

(Local \$CDOTWRK)
PROJECT: IM 0252-423 (19039)

REGION: 2 (vjm)

CONTRACT

THIS CONTRACT, executed this ____ day of _____, _____ by and between the State of Colorado, for the use and benefit of the Colorado Department of Transportation (“State” or “CDOT”) and the City of Colorado Springs, Colorado, 30 South Nevada Avenue, Colorado Springs, Colorado, 80903, CDOT Vendor #: 2000015 (“Local Agency” or “Department of Transportation”), and the State and the Local Agency shall be individually referred to as a “Party” and together shall be referred to as the “Parties.”

RECITALS

1. Authority exists in the law and funds have been budgeted, appropriated and otherwise made available and a sufficient uncommitted balance thereof remains available for payment of Project and Local Agency costs in Fund Number 400, Function 3301, GL Acct. 4512000010, WBS Element 19039.10.20 (Contract Encumbrance Amount: \$0.00).
2. Required approval, clearance and coordination have been accomplished from and with appropriate agencies..
3. Section 43-2-102 and 103, C.R.S require the State to maintain State highways (including where such highways extend through a city or an incorporated town), and 43-2-135 describes certain specific responsibilities of the State and affected local entities (respectively) with respect to State highways that are also part of a local street system;
4. The Local Agency has estimated the contribution and is prepared to provide the funding required for their contribution toward the Project, as evidenced by an appropriate ordinance or resolution duly passed and adopted by the authorized representatives of the Local Agency, which expressly authorizes the Local Agency to enter into this agreement and to expend its funds for the Contribution, which ordinance or resolution is attached hereto as **Exhibit B** and incorporated herein by reference
5. The Local Agency has funds available and desires to provide 100% of the funding for the Work.
6. This contract is executed under the authority of §§ 29-1-203, 43-1-110; 43-1-116, 43-2-101(4)(c) and 43-2-144, C.R.S. and **Exhibit B**.
7. The Parties hereto desire to agree upon the division of responsibilities with regard to the Project.

THE PARTIES NOW AGREE THAT:

Section 1. Scope of Work

The work under this contract shall consist of the landscaping project for the I-25/Cimarron Expressway interchange (the “Project”), and the Local Agency shall provide their Contribution toward the Project, as more specifically described in **Exhibit A**.

Section 2. Order of Precedence

In the event of conflicts or inconsistencies between this contract and its exhibits, such conflicts or inconsistencies shall be resolved by reference to the documents in the following order of priority:

1. This contract
2. **Exhibit A** (Scope of Work)
3. Other Exhibits in descending order of their attachment.

Section 3. Term

This contract shall be effective upon approval of the CDOT Chief Engineer or designee. The term of this agreement shall continue through the completion and final acceptance of the Project by the State, FHWA, if applicable, and the Local Agency.

Section 4. Project Funding Provisions

- A. The Local Agency has estimated the total cost of the Contribution and is prepared to provide its funding, as evidenced by the signing of this contract, which expressly authorizes the Local Agency the authority to expend its Contribution toward the Project.
- B. The contribution is estimated to be \$1,500,000.00 (the "Contribution").
- C. **The maximum amount payable by the Local Agency under this contract shall be \$1,500,000.00** unless such amount is increased by an appropriate written modification to this contract executed by the Parties hereto before any increased cost is incurred
- D. The Parties hereto agree that this contract is contingent upon all funds designated for the Project herein being made available from State sources, as applicable. Should these sources fail to provide necessary funds as agreed upon herein, the contract may be terminated by either Party, provided that any Party terminating its interest and obligations herein shall not be relieved of any obligations which existed prior to the effective date of such termination or which may occur as a result of such termination..
- E. The Local Agency will make a one time payment of \$1,500,000.00 on or before April 1, 2018.

Section 5. State and Local Agency Commitments

The Scope of Work (**Exhibit A**) describes the work to be performed.

- A. Design [if applicable]
 1. If the work includes preliminary design or final design (the "Construction Plans"), or design work sheets, or special provisions and estimates (collectively referred to as the "Plans"), the State shall comply with the following requirements, as applicable:
 - a. perform or provide the Plans, to the extent required by the nature of the work.
 - b. prepare final design (Construction Plans) in accord with the requirements of the latest edition of the American Association of State Highway Transportation Officials (AASHTO) manual or other standard, such as the Uniform Building Code, as approved by CDOT.
 - c. prepare special provisions and estimates in accord with the State's Roadway and Bridge Design Manuals and Standard Specifications for Road and Bridge Construction.
 - d. include details of any required detours in the Plans, in order to prevent any interference of the construction work and to protect the traveling public.
 - e. stamp the Plans produced by a Colorado Registered Professional Engineer.
 - f. provide final assembly of Plans and contract documents.
 - g. be responsible for the Plans being accurate and complete.
 - h. make no further changes in the Plans following the award of the construction contract except by agreement in writing between the Parties. The Plans shall be considered final when approved and accepted by the Parties hereto, and when final they shall be deemed incorporated herein.
- B. Construction [if applicable]
 1. If the work includes construction, the State shall perform the construction in accordance with the approved design plans and/or administer the construction all in accord with the Scope of Work (**Exhibit A**). Such administration shall include Project inspection and testing; approving sources of materials; performing required plant and shop inspections; documentation of contract payments, testing and inspection activities; preparing and approving pay estimates; preparing, approving and securing the funding for contract modification orders and minor contract revisions; processing contractor claims; construction supervision; and meeting the Quality Control requirements of the FHWA/CDOT Stewardship Agreement.
 2. If the State is the responsible party:
 - a. it shall appoint a qualified professional engineer, licensed in the State of Colorado, as the State Agency Project Engineer (SAPE), to perform that administration. The SAPE shall administer the Project in accordance with this agreement, the requirements of the construction contract and applicable State procedures.

- b. if bids are to be let for the construction of the Project, the State shall, in conjunction with the Local Agency, advertise the call for bids and upon concurrence by the Local Agency will award the construction contract(s) to the low responsive, responsible bidder(s).
- (1) in advertising and awarding the bid for the construction of a federal-aid project, the State shall comply with applicable requirements of 23 USC § 112 and 23 CFR Parts 633 and 635 and C.R.S. § 24-92-101 et seq. Those requirements include, without limitation, that the State/contractor shall incorporate Form 1273 in its entirety verbatim into any subcontract(s) for those services as terms and conditions therefore, as required by 23 CFR 633.102(e).
 - (2) the Local Agency has the option to concur or not concur in the proposal of the apparent low bidder for work on which competitive bids have been received. The Local Agency must declare its concurrence or non-concurrence within 3 working days after said bids are publicly opened.
 - (3) by indicating its concurrence in such award, the Local Agency, acting by or through its duly authorized representatives, agrees to provide additional funds, subject to their availability and appropriation for that purpose, if required to complete the work under this Project if no additional federal-aid funds will be made available for the Project.
- c. If all or part of the construction work is to be accomplished by State personnel (i.e. by force account), rather than by a competitive bidding process, the State will ensure that all such force account work is accomplished in accordance with the pertinent State specifications and requirements with 23 CFR 635, Subpart B, Force Account Construction.

Section 6. ROW Acquisition and Relocation

If the Project includes right of way, prior to this Project being advertised for bids, the State will certify in writing that all right of way has been acquired in accordance with the applicable State and federal regulations, or that no additional right of way is required.

Any acquisition/relocation activities must comply with: all applicable federal and State statutes and regulations, including but not limited to the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended (P.L. 91-646) and the Uniform Relocation Assistance and Real Property Acquisition Policies for Federal and Federally Assisted Programs as amended (49 CFR Part 24); CDOT's Right of Way Manual; and CDOT's Policy and Procedural Directives.

Allocation of Responsibilities are as follows:

- Federal participation in right of way acquisition (3111 charges), relocation (3109 charges) activities, if any, and right of way incidentals (expenses incidental to acquisition/relocation of right of way – 3114 charges);
- Federal participation in right of way acquisition (3111 charges), relocation (3109 charges) but no participation in incidental expenses (3114 charges); or
- No federal participation in right of way acquisition (3111 charges) and relocation activities (3109 expenses).

Regardless of the option selected above, the State retains oversight responsibilities. The Local Agency's and the State's responsibilities for each option is specifically set forth in CDOT's Right of Way Manual. The manual is located at <http://www.coloradodot.info/business/manuals/right-of-way>.

If right of way is purchased for a State highway, including areas of influence of the State highway, the Local Agency shall immediately convey title to such right of way to CDOT after the Local Agency obtains title.

Section 7. Utilities

If necessary, the State will be responsible for obtaining the proper clearance or approval from any utility company which may become involved in this Project. Prior to this Project being advertised for bids, the responsible party will certify in writing that all such clearances have been obtained.

Section 8. Railroads

In the event the Project involves modification of a railroad company's facilities whereby the work is to be accomplished by railroad company forces, the State shall make timely application to the Public Utilities Commission requesting its order providing for the installation of the proposed improvements and not proceed with that part of the work without compliance. The State shall also establish contact with the railroad company involved for the purpose

of complying with applicable provisions of 23 CFR 646, subpart B, concerning federal-aid projects involving railroad facilities, including:

1. Executing an agreement setting out what work is to be accomplished and the location(s) thereof, and that the costs of the improvement shall be eligible for federal participation.
2. Obtaining the railroad's detailed estimate of the cost of the work.
3. Establishing future maintenance responsibilities for the proposed installation.
4. Prescribing future use or dispositions of the proposed improvements in the event of abandonment or elimination of a grade crossing.
5. Establishing future repair and/or replacement responsibilities in the event of accidental destruction or damage to the installation.

Section 9. Environmental Obligations

The State shall perform all work in accordance with the requirements of the current federal and State environmental regulations including the National Environmental Policy Act of 1969 (NEPA) as applicable.

Section 10. Maintenance Obligations

The Local Agency will maintain and operate the improvements constructed under this agreement at its own cost and expense during their useful life, in a manner satisfactory to the State. The Local Agency will make proper provisions for such maintenance obligations each year. Such maintenance and operations shall be conducted in accordance with all applicable statutes, ordinances and regulations. The State will make periodic inspections of the Project to verify that such improvements are being adequately maintained.

Section 11. Record Keeping

The State shall maintain a complete file of all records, documents, communications, and other written materials, which pertain to the costs incurred under this agreement. The State shall maintain such records for a period of three (3) years after the date of termination of this agreement or final payment hereunder, whichever is later, or for such further period as may be necessary to resolve any matters which may be pending. The State shall make such materials available for inspection at all reasonable times and shall permit duly authorized agents and employees of the Local Agency and FHWA (if applicable) to inspect the Project and to inspect, review and audit the Project records.

Section 12. Termination Provisions

This agreement may be terminated as follows:

- A. Termination for Convenience. The State may terminate this agreement at any time the State determines that the purposes of the distribution of moneys under the agreement would no longer be served by completion of the Project. The State shall effect such termination by giving written notice of termination to the Local Agency and specifying the effective date thereof, at least twenty (20) days before the effective date of such termination.
- B. Termination for Cause. If, through any cause, the Local Agency shall fail to fulfill, in a timely and proper manner, its obligations under this agreement, or if the Local Agency shall violate any of the covenants, agreements, or stipulations of this agreement, the State shall thereupon have the right to terminate this agreement for cause by giving written notice to the Local Agency of its intent to terminate and at least ten (10) days opportunity to cure the default or show cause why termination is otherwise not appropriate. In the event of termination, all finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs and reports or other material prepared by the Local Agency under this agreement shall, at the option of the State, become its property, and the Local Agency shall be entitled to receive just and equitable compensation for any services and supplies delivered and accepted.

Notwithstanding the above, the Local Agency shall not be relieved of liability to the State for any damages sustained by the State by virtue of any breach of the agreement by the Local Agency, and the State may withhold payment to the Local Agency for the purposes of mitigating its damages until such time as the exact amount of damages due to the State from the Local Agency is determined.

If after such termination it is determined, for any reason, that the Local Agency was not in default or that the Local Agency's action/inaction was excusable, such termination shall be treated as a termination for convenience, and the

rights and obligations of the Parties shall be the same as if the agreement had been terminated for convenience, as described herein.

Section 13. Legal Authority

The Local Agency warrants that it possesses the legal authority to enter into this agreement and that it has taken all actions required by its procedures, by-laws, and/or applicable law to exercise that authority, and to lawfully authorize its undersigned signatory to execute this agreement and to bind the Local Agency to its terms. The person(s) executing this agreement on behalf of the Local Agency warrants that such person(s) has full authorization to execute this agreement.

Section 14. Representatives and Notice

The State will provide liaison with the Local Agency through the State's Region Director, Region 2, 905 Erie Avenue, Pueblo, CO 81001. Said Region Director will also be responsible for coordinating the State's activities under this agreement and will also issue a "Notice to Proceed" to the Local Agency for commencement of the work. All communications relating to the day-to-day activities for the work shall be exchanged between representatives of the State's Transportation Region 2 and the Local Agency. All communication, notices, and correspondence shall be addressed to the individuals identified below. Either Party may from time to time designate in writing new or substitute representatives.

If to the State:

David Watt, P.E.
CDOT Region 2 Engineering – North Program
1480 Quail Lake Loop
Colorado Springs, Colorado 80906
719-227-3202
david.watt@state.co.us

If to the Local Agency:

Kathleen Krager, Transportation Manager
City of Colorado Springs
Public Works Department
30 S. Nevada Avenue, Suite 401
Colorado Springs, Colorado 80903
719-385-7628
kkrager@springsgov.com

Section 15. Successors

Except as herein otherwise provided, this agreement shall inure to the benefit of and be binding upon the Parties hereto and their respective successors and assigns.

Section 16. Third Party Beneficiaries

It is expressly understood and agreed that the enforcement of the terms and conditions of this agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the State and the Local Agency. Nothing contained in this agreement shall give or allow any claim or right of action whatsoever by any other third person. It is the express intention of the State and the Local Agency that any such person or entity, other than the State or the Local Agency receiving services or benefits under this agreement, shall be deemed an incidental beneficiary only.

Section 17. Governmental Immunity

Notwithstanding any other provision of this agreement to the contrary, no term or condition of this agreement shall be construed or interpreted as a waiver, express or implied, of any of the immunities, rights, benefits, protection, or other provisions of the Colorado Governmental Immunity Act, § 24-10-101, et seq., C.R.S., as now or hereafter amended. The Parties understand and agree that liability for claims for injuries to persons or property arising out of negligence of the State of Colorado, its departments, institutions, agencies, boards, officials and employees is controlled and limited by the provisions of § 24-10-101, et seq., C.R.S., as now or hereafter amended and the risk management statutes, § 24-30-1501, et seq., C.R.S., as now or hereafter amended.

Section 18. Severability

To the extent that this agreement may be executed and performance of the obligations of the Parties may be accomplished within the intent of the agreement, the terms of this agreement are severable, and should any term or provision hereof be declared invalid or become inoperative for any reason, such invalidity or failure shall not affect the validity of any other term or provision hereof.

Section 19. Waiver

The waiver of any breach of a term, provision, or requirement of this agreement shall not be construed or deemed as a waiver of any subsequent breach of such term, provision, or requirement, or of any other term, provision or requirement.

Section 20. Entire Understanding

This agreement is intended as the complete integration of all understandings between the Parties. No prior or contemporaneous addition, deletion, or other amendment hereto shall have any force or effect whatsoever, unless embodied herein by writing. No subsequent novation, renewal, addition, deletion, or other amendment hereto shall have any force or effect unless embodied in a writing executed and approved pursuant to the State Fiscal Rules.

Section 21. Survival of Agreement Terms

Notwithstanding anything herein to the contrary, the Parties understand and agree that all terms and conditions of this agreement and the exhibits and attachments hereto which may require continued performance, compliance or effect beyond the termination date of the agreement shall survive such termination date and shall be enforceable by the State as provided herein in the event of such failure to perform or comply by the Local Agency.

Section 22. Modification and Amendment

This agreement is subject to such modifications as may be required by changes in federal or State law, or their implementing regulations. Any such required modification shall automatically be incorporated into and be part of this agreement on the effective date of such change as if fully set forth herein. Except as provided above, no modification of this agreement shall be effective unless agreed to in writing by both Parties in an amendment to this agreement that is properly executed and approved in accordance with applicable law.

Section 23. Disputes

Except as otherwise provided in this agreement, any dispute concerning a question of fact arising under this agreement, which is not disposed of by agreement, will be decided by the Chief Engineer of the Department of Transportation. The decision of the Chief Engineer will be final and conclusive unless, within 30 calendar days after the date of receipt of a copy of such written decision, the Local Agency mails or otherwise furnishes to the State a written appeal addressed to the Executive Director of the Department of Transportation. In connection with any appeal proceeding under this clause, the Local Agency shall be afforded an opportunity to be heard and to offer evidence in support of its appeal. Pending final decision of a dispute hereunder, the Local Agency shall proceed diligently with the performance of the agreement in accordance with the Chief Engineer's decision. The decision of the Executive Director or his duly authorized representative for the determination of such appeals will be final and conclusive and serve as final agency action. This dispute clause does not preclude consideration of questions of law in connection with decisions provided for herein. Nothing in this agreement, however, shall be construed as making final the decision of any administrative official, representative, or board on a question of law.

THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK

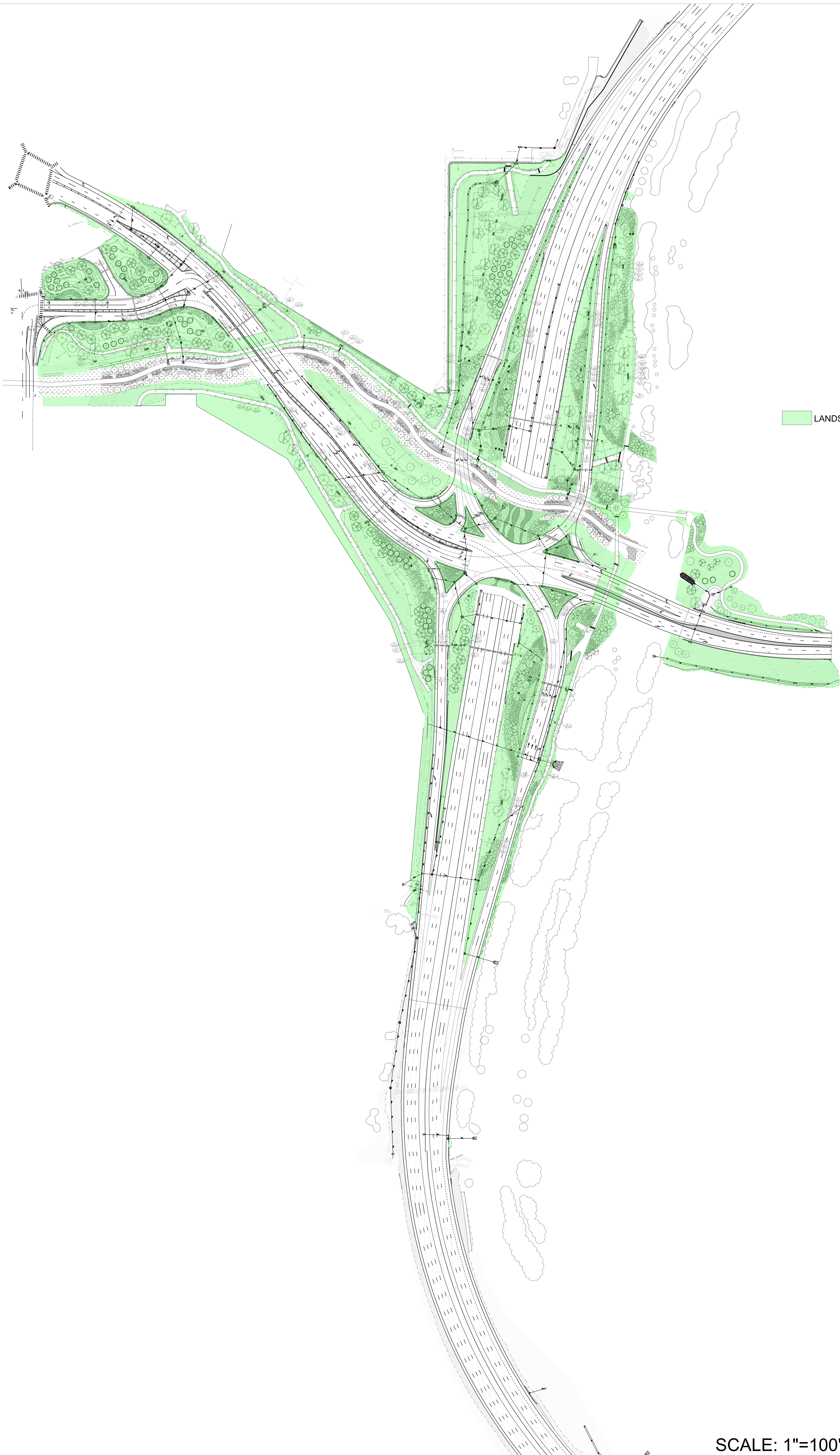
THE PARTIES HERETO HAVE EXECUTED THIS CONTRACT

* Persons signing for the Local Agency hereby swear and affirm that they are authorized to act on the Local Agency's behalf and acknowledge that the State is relying on their representations to that effect.

| | |
|--|---|
| <p style="text-align: center;">THE LOCAL AGENCY City of Colorado Springs</p> <p>By: _____ Title: _____</p> <p>_____</p> <p style="text-align: center;">*Signature</p> <p>Date: _____</p> | <p style="text-align: center;">STATE OF COLORADO John W. Hickenlooper, GOVERNOR Colorado Department of Transportation</p> <p>By _____</p> <p style="text-align: center;">Joshua Laipply, P.E., Chief Engineer (For) Shailen P. Bhatt, Executive Director</p> <p>Date: _____</p> |
| <p style="text-align: center;">2nd The Local Agency Signature [if Needed]</p> <p>By: _____ Title: _____</p> <p>_____</p> <p style="text-align: center;">*Signature</p> <p>Date: _____</p> | |

EXHIBIT A – SCOPE OF WORK

SCOPE OF WORK



LANDSCAPING AREAS

Oversight / NHS

FHWA REGION VIII OVERSIGHT? NO YES

NATIONAL HIGHWAY SYSTEM? NO YES

DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

CONSTRUCTION PLANS OF PROPOSED FEDERAL AID PROJECT NO. IM 0252-423 INTERSTATE HIGHWAY NO. 25 / US 24 EL PASO COUNTY CONSTRUCTION PROJECT CODE NO. 19039

Related Projects:

P. E. UNDER PROJECT:
Project Number
Project Code:

R.O.W. Projects:

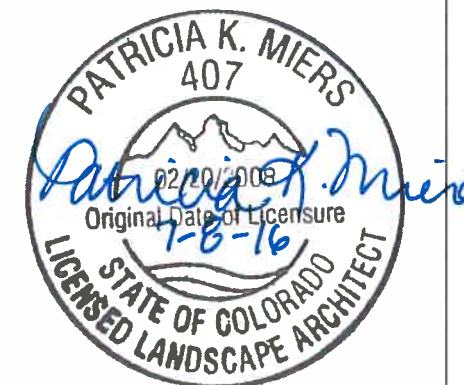
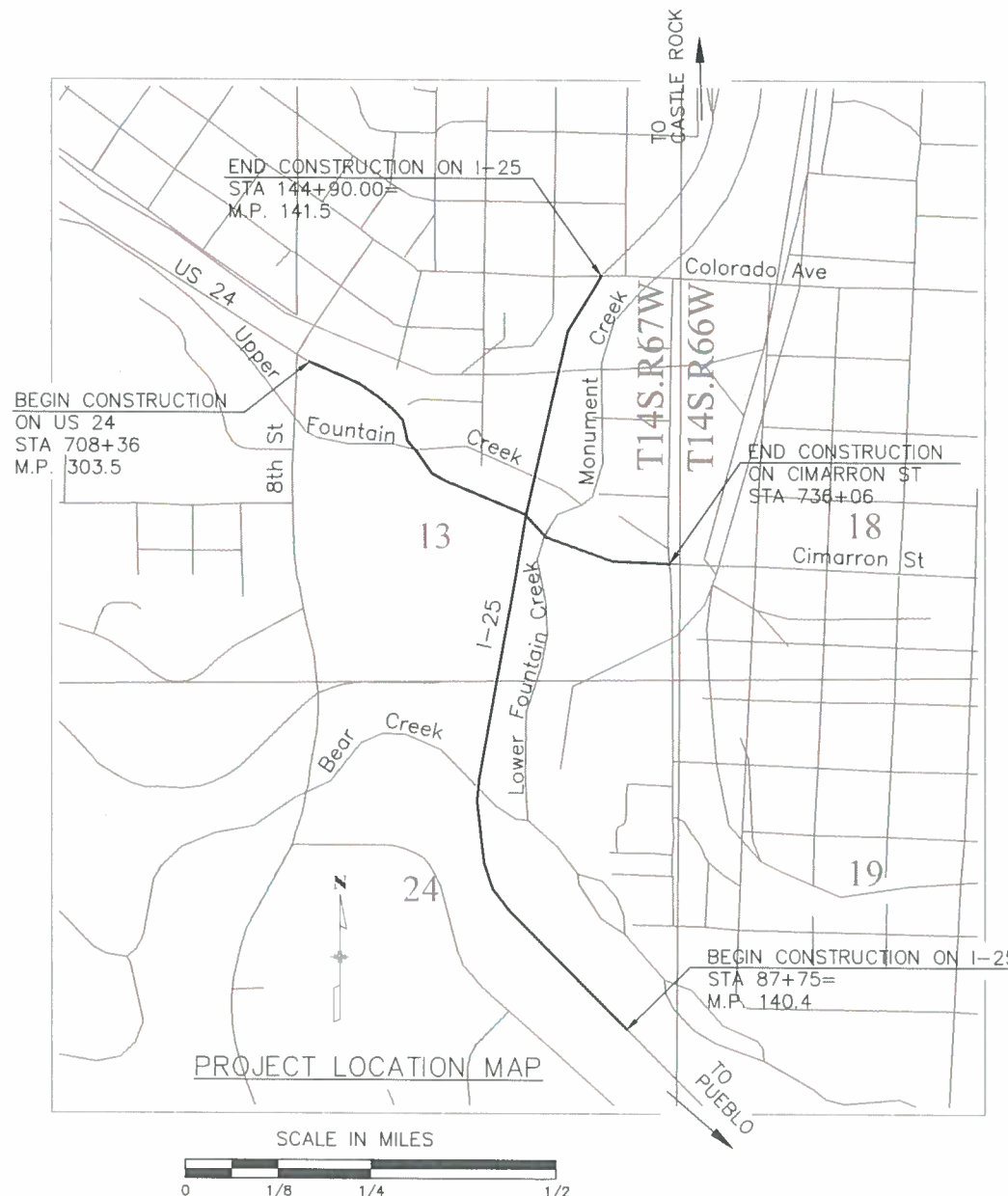
R.O.W. Project Description IM 0252-423
19039

REVISION NOTES:

REVISION DESCRIPTION SHEETS

INDEX OF SHEETS

| | |
|------------|----------------------------|
| i | TITLE SHEET |
| LD01-LD06 | LANDSCAPE DETAILS |
| S01-S08 | SEEDING AND MULCHING PLANS |
| LS01-LS26 | LANDSCAPE PLANS |
| MP01-MP16 | MEDIAN PAVING PLANS |
| QW01-QW04 | QUADRANT WALL PLANS |
| SB01-SB06 | SB40 PLANS |
| IR-1-IR-37 | IRRIGATION PLANS |



Print Date: 7/5/2016
 File Name: 19039_Title SheetRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 **DMW**

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

| Contract Information | |
|----------------------|-----------------------|
| Contractor: | KRAEMER NORTH AMERICA |
| Resident Engineer: | DAVE WATT, P.E. |
| Project Engineer: | |
| PROJECT STARTED: | 04-02-15 ACCEPTED: |
| Comments: | |

| Project No./Code |
|--------------------------|
| IM 0252-423 |
| 19039 |
| Sheet Number 24-i |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\sh\1-25 cimarron st\lead\19039_title sheetrfc.dwg



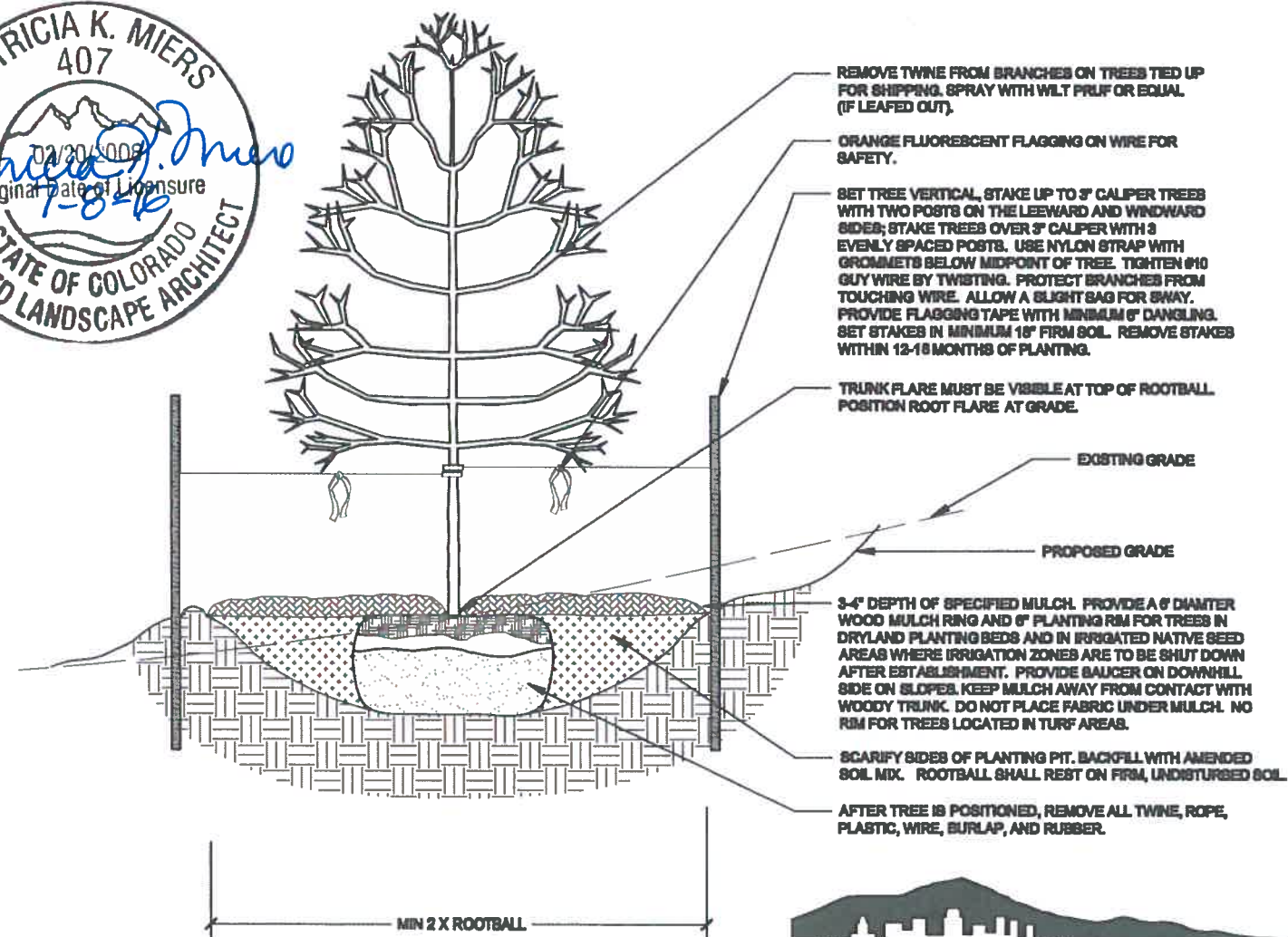
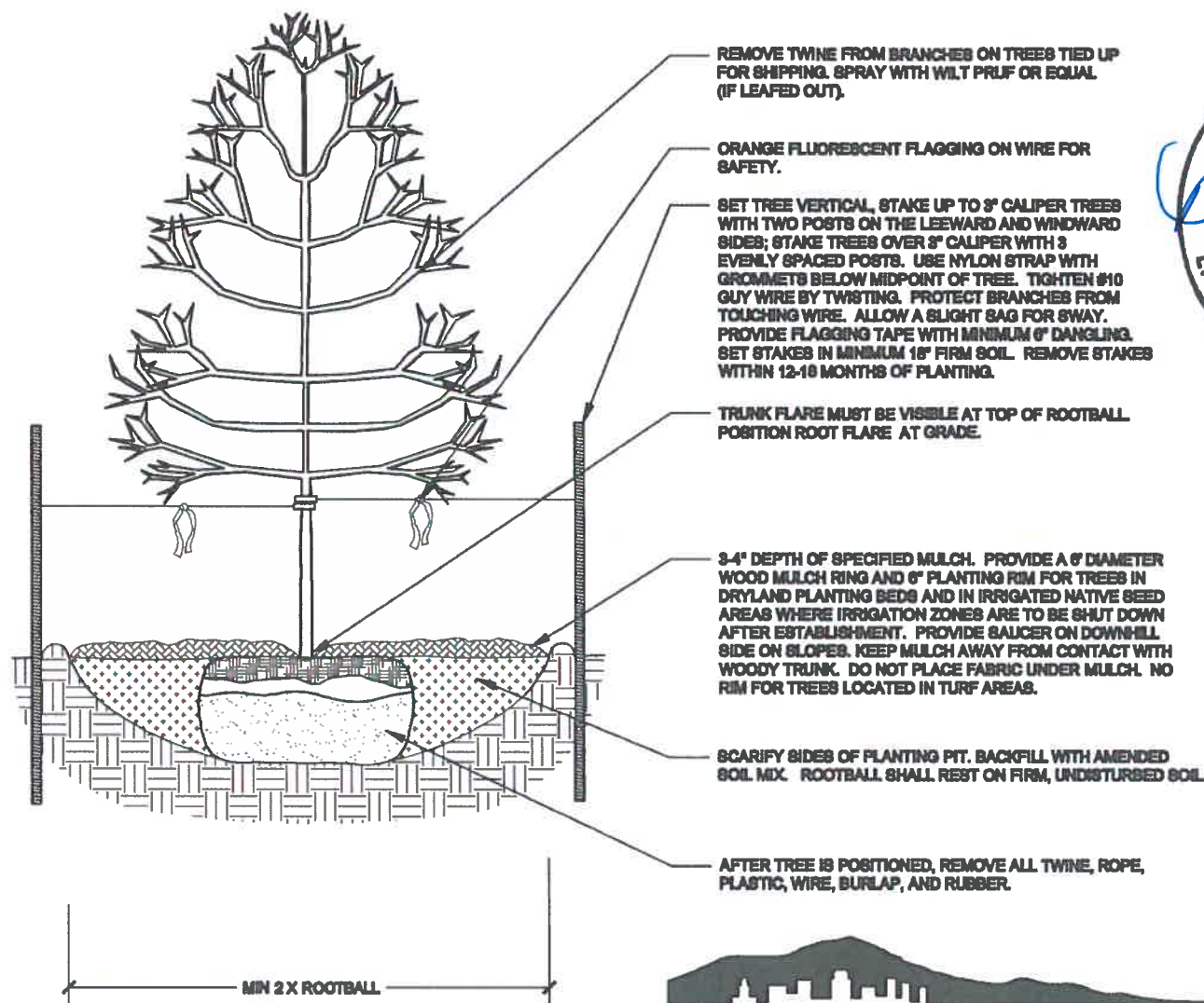
Know what's below.
Call before you dig.

