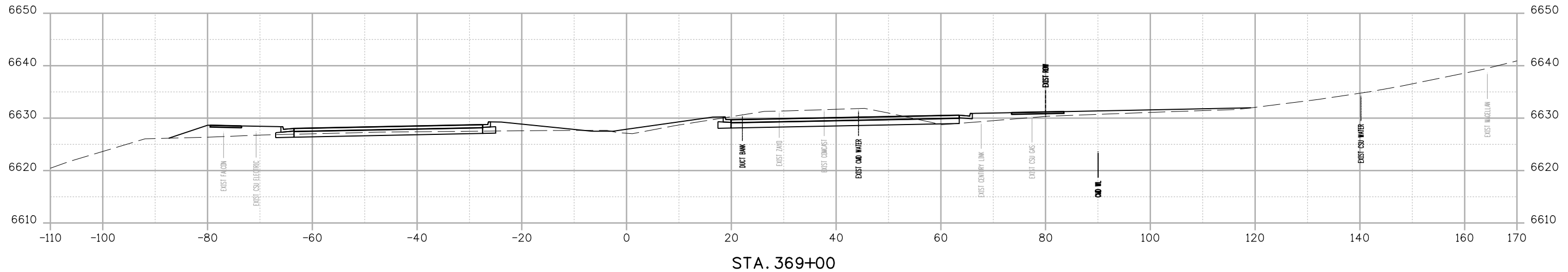
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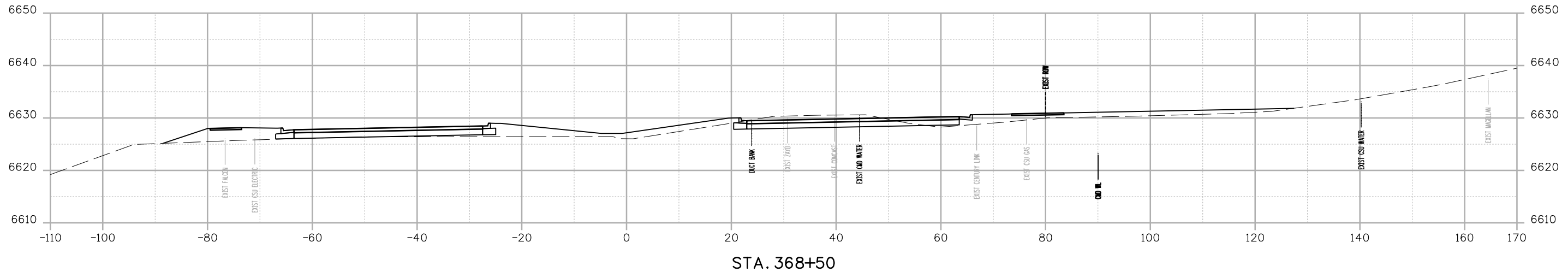
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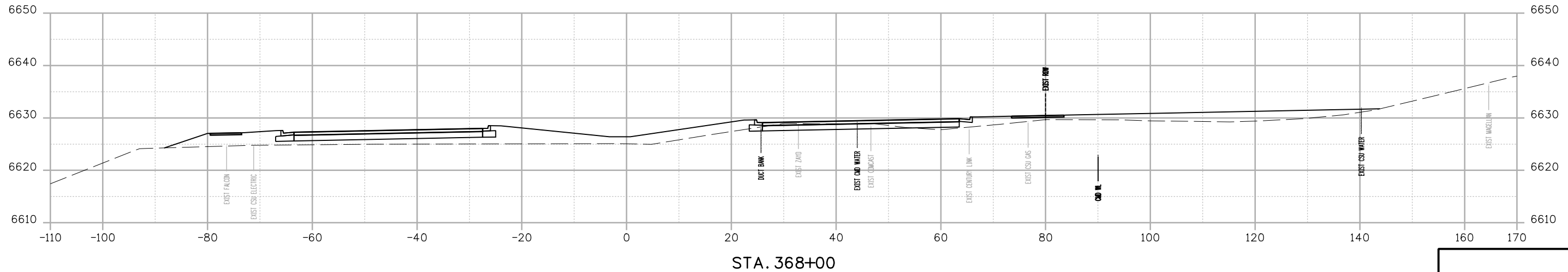
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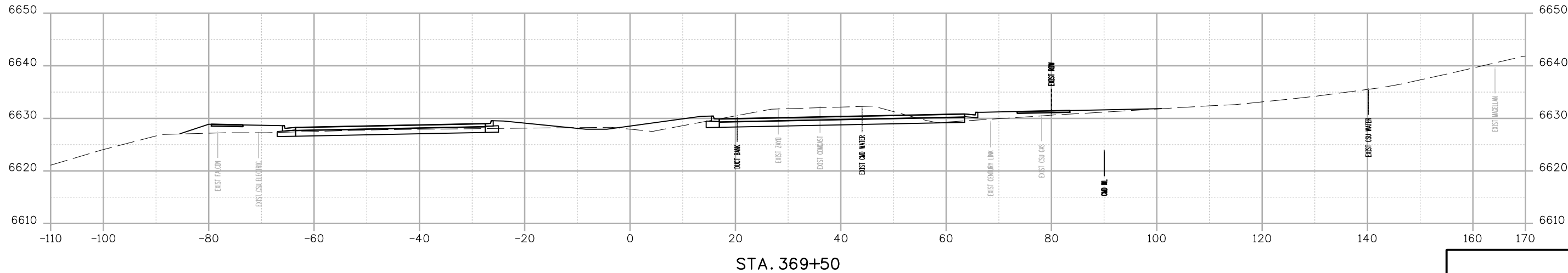
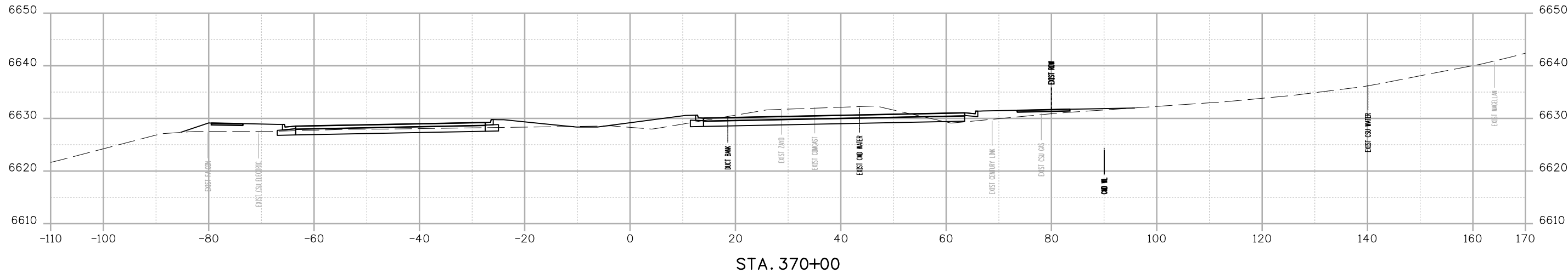
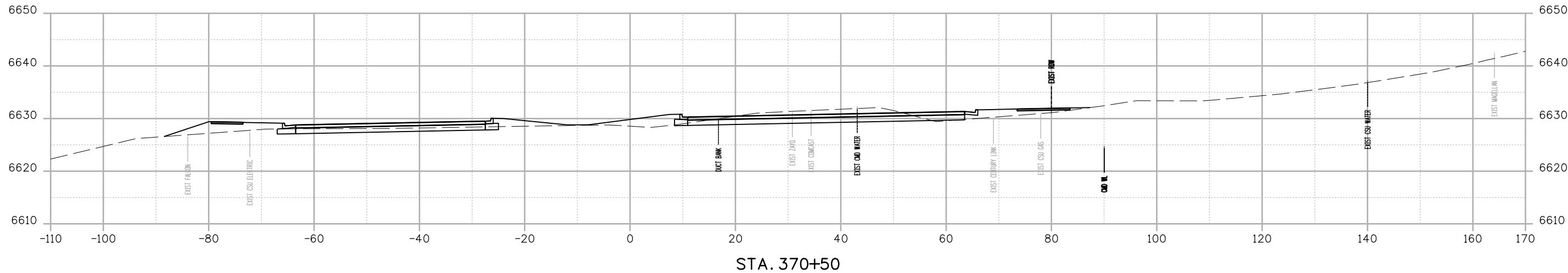
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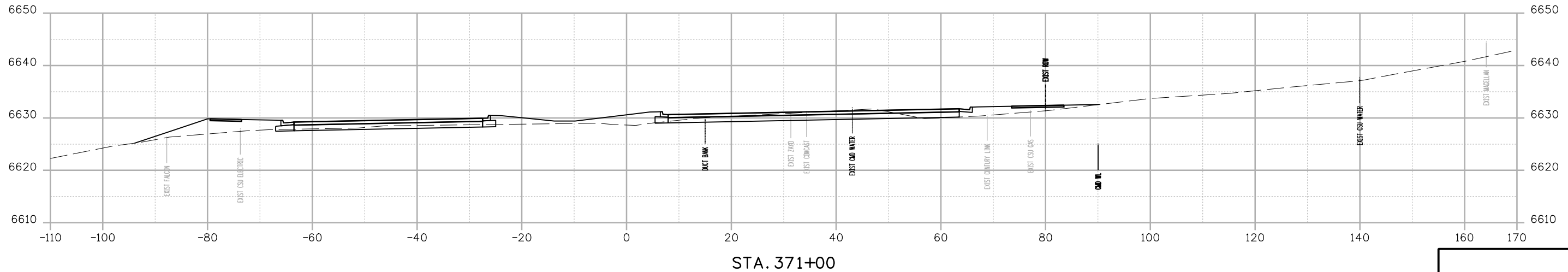