NOTES:

1. MARK THE NORTH SIDE OF TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
2. AT TIME OF PLANTING, DO NOT REMOVE OR CUT LEADER AND PRUNE ONLY DEAD OR BROKEN BRANCHES, CROSS OVER BRANCHES, AND WEAK OR NARROW CROTCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
3. STRUCTURAL PRUNING SHOULD NOT BEGIN UNTIL AFTER ESTABLISHMENT PERIOD,
4. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
5. DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
6. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
7. WRAP TRUNK ON EXPOSED SITES AND SPECIES WITH THIN BARK. USE ELECTRICAL OR DUCT TAPE, NOT TWINE.
8. COORDINATE WITH CITY FORESTRY FOR CURRENT INSECT AND DISEASE RECOMMENDATIONS PRIOR TO PLANTING.
9. DEEP WATER ALL PLANTS AT TIME OF PLANTING.

NOTES:

1. MARK THE NORTH SIDE OF TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
2. AT TIME OF PLANTING, DO NOT REMOVE OR CUT LEADER AND PRUNE ONLY DEAD OR BROKEN BRANCHES, CROSS OVER BRANCHES, AND WEAK OR NARROW CROTCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
3. STRUCTURAL PRUNING SHOULD NOT BEGIN UNTIL AFTER ESTABLISHMENT PERIOD,
4. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
5. DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
6. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
7. WRAP TRUNK ON EXPOSED SITES AND SPECIES WITH THIN BARK. USE ELECTRICAL OR DUCT TAPE, NOT TWINE. OCTOBER 31 AND REMOVE MARCH 31 FOR THE PIKES PEAK REGION.
8. COORDINATE WITH CITY FORESTRY FOR CURRENT INSECT AND DISEASE RECOMMENDATIONS PRIOR TO PLANTING.
9. DEEP WATER ALL PLANTS AT TIME OF PLANTING.



1 DECIDUOUS TREE PLANTING DETAIL
NTS

2 DECIDUOUS TREE PLANTING ON SLOPES DETAIL
NTS



Print Date: 7/5/2016

File Name: 19039_LandscapeRFC.dwg

Horiz. Scale: As Noted Vert. Scale: As Noted



Sheet Revisions

| Date: | Comments | Init. |
|-------|----------|-------|
| | | |
| | | |
| | | |

Colorado Department of Transportation



1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2

DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE

NOTES & DETAILS

| | |
|-------------------------|---------------------------|
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: LD03 of 06 |

Project No./Code

IM 0252-423

19039

Sheet Number 24-3

RFC

z:\projects\19039\1-25 cimarron st\cad\19039_landscapeRFC.dwg

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

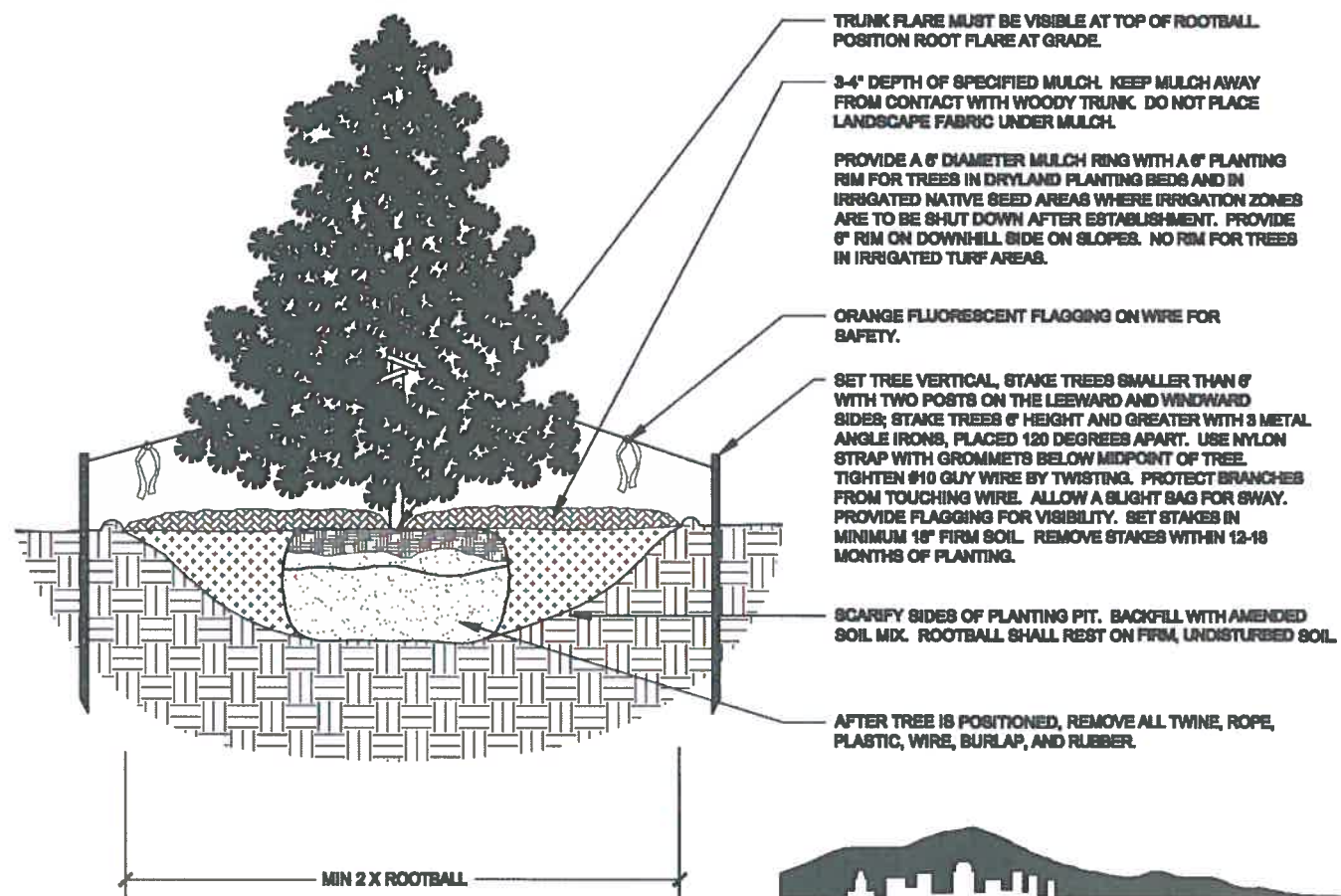


Know what's below.
Call before you dig.



NOTES:

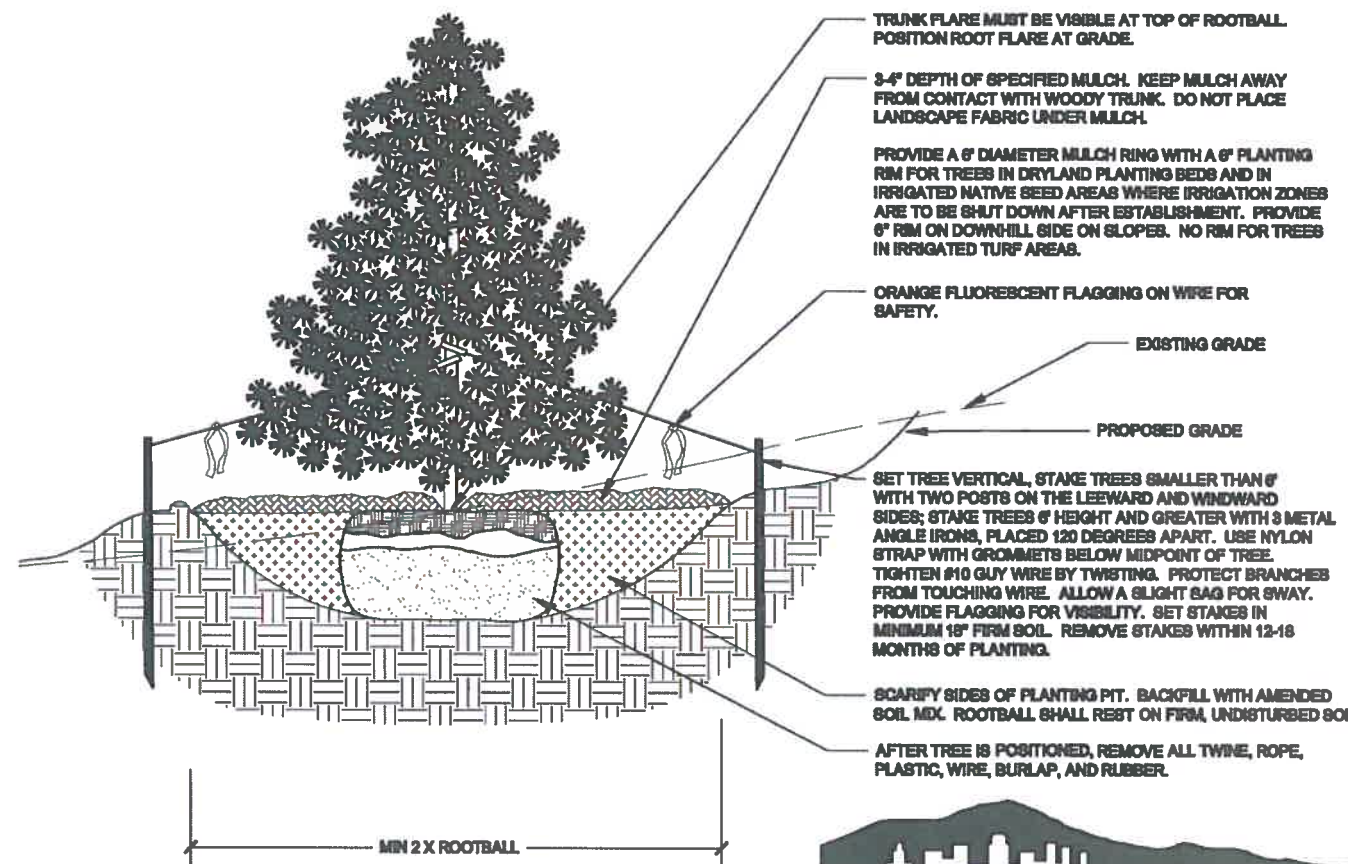
1. DO NOT REMOVE OR CUT LEADER.
2. PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
3. DO NOT REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.
4. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
5. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
6. MARK THE NORTH SIDE OF TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
7. PINE AND SPRUCE TREES TO BE SPRAYED FOR IPS BARK BEETLE PRIOR TO PLANTING. COORDINATE WITH CITY FORESTRY FOR CURRENT INSECT AND DISEASE RECOMMENDATIONS PRIOR TO PLANTING.
8. ALL TREES TO BE DEEP WATERED AT TIME OF PLANTING.



1 EVERGREEN TREE PLANTING DETAIL
NTS

NOTES:

1. DO NOT REMOVE OR CUT LEADER.
2. PRUNE ONLY DEAD OR BROKEN BRANCHES IMMEDIATELY PRIOR TO PLANTING.
3. DO NOT REMOVE ANY DOUBLE LEADER, UNLESS OTHERWISE DIRECTED BY OWNERS REPRESENTATIVE.
4. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
5. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
6. MARK THE NORTH SIDE OF TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.
7. PINE AND SPRUCE TREES TO BE SPRAYED FOR IPS BARK BEETLE PRIOR TO PLANTING. COORDINATE WITH CITY FORESTRY FOR CURRENT INSECT AND DISEASE RECOMMENDATIONS PRIOR TO PLANTING.
8. ALL TREES TO BE DEEP WATERED AT TIME OF PLANTING.



2 EVERGREEN TREE PLANTING ON SLOPES DETAIL
NTS

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\19039\19039_LandscapeRFC.dwg

| |
|--|
| Print Date: 7/5/2016 |
| File Name: 19039_LandscapeRFC.dwg |
| Horiz. Scale: As Noted Vert. Scale: As Noted |
| TSIOUVARAS SIMMONS HOLDERNESS CONSULTING ENGINEERS |
| |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

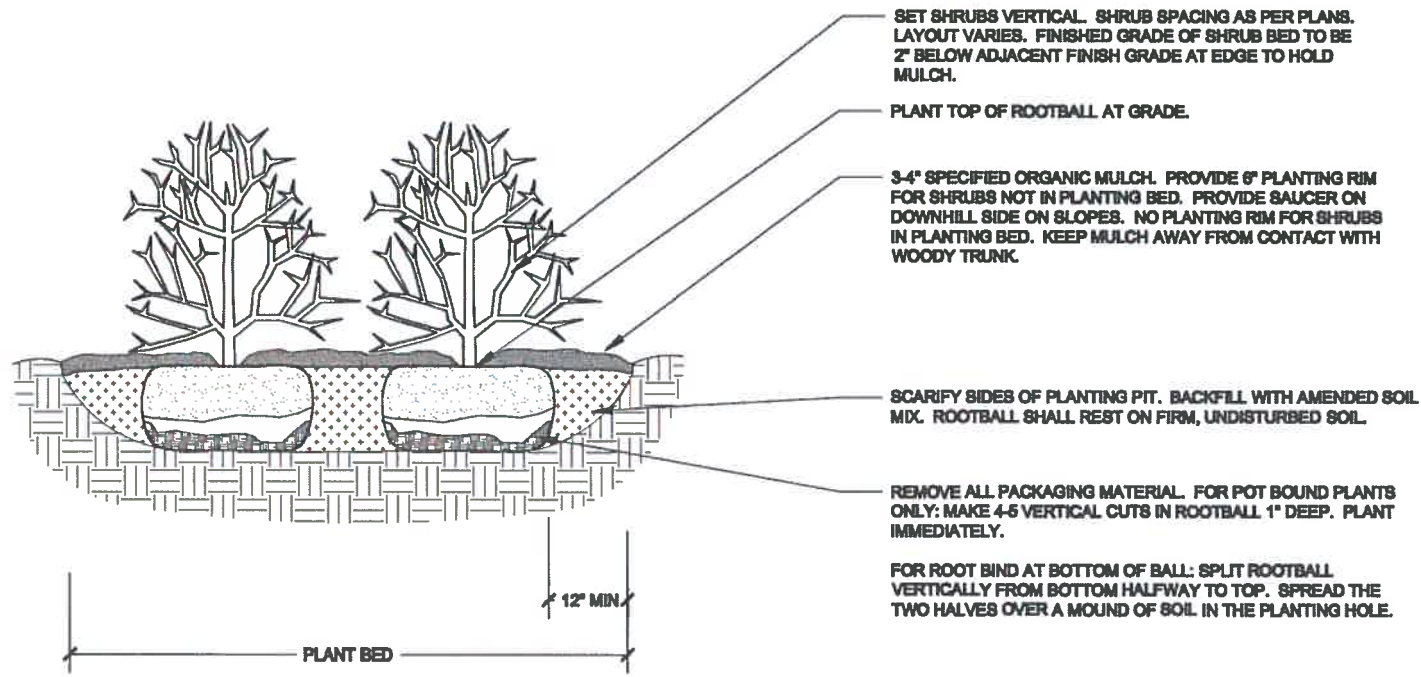
| | | |
|----------------|--------------------------------------|--|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
| No Revisions: | NOTES & DETAILS | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | Sheet Subset: LANDSCAPE Subset Sheets: LD04 of 06 |

| |
|----------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-4 |

RFC

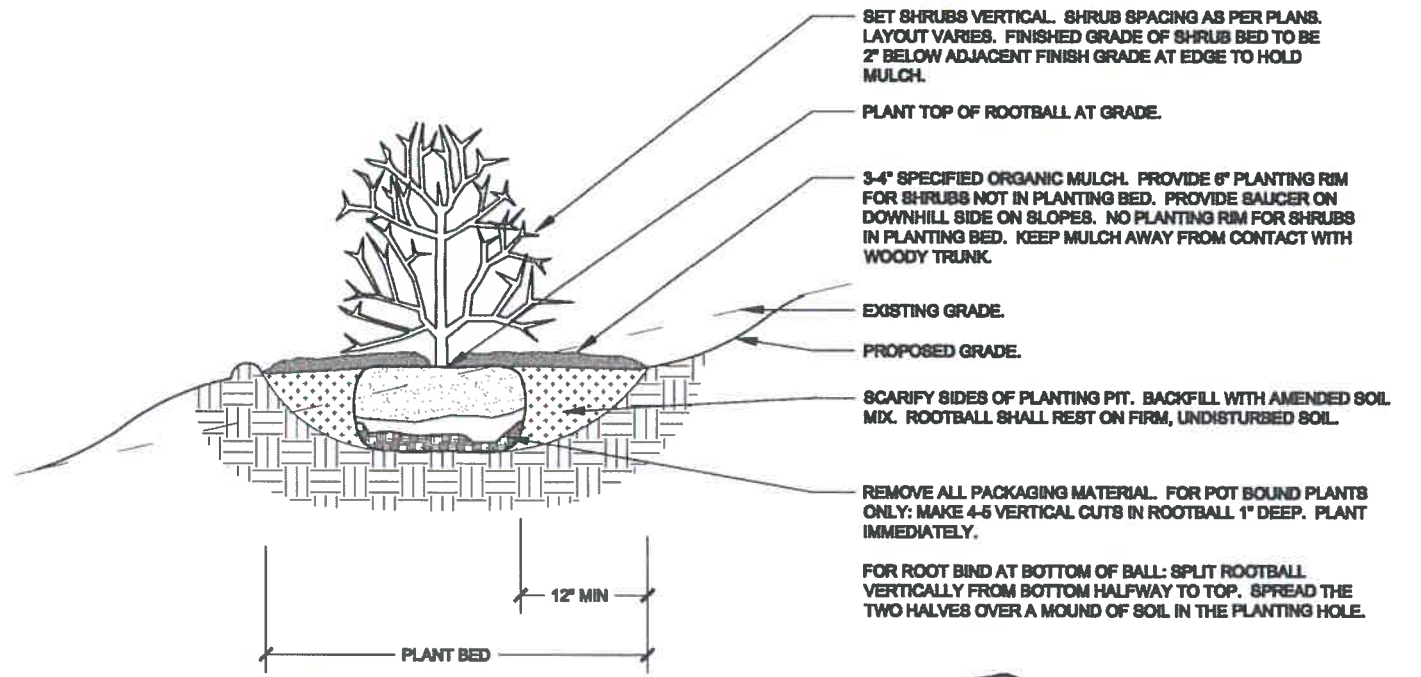
NOTES:

1. PRUNE ONLY DEAD OR BROKEN BRANCHES AND WEAK OR NARROW CROTCHES.
2. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
3. DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
4. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
5. ALL SHRUBS IN ROCK AREAS TO RECEIVE SHREDDED MULCH RINGS.
6. DEEP WATER ALL PLANTS AT TIME OF PLANTING.



NOTES:

1. PRUNE ONLY DEAD OR BROKEN BRANCHES AND WEAK OR NARROW CROTCHES.
2. KEEP PLANTS MOIST AND SHADED UNTIL PLANTING.
3. DO NOT FERTILIZE FOR AT LEAST ONE GROWING SEASON.
4. AMENDED BACKFILL SHALL BE 1/3 COMPOST (PREFERABLY CLASSIFIED) AND 2/3 NATIVE AND/OR IMPORTED TOPSOIL.
5. ALL SHRUBS IN ROCK AREAS TO RECEIVE SHREDDED MULCH RINGS.
6. DEEP WATER ALL PLANTS AT TIME OF PLANTING.

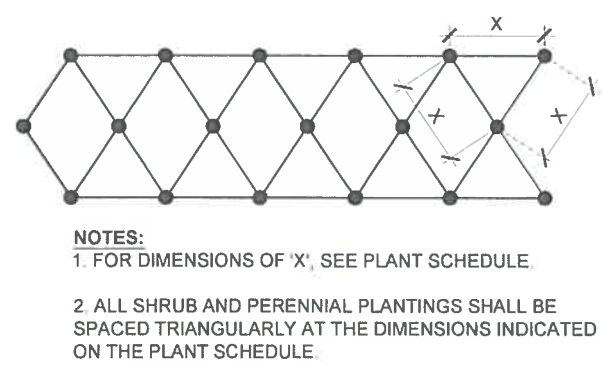


CITY OF COLORADO SPRINGS
Rev: 11.13.08

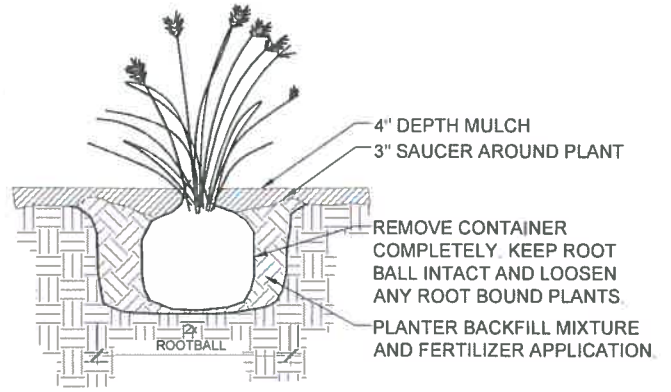
CITY OF COLORADO SPRINGS
Rev: 11.13.08

1 SHRUB PLANTING DETAIL
NTS

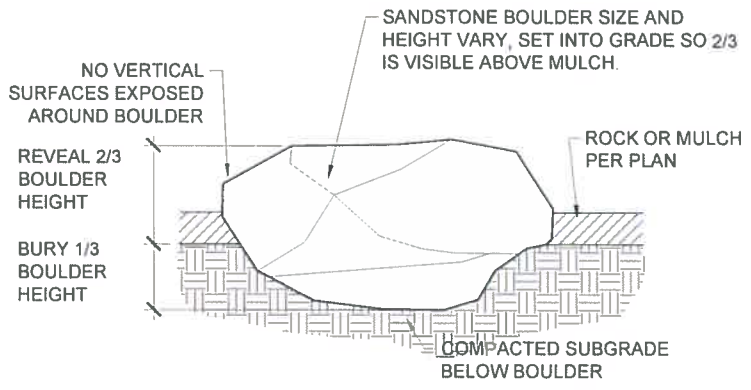
2 SHRUB PLANTING ON SLOPES DETAIL
NTS



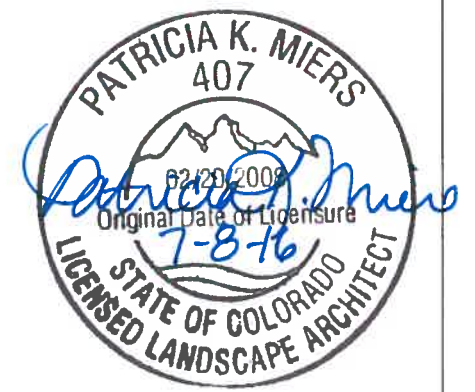
3 PLANT SPACING DETAIL
NTS



4 PERENNIAL PLANTING DETAIL
NTS



5 LANDSCAPE BOULDER
NTS



z:\projects\sh\25 cimarron st\cod\19039_landscapeRFC.dwg

| | | | | | | | | |
|--|-----------------|----------|-------|--|----------------|--|---------------------------|-------------------|
| Print Date: 7/5/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | Project No./Code | |
| File Name: 19039_LandscapeRFC.dwg | Date: | Comments | Init. | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | No Revisions: | NOTES & DETAILS Designer: Detailer: Sheet Subset: LANDSCAPE | IM 0252-423 | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | | Revised: | | Structure Numbers | 19039 |
| | | | | | Void: | | Subset Sheets: LD05 of 06 | Sheet Number 24-5 |
| | | | | | | | | |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

TREE PRUNING GUIDELINES:

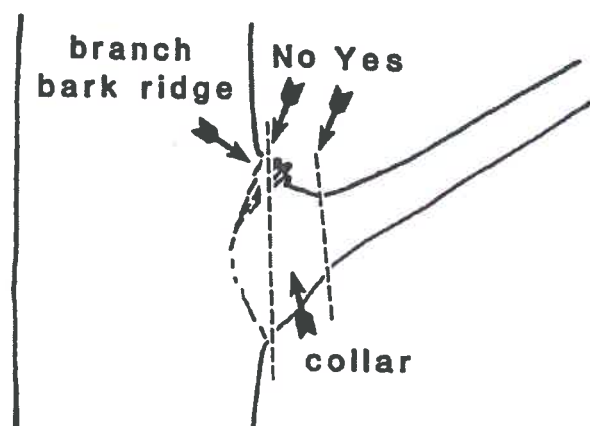


Figure 1: When removing a branch, always cut outside the branch bark ridge and collar. Do not make a flush cut.

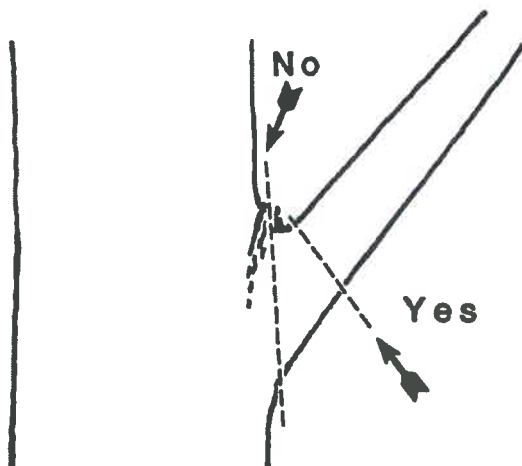


Figure 2: Branches that do not have a distinct collar should be cut at a right angle to the branch outside of the branch bark ridge.

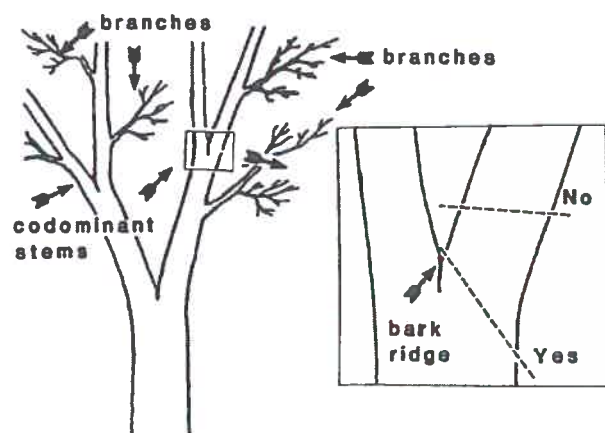


Figure 3: Trees have both branches and stems that look like branches, called, codominant stems as shown on the left. If a codominant stem must be removed, cut at an angle outside of the bark ridge as shown in the insert at right. Avoid leaving any stub.

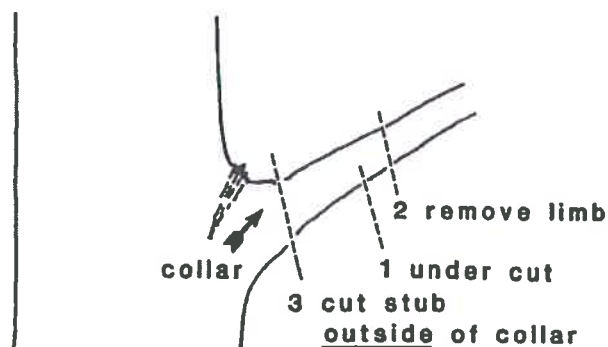


Figure 4: When removing heavy limbs, first make an undercut several inches outside of the collar. Then remove limb by a second cut an inch or so outside of the first cut. Remove stub with a third cut just outside of the collar.

TREE TRIMMING AND REMOVAL NOTES:

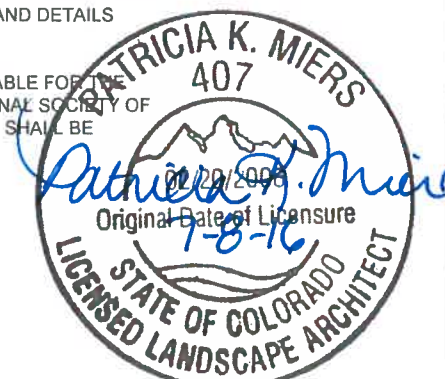
1. THE CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE AND PARTICIPATE IN A WALK-THROUGH OF THE SITE WITH THE ENGINEER, CDOT, AND A CITY REPRESENTATIVE TO MARK/TAG TREES TO BE REMOVED OR TRIMMED.
2. ALL TRIMMING, PRUNING AND REMOVAL WORK IS TO BE ACCOMPLISHED USING THE AMERICAN NATIONAL STANDARD INSTITUTE STANDARDS (ANSI A 300-1995 SECTION 5.3.3.2).
3. THIS WORK SHALL BE DONE BY A CONTRACTOR OR SUBCONTRACTOR WHO IS A QUALIFIED TREE SURGEON AND A MEMBER OF THE NATIONAL ARBORIST ASSOCIATION. THE FIRM'S OR INDIVIDUAL'S NAME AND QUALIFICATIONS SHALL BE SUBMITTED AT THE PRE-CONSTRUCTION CONFERENCE FOR THE ENGINEER'S APPROVAL. A LIST OF REFERENCES AND OTHER CLIENTS SHALL BE INCLUDED WITH THE QUALIFICATIONS STATEMENT. A WRITTEN DESCRIPTION OF WORK METHODS AND TIME SCHEDULES SHALL BE SUBMITTED AND APPROVED IN WRITING BY THE ENGINEER PRIOR TO WORK COMMENCING.
4. ALL WORK SHALL BE DONE ACCORDING TO THE FOLLOWING REQUIREMENTS:
 - A. TRIMMING AND PRUNING SHALL BE DONE WITH PROPER, SHARP, CLEAN TOOLS IN SUCH A MANNER AS TO PRESERVE THE NATURAL CHARACTER OF THE TREE.
 - B. ALL FINAL CUTS SHALL LEAVE NO PROJECTIONS ON OR OFF THE BRANCH AND SHALL NOT BE CUT SO CLOSE AS TO ELIMINATE THE BRANCH COLLAR.
 - C. TO AVOID BARK STRIPPING, ALL BRANCHES 2 INCHES IN DIAMETER AND LARGER SHALL BE CUT USING THE 3-CUT METHOD. THESE BRANCHES SHALL BE LOWERED TO THE GROUND BY PROPER ROPES.
 - D. TOOLS USED ON TREES KNOWN OR FOUND TO BE DISEASED, SHALL BE DISINFECTED WITH ALCOHOL BEFORE THEY ARE USED ON OTHER TREES.
 - E. STRUCTURAL WEAKNESSES, DECAYED TRUNK OR BRANCHES, OR SPLIT CROTCHES SHALL BE REPORTED TO THE ENGINEER.
 - F. WHEN CUTTING BACK OR TOPPING TREES, THE CONTRACTOR SHALL USE THE DROP-CROTCH METHOD AND AVOID CUTTING BACK TO SMALL SUCKERS. SMALLER LIMBS AND TWIGS SHALL BE REMOVED IN SUCH A MANNER SO AS TO LEAVE THE FOLIAGE PATTERN EVENLY DISTRIBUTED.
 - G. WHEN REDUCING SIZE (CUT BACK OR TOPPING) NOT MORE THAN ONE-THIRD OF THE TOTAL AREA SHALL BE REDUCED AT A SINGLE OPERATION.
 - H. CLIMBING SPIKES SHALL NOT BE USED ON TREES NOT SCHEDULED FOR REMOVAL.
 - I. MAKE SMOOTH CUTS ON ANY SEVERED TREE ROOTS GREATER THAN 2 INCHES DIAMETER. DO NOT RIP OR TEAR, BY EXCAVATION EQUIPMENT, ROOTS OF TREES TO REMAIN.
 - J. FERTILIZERS, INSECT SPRAYS, OR OTHER CHEMICALS SHALL NOT BE APPLIED BEFORE OR DURING ROOT OR BRANCH PRUNING PROCESSES.

5. CONTRACTOR SHALL PROMPTLY REPORT ANY TREES DAMAGED OR SCARRED DURING CONSTRUCTION TO THE ENGINEER FOR ASSESSMENT OF DAMAGES. DAMAGED OR DESTROYED TREES THAT WERE SCHEDULED TO BE SAVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

6. TREE STUMPS WITHIN THE ROADWAY PRISM OR WITHIN 10 FEET OF THE EDGES OF ROADWAY PAVEMENTS SHALL BE COMPLETELY REMOVED AND DISPOSED OFF THE PROJECT SITE. ALL OTHER TREE STUMPS WITHIN THE PROJECT SHALL BE GROUND 3 FEET BELOW FINISHED GRADE. THE AESTHETIC PLANS AND DETAILS PROVIDE LIMITS OF CLEARING/GRUBBING AND SELECTIVE THINNING ACTIVITIES.

7. WHEN TREES HAVE BEEN DAMAGED ABOVE 10 INCH CALIPER, CONTRACTOR SHALL BE LIABLE FOR THE APPRAISED VALUE BASED UPON THE OFFICIAL CURRENT PUBLICATION OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE, GUIDE FOR PLANT APPRAISALS. THE VALUE OF SUCH TREES OR SHRUBS SHALL BE CALCULATED ACCORDING TO THE FOLLOWING FORMULA:

$$(TREE\ SIZE) \times (SPECIES) \times (LOCATION) \times (CONDITION) \times (ARBORIST) = TREE\ VALUE$$



z:\projects\19039_cimarron st\cd\19039_landscape\rfc.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
|----------------|--------------------------------------|---------------------------|
| No Revisions: | TREE TRIMMING & PRUNING | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | |
| | Sheet Subset: LANDSCAPE | Subset Sheets: LD06 of 06 |

| Project No./Code |
|-------------------|
| IM 0252-423 |
| 19039 |
| Sheet Number 24-6 |

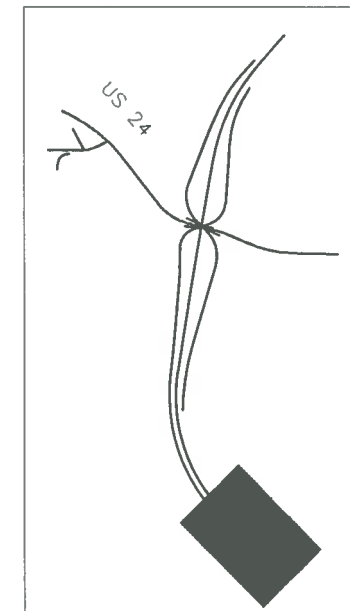
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

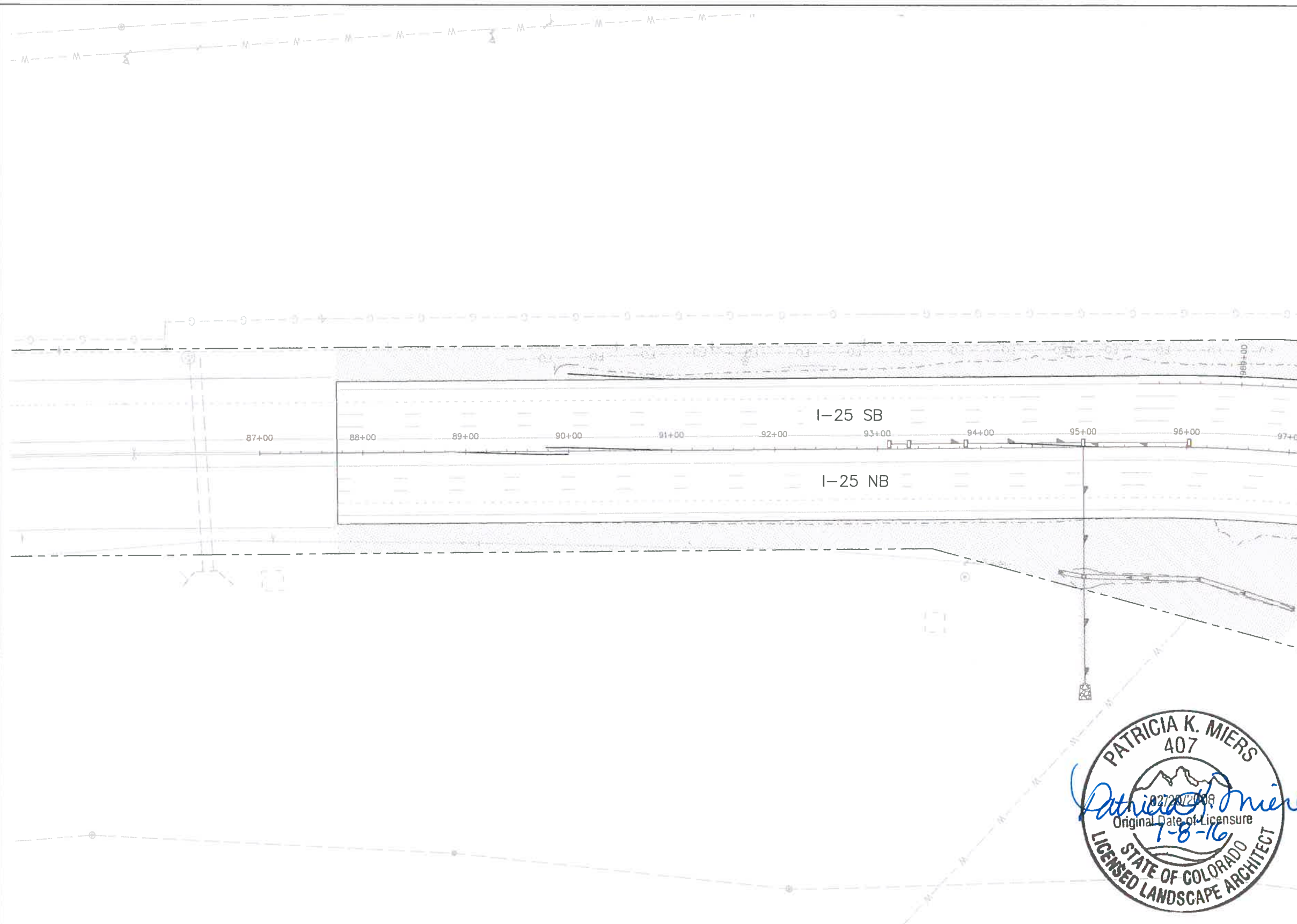


Know what's below.
Call before you dig.

KEY MAP



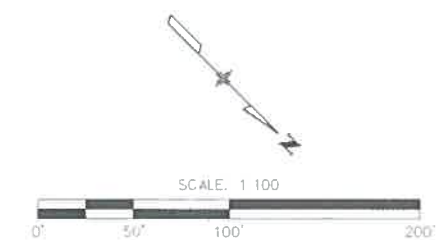
S-02
MATCHLINE



LEGEND

| | |
|--|-------------------------------|
| | RIPARIAN SEED (SB 40) |
| | NATIVE SEED |
| | GORILLA HAIR MULCH |
| | 1 1/2" ROCK MULCH |
| | 5-12" CO. ROSE |
| | 5-12" MTN. GRANITE |
| | GRAY STABILIZED CRUSHER FINES |

NOTE: PROVIDE COMMERCIAL STEEL EDGING AROUND ALL COBBLE MULCH.



z:\projects\19039\19039_seedingrfc.dwg

Print Date: 7/5/2016
 File Name: 19039_SeedingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--------------------------------------|--------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| I-25 SEEDING & MULCHING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: 501 of 08 |

| |
|-------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-7 |

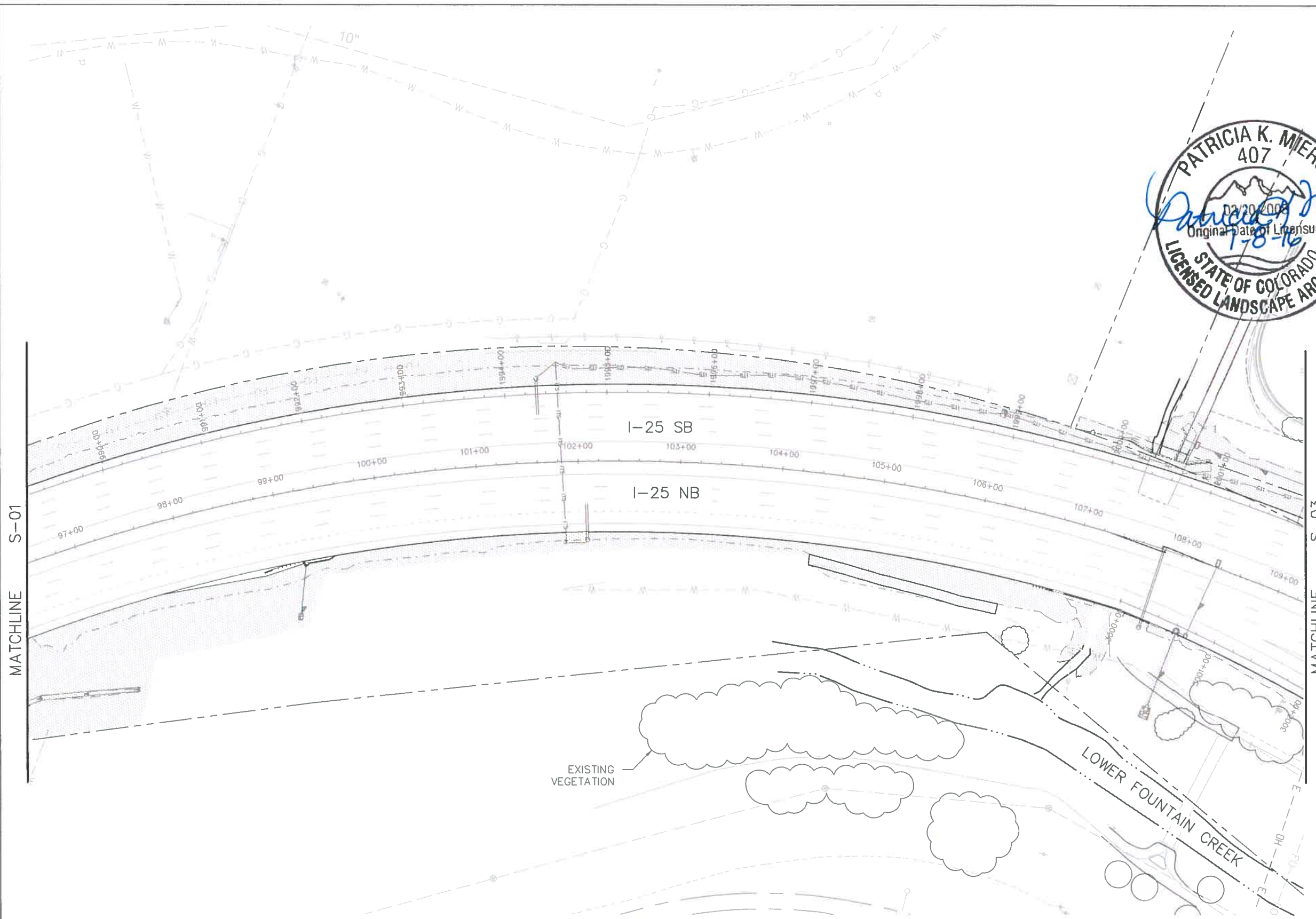
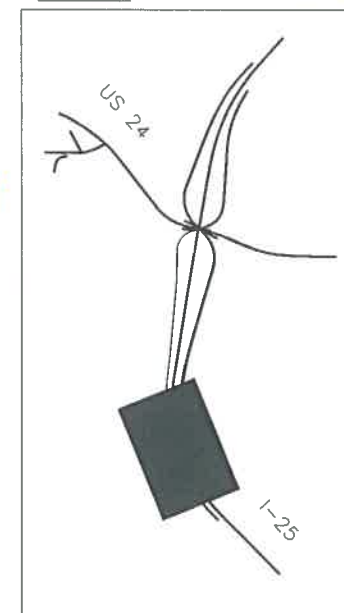
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



LEGEND

- RIPARIAN SEED (SB 40)
- NATIVE SEED
- GORILLA HAIR MULCH
- 1 1/2" ROCK MULCH
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- GRAY STABILIZED CRUSHER FINES

NOTE: PROVIDE COMMERCIAL STEEL EDGING AROUND ALL COBBLE MULCH.



Print Date: 7/5/2016
File Name: 19039_SeedingRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
I-25
SEEDING & MULCHING PLAN
Designer:
Detailer:
Sheet Subset: LANDSCAPE
Structure Numbers:
Subset Sheets: S02 of 08

Project No./Code
IM 0252-423
19039
Sheet Number 24-8

z:\projects\19039\19039_seedingrfc.dwg



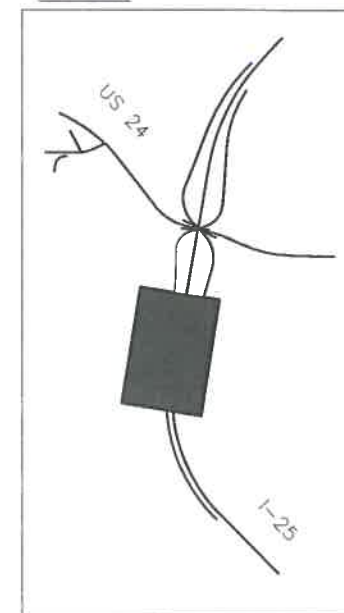
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



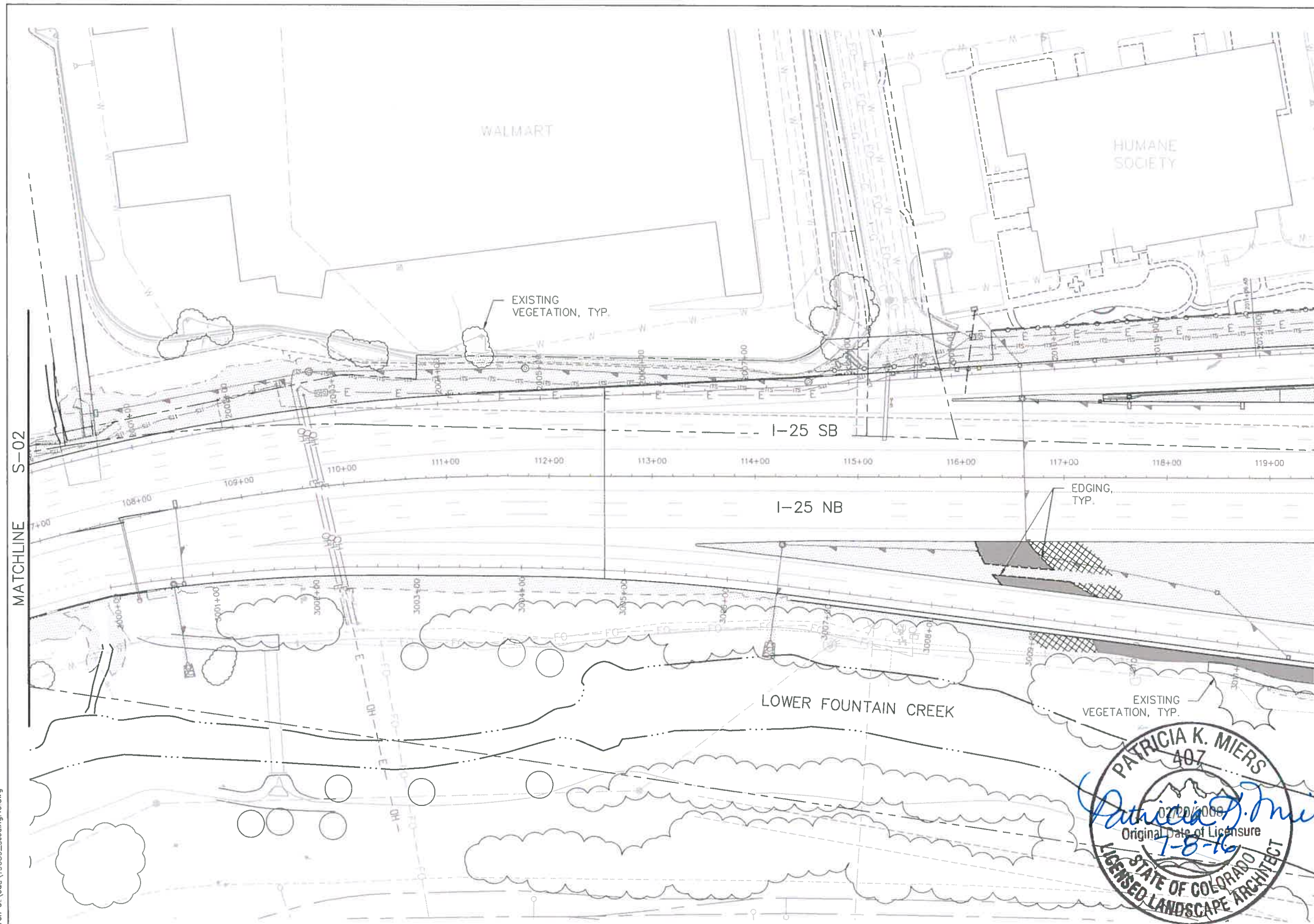
Know what's below.
Call before you dig.

KEY MAP



MATCHLINE S-02

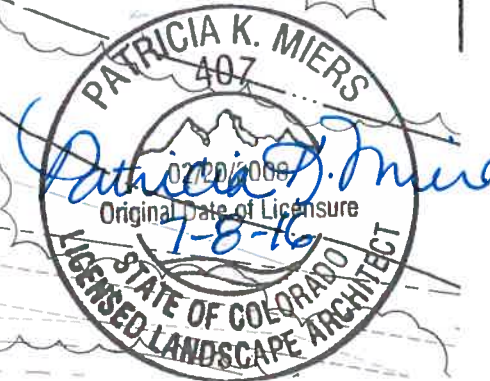
MATCHLINE S-04



LEGEND

- RIPARIAN SEED (SB 40)
- NATIVE SEED
- GORILLA HAIR MULCH
- 1 1/2" ROCK MULCH
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- GRAY STABILIZED CRUSHER FINES

NOTE: PROVIDE COMMERCIAL STEEL EDGING AROUND ALL COBBLE MULCH.



Print Date: 7/5/2016
 File Name: 19039_SeedingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|---|--------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE I-25 SEEDING & MULCHING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: S03 of 08 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| 19039 | |
| Sheet Number | 24-9 |

RFC

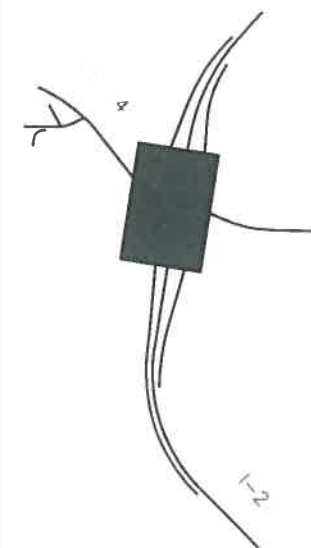
Z:\projects\19039\19039_seedingrfc.dwg

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



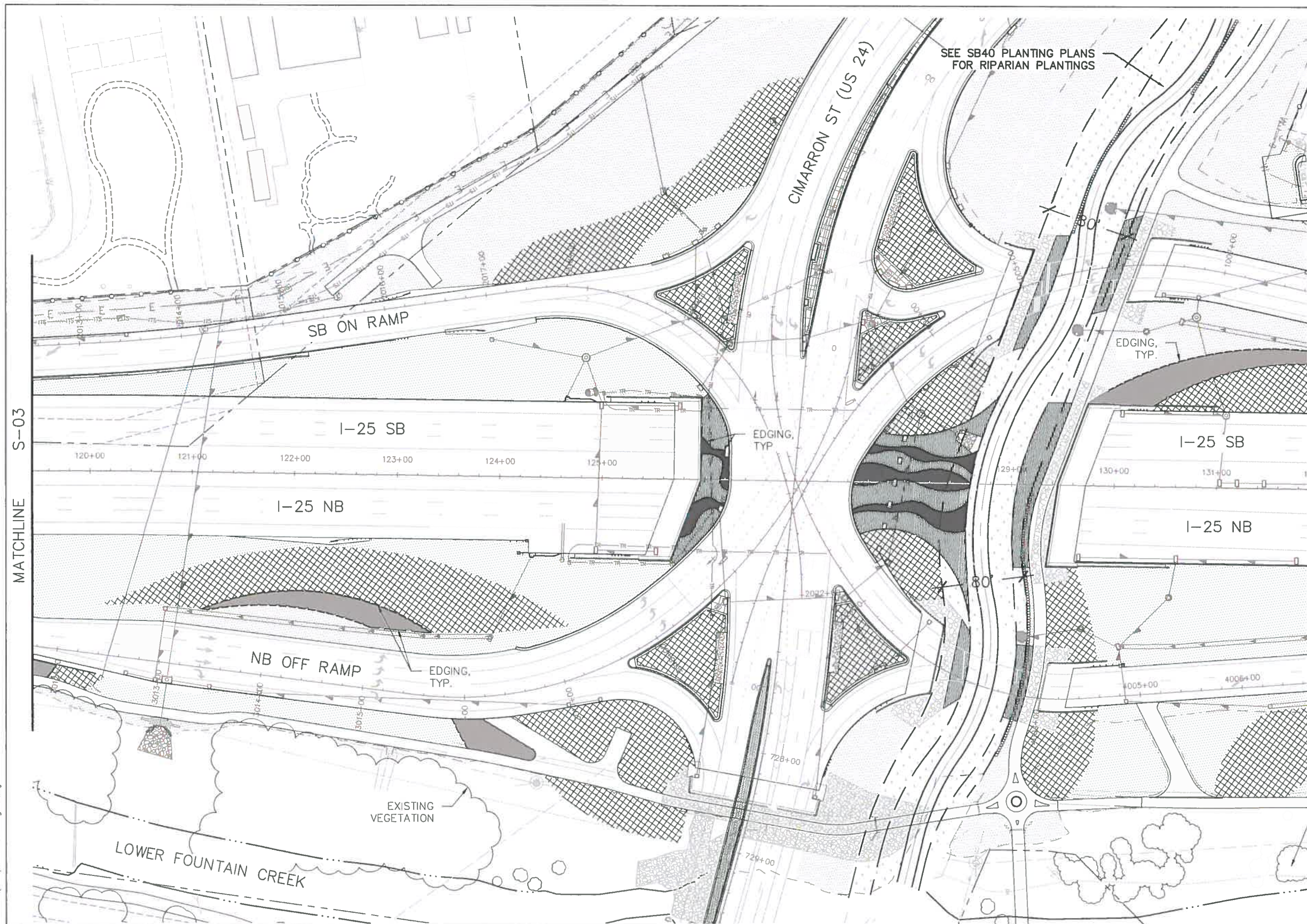
Know what's below.
Call before you dig.

KEY MAP



MATCHLINE S-03

MATCHLINE S-05



LEGEND



NOTE: PROVIDE COMMERCIAL STEEL EDGING AROUND ALL PAVED MULCH



Print Date: 7/5/2016
File Name: 19039_SeedingRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
I-25
SEEDING & MULCHING PLAN
Designer:
Detailer:
Sheet Subset: LANDSCAPE
Structure Numbers
Subset Sheets: S04 of 08

Project No./Code
IM 0252-423
Sheet Number 24-10

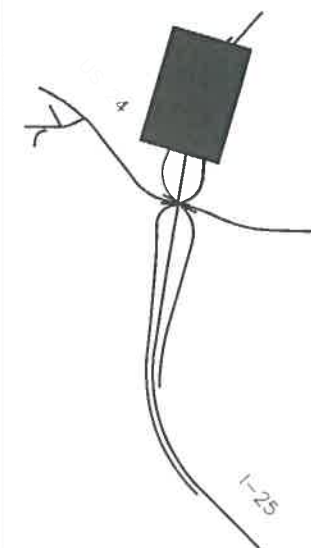
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07 2016

RFC



Know what's below.
Call before you dig.

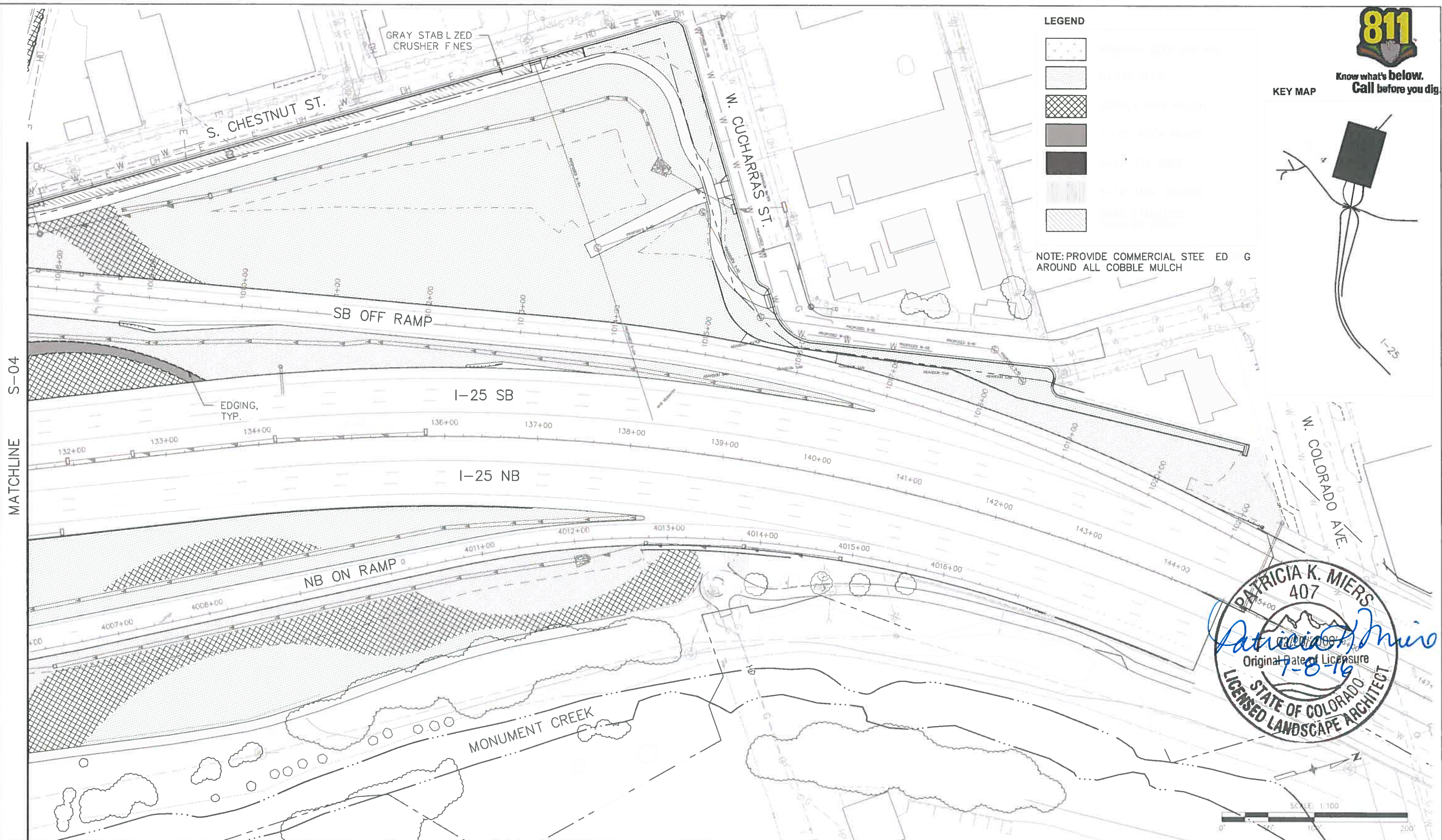
KEY MAP



LEGEND

- RIPARIAN SEED (SP 40)
- NATIVE SEED
- GRILLA HAIR MULCH
-
-
-
- GRAY STABILIZED CRUSHER FINES

NOTE: PROVIDE COMMERCIAL STEE ED G AROUND ALL COBBLE MULCH



MATCHLINE S-04



Print Date: 7/5/2016
 File Name: 19039_SeedingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

As Constructed

No Revisions:

| | |
|---|--------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE I-25 SEEDING & MULCHING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: S05 of 08 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-11 |

RFC

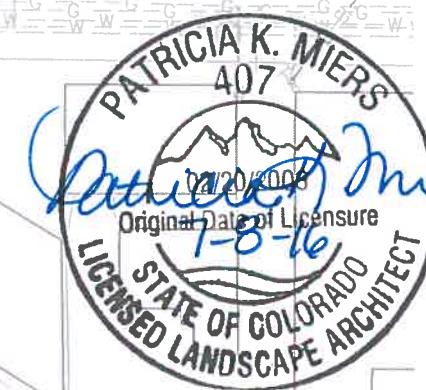
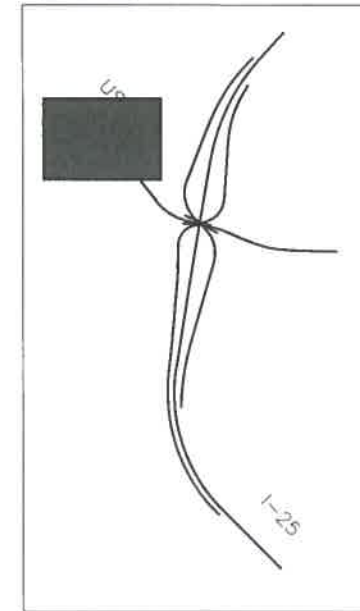
z:\projects\19039\19039_seedingrfc.dwg

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.

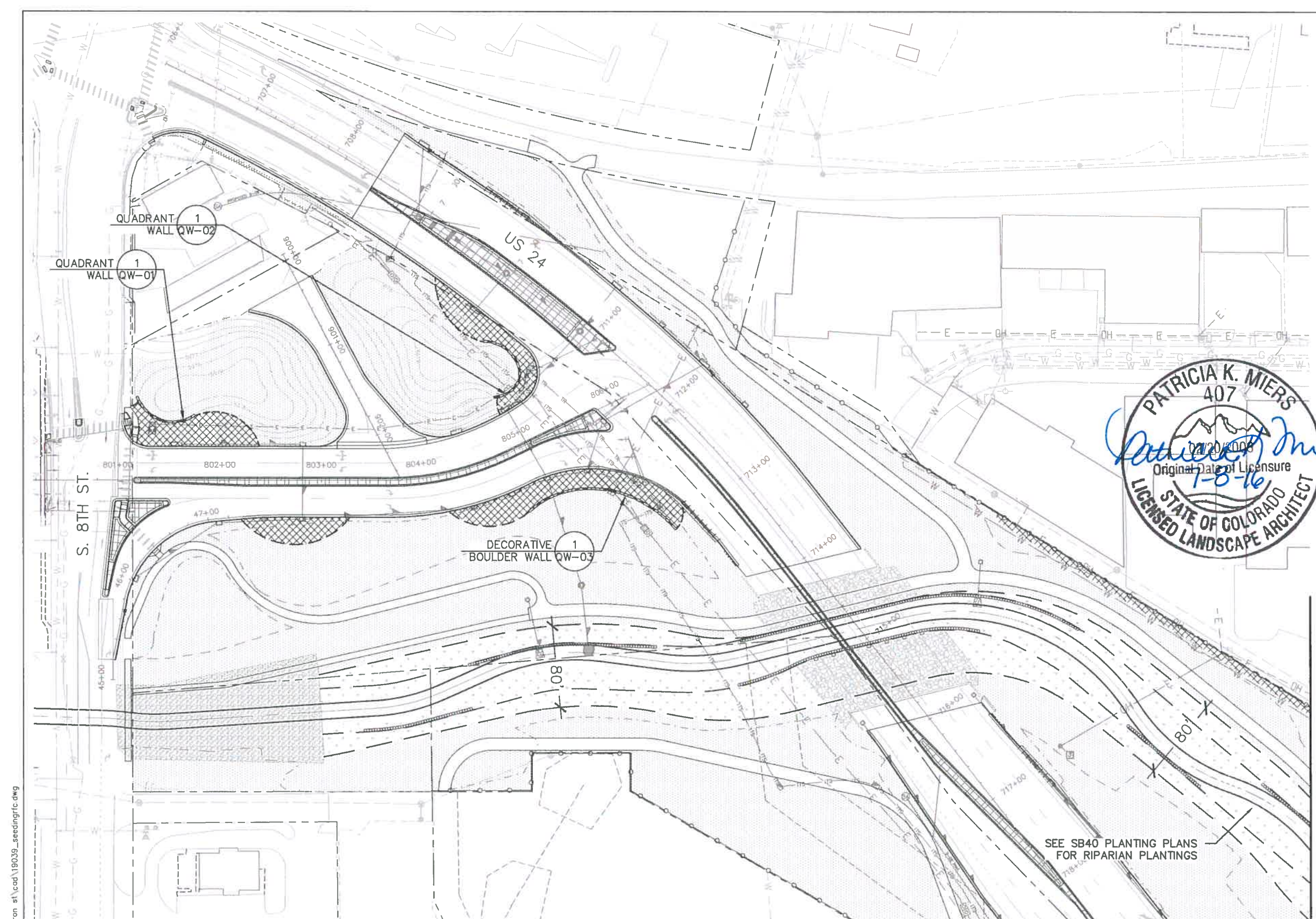
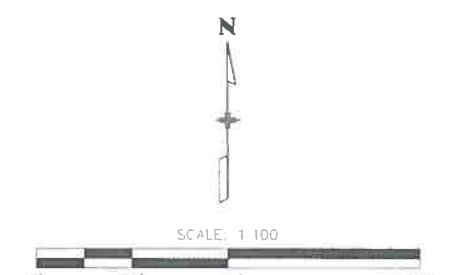
KEY MAP



LEGEND

- RIPARIAN SEED (SB 40)
- NATIVE SEED
- GORILLA HAIR MULCH
- 1 1/2" ROCK MULCH
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- GRAY STABILIZED CRUSHER FINES

NOTE: PROVIDE COMMERCIAL STEEL EDGING AROUND ALL COBBLE MULCH.



SEE SB40 PLANTING PLANS FOR RIPARIAN PLANTINGS

S-07
MATCHLINE

Print Date: 7/5/2016
 File Name: 19039_SeedingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

K
KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
Region 2

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

DMW

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

| | |
|--|--------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE CIMARRON (US 24) AND QUADRANT SEEDING & MULCHING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: S06 of 03 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-12 |

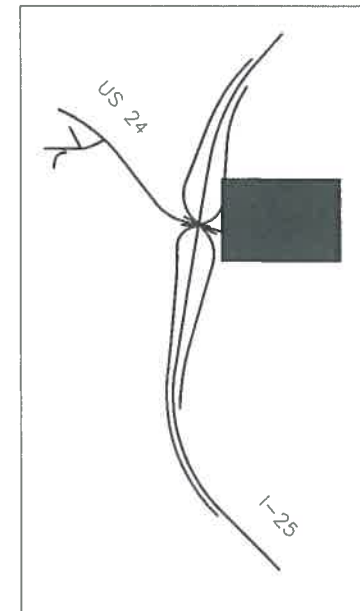
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

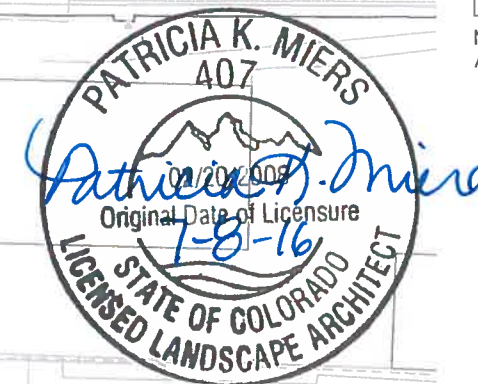
KEY MAP



LEGEND

| | |
|--|-------------------------------|
| | RIPARIAN SEED (SB 40) |
| | NATIVE SEED |
| | GORILLA HAIR MULCH |
| | 1 1/2" ROCK MULCH |
| | 5-12" CO. ROSE |
| | 5-12" MTN. GRANITE |
| | GRAY STABILIZED CRUSHER FINES |

NOTE: PROVIDE COMMERCIAL STEEL EDGING AROUND ALL COBBLE MULCH.