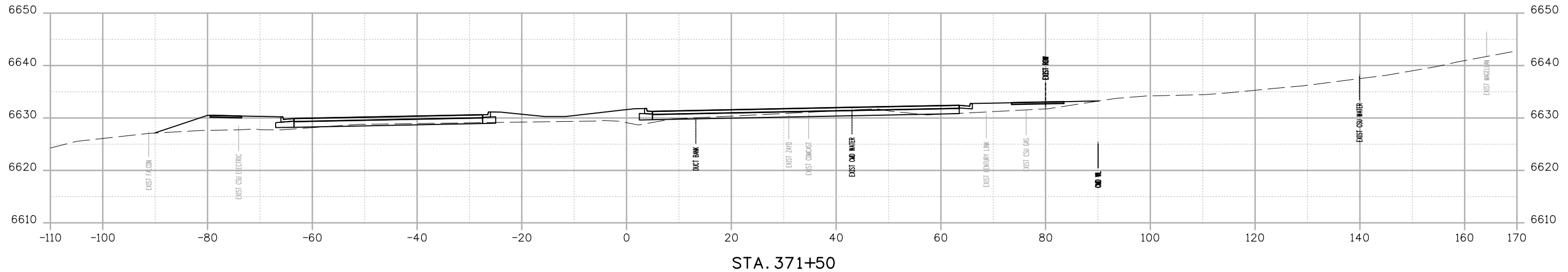
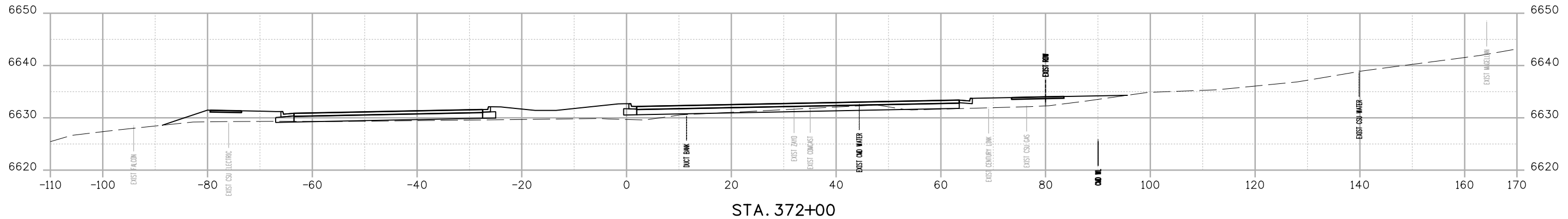
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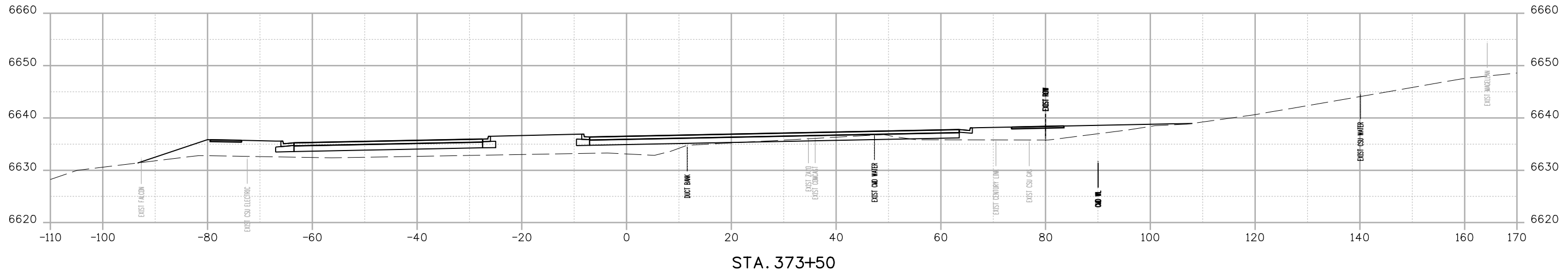




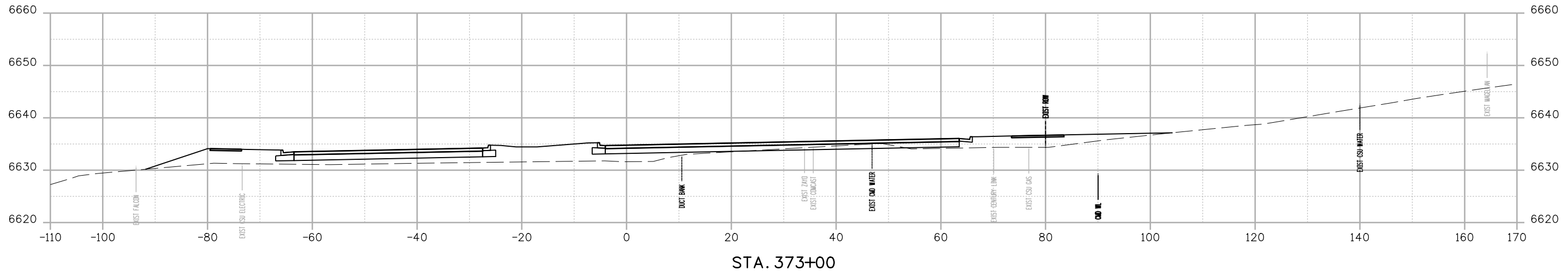
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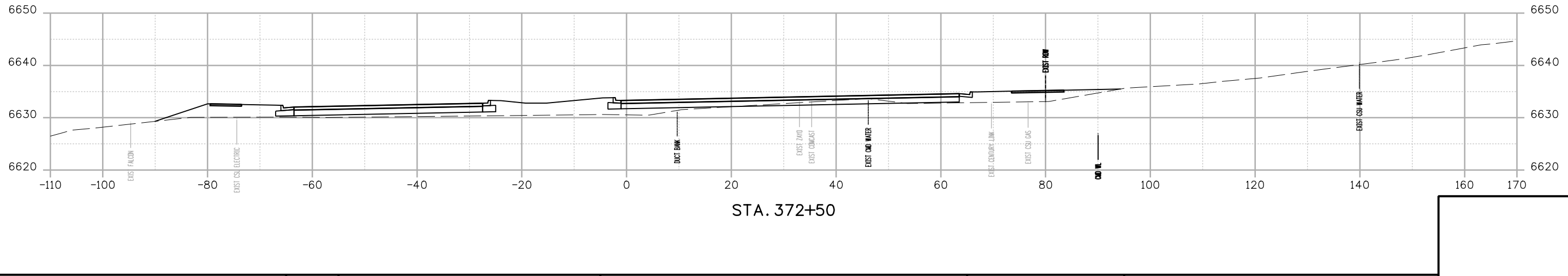
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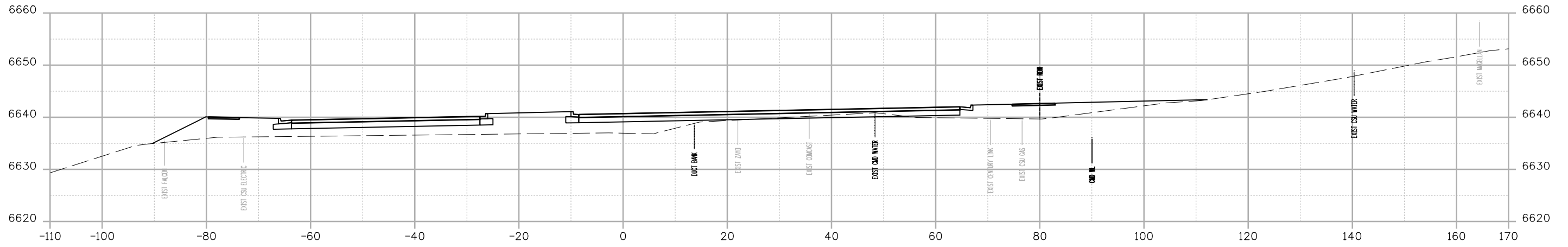
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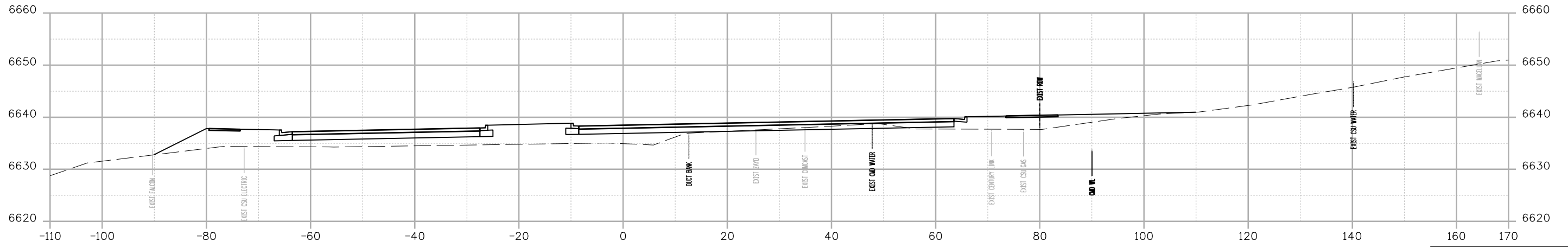
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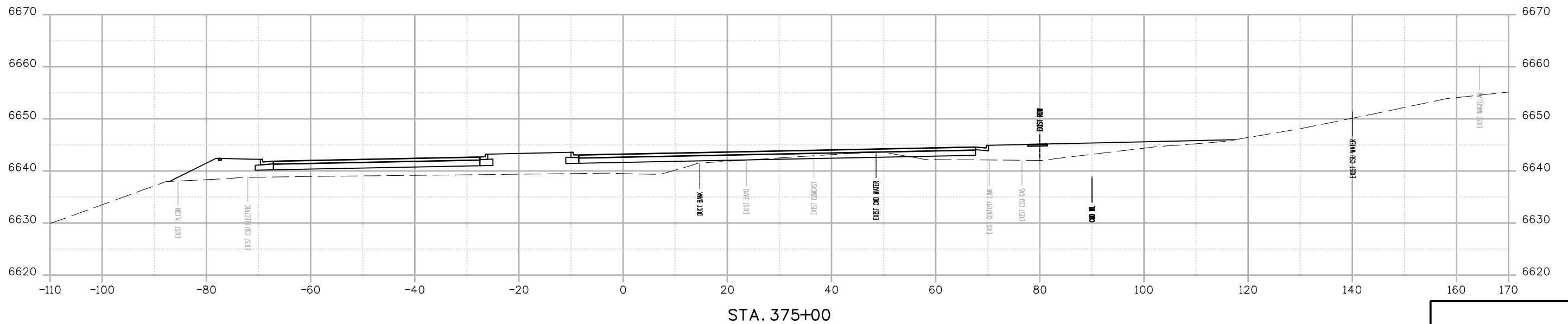
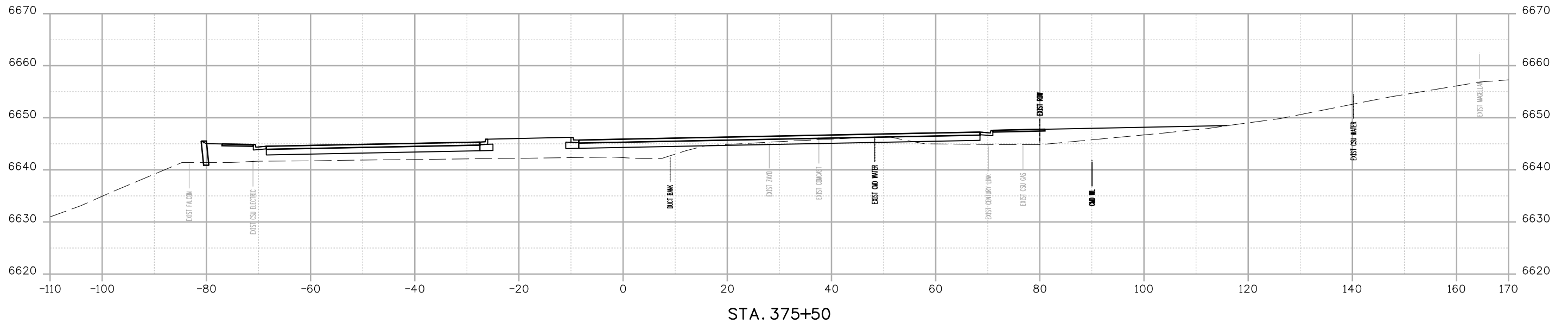
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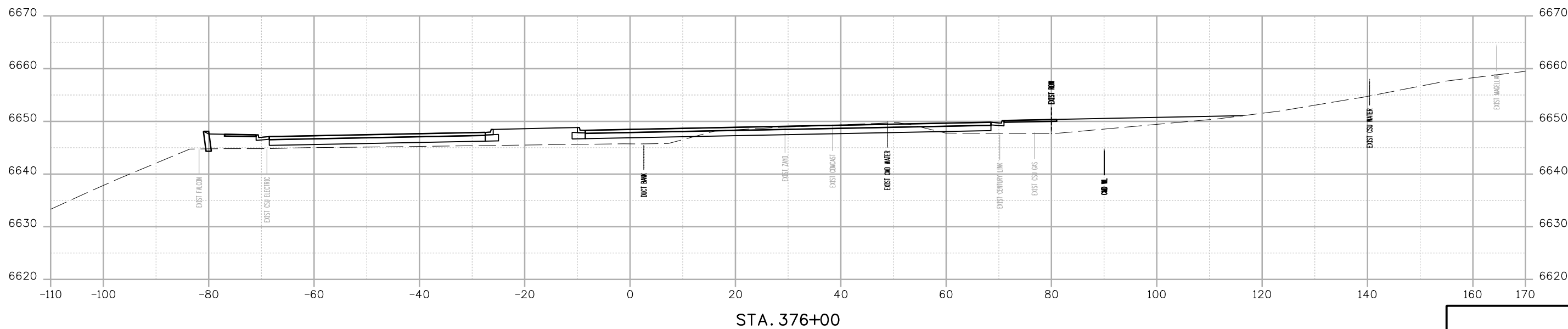
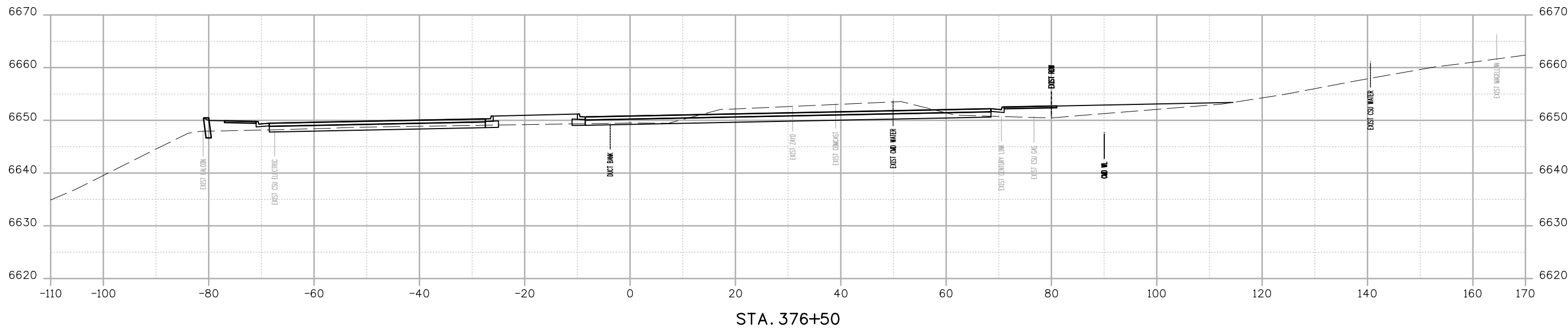
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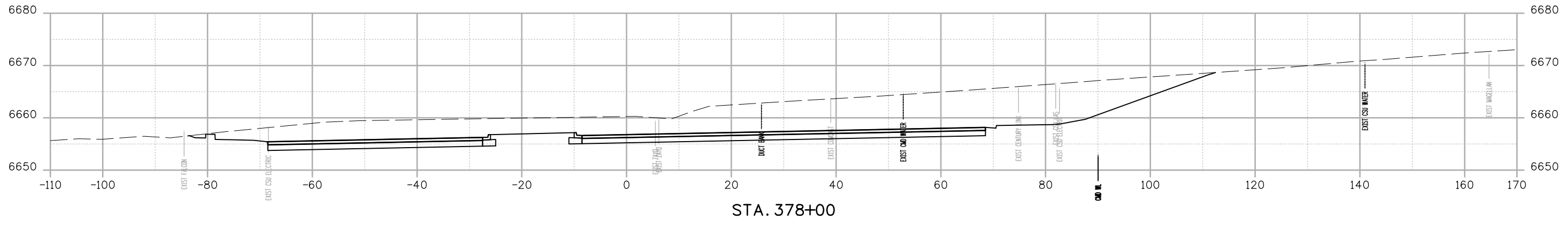
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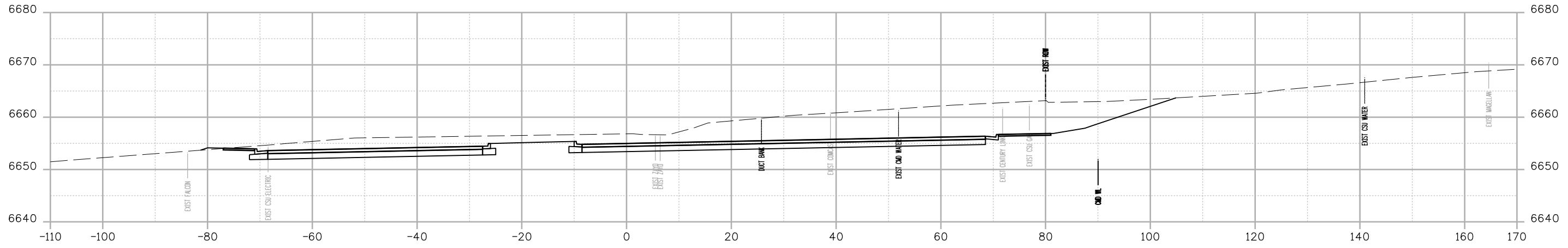
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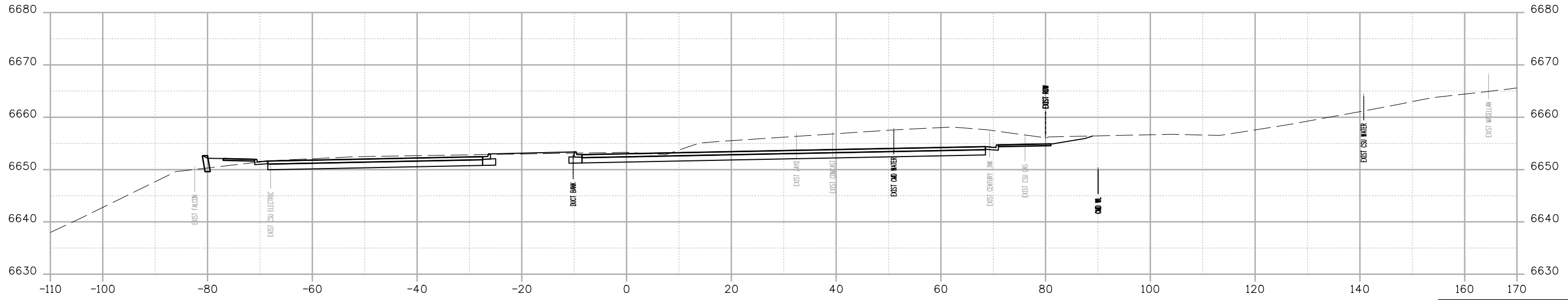