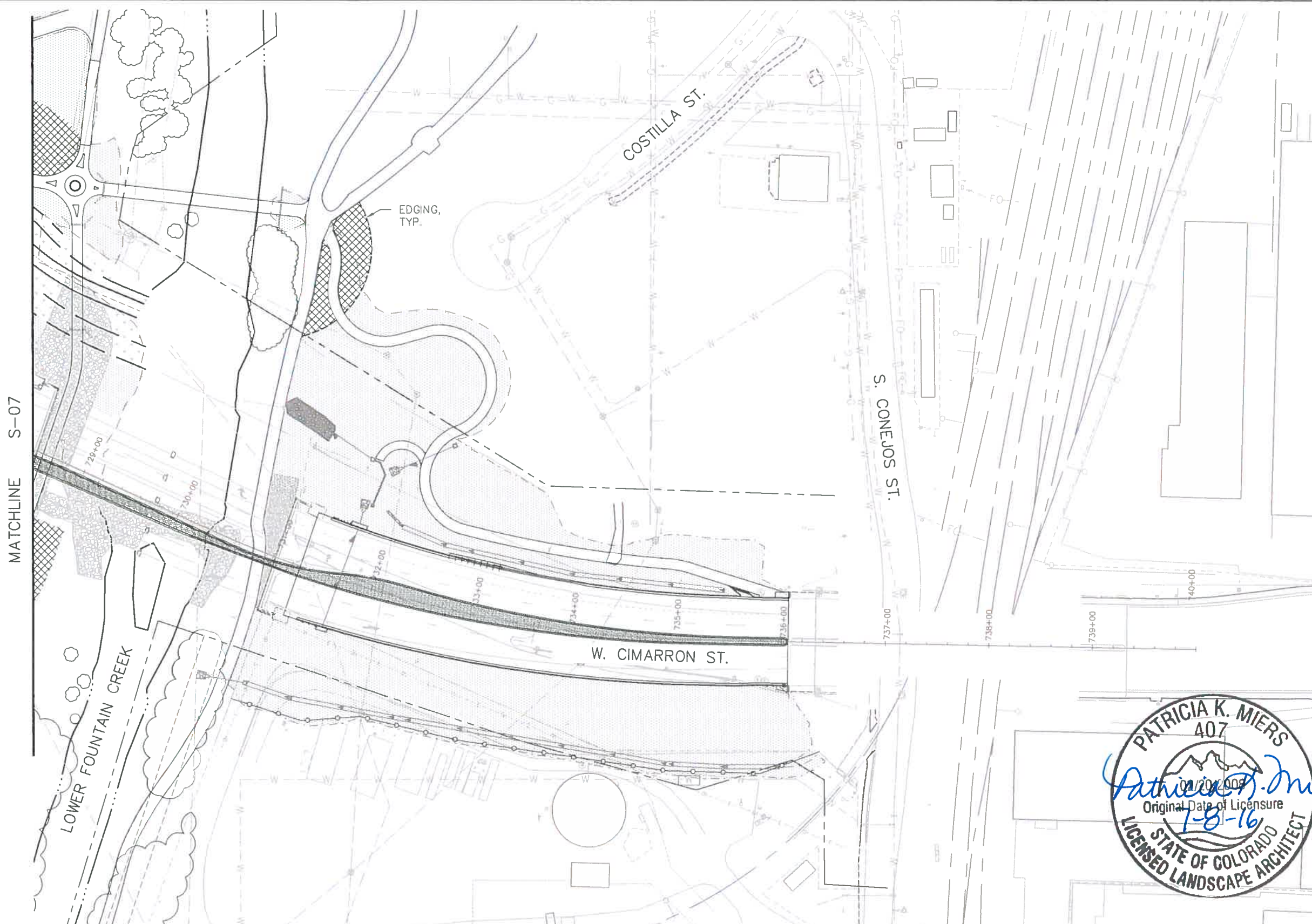


N

SCALE: 1/100



MATCHLINE S-07



EDGING, TYP.

COSTILLA ST.

S. CONEJOS ST.

W. CIMARRON ST.

LOWER FOUNTAIN CREEK

Print Date: 7/5/2016
File Name: 19039_SeedingRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

Sheet Revisions

| Date: | Comments | Init. |
|-------|----------|-------|
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
Region 2 DMW

As Constructed

No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
CIMARRON (US 24)
SEEDING & MULCHING PLAN

Designer:
Detailer:
Sheet Subset: LANDSCAPE
Structure Numbers:
Subset Sheets: S08 of 08

Project No./Code
IM 0252-423
19039
Sheet Number 24-14

z:\projects\sh\1-25 cimarron st\cad\19039_seedingrfc.dwg

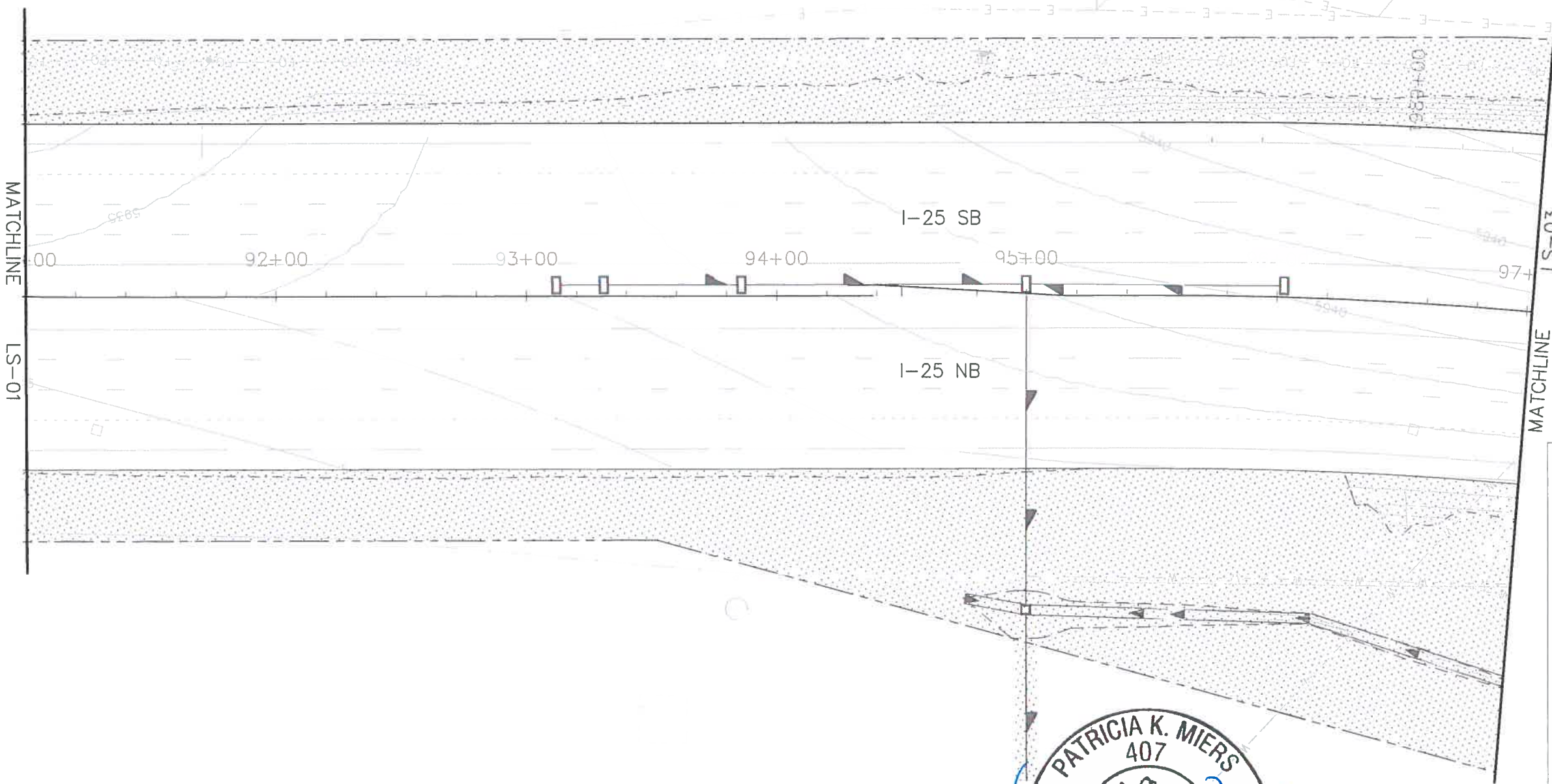


RFC

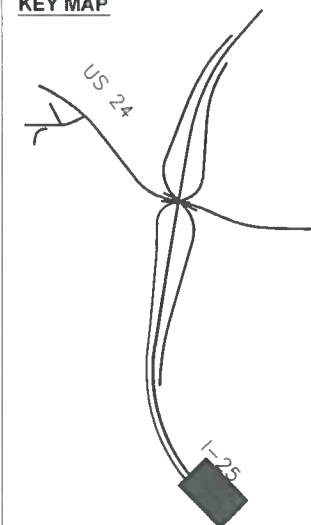
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.



KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



z:\projects\19039\19039_LandscapeRFC.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 Region 2 DMW

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

| | | |
|----------------|--------------------------------------|---------------------------|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
| No Revisions: | I-25 LANDSCAPE PLAN | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | Subset Sheets: LS02 of 26 |
| | Sheet Subset: LANDSCAPE | |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-16 |

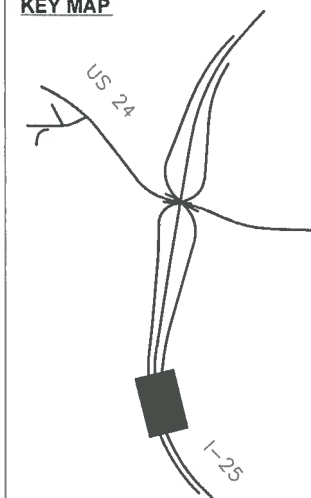
RFC

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.

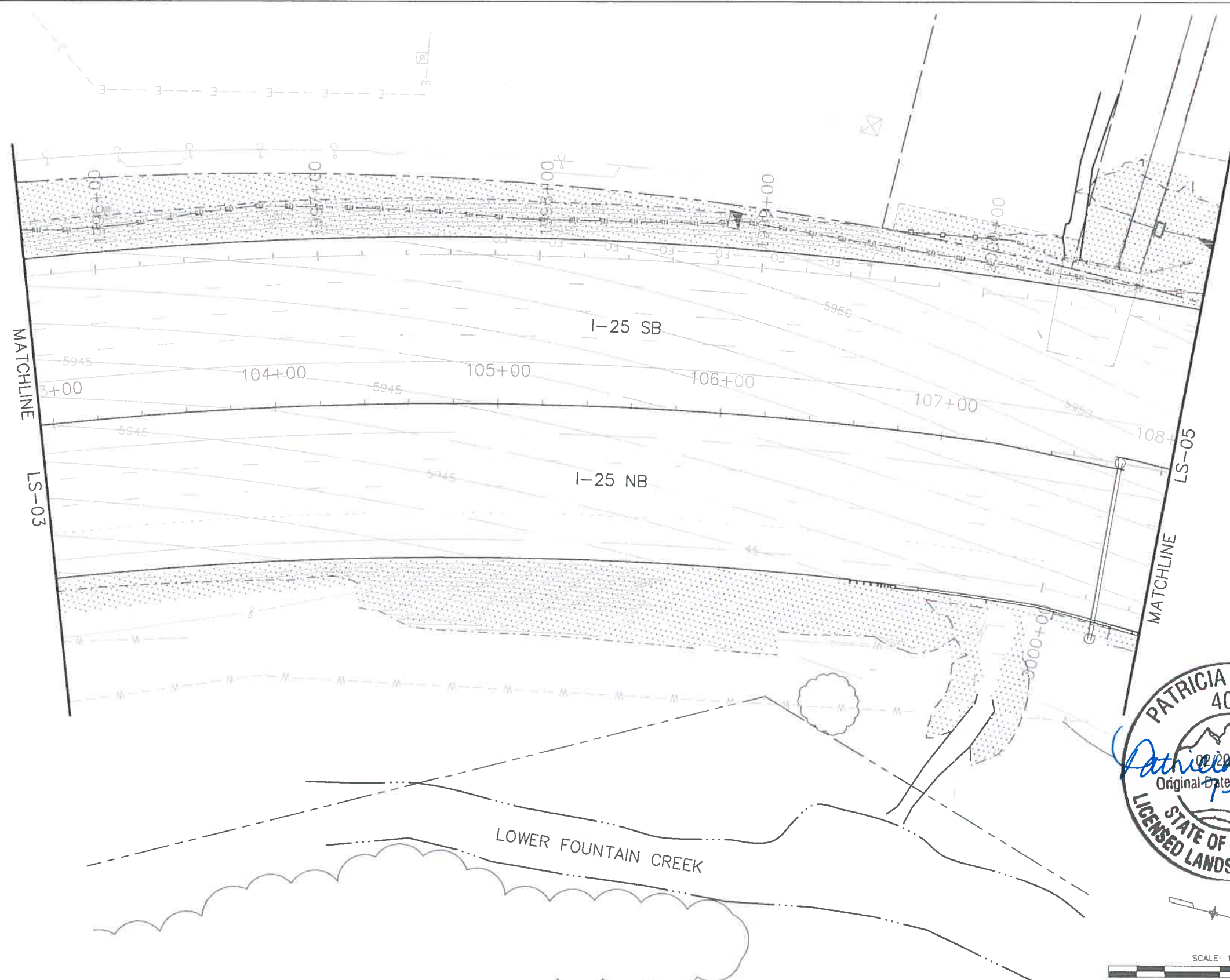
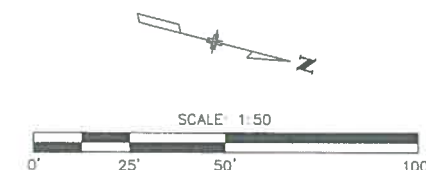
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

Print Date: 7/5/2016
File Name: 19039_LandscapeRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
 I-25
 LANDSCAPE PLAN
 Designer:
 Detailer:
 Sheet Subset: LANDSCAPE
 Structure Numbers:
 Subset Sheets: LS04 of 26

Project No./Code
 IM 0252-423
 19039
 Sheet Number 24-18



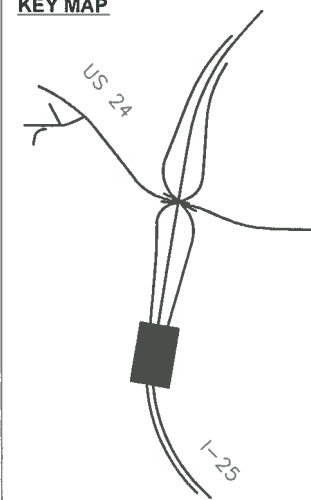
z:\projects\sh\I-25\cimarron st\ccd\19039_LandscapeRFC.dwg

RFC



Know what's below.
Call before you dig.

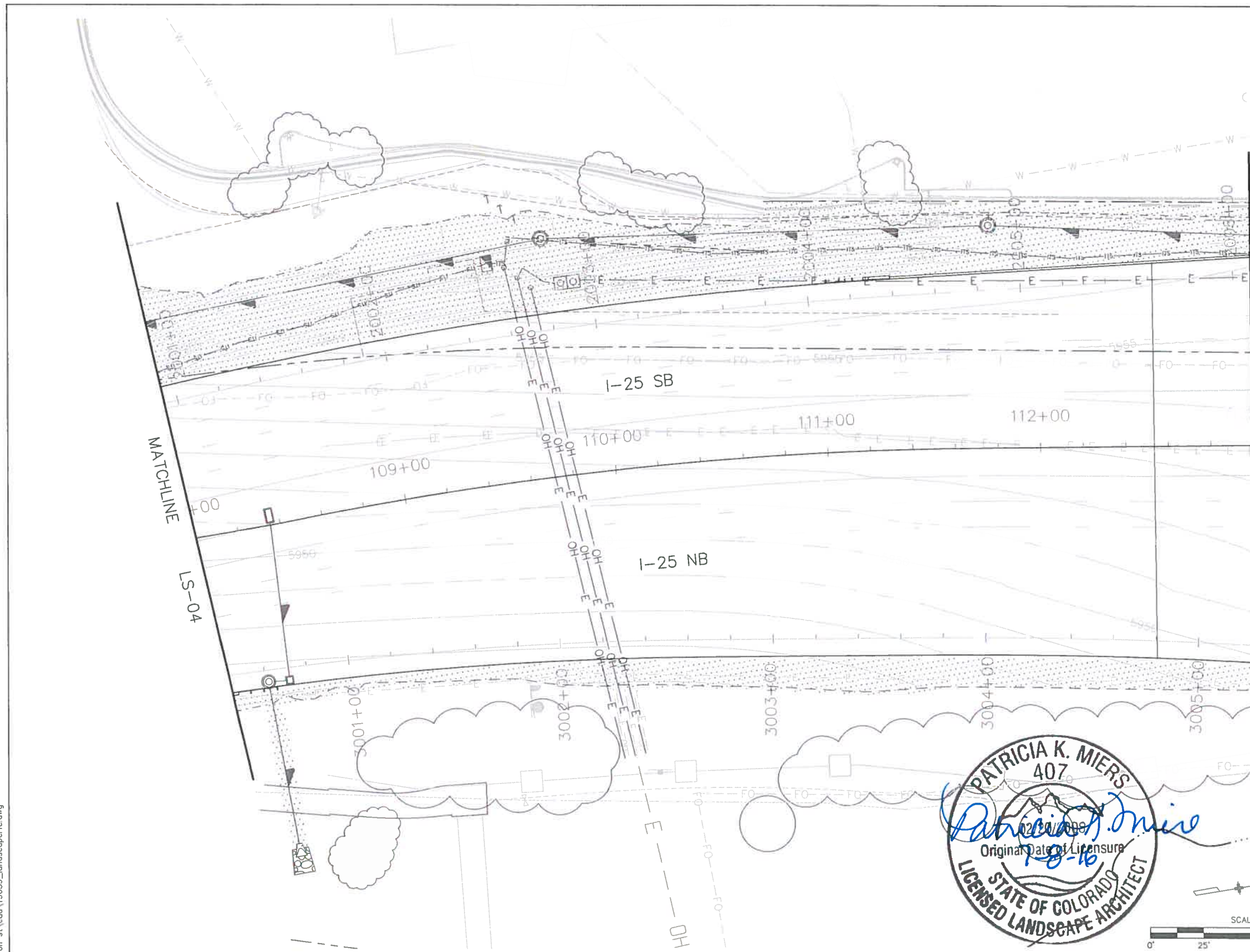
KEY MAP



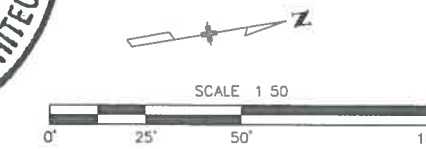
SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



PATRICIA K. MIERS
407
Patricia K. Miers
Original Date of Licensure
7-8-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT



Print Date: 7/5/2016
File Name: 19039_LandscapeRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
Region 2 DMW

| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
|----------------|--------------------------------------|---------------------------|
| No Revisions: | I-25 LANDSCAPE PLAN | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | Sheet Subset: LANDSCAPE |
| | | Subset Sheets: LS05 of 26 |

Project No./Code
IM 0252-423
19039
Sheet Number **24-19**

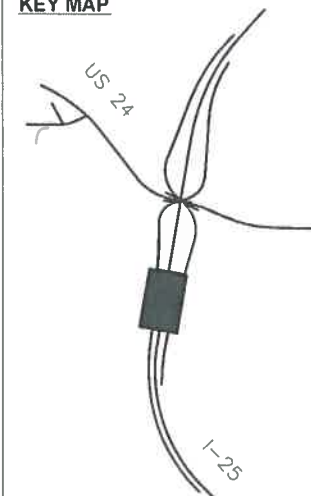
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\tsi\I-25 cimarron st\cad\19039_LandscapeRFC.dwg



Know what's below.
Call before you dig.

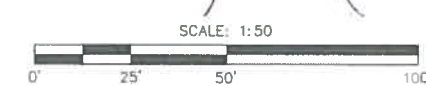
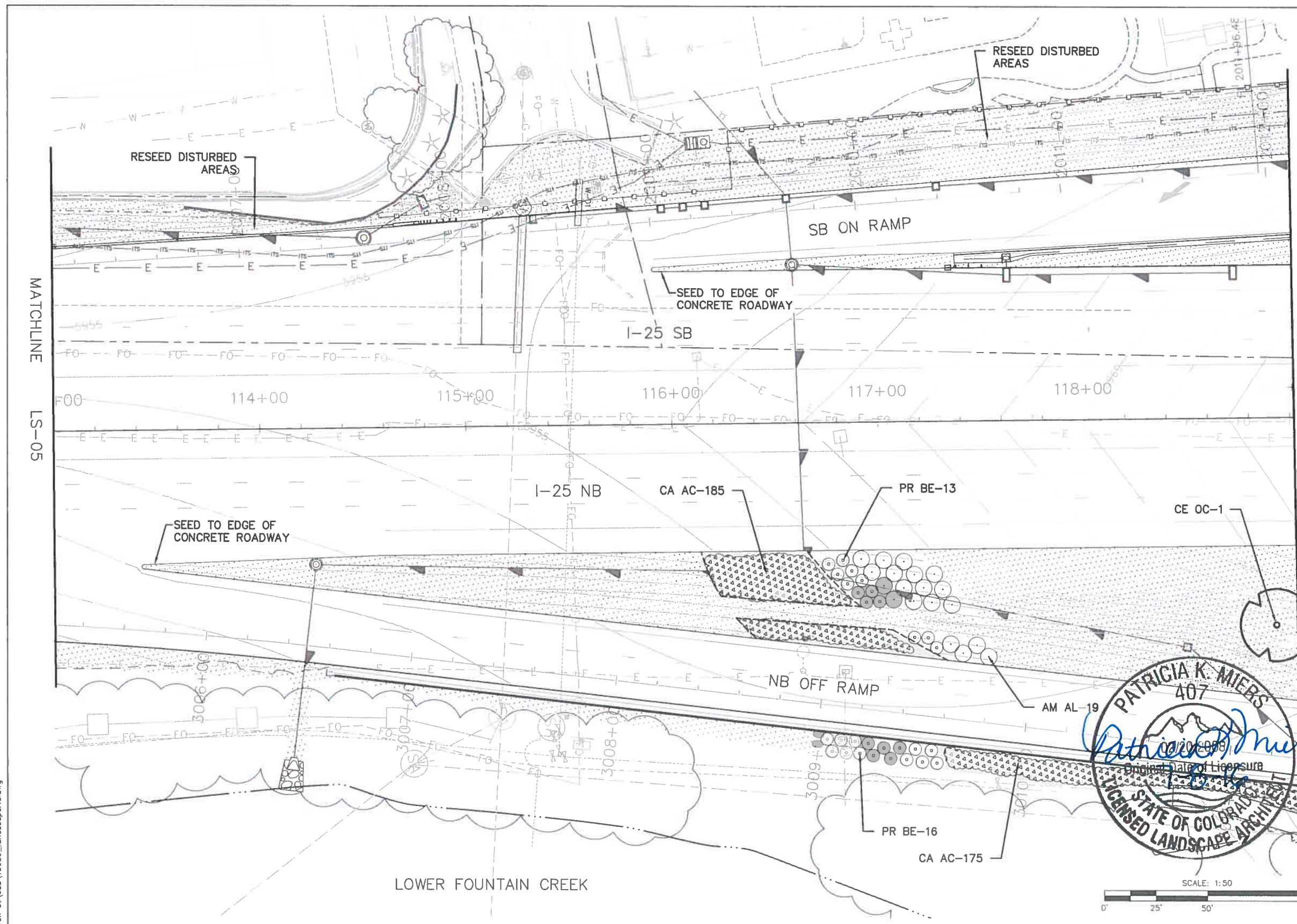
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LAND AREA BOUNDARY
- LAND AREA BOUNDARY
- SHRUBS
- PENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5 1/2" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
 I-25
 LANDSCAPE PLAN

Designer:
 Detailer:
 Sheet Subset: LANDSCAPE

Structure Numbers:
 Subset Sheets: LS06 of 26

Project No./Code
 IM 0252-423
 19039
 Sheet Number 24-20

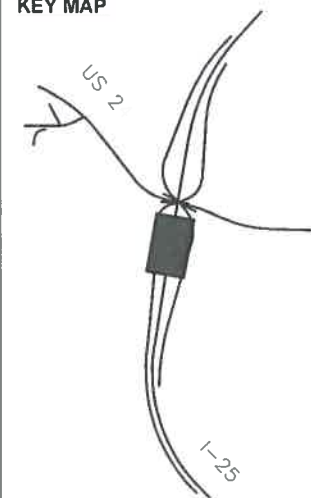
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\sh\19039\19039_landscaperfc.dwg



Know what's below.
Call before you dig.

KEY MAP

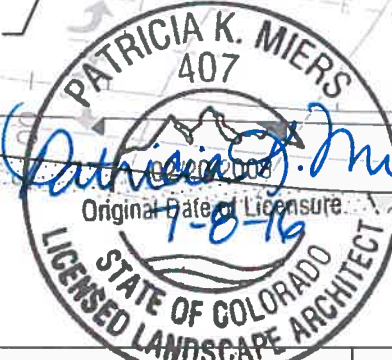
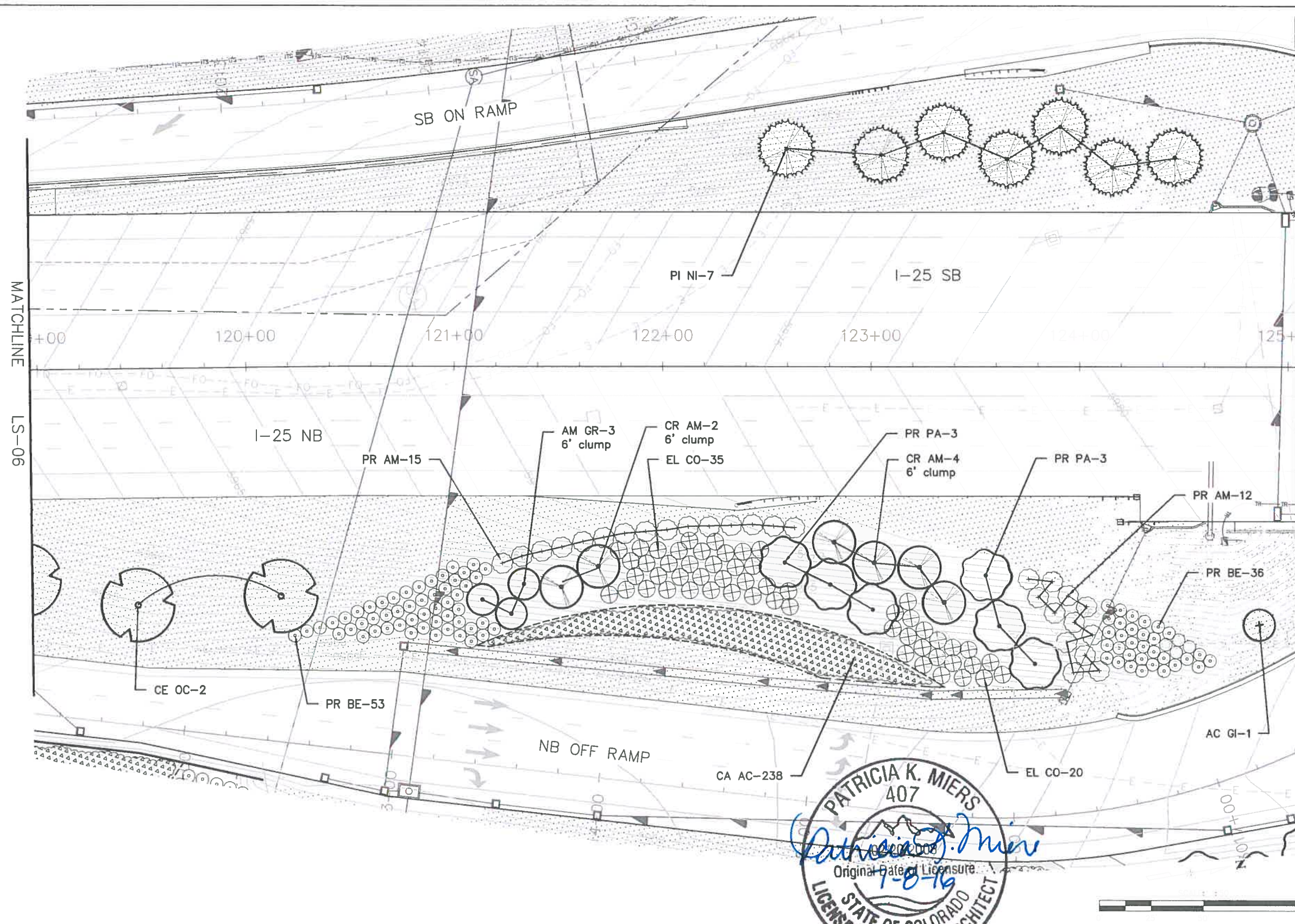


SEE S:

- ETS: LS-01 - LS-11
- EETS: LS-12 - LS-17
- EETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE OBJECTS
- LANDSCAPE SCULPTURES
- BUS
- OBSTACLE
- GRAVEL SURFING SS
- BUAVENING SS
- PAVING
- GRAVEL BED (S 0)
- 12" CO ROSE
- 5-12" WHITE GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIDUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEHER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

| | | |
|----------------|--------------------------------------|---------------------------|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
| No Revisions: | I-25 LANDSCAPE PLAN | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | |
| | Sheet Subset: LANDSCAPE | Subset Sheets: LS07 of 26 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| 19039 | |
| Sheet Number | 24-21 |

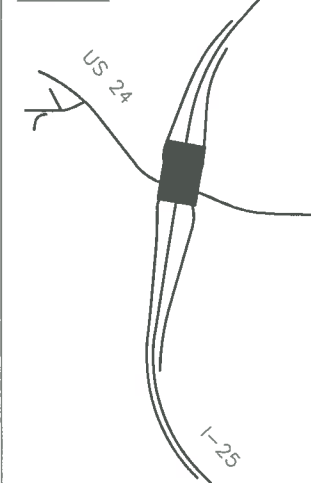
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\sh\19039\19039_landscaperfc.dwg



Know what's below.
Call before you dig.

KEY MAP



| | | | | | | |
|---|---|---|---|-----|---|-------|
| S | E | S | S | S-0 | - | LS-11 |
| T | S | | | | | LS-17 |
| R | S | | | S | - | LS-26 |
| U | S | | | | | |

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



SEE SB40 PLANTING PLANS FOR RIPARIAN PLANTINGS

SEE SHEET LS-21 FOR THESE QUANTITIES

SEE SHEET LS-21 FOR THESE QUANTITIES



MATCHLINE

LS-07

MATCHLINE

z:\projects\19039\19039_landscaperfc.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | | |
|-----------------|----------|-------|--|
| Date: | Comments | Init. | |
| | | | |
| | | | |
| | | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--------------------------------------|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| I-25 LANDSCAPE PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: LS08 of 25 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-22 |

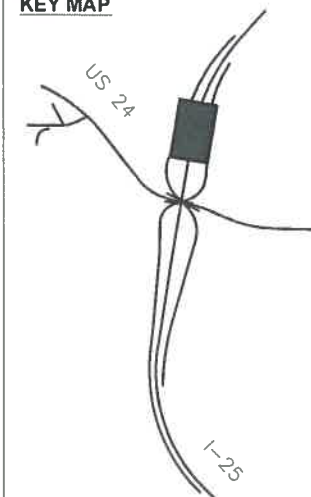
RFC

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.