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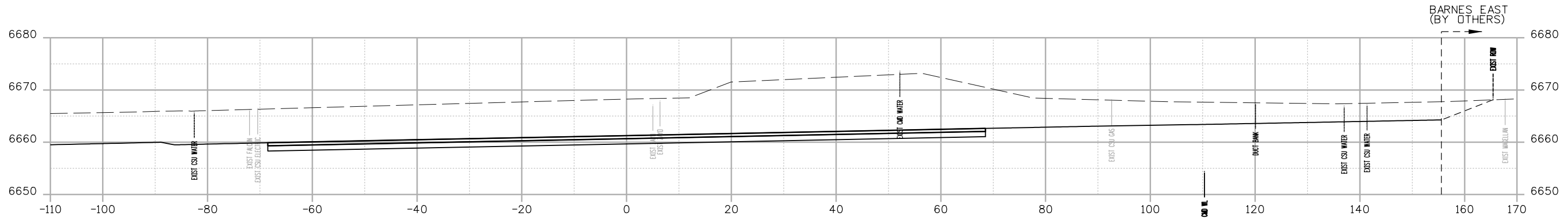
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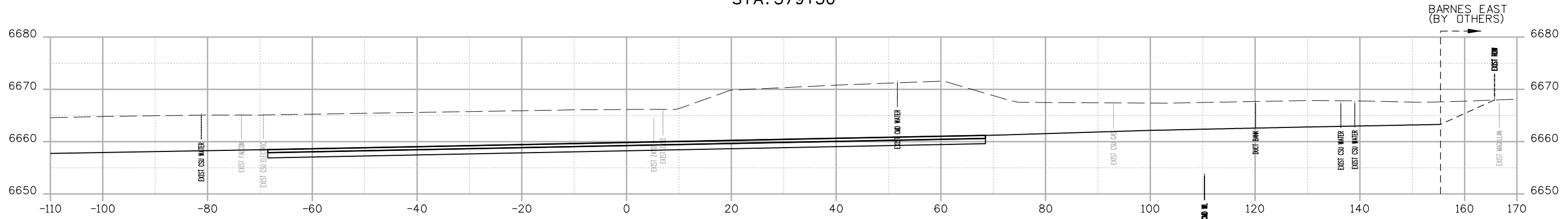
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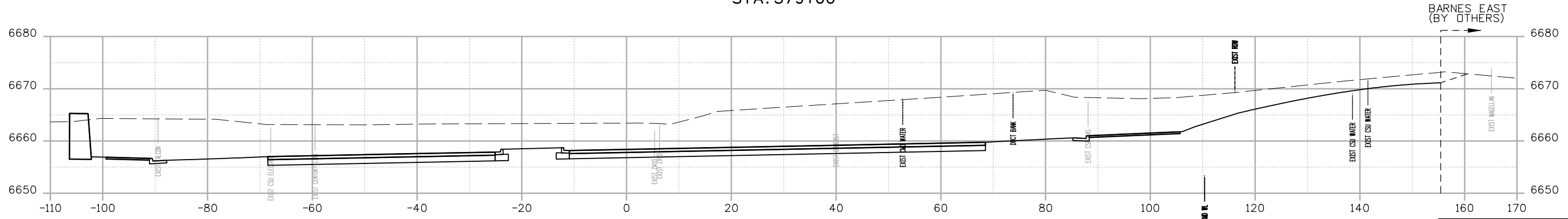
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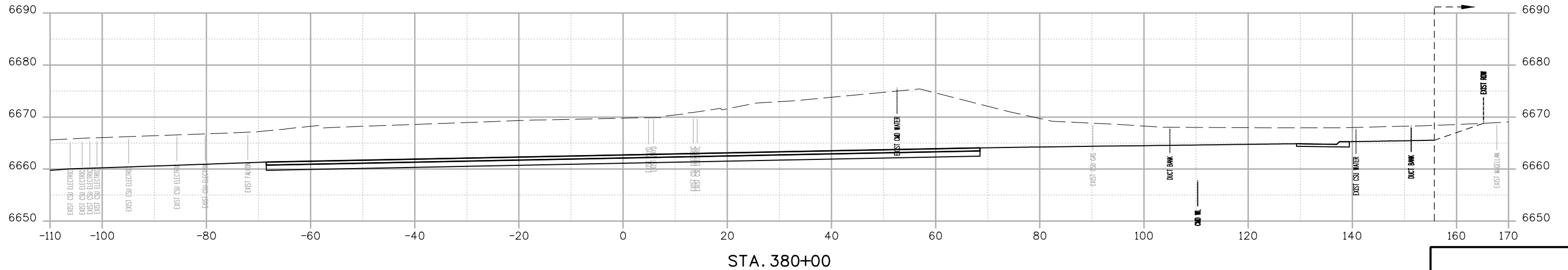
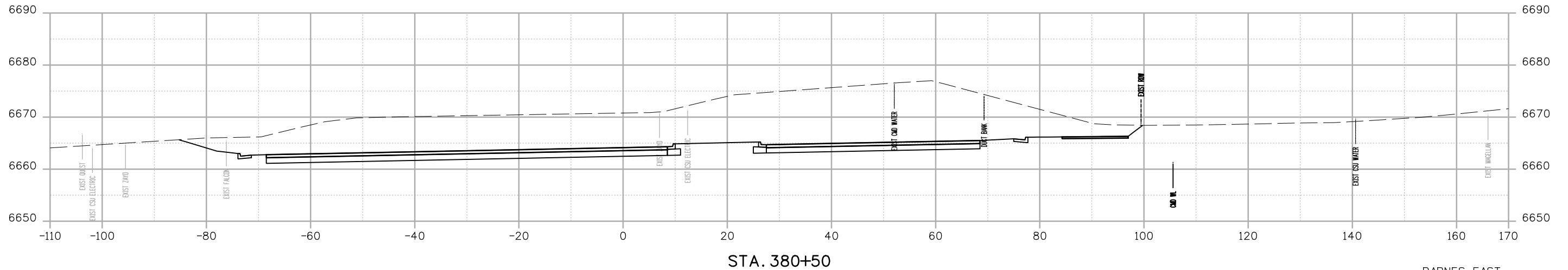
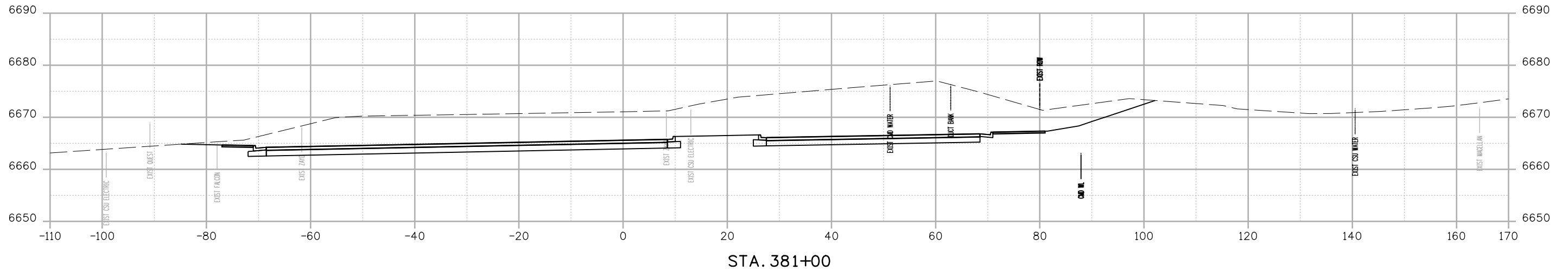
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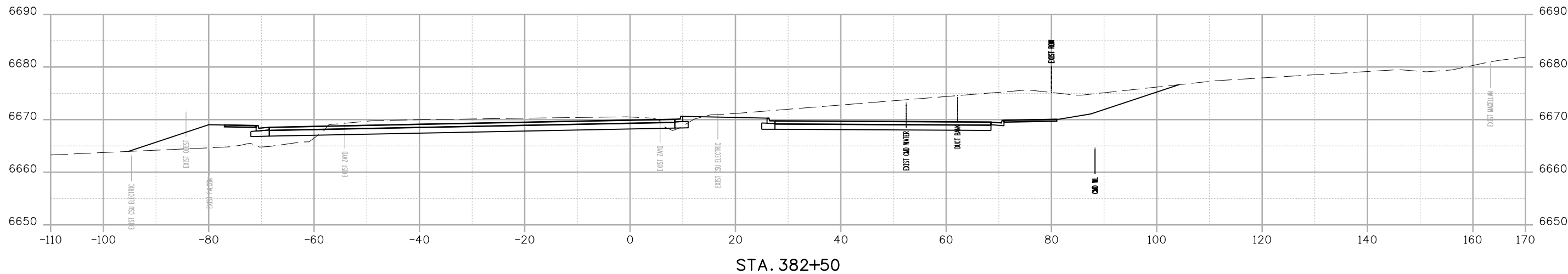
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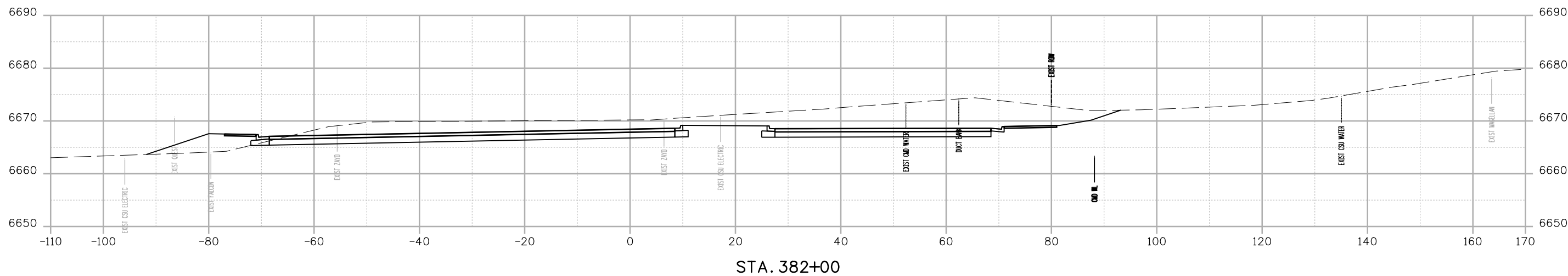
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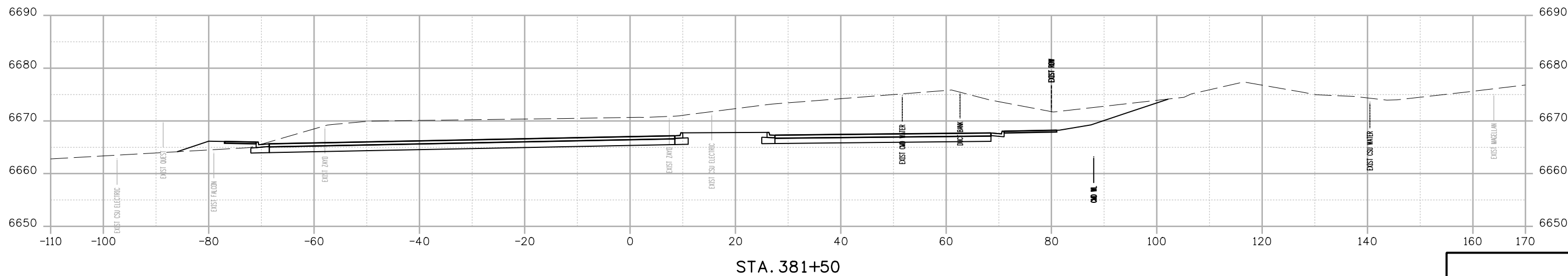
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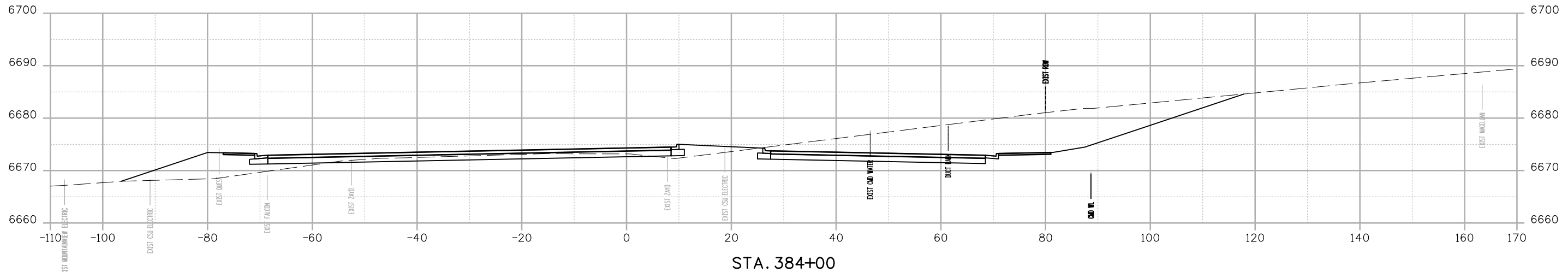


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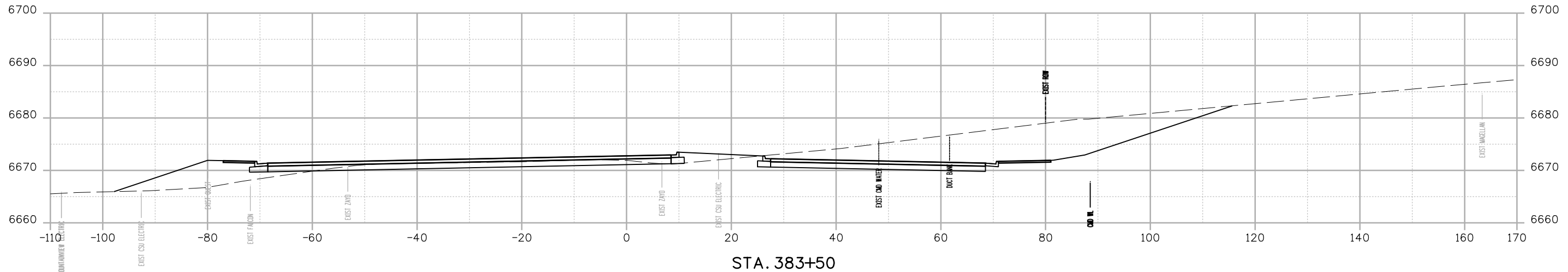
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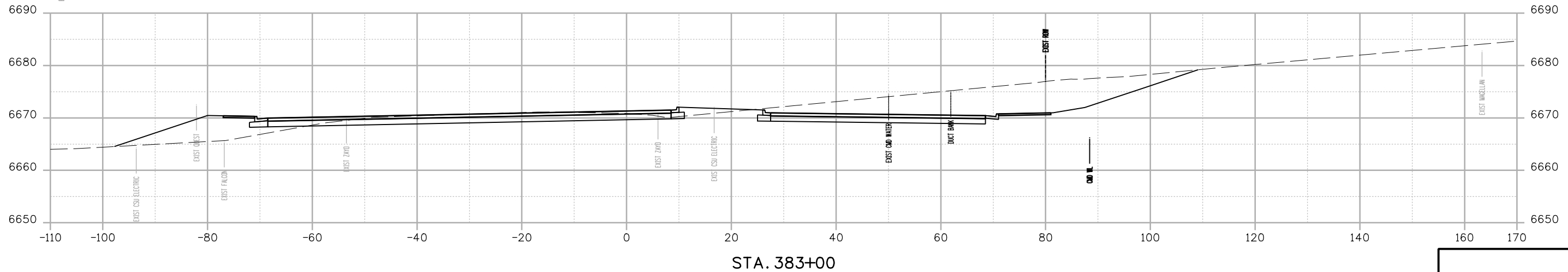