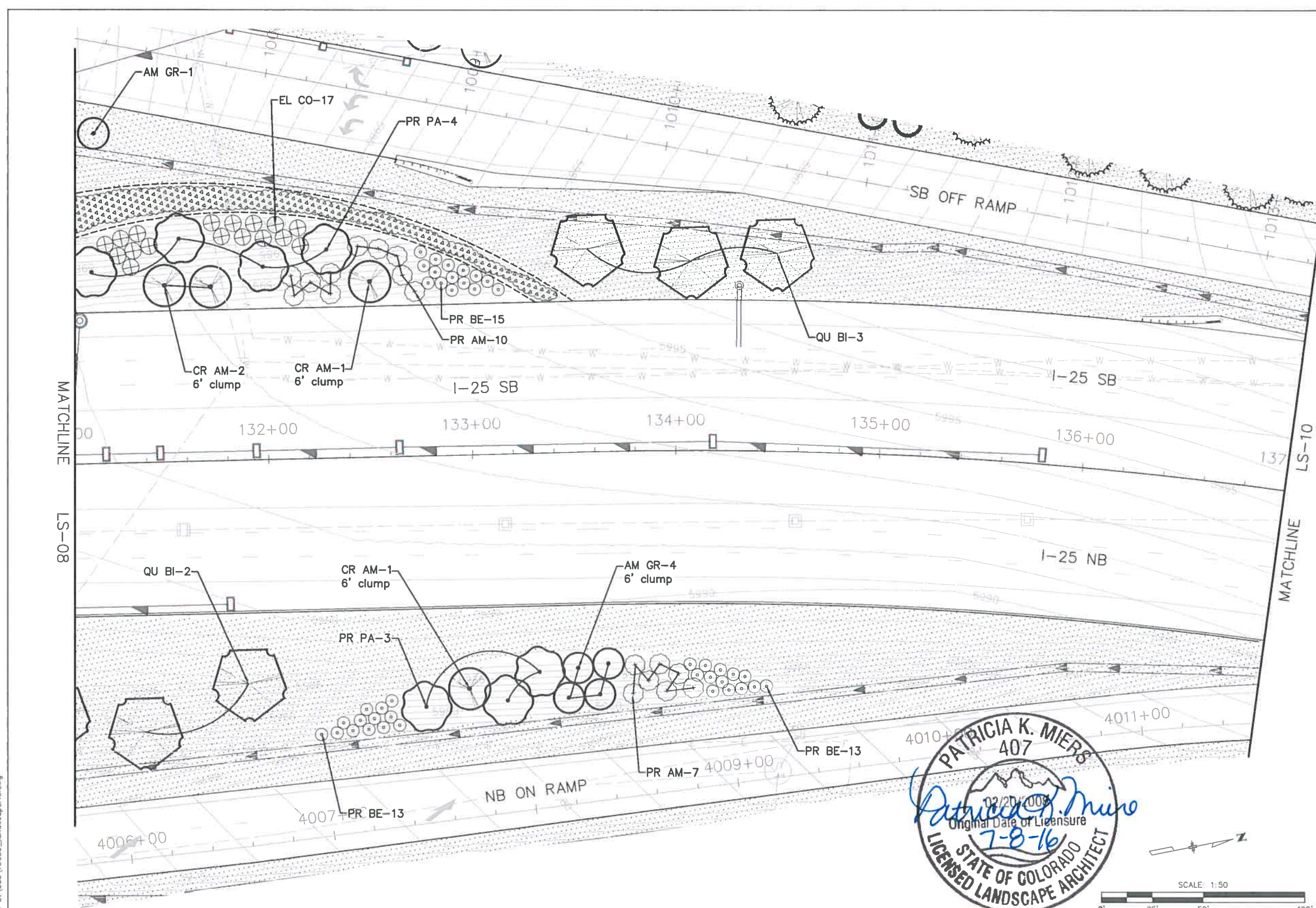
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP. SEE UPPER FOUNTAIN CREEK PLANS



z:\projects\19039_cimarron_st\19039_landscapeRFC.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
|----------------|--------------------------------------|---------------------------|
| No Revisions: | I-25 LANDSCAPE PLAN | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | |
| | Sheet Subset: LANDSCAPE | Subset Sheets: LS09 of 26 |

| Project No./Code |
|--------------------|
| IM 0252-423 |
| 19039 |
| Sheet Number 24-23 |

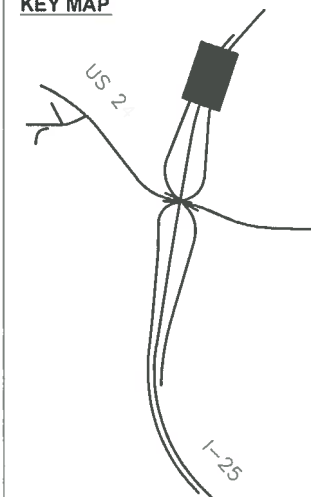
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

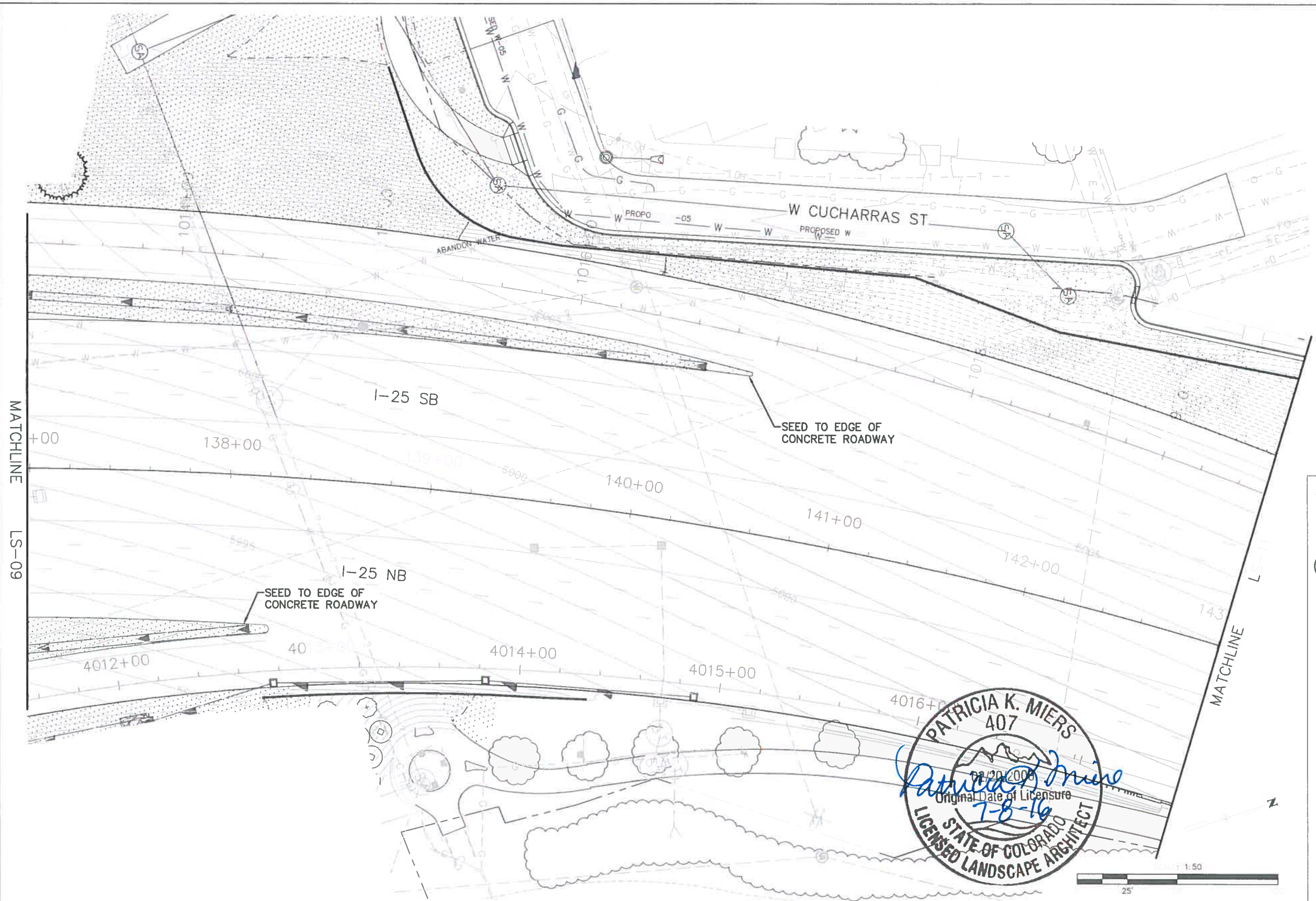
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MT. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



PATRICIA K. MIERS
407
02/20/2008
Patricia K. Miers
Original Date of Licensure
7-8-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT



Print Date: 7/5/2016
File Name: 19039_LandscapeRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

TSIUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
I-25
LANDSCAPE PLAN

Designer: _____ Structure Numbers: _____
Detailer: _____

Sheet Subset: LANDSCAPE Subset Sheets: LS10 of 26

Project No./Code
IM 0252-423

19039

Sheet Number 24-24

z:\projects\19039\19039_cimarron_st\cad\19039_landscapeRFC.dwg

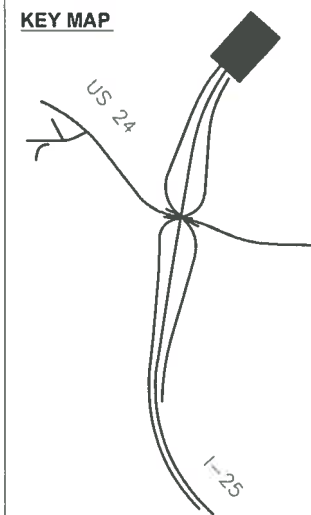
RFC 24 - LANDSCAPE AND IRRIGATION 07 07 2016

RFC



Know what's below.
Call before you dig.

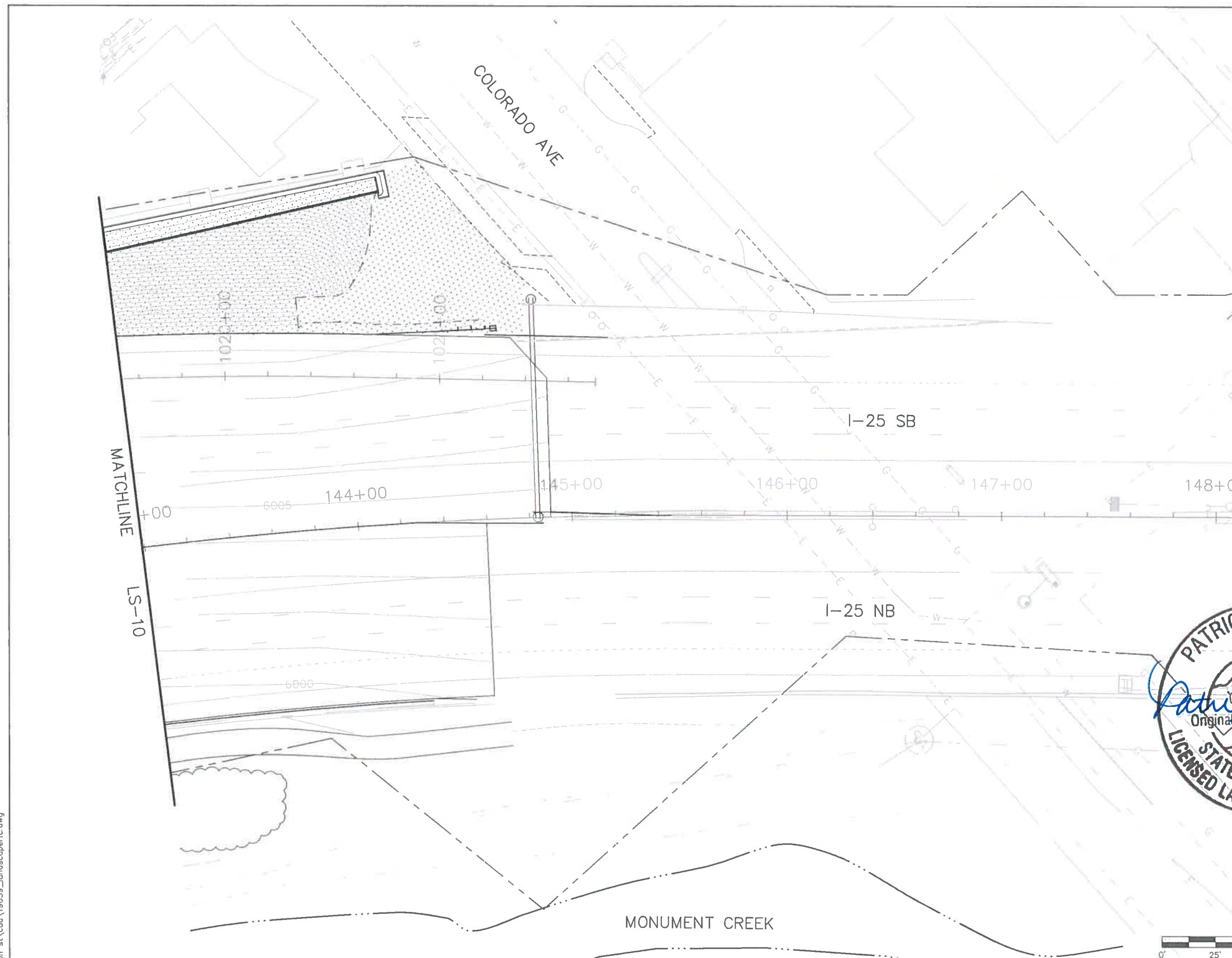
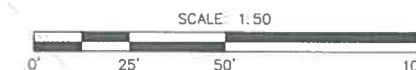
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
 I-25
 LANDSCAPE PLAN

Designer: _____ Structure Numbers: _____

Detailer: _____

Sheet Subset: LANDSCAPE Subset Sheets: LS11 of 26

Project No./Code

IM 0252-423

19039

Sheet Number **24-25**

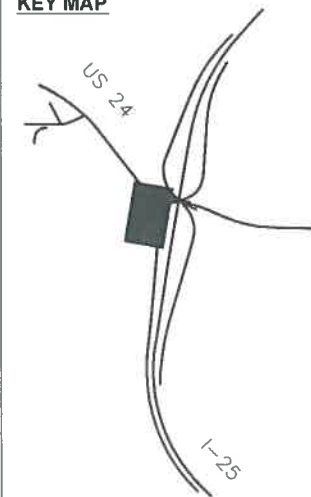
z:\projects\19039\19039_LandscapeRFC.dwg

RFC



Know what's below.
Call before you dig.

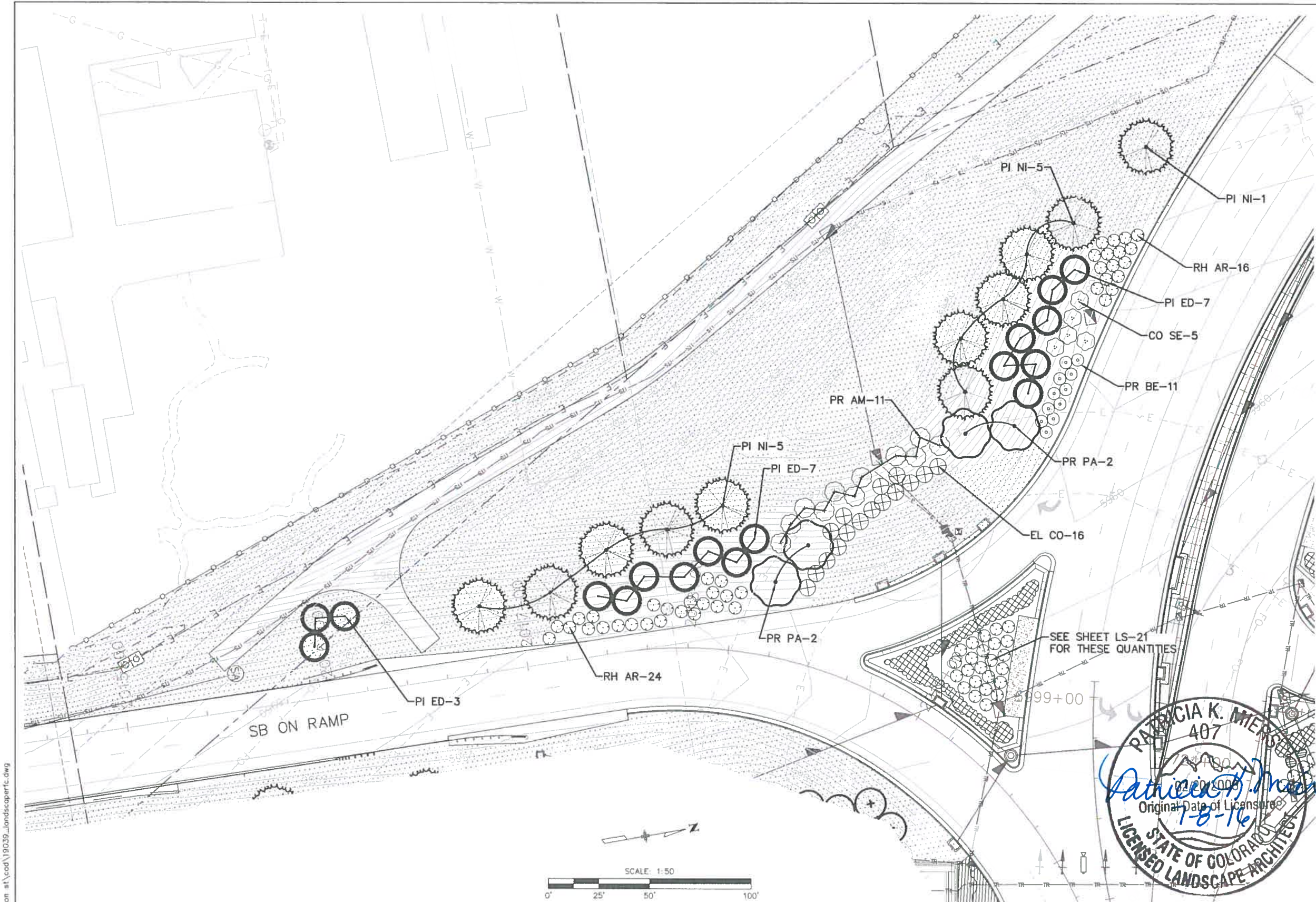
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BORDER
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (B40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



PATRICIA K. MENDOZA
407
Original Date of License
7-8-16
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

Print Date: 7/5/2016
File Name: 19039_LandscapeRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--|-------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE SB ON RAMP LANDSCAPE PLAN | |
| Designer: | Structure Numbers |
| Sheet Subset: LANDSCAPE Subset Sheets: LS12 of 26 | |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-26 |

RFC

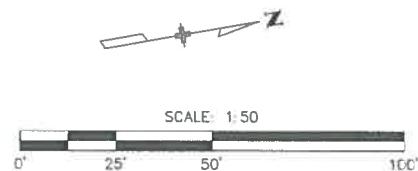
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



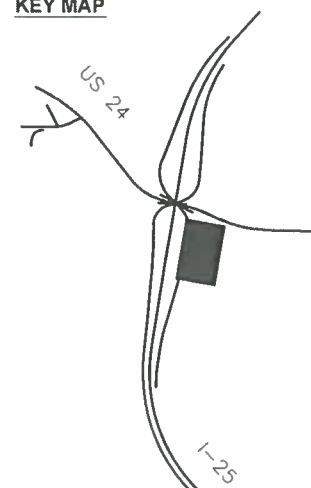
Know what's below.
Call before you dig.

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- PERENNIALS/GRASSES
- RIPARIAN SEED (SB40)
- NATIVE SEED
- 4-8" ROCK MULCH
- 6-12" ROCK MULCH
- EXISTING TREES TO REMAIN



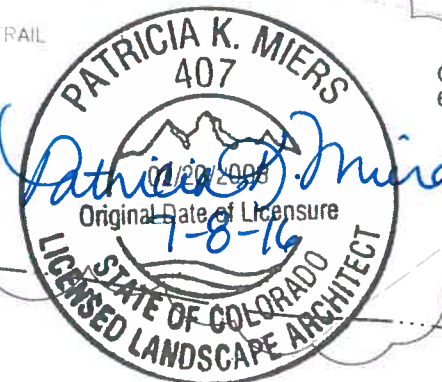
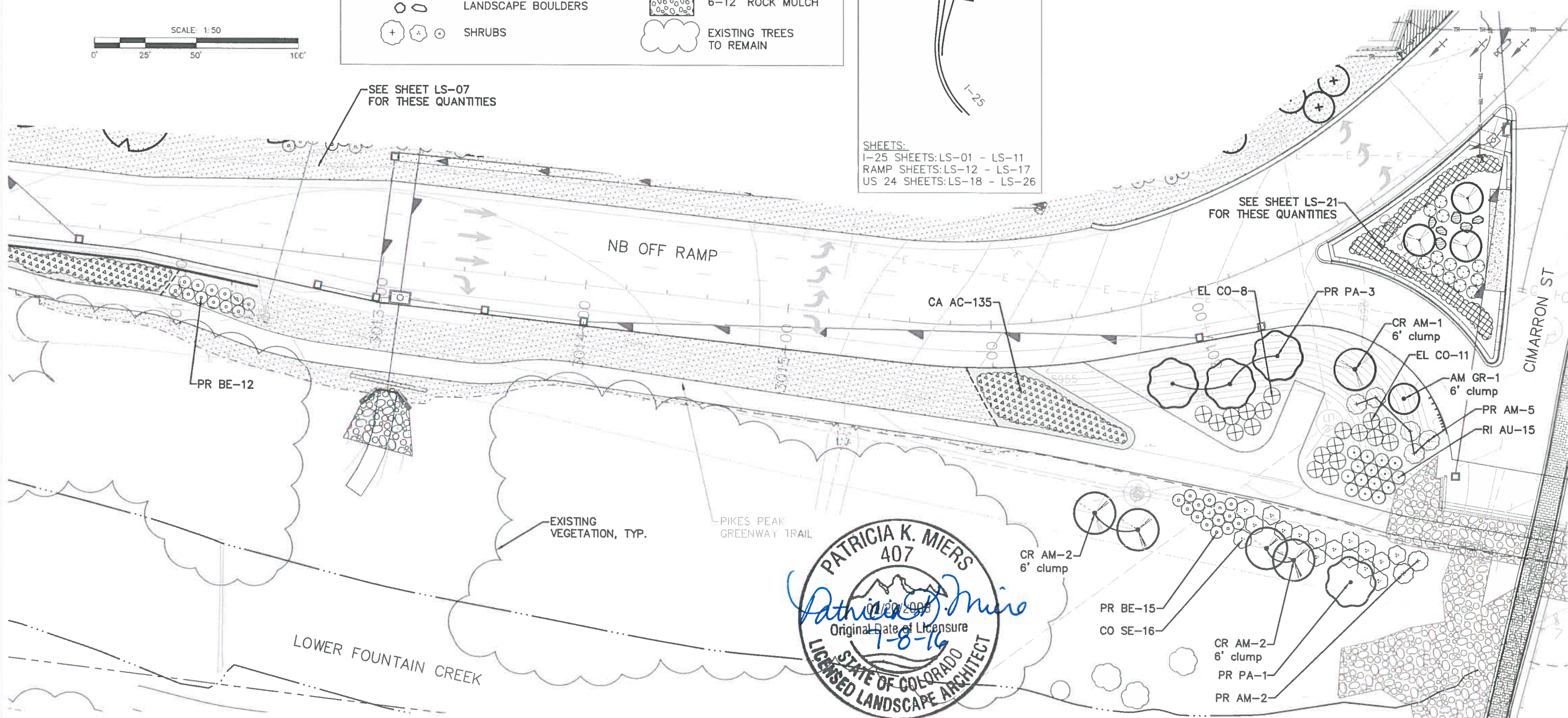
KEY MAP



SHEETS:
 I-25 SHEETS: LS-01 - LS-11
 RAMP SHEETS: LS-12 - LS-17
 US 24 SHEETS: LS-18 - LS-26

SEE SHEET LS-07 FOR THESE QUANTITIES

SEE SHEET LS-21 FOR THESE QUANTITIES



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

| | | | | | | | |
|--|--|---|--|--|--|---|--|
| Print Date: 7/5/2016 File Name: 19039_LandscapeRFC.dwg Horiz. Scale: As Noted Vert. Scale: As Noted | Sheet Revisions Date: Comments Init. | | | Colorado Department of Transportation 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | As Constructed No Revisions: Revised: Void: | I-25/CIMARRON ST (US 24) INTERCHANGE NB OFF RAMP LANDSCAPE PLAN | Project No./Code IM 0252-423 19039 Sheet Number 24-29 |
| | | Designer: Detailer: Sheet Subset: LANDSCAPE | Structure Numbers: Subst Sheets: LS15 of 26 | | | | |

z:\projects\lan\I-25_cimarron st\cad\19039_landscaperfc.dwg

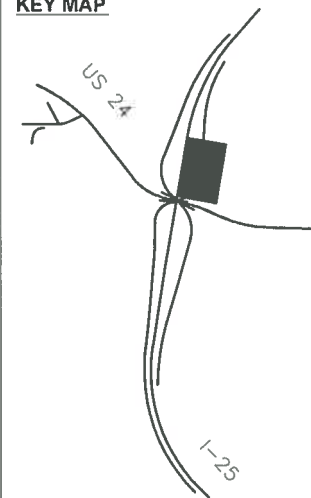


RFC



Know what's below.
Call before you dig.

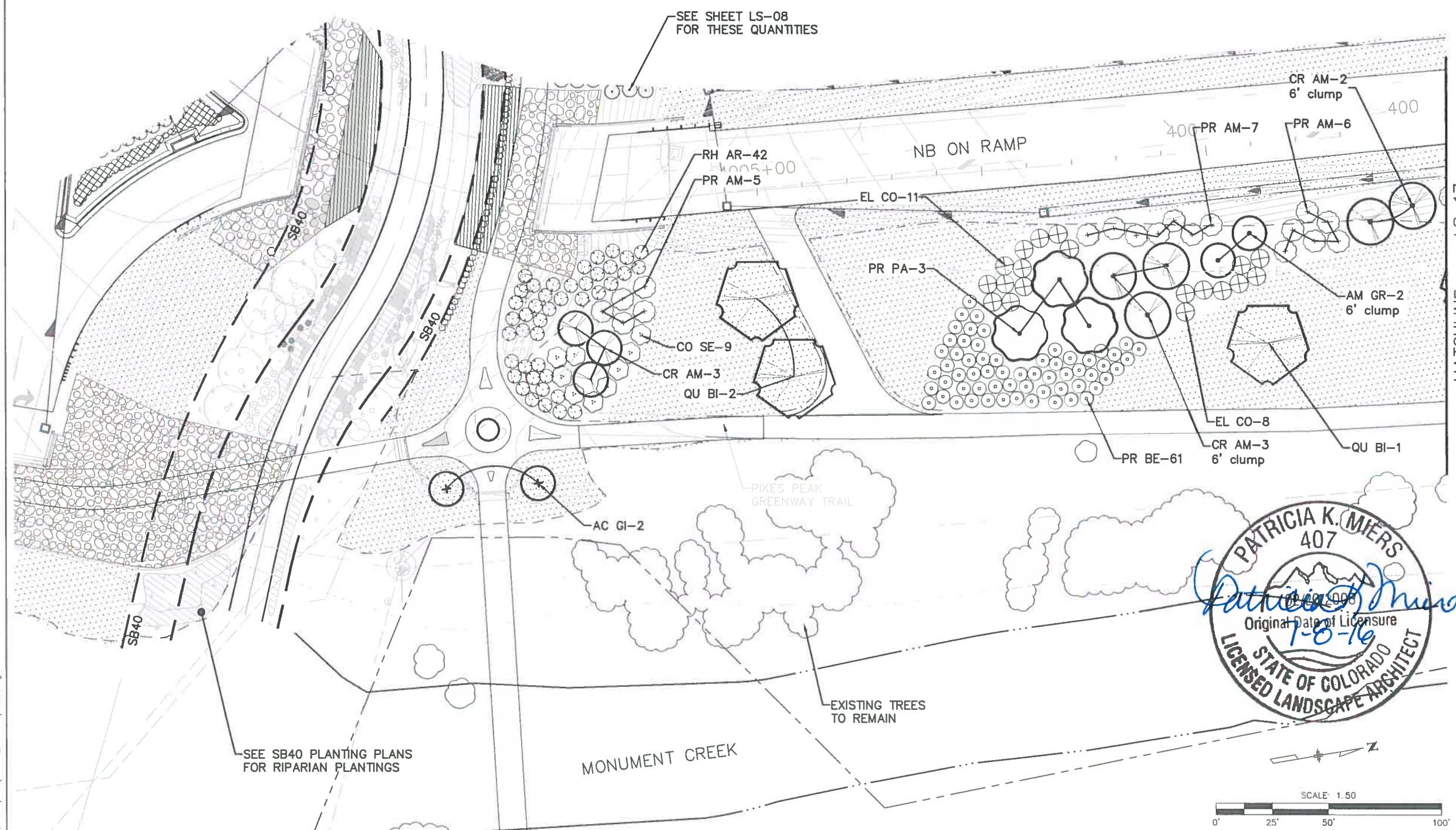
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

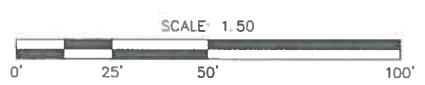
LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



SEE SHEET LS-08 FOR THESE QUANTITIES

SEE SB40 PLANTING PLANS FOR RIPARIAN PLANTINGS



z:\projects\19039\1-25 cimarron st\1-25 cimarron st\19039_landscape\rfc.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE NB ON RAMP LANDSCAPE PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: LS16 of 26 |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-30 |

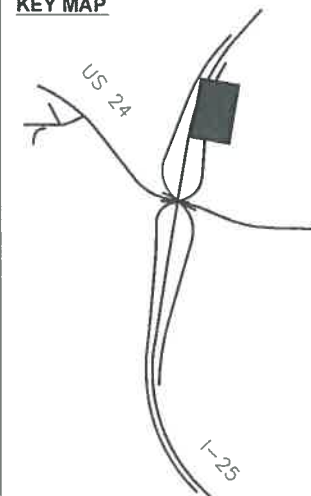
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

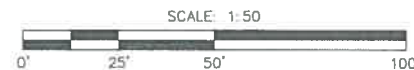
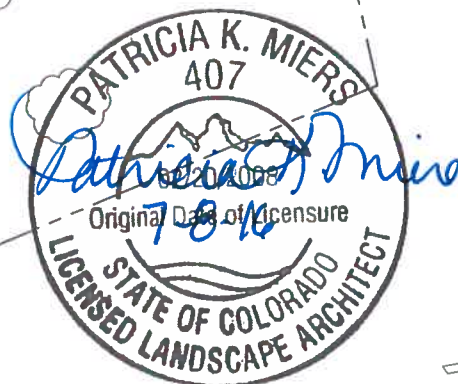
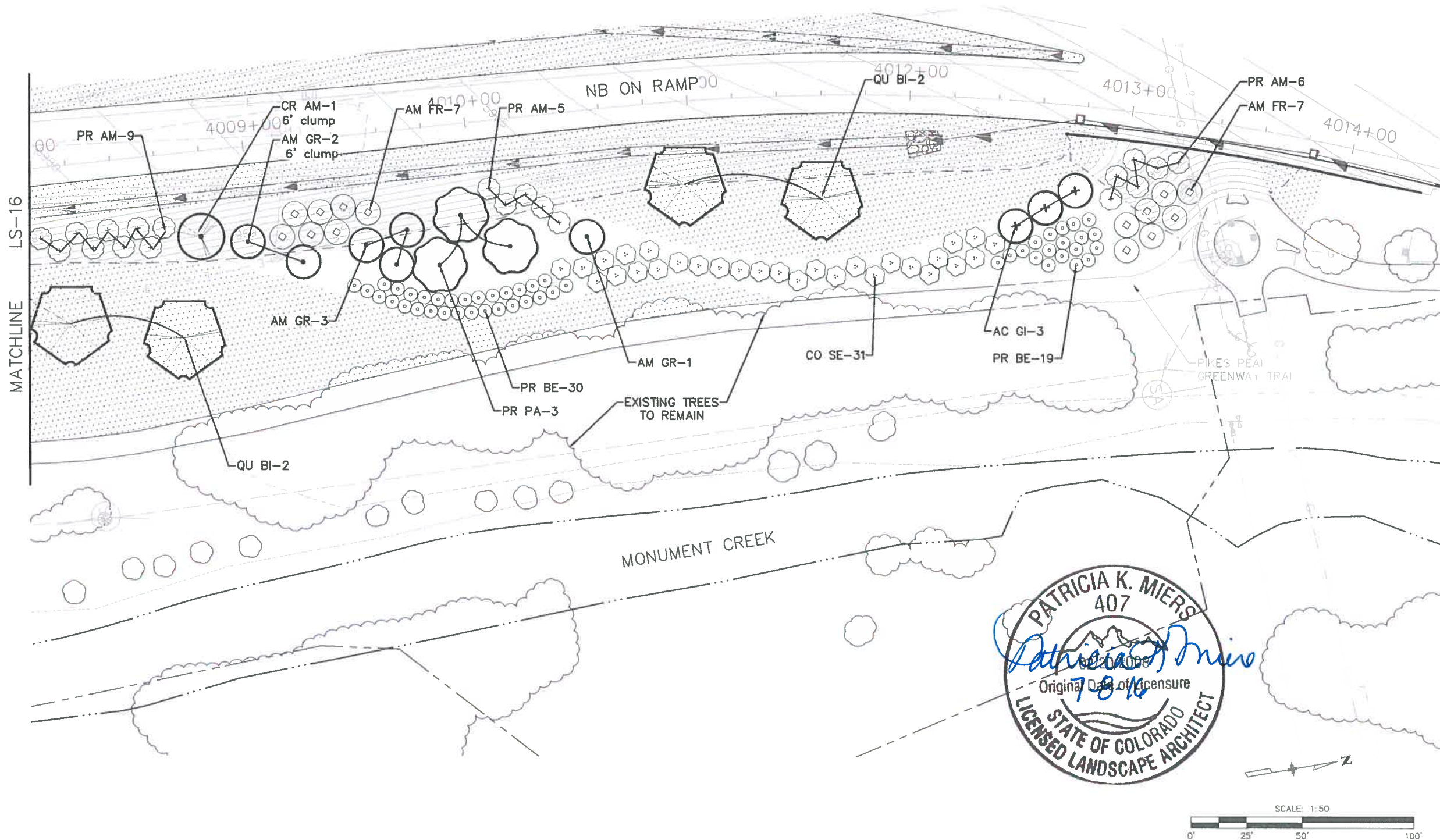
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



Print Date: 7/5/2016
File Name: 19039_LandscapeRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
 NB ON RAMP
 LANDSCAPE PLAN
 Designer:
 Detailer:
 Sheet Subset: LANDSCAPE
 Structure Numbers:
 Subset Sheets: LS17 of 26

Project No./Code
 IM 0252-423
 19039
 Sheet Number 24-31



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Call before you dig

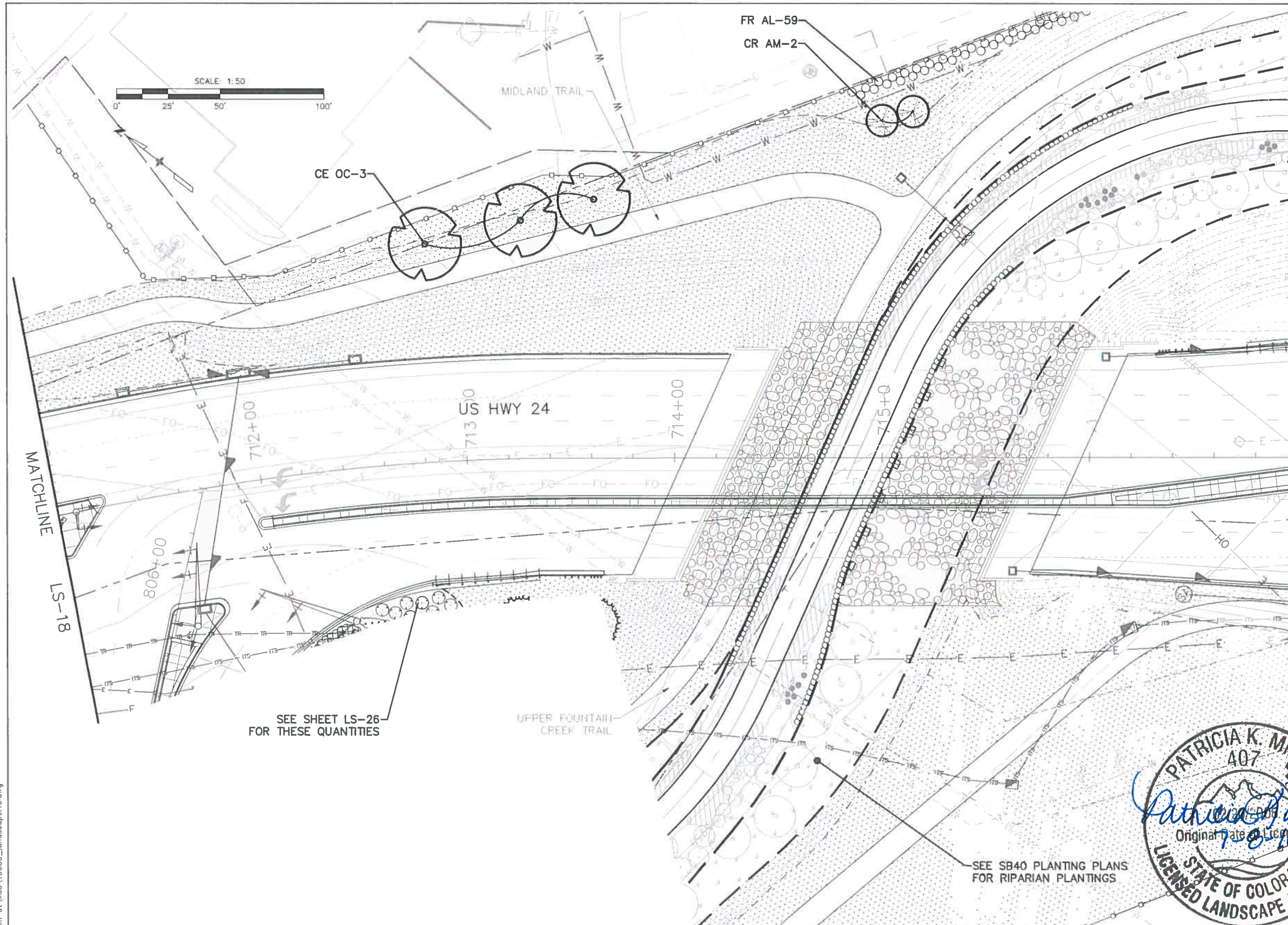
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



SEE SHEET LS-26 FOR THESE QUANTITIES

SEE SB40 PLANTING PLANS FOR RIPARIAN PLANTINGS



Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

As Constructed

No Revisions:

Revised:

I-25/CIMARRON ST (US 24) INTERCHANGE
 CIMARRON ST (US 24)
 LANDSCAPE PLAN

Designer: _____
 Detailer: _____
 Sheet Subset: LANDSCAPE

Structure Numbers: _____
 Subset Sheets: LS19 of 26

Project No./Code

IM 0252- 23

19039

Sheet Number **24-33**

z:\projects\19039\Cimarron St\19039_LandscapeRFC.dwg

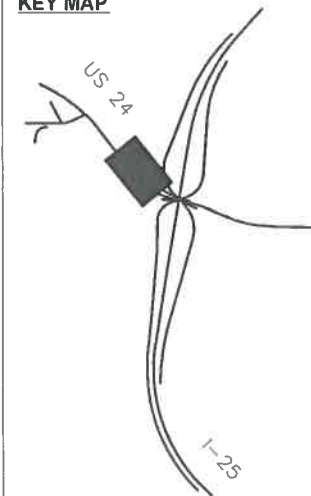
RFC 24 - LANDSCAPE AND IRRIGATION - 07-05-16

RFC



Know what's below.
Call before you dig.