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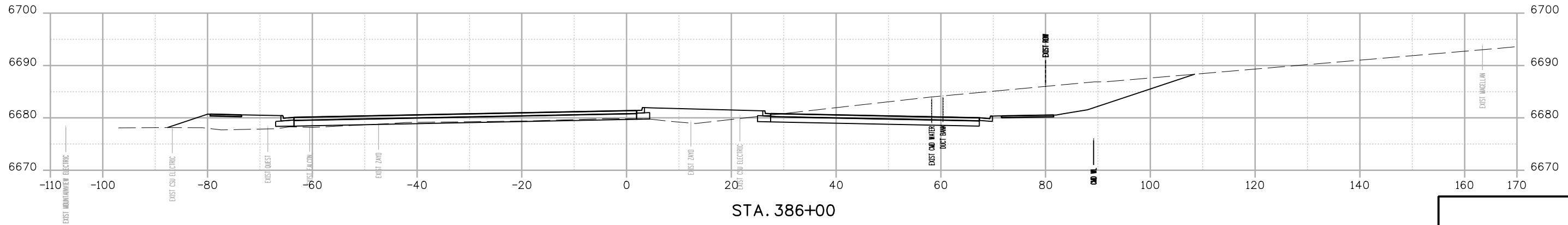
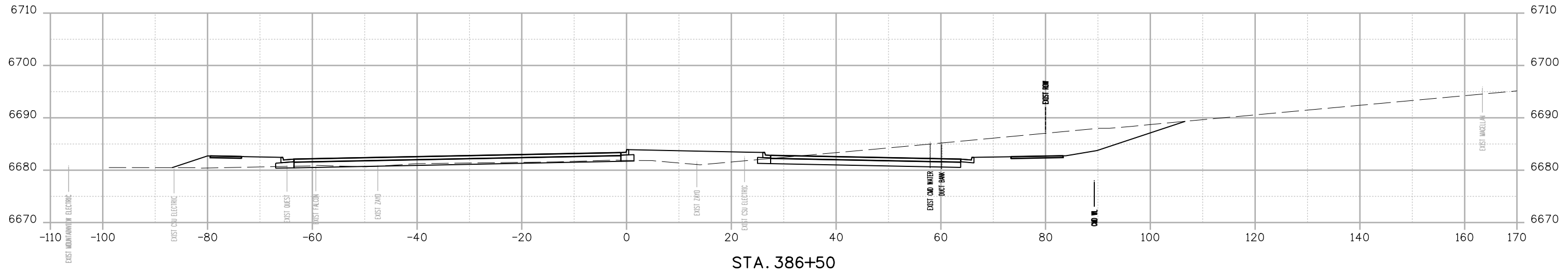
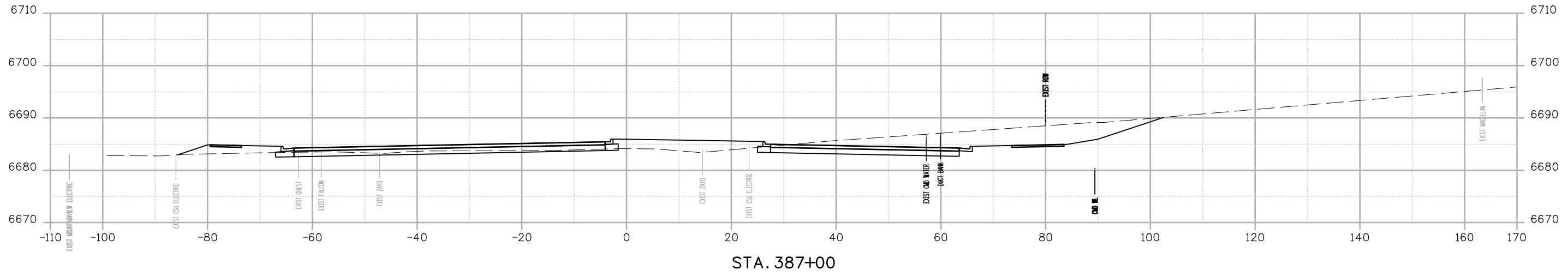
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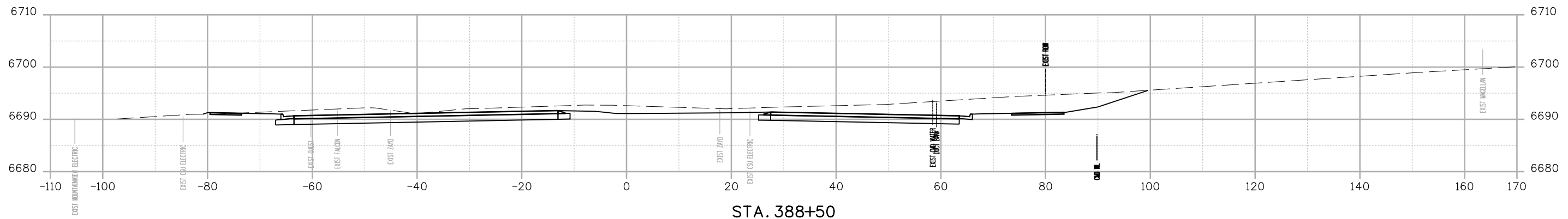
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Pikes Peak Rural Transportation Authority

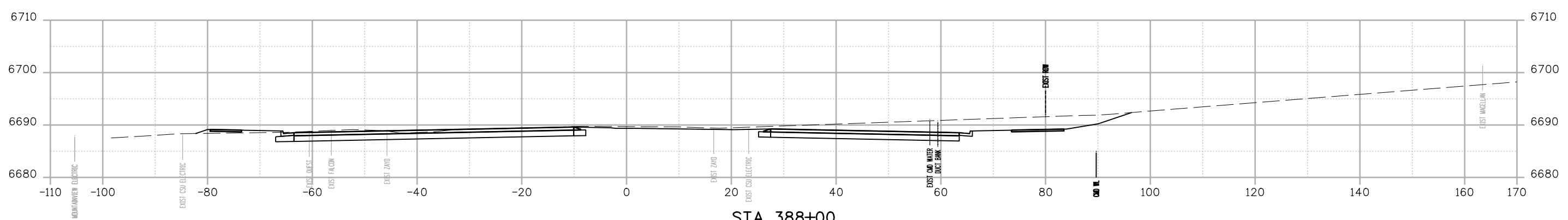
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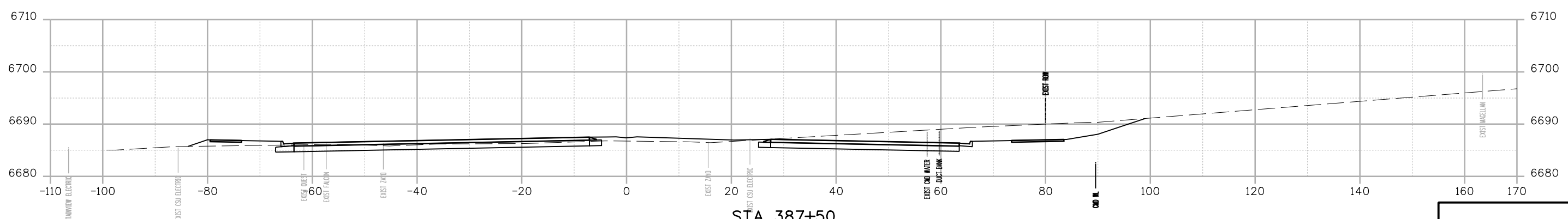
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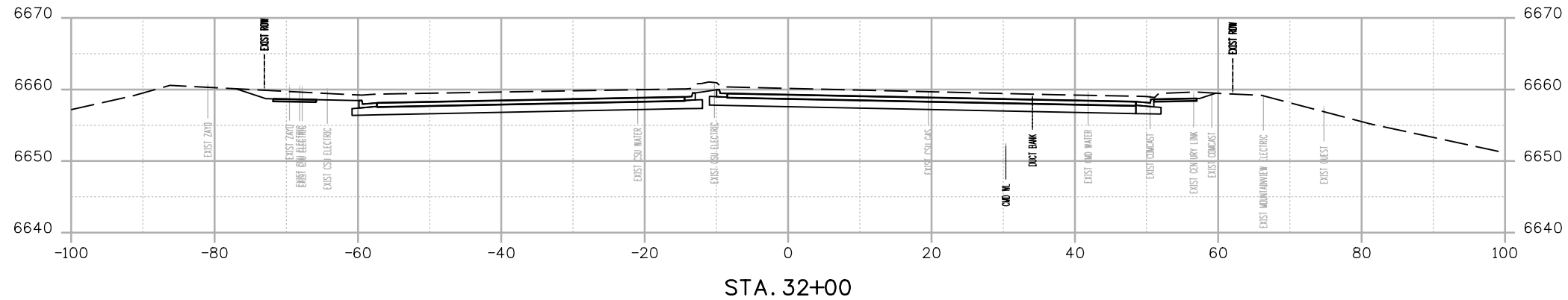
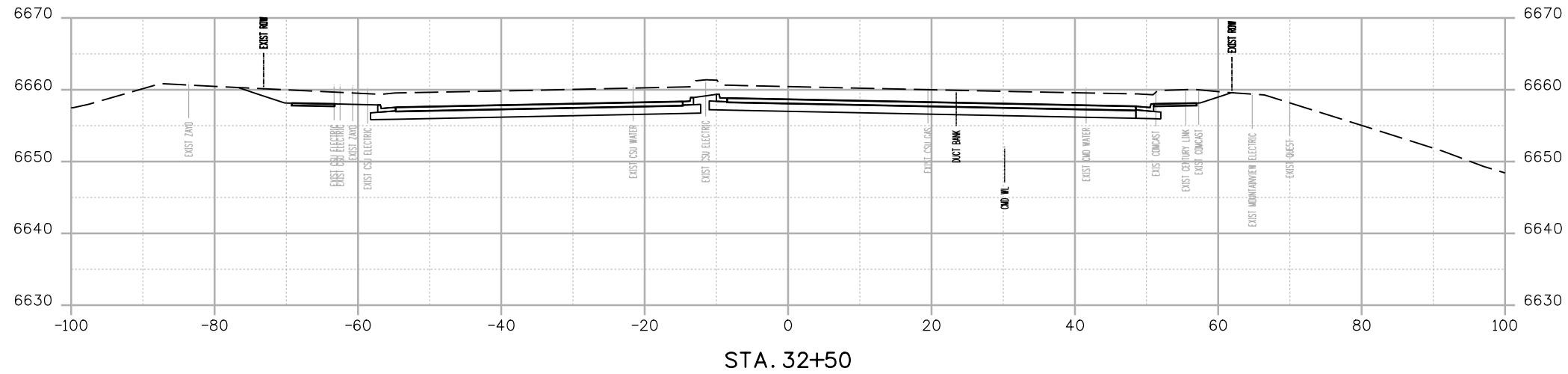
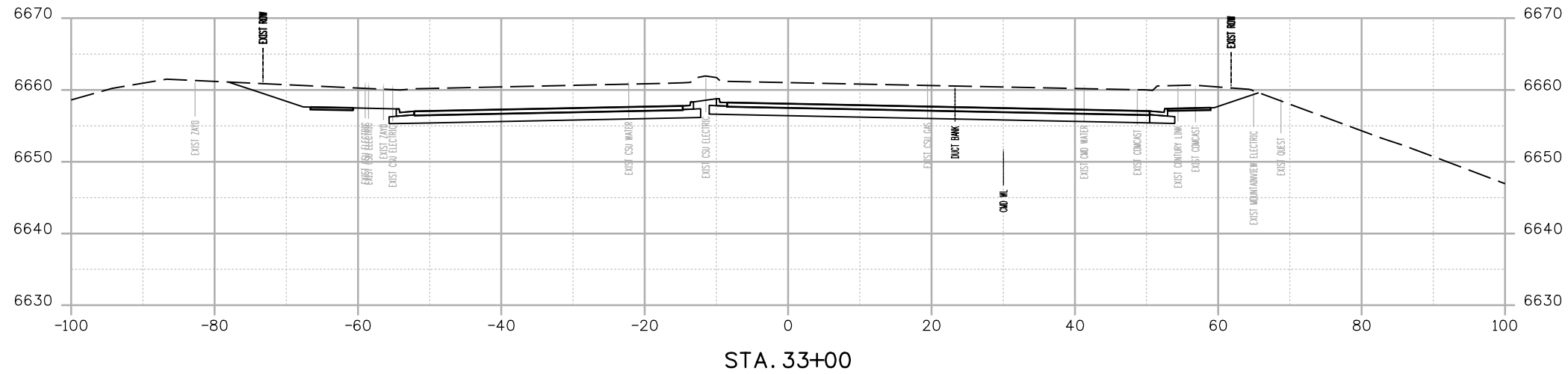








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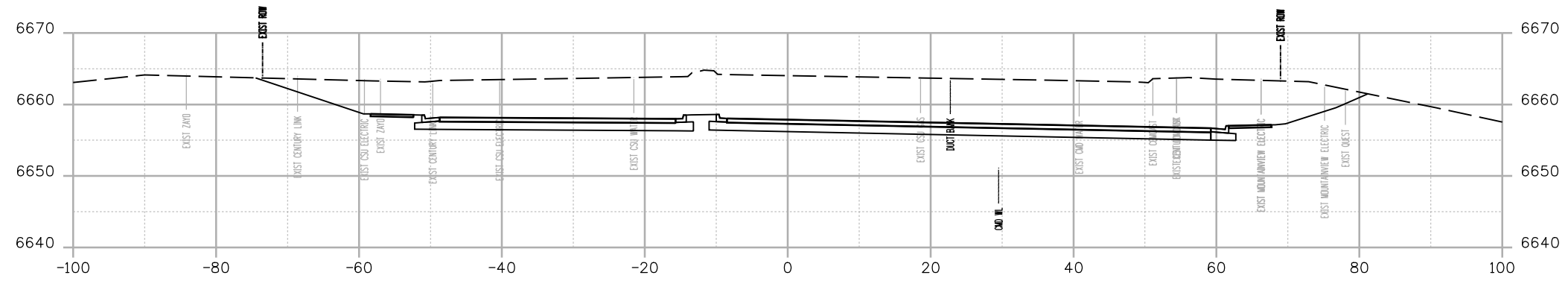
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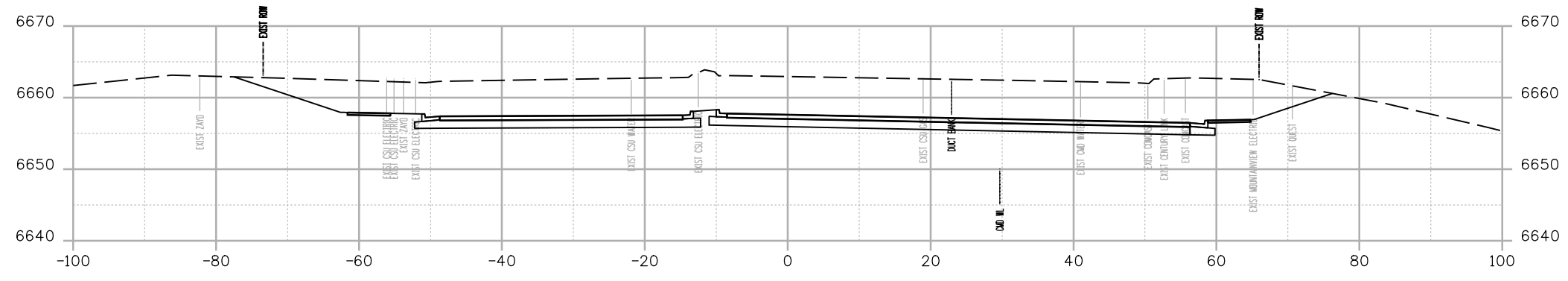
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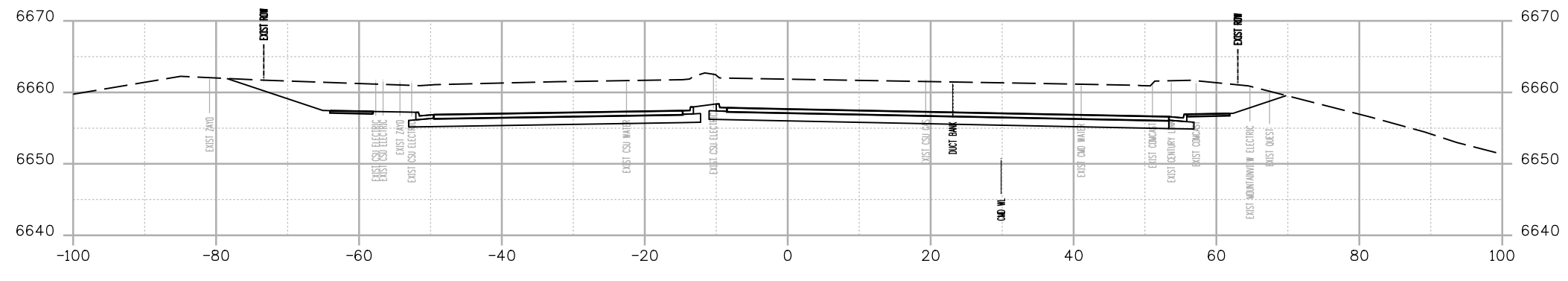
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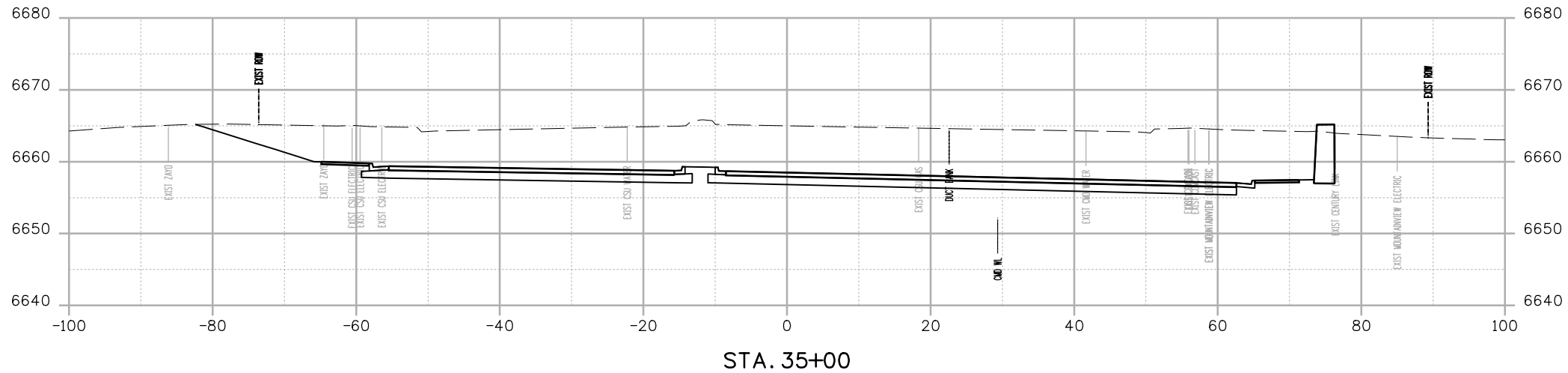