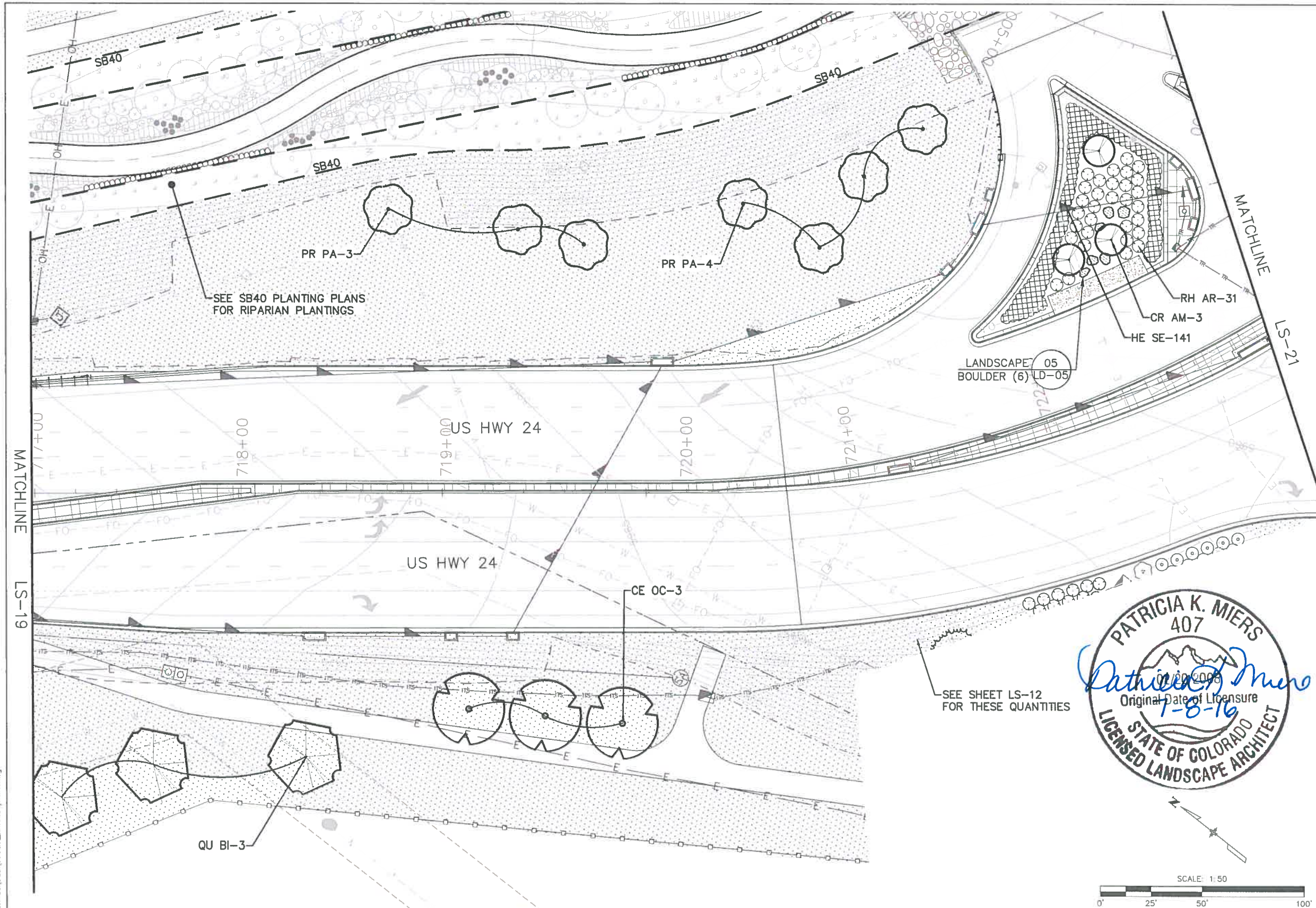
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

As Constructed

No Revisions:

Revised:

Void:

| | |
|---|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE CIMARRON ST (US 24) LANDSCAPE PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: LS20 of 26 |

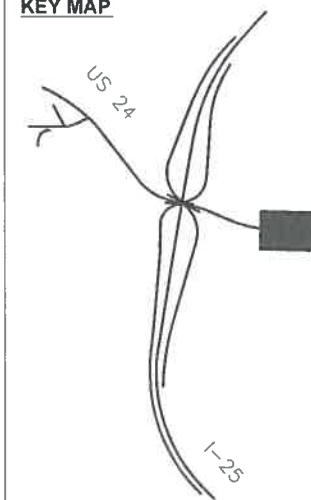
| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-34 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.

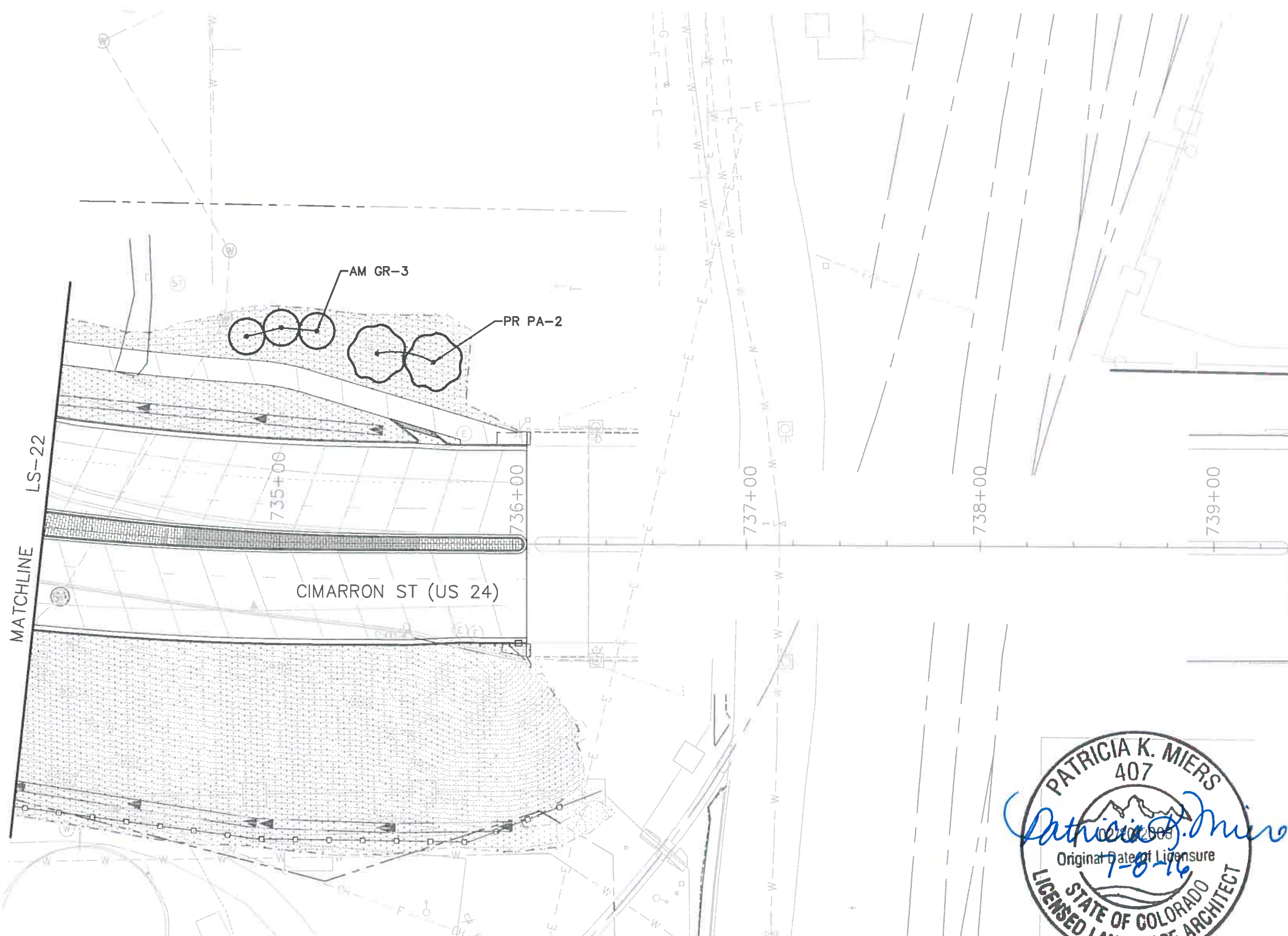
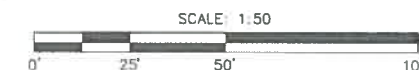
KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



z:\projects\1st\1-25 cimarron st\cad\19039_landscapeRFC.dwg

Print Date: 7/5/2016
File Name: 19039_LandscapeRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted



Sheet Revisions

| Date: | Comments | Init. |
|-------|----------|-------|
| | | |
| | | |
| | | |

Colorado Department of Transportation



1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2

DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
CIMARRON ST (US 24)
LANDSCAPE PLAN

| | |
|-------------------------|---------------------------|
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: LS23 of 26 |

Project No./Code

IM 0252-423

19039

Sheet Number 24-37

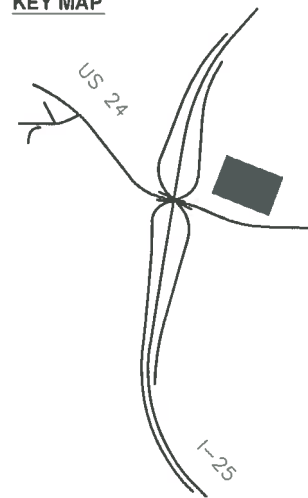
RFC

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.

KEY MAP



SHEETS:
I-25 SHEETS: LS-01 - LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BOULDERS
- SHRUBS
- POTENTILLA
- KARL FOERSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



z:\projects\19039\19039_landscapeRFC.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
Region 2

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

DMW

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

| | |
|---|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE WB CIMARRON TRAIL LANDSCAPE PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: LS24 of 26 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-38 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

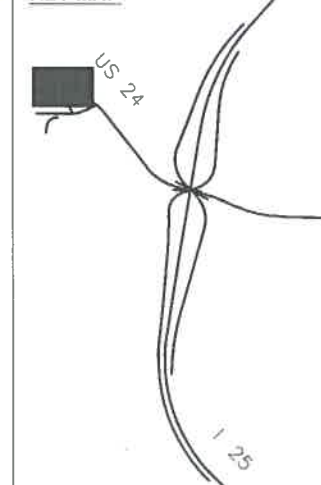
RFC



Know what's below. Call before you dig.



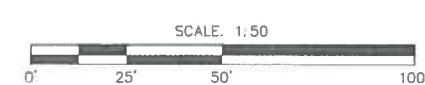
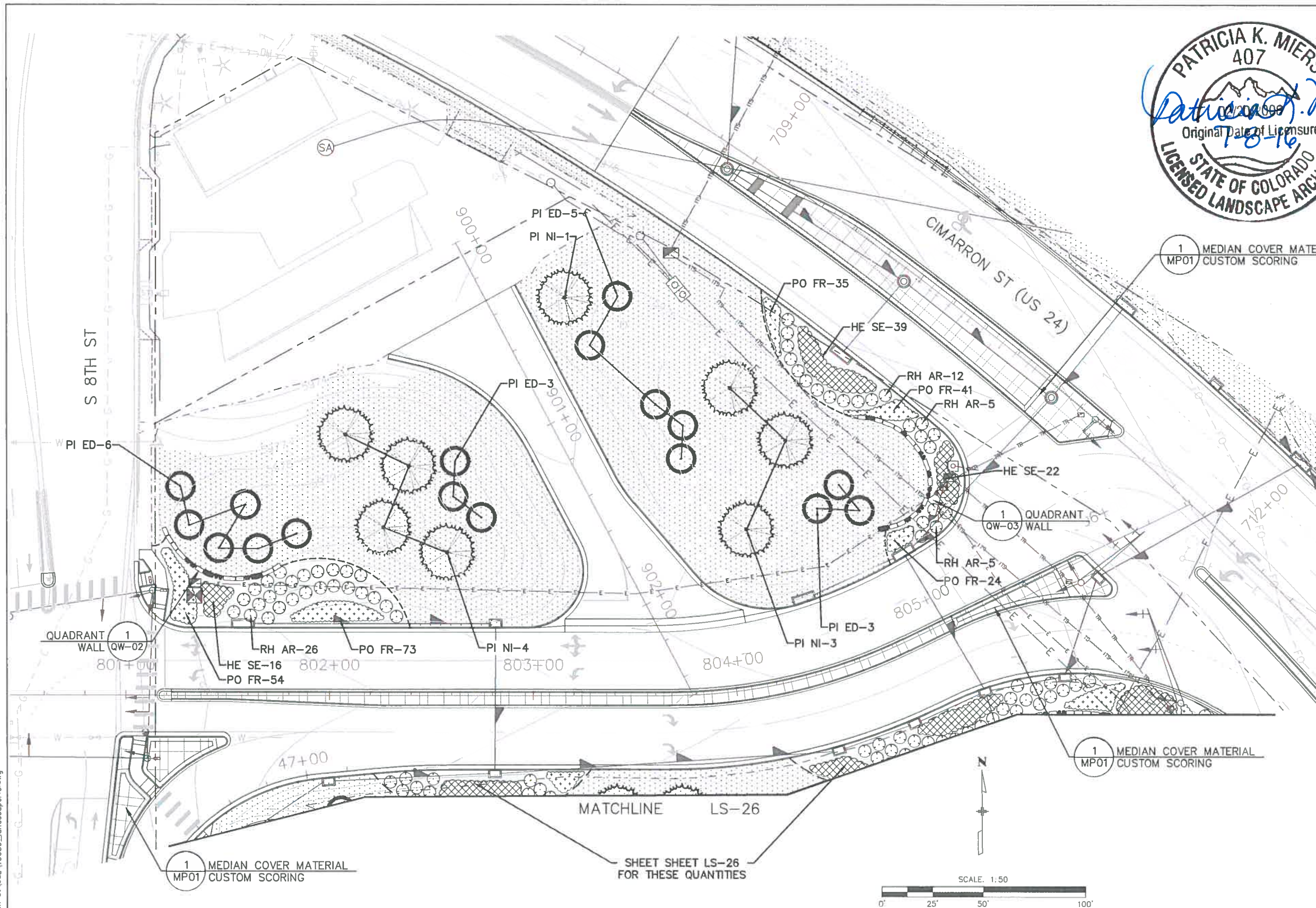
KEY MAP



SHEETS:
1-25 SHEETS: LS-01 LS-11
RAMP SHEETS: LS-12 - LS-17
US 24 SHEETS: LS-18 - LS-26

LEGEND

- DECIDUOUS TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- LANDSCAPE BORDER
- LANDSCAPE BORDER
- SHRUB
- PLANTING AREA
- KARLFOSTER GRASS
- BLUE AVENA GRASS
- NATIVE SEED
- RIPARIAN SEED (SB40)
- 5-12" CO. ROSE
- 5-12" MTN. GRANITE
- RIPRAP, SEE UPPER FOUNTAIN CREEK PLANS



z:\projects\19039\19039_cimarron_st\cad\19039_landscape\rfc.dwg

Print Date: 7/5/2016
 File Name: 19039_LandscapeRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
 QUADRANT
 LANDSCAPE PLAN

Designer:
 Detailer:
 Sheet Subset: LANDSCAPE

Structure Numbers:
 Subset Sheets: LS25 of 26

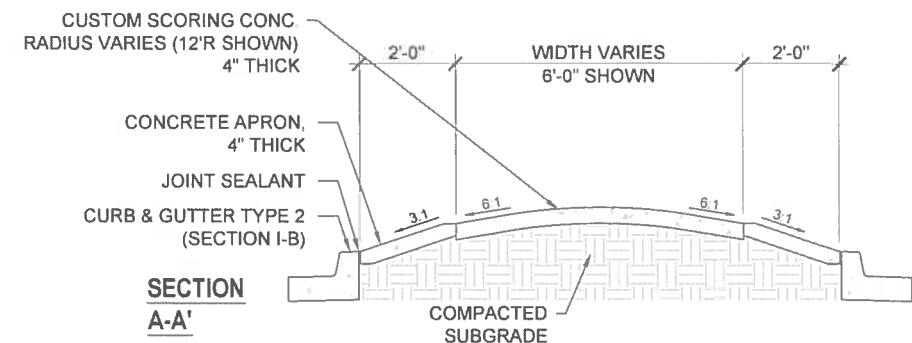
Project No./Code
 IM 0252-423
 19039
 Sheet Number 24-39

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

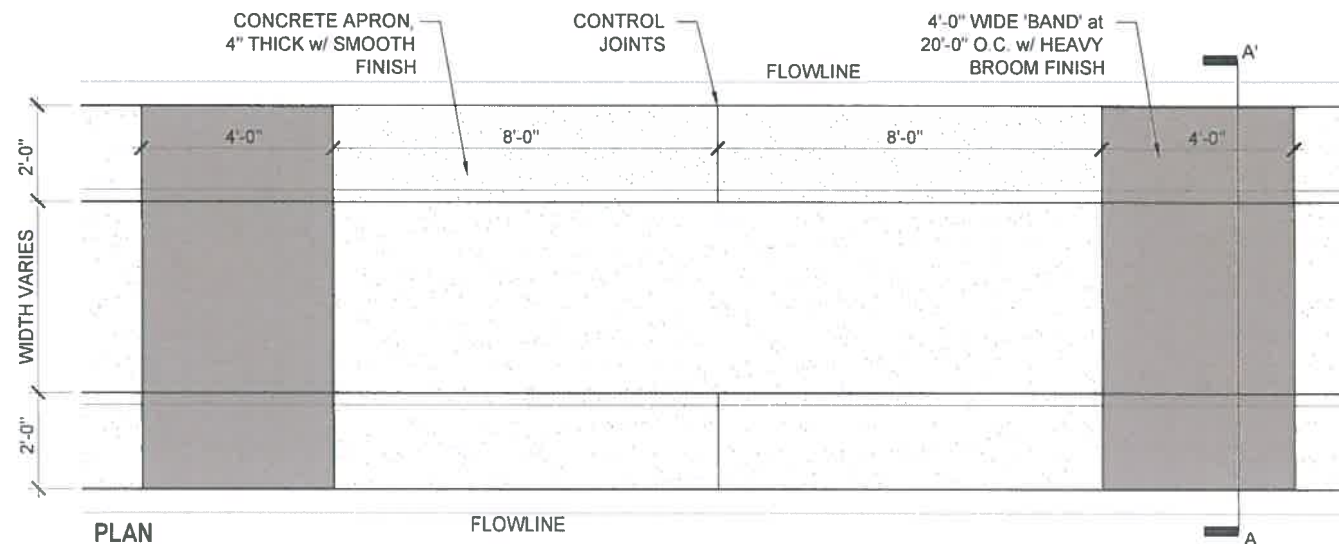
RFC



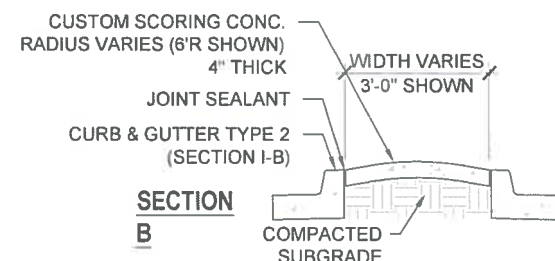
Know what's below. Call before you dig.



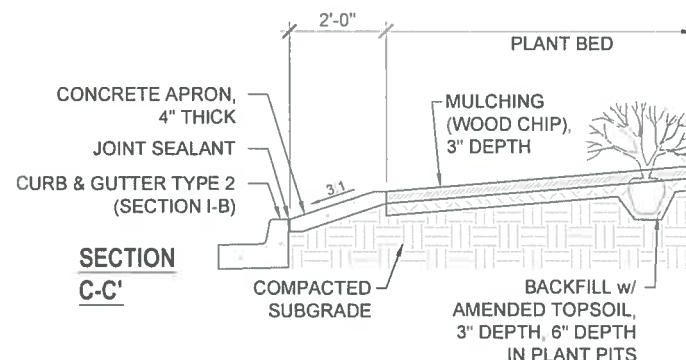
1 MEDIAN COVER MATERIAL - CUSTOM SCORING w/ APRONS
NTS



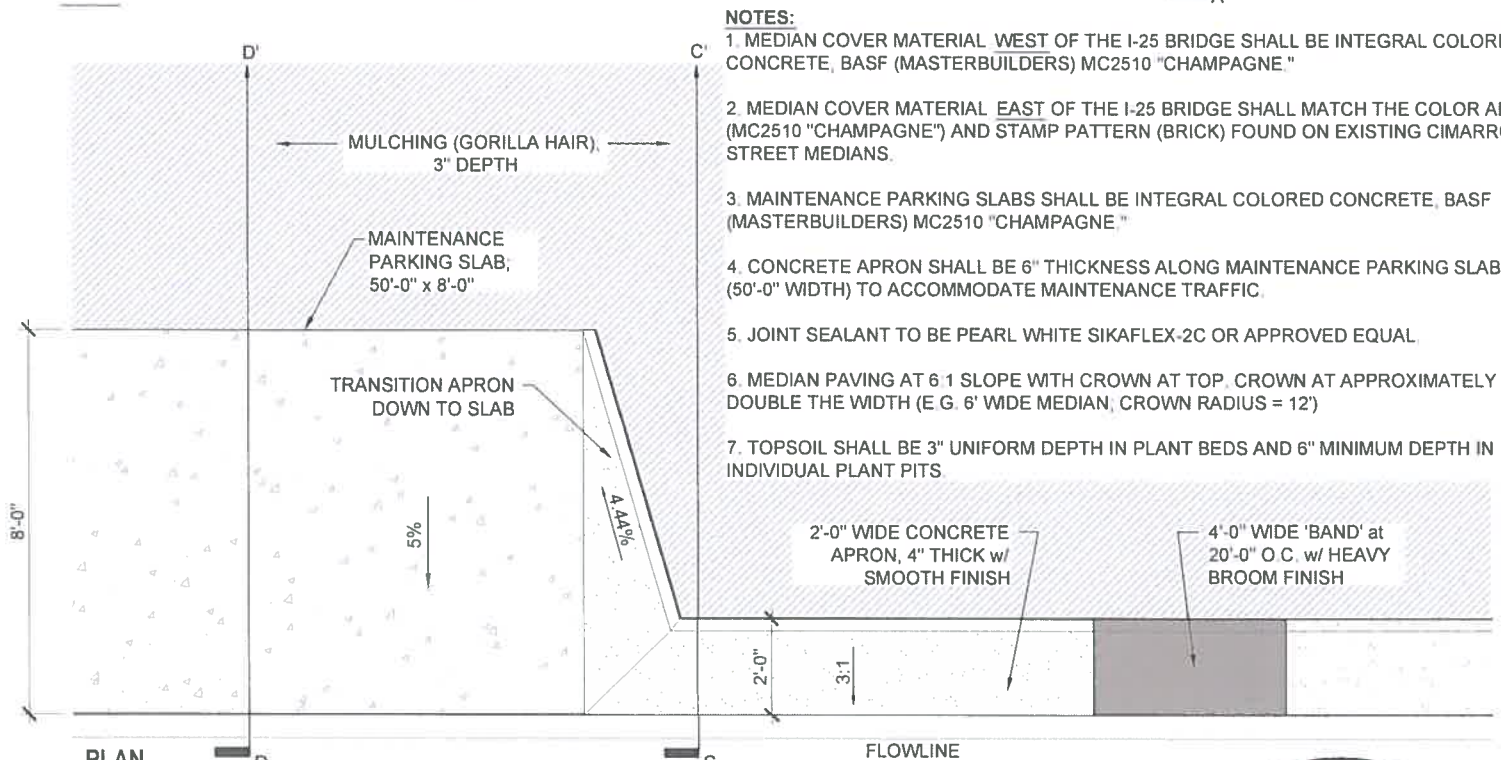
PLAN



2 MEDIAN COVER MATERIAL - CUSTOM SCORING, NO APRONS
NTS



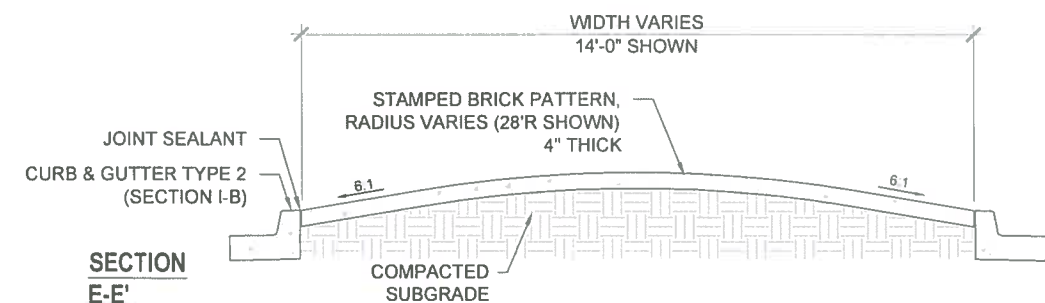
3 MEDIAN COVER MATERIAL - PORKCHOP ISLAND
NTS



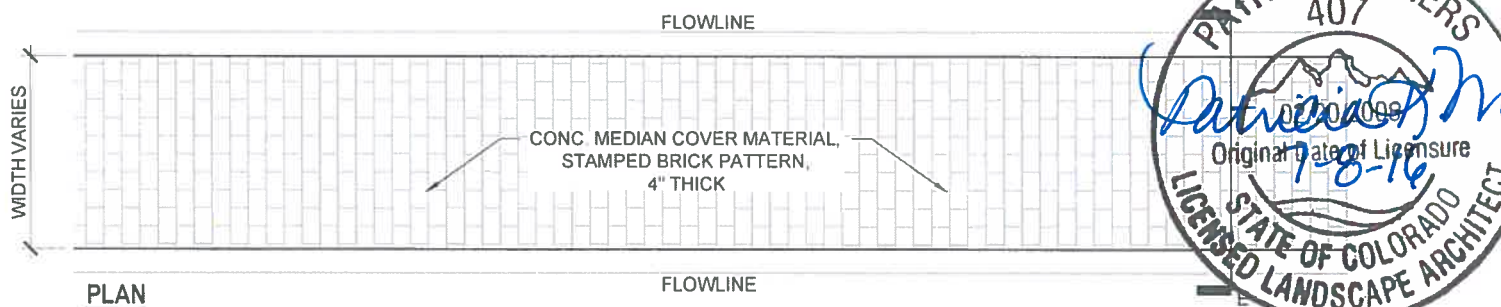
PLAN

- NOTES:**
- MEDIAN COVER MATERIAL WEST OF THE I-25 BRIDGE SHALL BE INTEGRAL COLORED CONCRETE, BASF (MASTERBUILDERS) MC2510 "CHAMPAGNE"
 - MEDIAN COVER MATERIAL EAST OF THE I-25 BRIDGE SHALL MATCH THE COLOR ABOVE (MC2510 "CHAMPAGNE") AND STAMP PATTERN (BRICK) FOUND ON EXISTING CIMARRON STREET MEDIANS.
 - MAINTENANCE PARKING SLABS SHALL BE INTEGRAL COLORED CONCRETE, BASF (MASTERBUILDERS) MC2510 "CHAMPAGNE"
 - CONCRETE APRON SHALL BE 6" THICKNESS ALONG MAINTENANCE PARKING SLAB SP/ (50'-0" WIDTH) TO ACCOMMODATE MAINTENANCE TRAFFIC.
 - JOINT SEALANT TO BE PEARL WHITE SIKAFLEX-2C OR APPROVED EQUAL.
 - MEDIAN PAVING AT 6:1 SLOPE WITH CROWN AT TOP. CROWN AT APPROXIMATELY DOUBLE THE WIDTH (E.G. 6' WIDE MEDIAN, CROWN RADIUS = 12')
 - TOPSOIL SHALL BE 3" UNIFORM DEPTH IN PLANT BEDS AND 6" MINIMUM DEPTH IN INDIVIDUAL PLANT PITS.

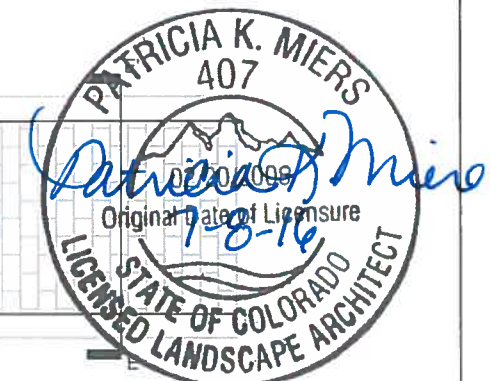
4 MEDIAN COVER MATERIAL - MAINTENANCE PARKING
NTS



5 MEDIAN COVER MATERIAL - STAMPED BRICK
NTS



PLAN



z:\projects\19039_medianpavingrfc.dwg

| |
|--|
| Print Date: 7/5/2016 |
| File Name: 19039_MedianPavingRFC.dwg |
| Horiz. Scale: As Noted |
| Vert. Scale: As Noted |
| TSIOUVARAS SIMMONS HOLDERNESS CONSULTING ENGINEERS |
| KRAEMER |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

| | | |
|----------------|--------------------------------------|---------------------------|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | |
| No Revisions: | MEDIAN PAVING PLAN | |
| Revised: | Designer: | Structure Numbers |
| Void: | Detailer: | Sheet Subset: LANDSCAPE |
| | | Subset Sheets: MP01 of 16 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-41 |

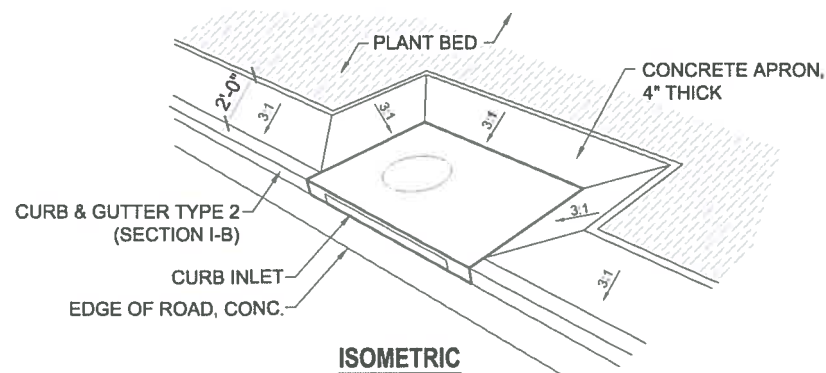
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



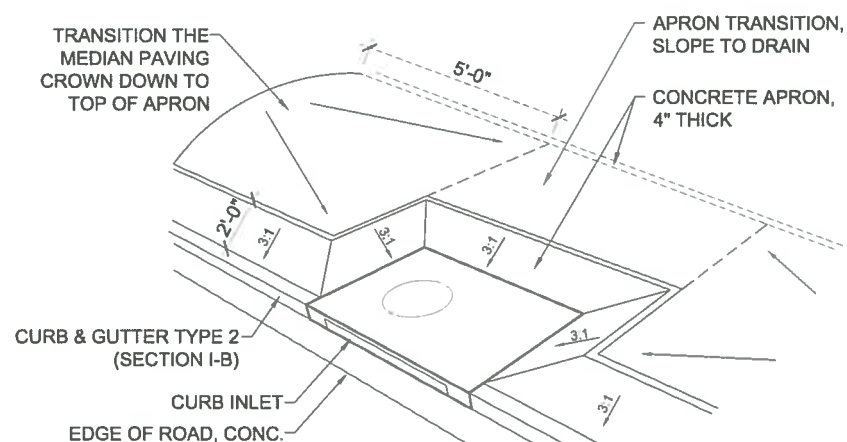
Know what's below.
Call before you dig.

- NOTE:**
 1. SEE DETAILS 1-4, SHEET SUBSET MP01 FOR MEDIAN SECTION DETAILS.
 2. FOR MANHOLES WITHIN MEDIAN PAVING, PROVIDE 6" SLOPE TRANSITION ZONE TO FINISHED GRADE OF MANHOLE.



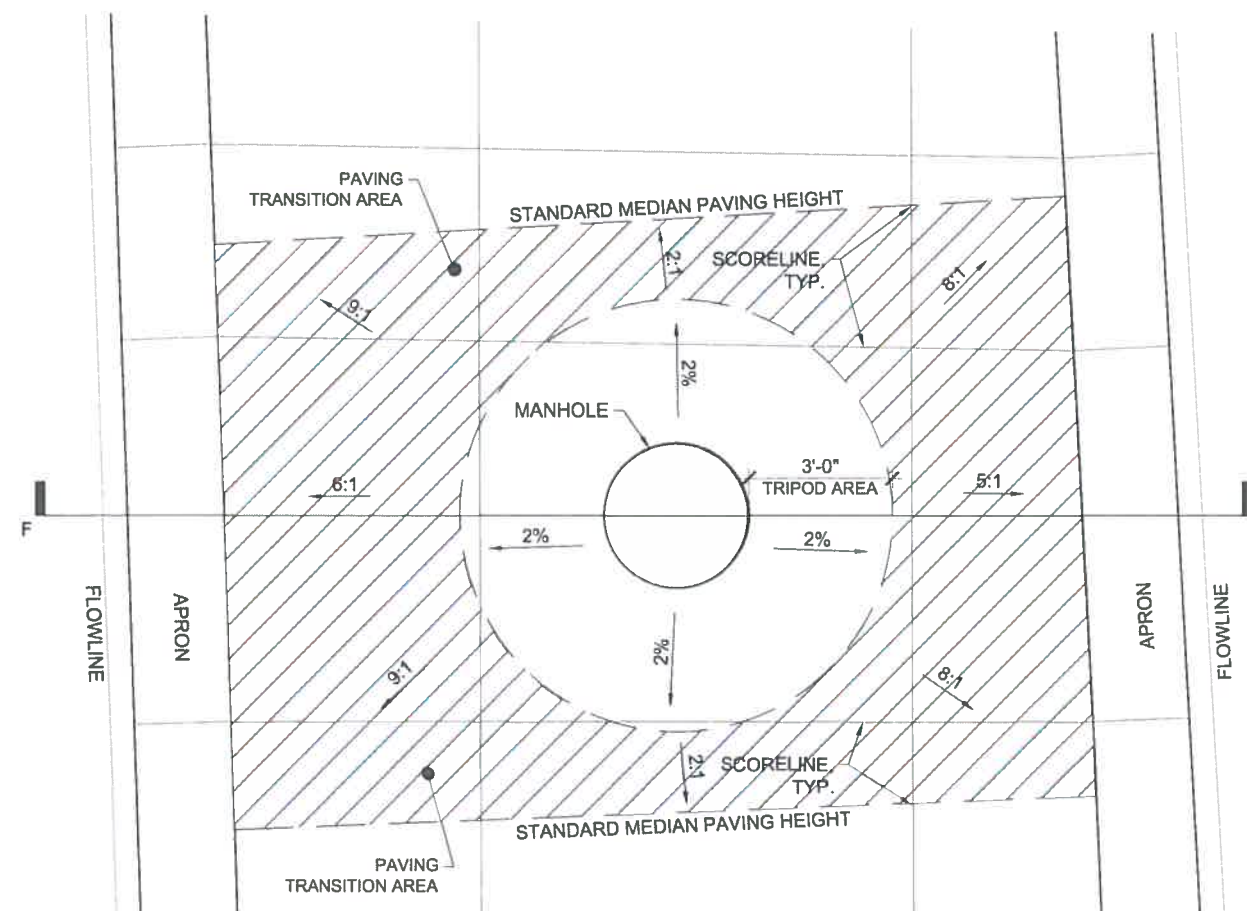
ISOMETRIC

1 CURB INLET APRON - PORKCHOP ISLAND
NTS

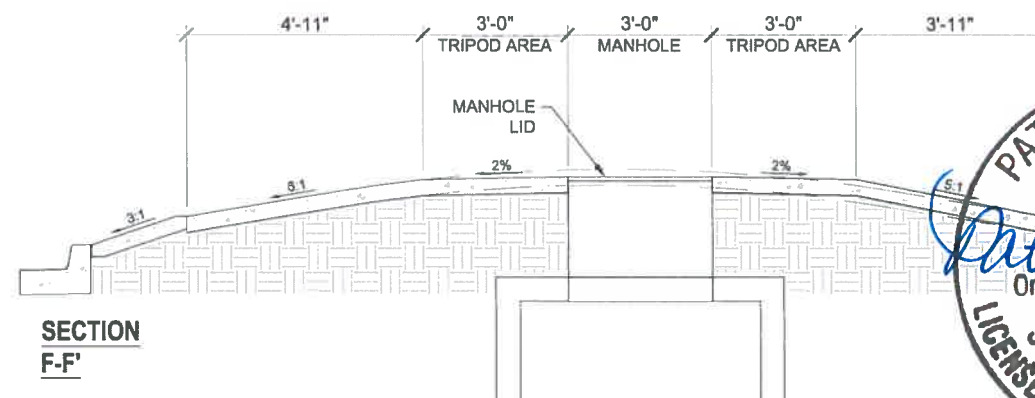


ISOMETRIC

2 CURB INLET APRON - MEDIAN PAVING
NTS



PLAN



SECTION F-F'

4 MANHOLE IN MEDIAN PAVING DETAIL
NTS



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\19039\19039_medianpavingrfc.dwg

Print Date: 7/5/2016
 File Name: 19039_MedianPavingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

Sheet Revisions

| Date: | Comments | Init. |
|-------|----------|-------|
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation



Region 2

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE

MEDIAN PAVING PLAN

| | |
|-------------------------|---------------------------|
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: MP02 of 16 |

Project No./Code

IM 0252-423

19039

Sheet Number 24-42

TSIOUVARAS SIMMONS HOLDERNESS
 CONSULTING ENGINEERS

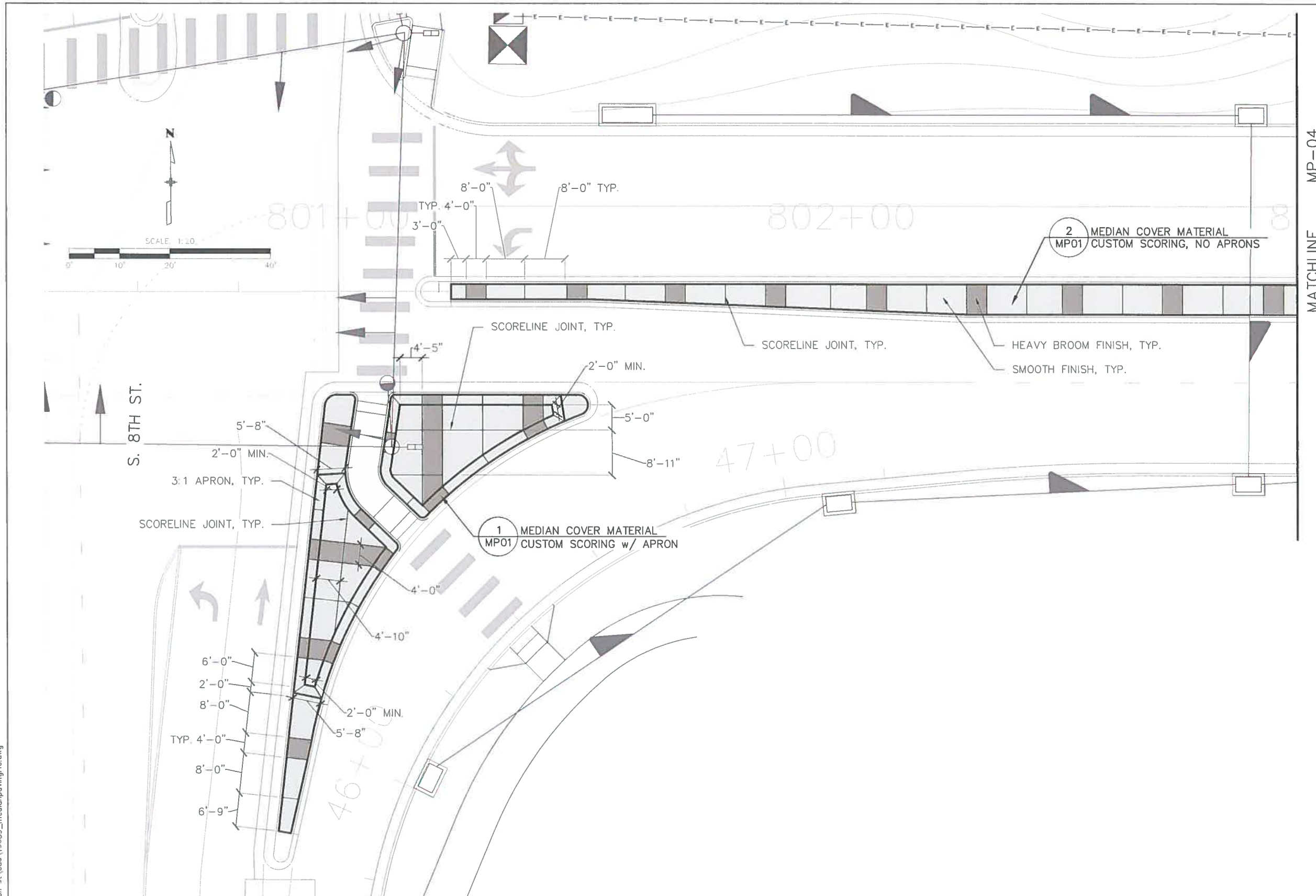
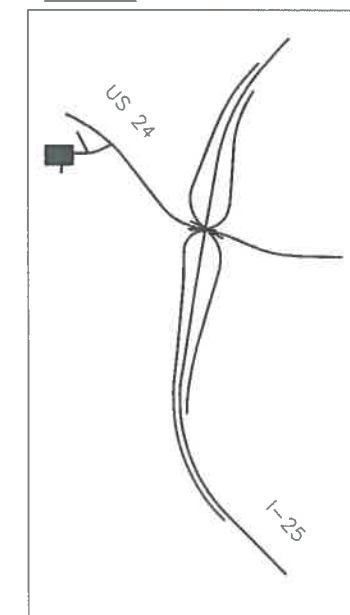


RFC



Know what's below.
Call before you dig.

KEY MAP

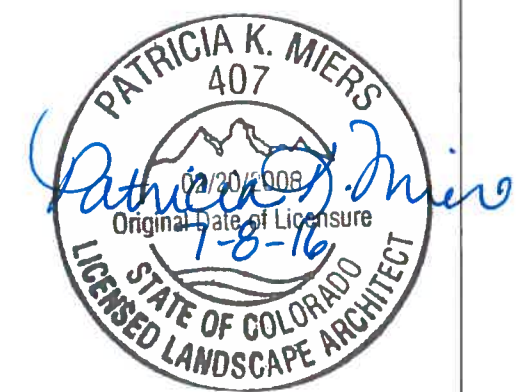


MATCHLINE MP-04

S. 8TH ST.



z:\projects\sh\1-25 cimarron st\cad\19039_medianpavingrfc.dwg



Print Date: 7/5/2016
 File Name: 19039_MedianPavingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

As Constructed
 No Revisions:
 Revised:
 Void:

| | |
|--|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE QUADRANT MEDIAN PAVING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: MP03 of 16 |

| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| 19039 | |
| Sheet Number | 24-43 |

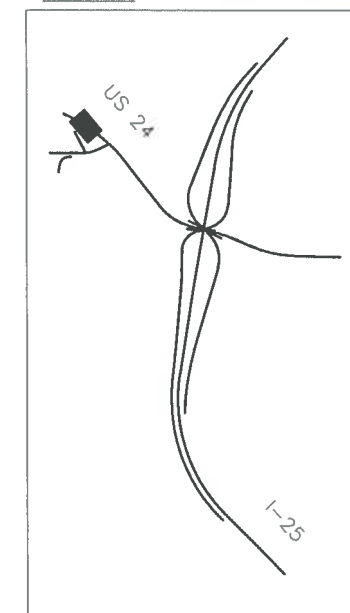
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



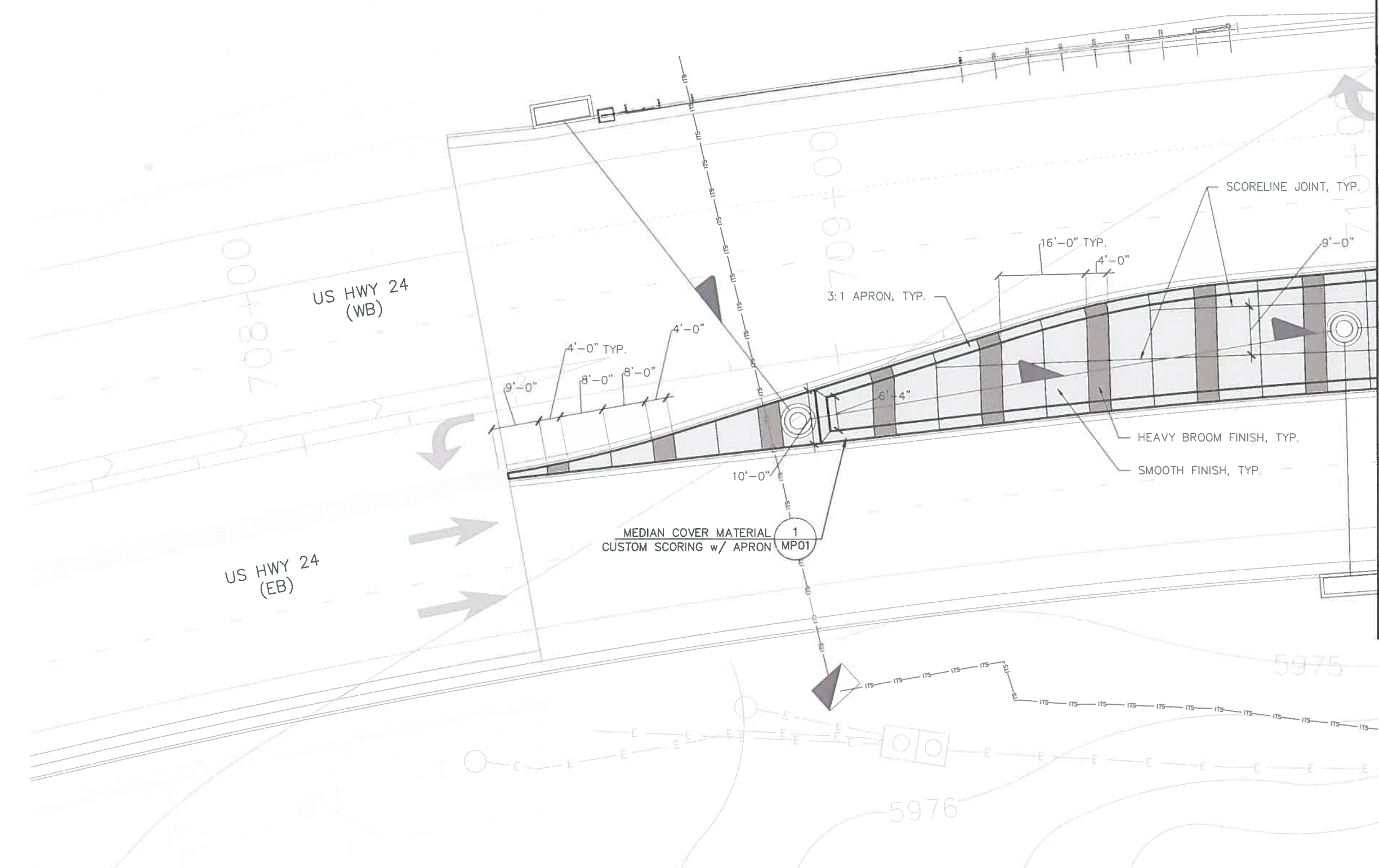
Know what's below.
Call before you dig.

KEY MAP



MP-06

MATCHLINE



US HWY 24 (WB)

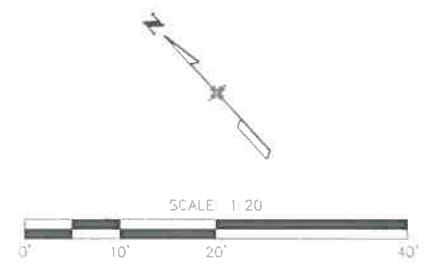
US HWY 24 (EB)

MEDIAN COVER MATERIAL
CUSTOM SCORING w/ APRON
MP01

SCORELINE JOINT, TYP.

HEAVY BROOM FINISH, TYP.

SMOOTH FINISH, TYP.



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\19039\1-25 cimarron st\19039_mediapavingrfc.dwg

Print Date: 7/5/2016
 File Name: 19039_MedianPavingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

| | | |
|----------------|---|---------------------------|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE CIMARRON ST (US 24) MEDIAN PAVING PLAN | |
| No Revisions: | Designer: | Structure Numbers |
| Revised: | Detailer: | |
| Void: | Sheet Subset: LANDSCAPE | Subset Sheets: MP05 of 16 |

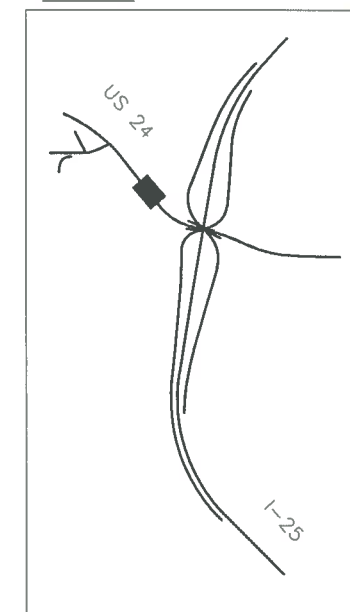
| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-45 |

RFC



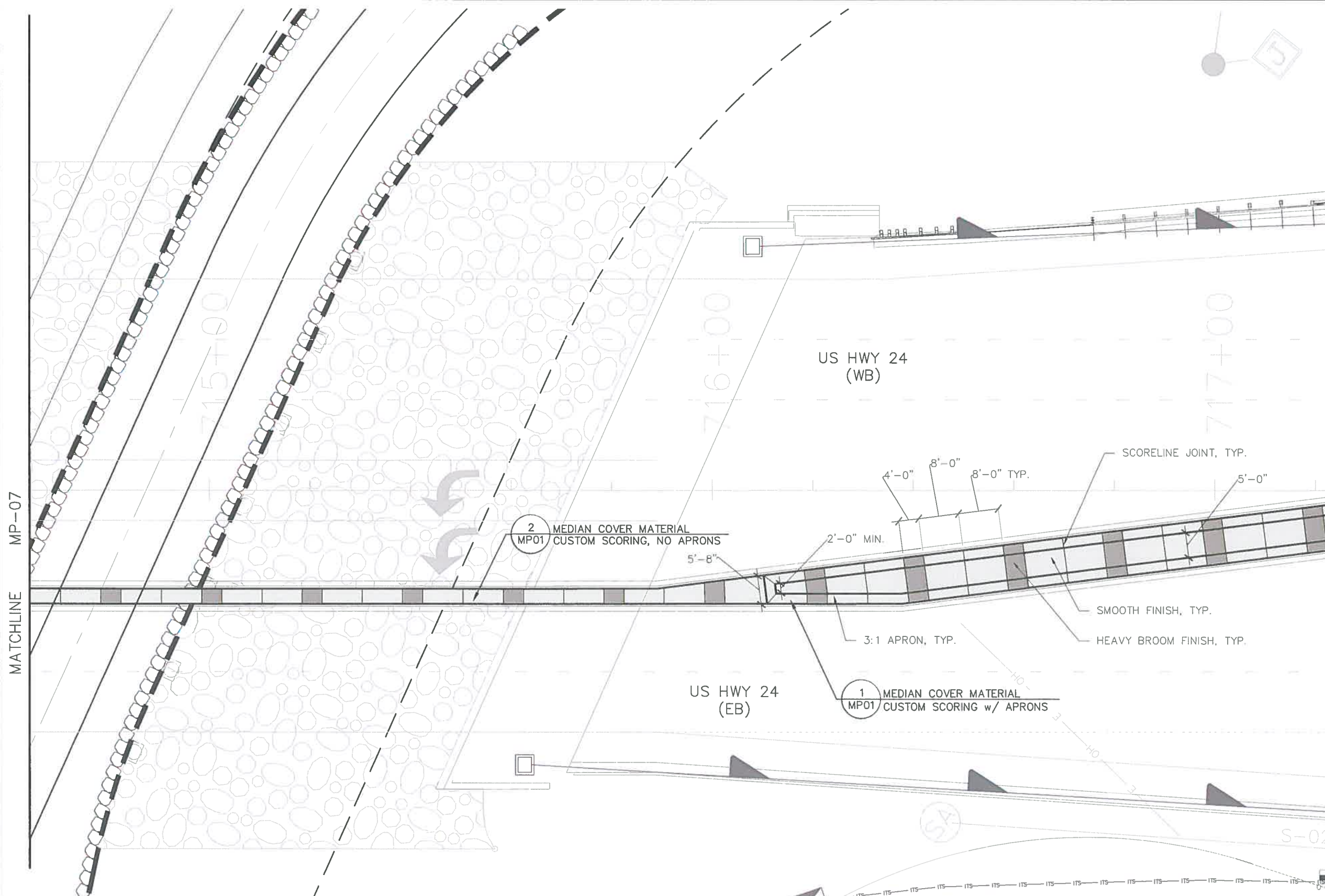
Know what's below. Call before you dig.

KEY MAP



MATCHLINE MP-09

MATCHLINE MP-07



SCALE 1" = 20'



Print Date: 7/5/2016
File Name: 19039_MedianPavingRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation



1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2

DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
CIMARRON ST (US 24)
MEDIAN PAVING PLAN

Designer:

Detailer:

Sheet Subset: LANDSCAPE

Structure

Numbers

Subset Sheets: MP08 of 16

Project No./Code

IM 0252-423

19039

Sheet Number 24-48

z:\projects\ish\19-25 cimarron st\cad\19039_mediapavingrfc.dwg



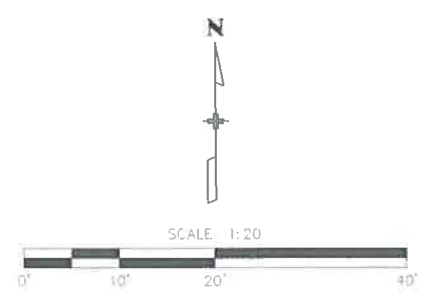
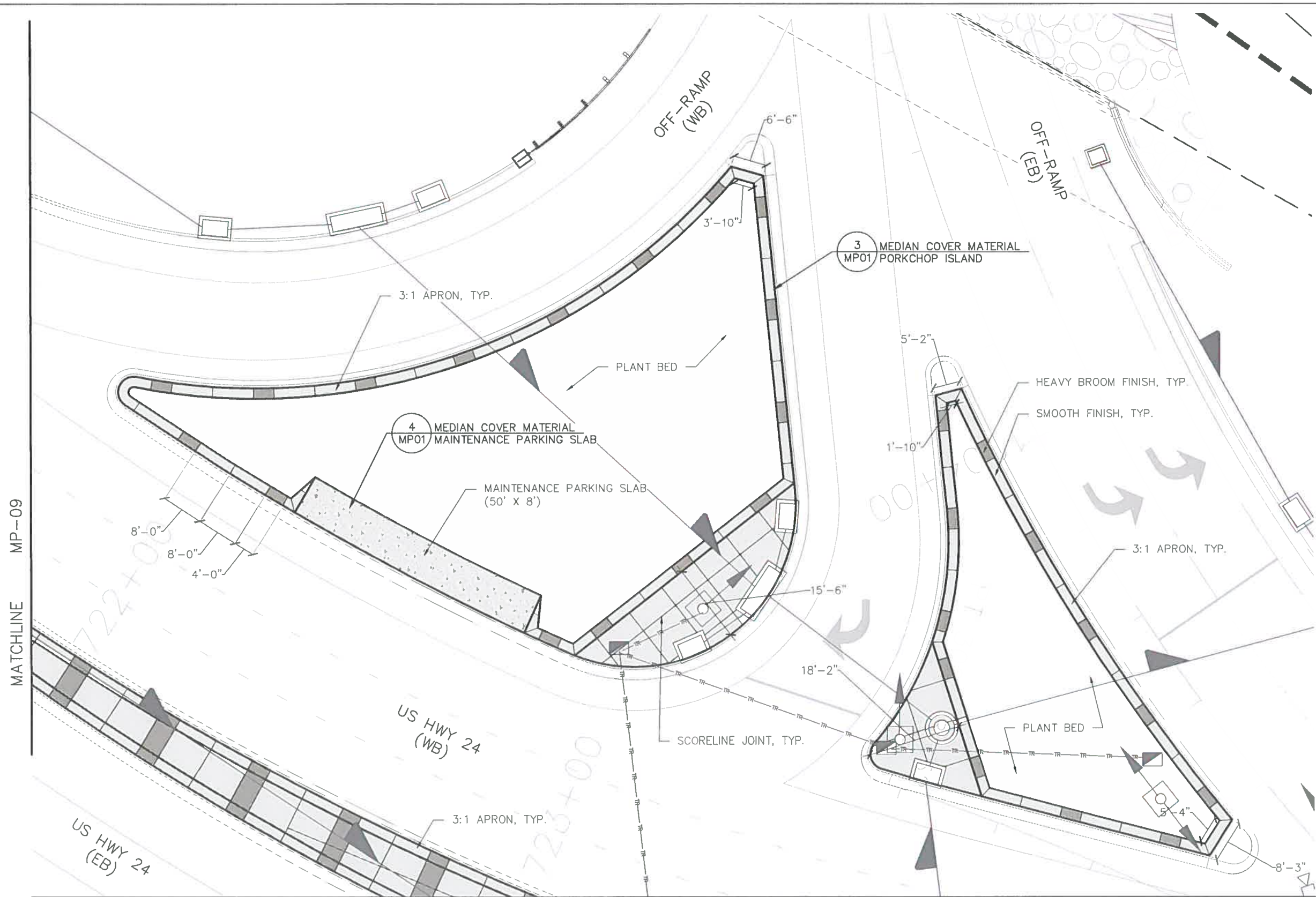
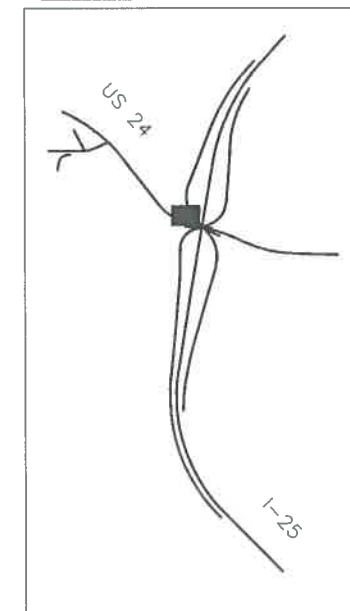
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\sh\1-25 cimarron st\cad\19039_mmedianpavingrfc.dwg

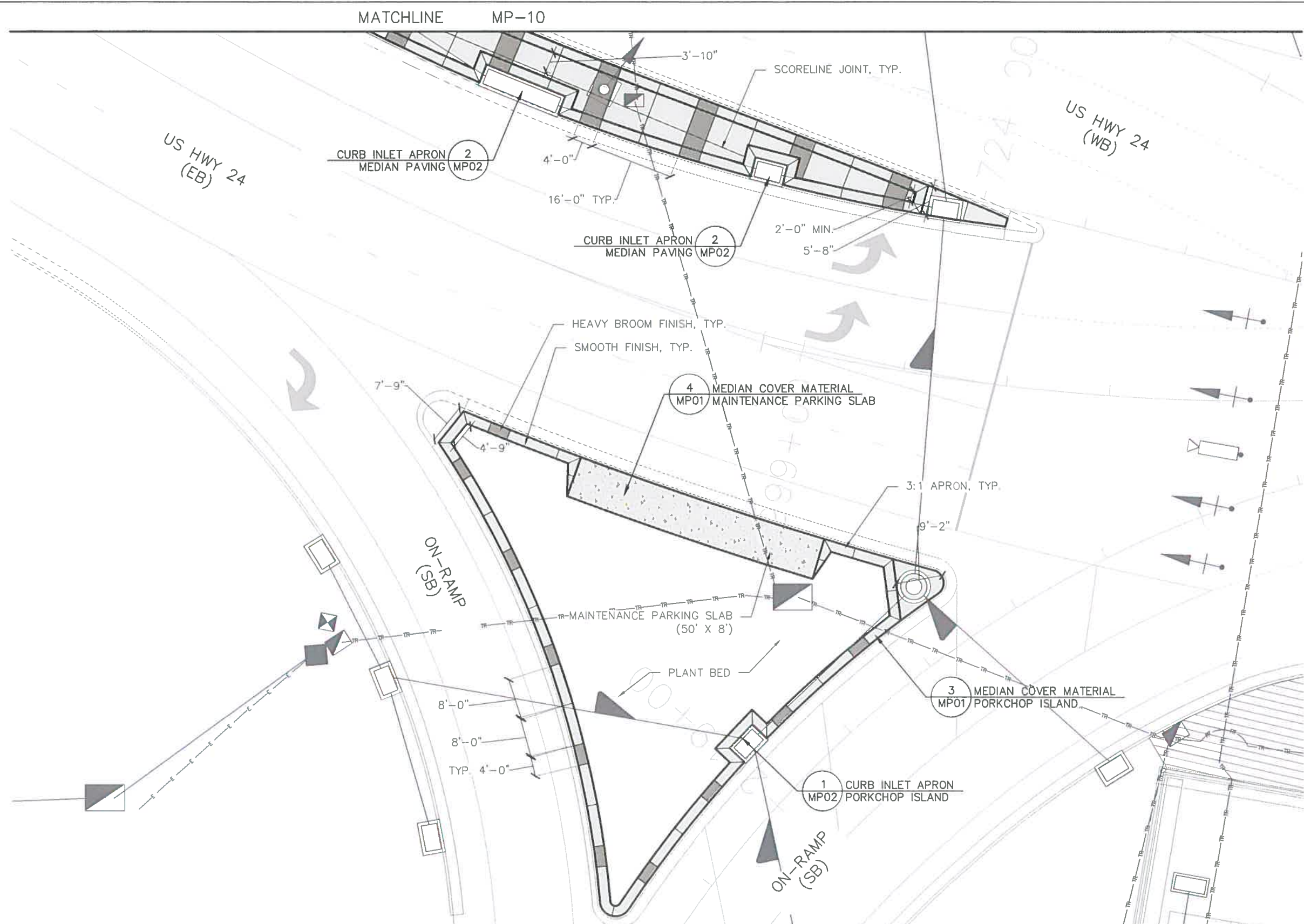
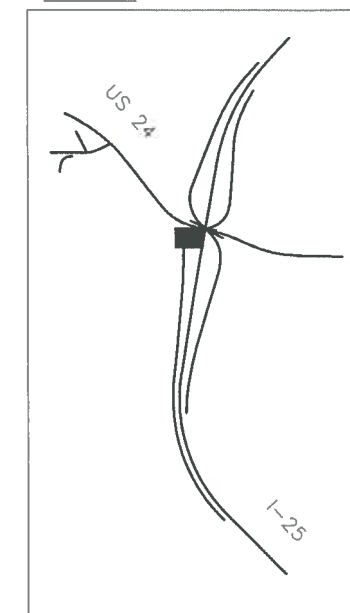
| | | | | | | | |
|--------------------------------------|-----------------------|----------|---|----------------|---|---------------------------|--------------------|
| Print Date: 7/5/2016 | Sheet Revisions | | Colorado Department of Transportation 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE SB OFF RAMP MEDIAN PAVING PLAN | | Project No./Code |
| File Name: 19039_MedianPavingRFC.dwg | Date: | Comments | | Init. | No Revisions: | Designer: | Structure Numbers |
| Horiz. Scale: As Noted | Vert. Scale: As Noted | | | Revised: | Detailer: | | 19039 |
| CONSULTING ENGINEERS | | | | Void: | Sheet Subset: LANDSCAPE | Subset Sheets: MP10 of 16 | Sheet Number 24-50 |

RFC



Know what's below.
Call before you dig.