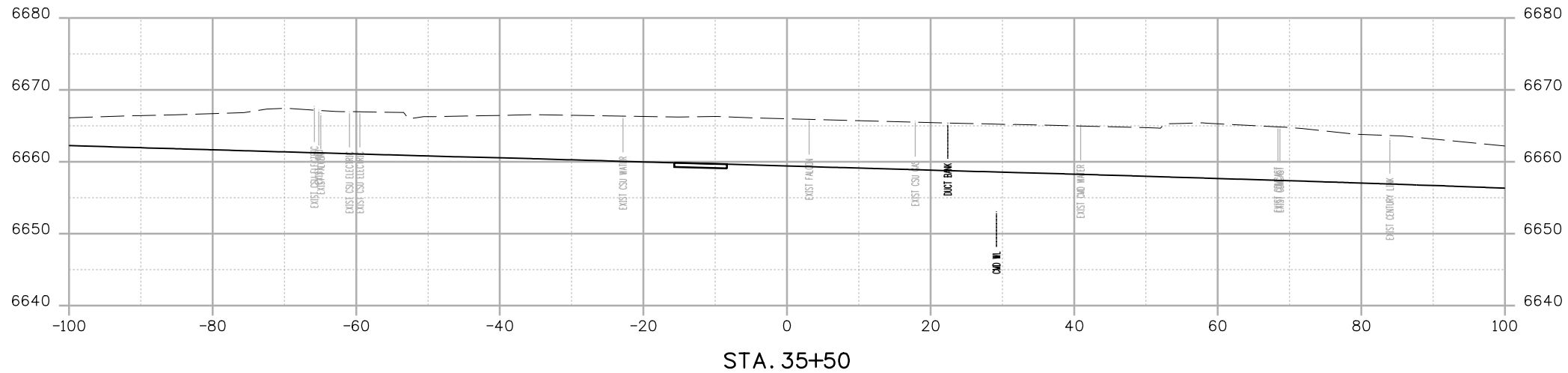
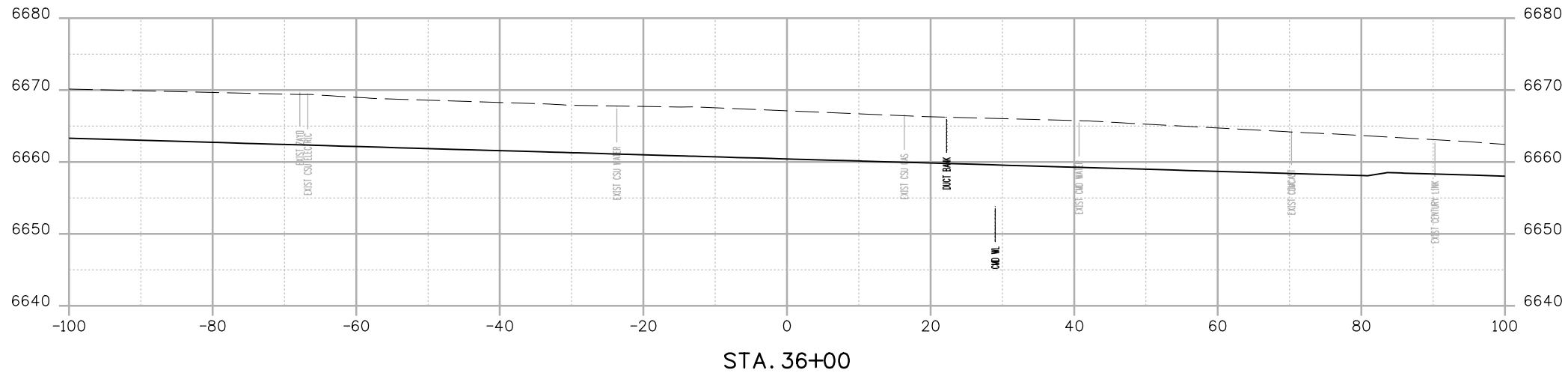
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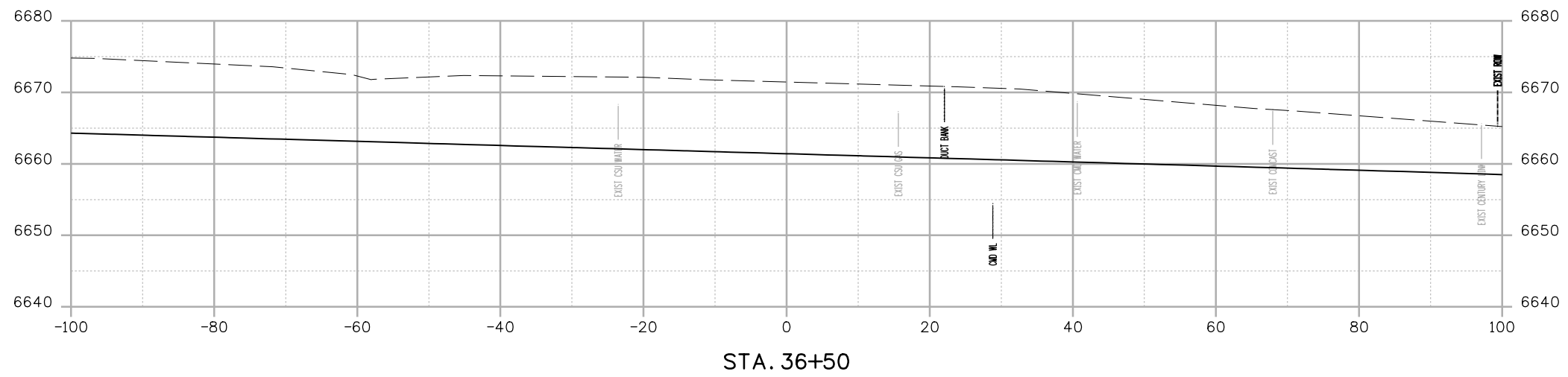
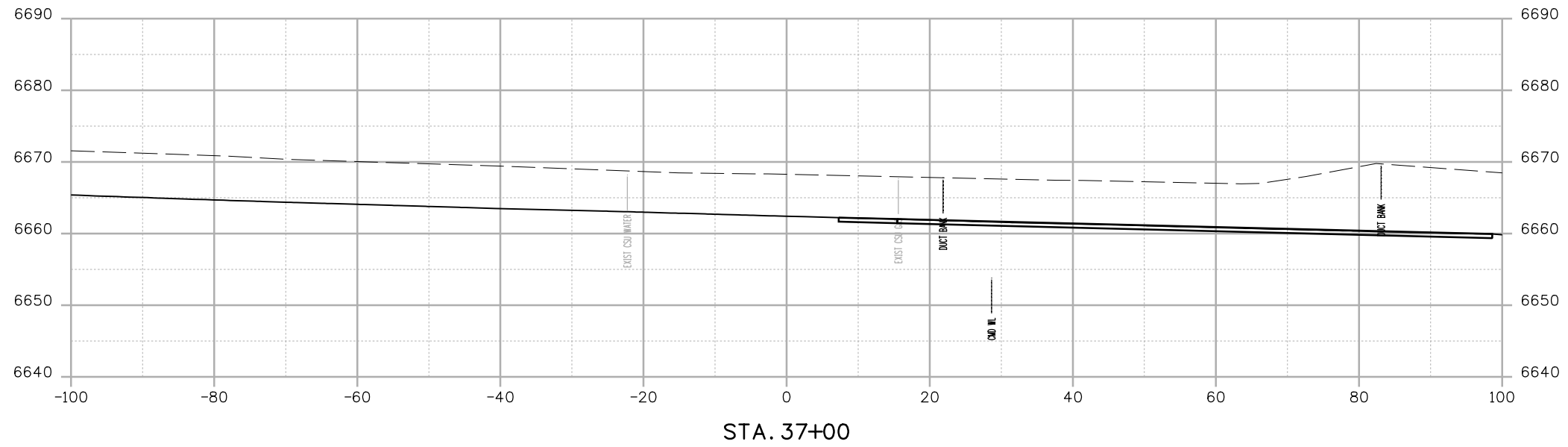
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Sheet Subset:	CROSS	Subset Sheets:	47 of 49

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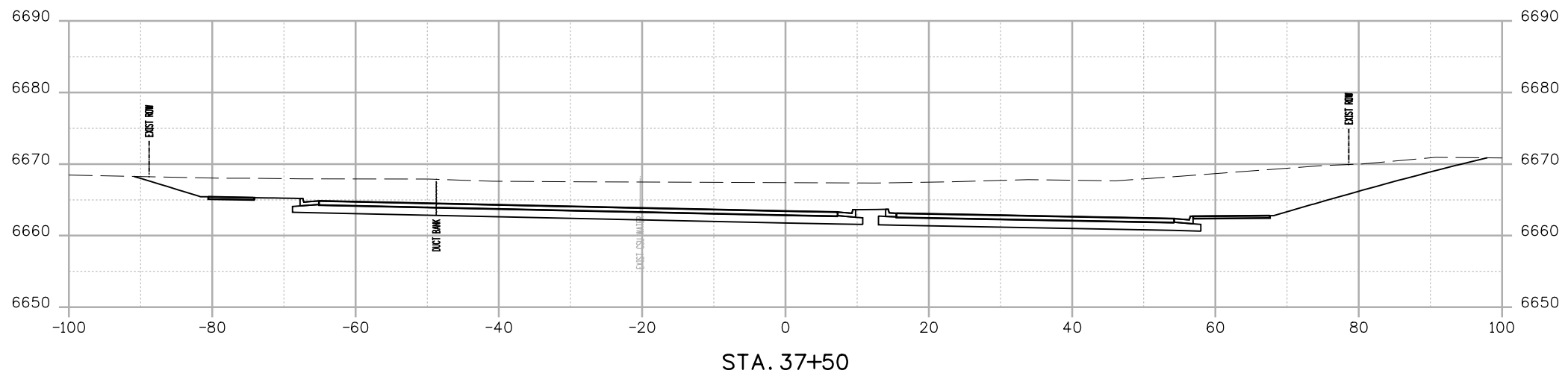
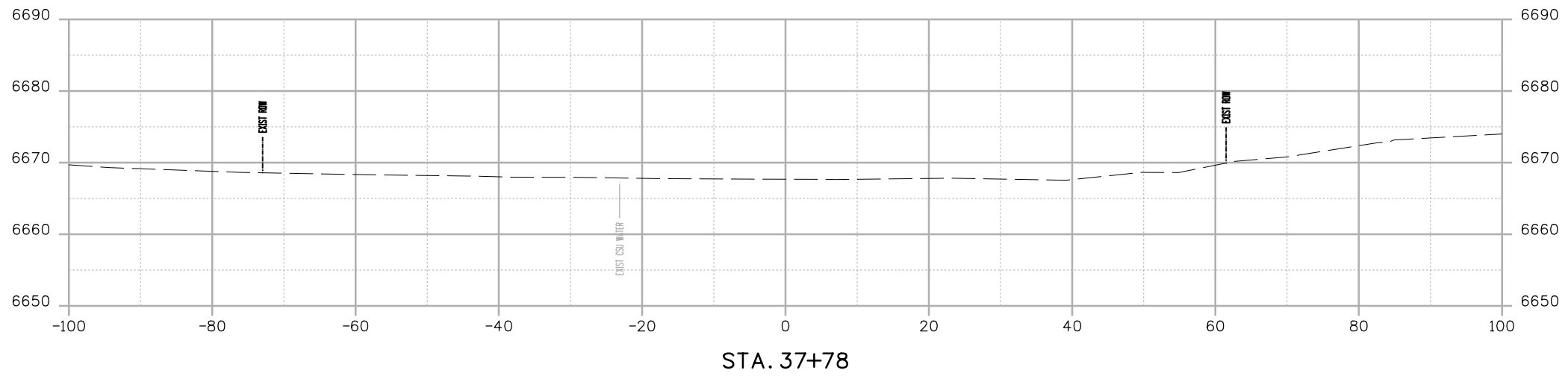
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