KEY MAP



z:\projects\19039\1-25 cimarron st\cad\19039_medianpavingrfc.dwg

| | |
|---|-----------------------|
| Print Date: 7/5/2016 | |
| File Name: 19039_MedianPavingRFC.dwg | |
| Horiz. Scale: As Noted | Vert. Scale: As Noted |
| TSIUVARAS SIMMONS HOLDERNESS CONSULTING ENGINEERS | |
| | |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

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

| | |
|--|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE SB ON RAMP MEDIAN PAVING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: MP11 of 16 |

| | |
|------------------|-------|
| Project No./Code | |
| IM 0252-423 | |
| 19039 | |
| Sheet Number | 24-51 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

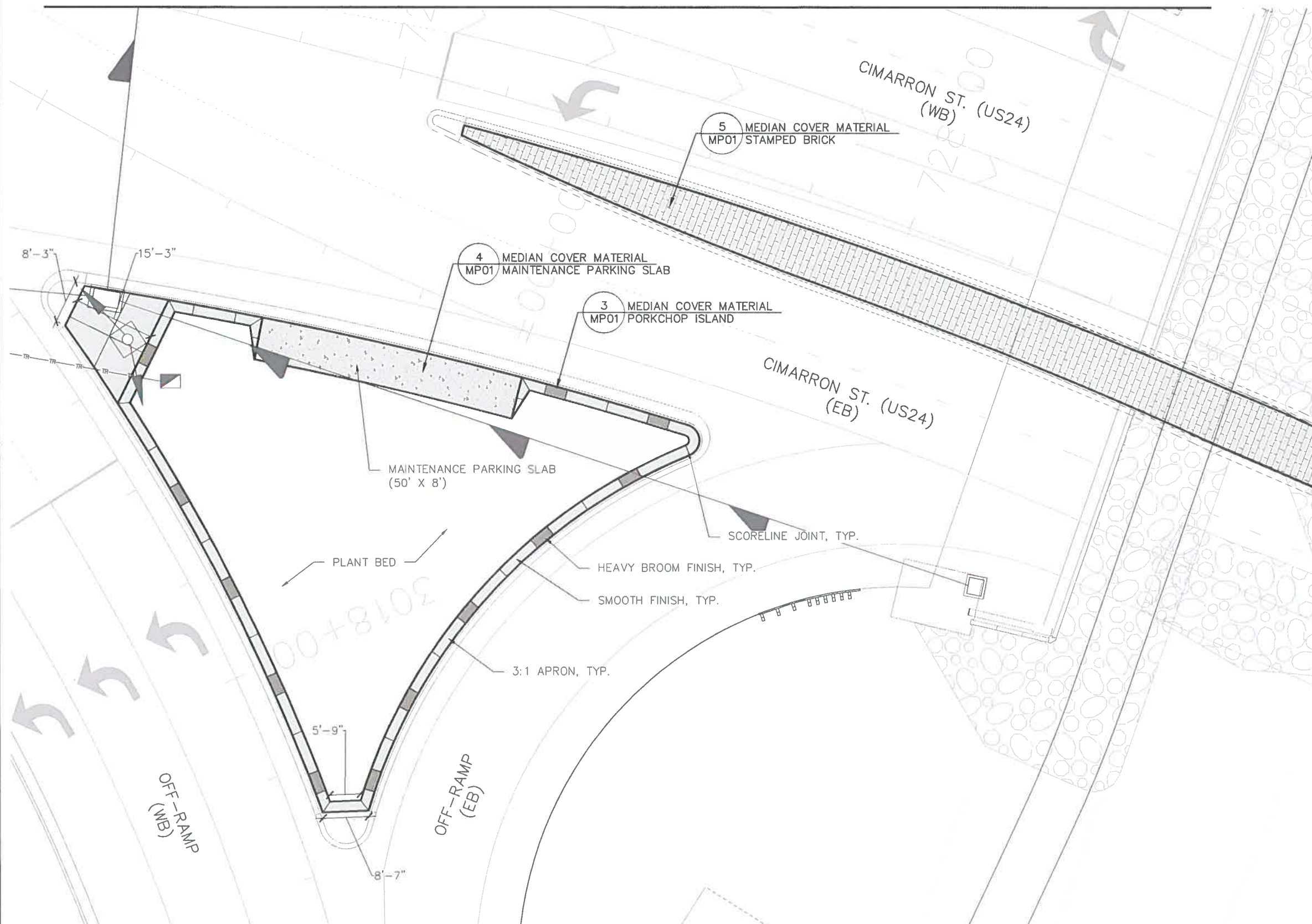
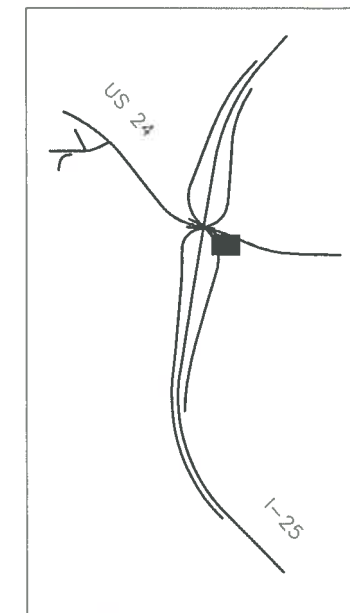
RFC

MATCHLINE MP-12

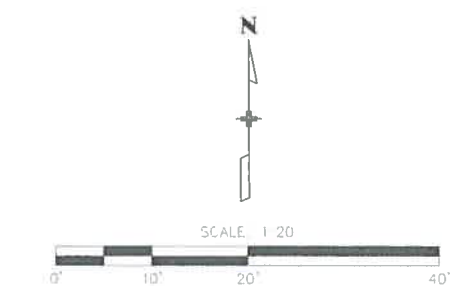


Know what's below.
Call before you dig.

KEY MAP



MATCHLINE MP-14



Print Date: 7/5/2016
 File Name: 19039_MedianPavingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
 CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 Region 2 DMW

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE NB OFF RAMP MEDIAN PAVING PLAN | |
|----------------|---|---------------------------|
| No Revisions: | Designer: | Structure Numbers |
| Revised: | Detailer: | |
| Void: | Sheet Subset: LANDSCAPE | Subset Sheets: MP13 of 16 |

Project No./Code
 IM 0252-423

19039

Sheet Number 24-53

z:\projects\19039\19039_mediapavingrfc.dwg

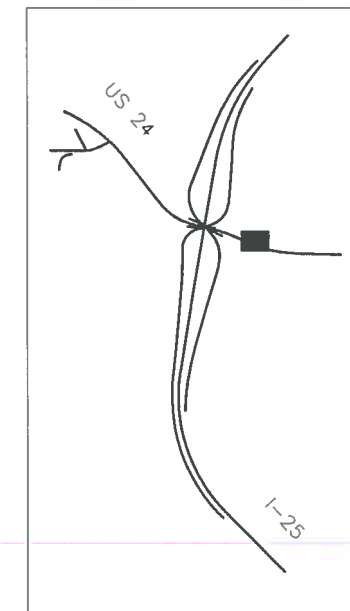
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



MP-13

MATCHLINE

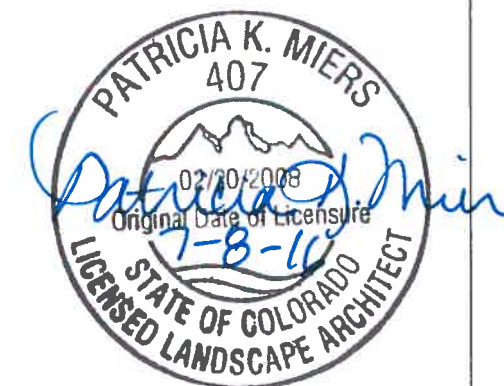
5 MEDIAN COVER MATERIAL
MP01 STAMPED BRICK

CIMARRON ST. (US24)
(WB)

CIMARRON ST. (US24)
(EB)

MP-15

MATCHLINE



SCALE: 1:20



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\19039\19039_cimarron st\cad\19039_medianpavingrfc.dwg

Print Date: 7/5/2016
File Name: 19039_MedianPavingRFC.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted

Sheet Revisions

| Date: | Comments | Init. |
|-------|----------|-------|
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation



1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2

DMW

As Constructed

No Revisions:

Revised:

Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
CIMARRON ST (US 24)
MEDIAN PAVING PLAN

Designer:

Detailer:

Sheet Subset: LANDSCAPE

Structure

Numbers

Subset Sheets: MP14 of 16

Project No./Code

IM 0252-423

19039

Sheet Number 24-54

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

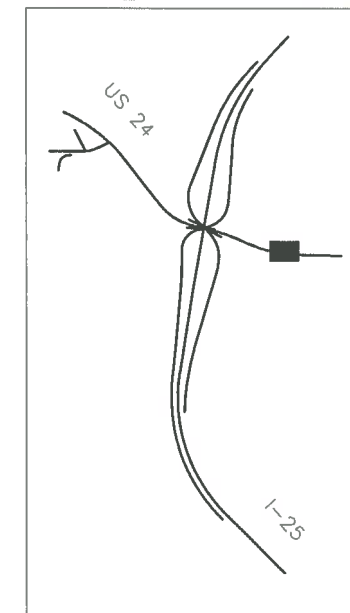


RFC



Know what's below.
Call before you dig.

KEY MAP



MATCHLINE MP-14

MATCHLINE MP-16

CIMARRON ST. (US24)
(WB)

CIMARRON ST. (US24)
(EB)

5 MEDIAN COVER MATERIAL
MP01 STAMPED BRICK



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\141\1-25 cimarron st\cad\19039_mediapavingrfc.dwg

Print Date: 7/5/2016
 File Name: 19039_MedianPavingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|---|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE CIMARRON ST (US 24) MEDIAN PAVING PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: LANDSCAPE | Subset Sheets: MP15 of 16 |

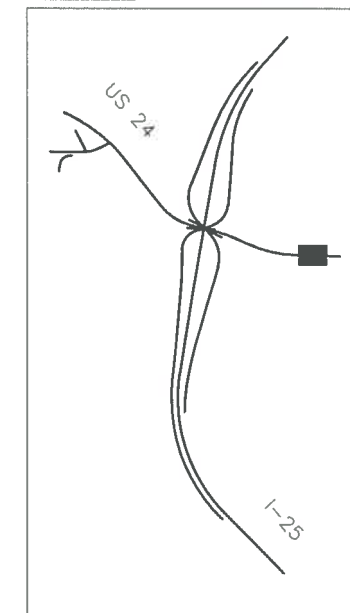
| | |
|------------------|-------------|
| Project No./Code | IM 0252-423 |
| | 19039 |
| Sheet Number | 24-55 |

RFC



Know what's below.
Call before you dig.

KEY MAP



MATCHLINE MP-15

CIMARRON ST. (US24)
(WB)

735+00

736+00

5 MEDIAN COVER MATERIAL
MP01 STAMPED BRICK

CIMARRON ST. (US24)
(EB)



SCALE 1:20



z:\projects\19039\19039_medianpavingrfc.dwg

Print Date: 7/5/2016
 File Name: 19039_MedianPavingRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

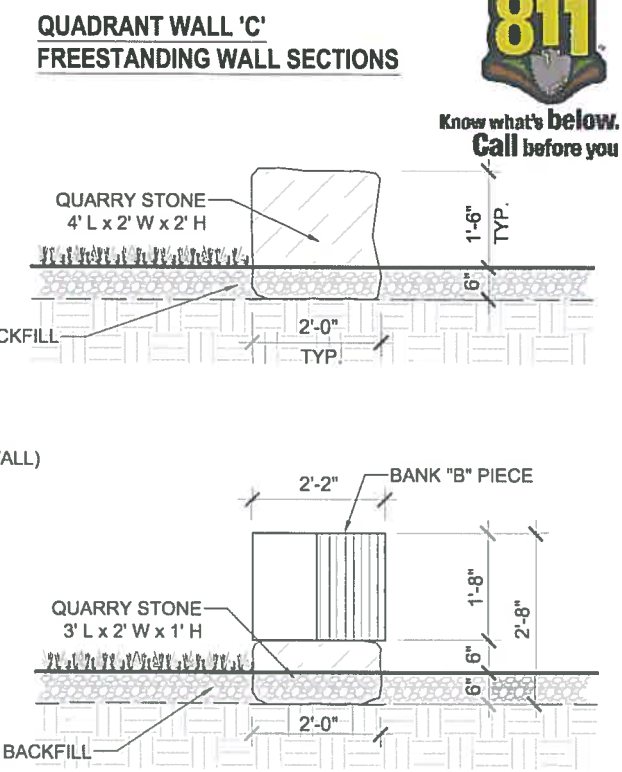
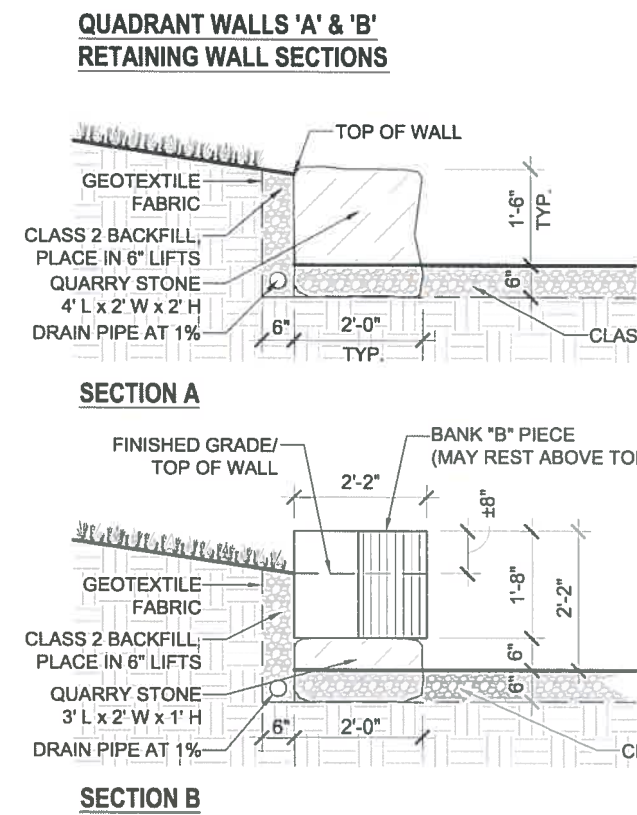
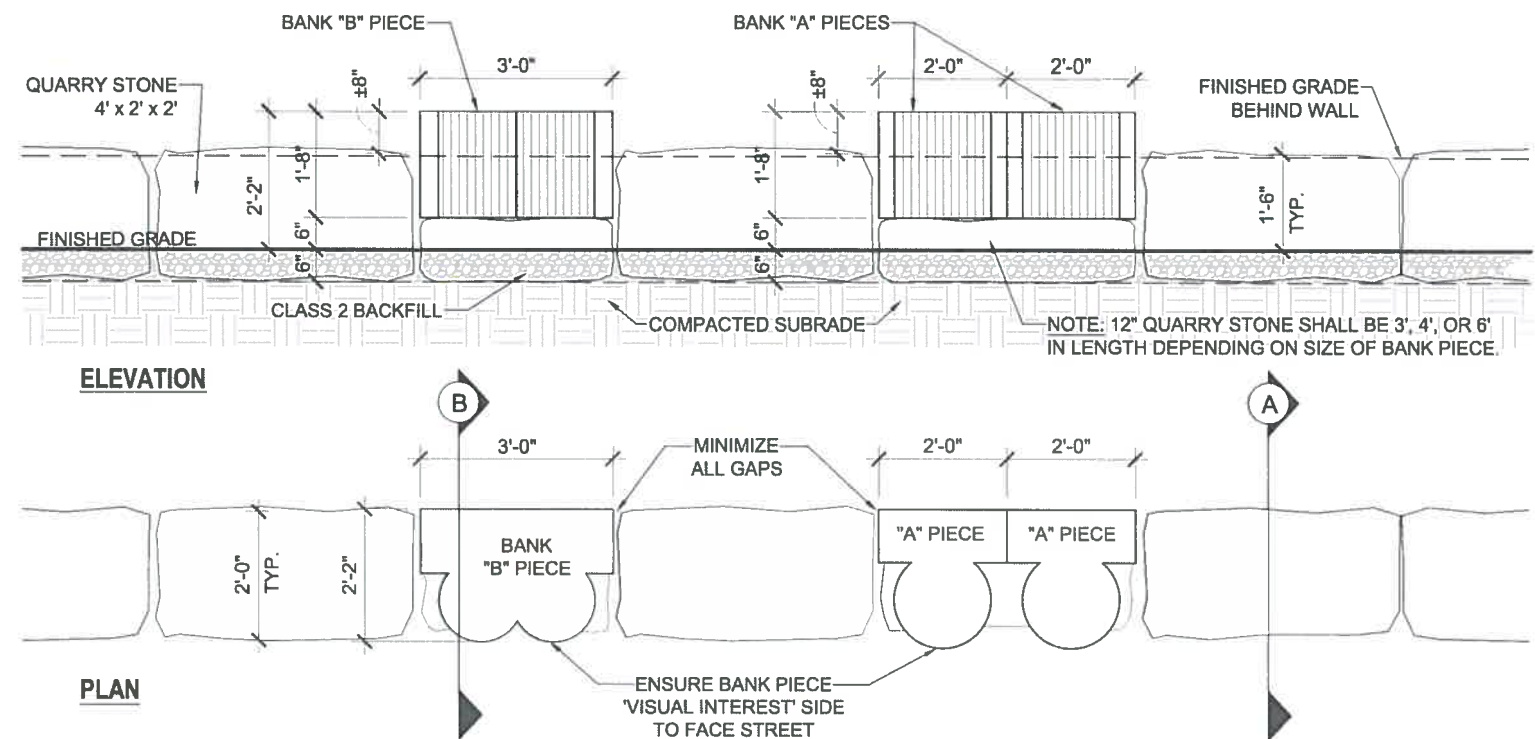
| | | | |
|----------------|---|---------------------------|--------------------|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE CIMARRON ST (US 24) MEDIAN PAVING PLAN | | Project No./Code |
| No Revisions: | Designer: | Structure Numbers | IM 0252-423 |
| Revised: | Detailer: | | 19039 |
| Void: | Sheet Subset: LANDSCAPE | Subset Sheets: MP16 of 16 | Sheet Number 24-56 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

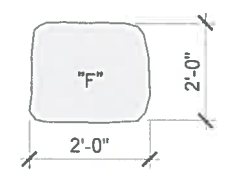
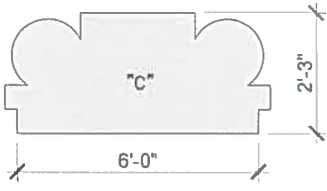
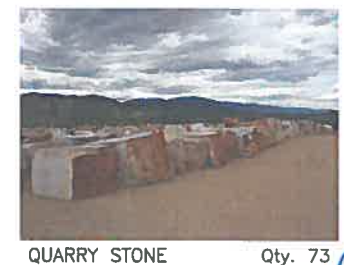
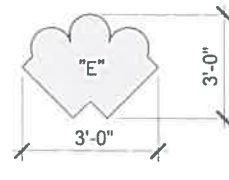
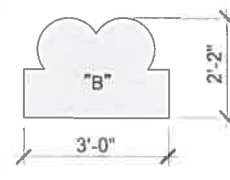
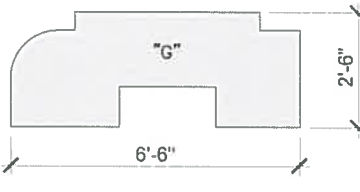
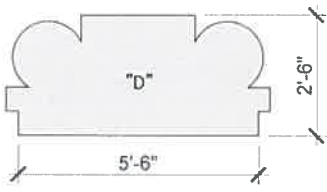
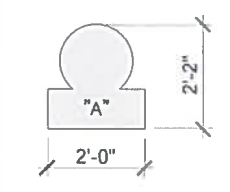
RFC



Know what's below.
Call before you dig.



1 QUADRANT WALLS
NTS



2 BANK PIECE IMAGES
NTS

QUADRANT WALL NOTES:

1. QUADRANT WALLS 'A' AND 'B' LOCATED NORTH OF THE 8th ST CONNECTION ROADWAY SHALL BE 18" HT. RETAINING WALLS. QUADRANT WALL 'C' LOCATED SOUTH OF THE 8th ST CONNECTION ROADWAY SHALL BE A 18" HT. FREESTANDING WALL.
2. QUARRY STONE SHALL BE SILOAM QUARRY STONE BLOCKS (SILOAM STONE, INC. 315 N. 7th ST. CANON CITY, CO) OR A CDOT-APPROVED EQUIVALENT. QUARRY STONE SHALL BE CUT IN DIMENSIONS AS PROVIDED ON QUADRANT WALL PLANS (QW02-QW04).
3. SET QUARRY STONE 6" BELOW FINISHED GRADE AS SHOWN IN ELEVATION DETAIL 1/QW01.
4. FINISHED WALL HEIGHT IS ESTABLISHED UPON QUARRY STONE AND NOT BANK PIECES. BANK PIECES MAY RISE ABOVE TOP OF WALL.
5. 35 BANK PIECES ARE TO BE INCLUDED IN QUADRANT WALLS AND HAVE BEEN CLASSIFIED BY SHAPES "A - H". IF DISCREPANCIES OCCUR OR IF SELECTED PIECES ARE DAMAGED, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AND AN ALTERNATE OR 'NEAREST EQUIVALENT' PIECE SHALL BE CHOSEN.
6. THE CONTRACTOR SHALL ORIENT BANK PIECES WITH PRIMARY 'VISUAL INTEREST' SIDE TOWARD THE STREET AS SHOWN ON THE PLANS AND IN PLAN DETAIL 1/QW01. FINAL ORIENTATION OF BANK PIECES WILL REQUIRE APPROVAL BY THE PROJECT MANAGER.
7. ALL BANK PIECE DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY DIMENSIONS IN THE FIELD.
8. IF USABLE ADDITIONAL BANK PIECES ARE AVAILABLE PRIOR TO COMPLETION OF THE QUADRANT WALLS, THESE BANK PIECES SHALL BE USED IN PLACE OF QUARRY STONES AS DIRECTED BY THE PROJECT MANAGER. IT IS THE INTENT THAT ALL USABLE BANK PIECES SHALL BE USED IN THE CONSTRUCTION OF THE QUADRANT WALLS.



z:\projects\1st\1-25 cimarron st\cad\19039_quadrantwallrfc.dwg

Print Date: 7/5/2016
 File Name: 19039_QuadrantWallRFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

| | | | |
|----------------|--------------------------------------|-------------------------|---------------------------|
| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| No Revisions: | QUADRANT WALL PLAN | | IM 0252-423 |
| Revised: | Designer: | Structure Numbers | 19039 |
| Void: | Detailer: | Sheet Subset: LANDSCAPE | Subset Sheets: QW01 of 04 |
| | | | Sheet Number 24-57 |

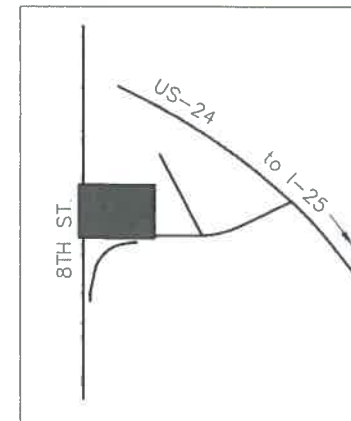
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



LAYOUT DATA - Quadrant Wall 'A'

| POINT NO. | EASTING (X) | NORTHING (Y) | NOTES |
|-----------|-------------|--------------|----------|
| QW-01 | 188934.3881 | 64230.0510 | WEST END |
| QW-02 | 188991.4669 | 64211.9054 | EAST END |

QUARRY STONE

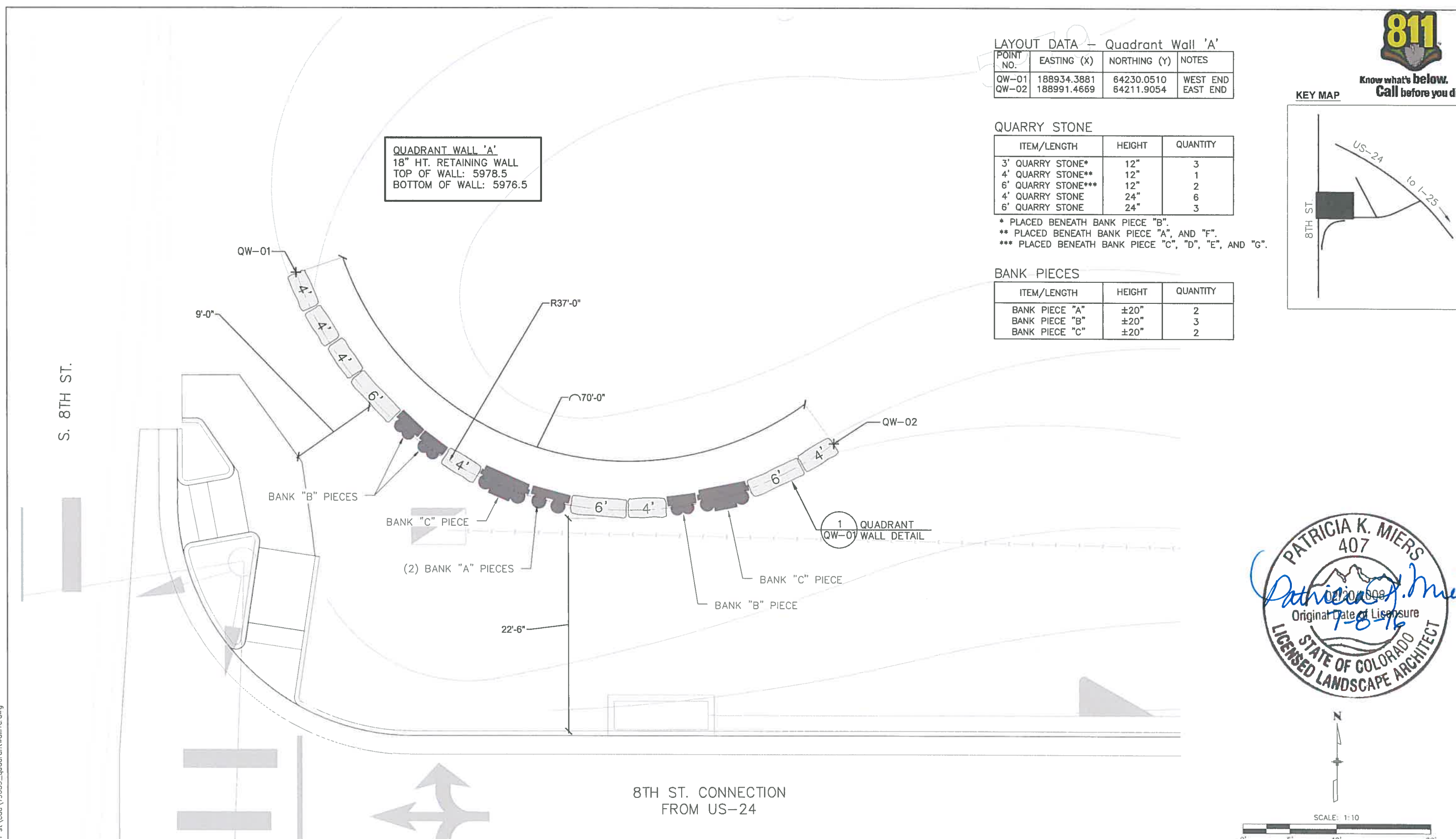
| ITEM/LENGTH | HEIGHT | QUANTITY |
|--------------------|--------|----------|
| 3' QUARRY STONE* | 12" | 3 |
| 4' QUARRY STONE** | 12" | 1 |
| 6' QUARRY STONE*** | 12" | 2 |
| 4' QUARRY STONE | 24" | 6 |
| 6' QUARRY STONE | 24" | 3 |

* PLACED BENEATH BANK PIECE "B".
 ** PLACED BENEATH BANK PIECE "A", AND "F".
 *** PLACED BENEATH BANK PIECE "C", "D", "E", AND "G".

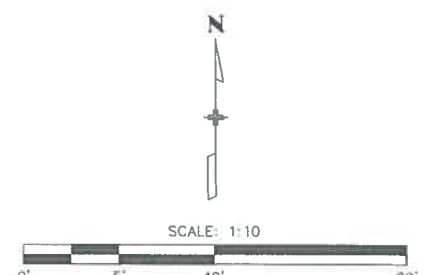
BANK PIECES

| ITEM/LENGTH | HEIGHT | QUANTITY |
|----------------|--------|----------|
| BANK PIECE "A" | ±20" | 2 |
| BANK PIECE "B" | ±20" | 3 |
| BANK PIECE "C" | ±20" | 2 |

QUADRANT WALL 'A'
 18" HT. RETAINING WALL
 TOP OF WALL: 5978.5
 BOTTOM OF WALL: 5976.5



8TH ST. CONNECTION
FROM US-24



| | | | | | | | | |
|---|-----------------|----------|-------|--|----------------|---|---|--------------------|
| Print Date: 7/5/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | Project No./Code | |
| File Name: 19039_QuadrantWallRFC.dwg | Date: | Comments | Init. | | | | | No Revisions: |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | Revised: | Designer: Detailer: Sheet Subset: LANDSCAPE | Structure Numbers: Subset Sheets: QW02 of 04 | 19039 |
| | | | | | Void: | Designer: Detailer: Sheet Subset: LANDSCAPE | Structure Numbers: Subset Sheets: QW02 of 04 | Sheet Number 24-58 |

z:\projects\19039\19039-quadrantwallrfc.dwg

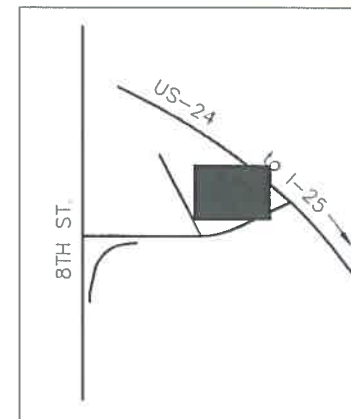
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



LAYOUT DATA - Quadrant Wall 'B'

| POINT NO. | EASTING (X) | NORTHING (Y) | NOTES |
|-----------|-------------|--------------|-----------|
| QW-03 | 189284.5789 | 64229.4648 | SOUTH END |
| QW-04 | 189275.0145 | 64284.3788 | NORTH END |

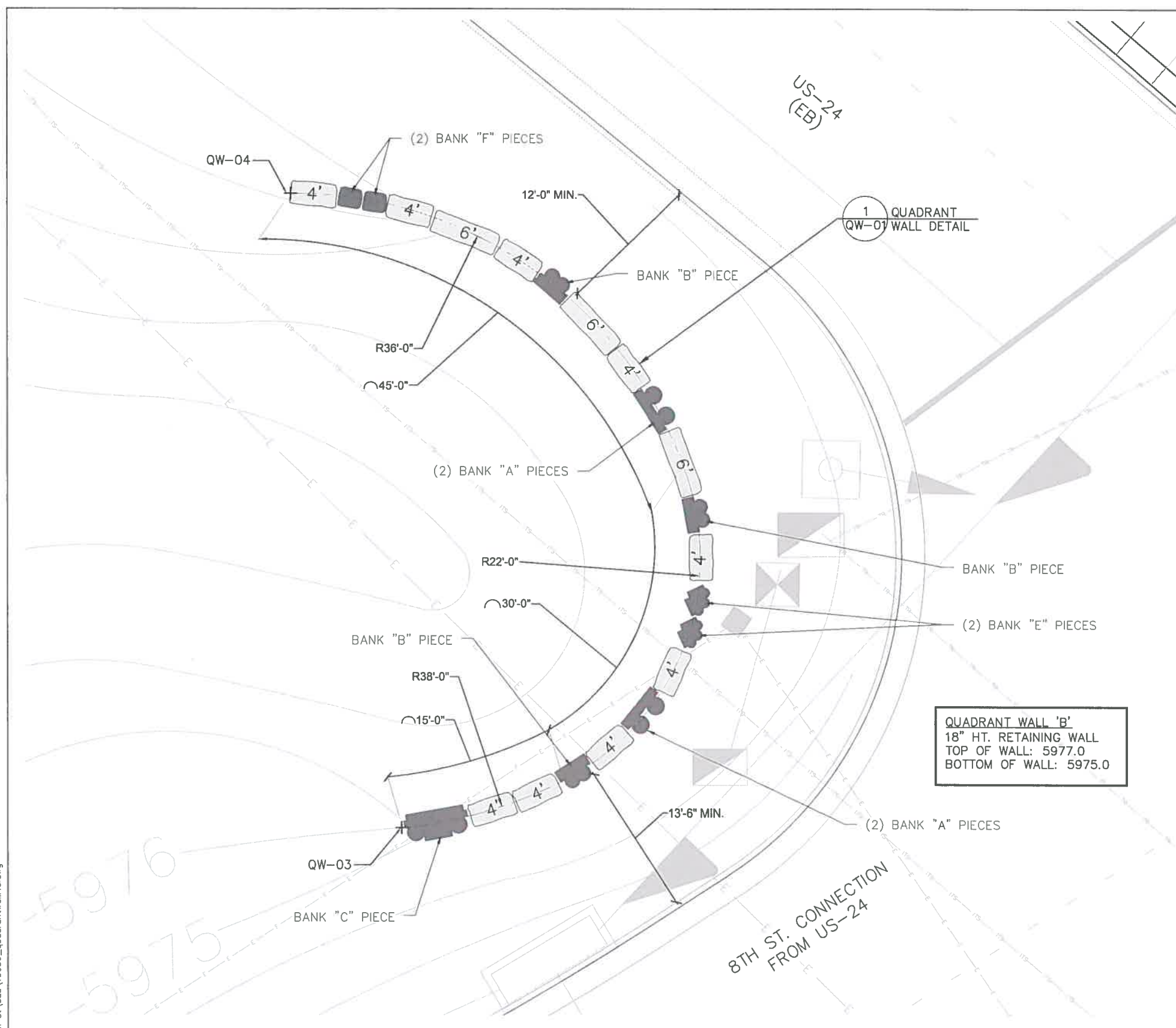
QUARRY STONE

| ITEM/LENGTH | HEIGHT | QUANTITY |
|--------------------|--------|----------|
| 3' QUARRY STONE* | 12" | 3 |
| 4' QUARRY STONE** | 12" | 3 |
| 6' QUARRY STONE*** | 12" | 2 |
| 4' QUARRY STONE | 24" | 9 |
| 6' QUARRY STONE | 24" | 3 |

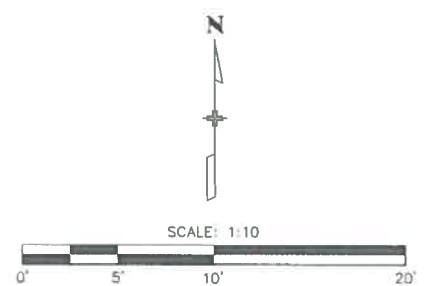
* PLACED BENEATH BANK PIECE "B".
 ** PLACED BENEATH BANK PIECE "A", AND "F".
 *** PLACED BENEATH BANK PIECE "C", "D", "E", AND "G".

BANK PIECES

| ITEM/LENGTH | HEIGHT | QUANTITY |
|----------------|--------|----------|
| BANK PIECE "A" | ±20" | 4 |
| BANK PIECE "B" | ±20" | 3 |
| BANK PIECE "C" | ±20" | 1 |
| BANK PIECE "E" | ±18" | 2 |
| BANK PIECE "F" | ±24" | 2 |



QUADRANT WALL 'B'
 18" HT. RETAINING WALL
 TOP OF WALL: 5977.0
 BOTTOM OF WALL: 5975.0



| | | | | | | | | |
|--|-----------------|----------|-------|--|----------------|--------------------------------------|---------------------------|--------------------|
| Print Date: 7/5/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | Project No./Code | |
| File Name: 19039_QuadrantWallRFC.dwg | Date: | Comments | Init. | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | No Revisions: | QUADRANT WALL 'B' | IM 0252-423 | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | | Revised: | | Designer: | Structure Numbers |
| | | | | | | Detailer: | | |
| | | | | | | Sheet Subset: LANDSCAPE | Subset Sheets: QW03 of 04 | Sheet Number 24-59 |

z:\projects\19039\19039_quadrantwallrfc.dwg

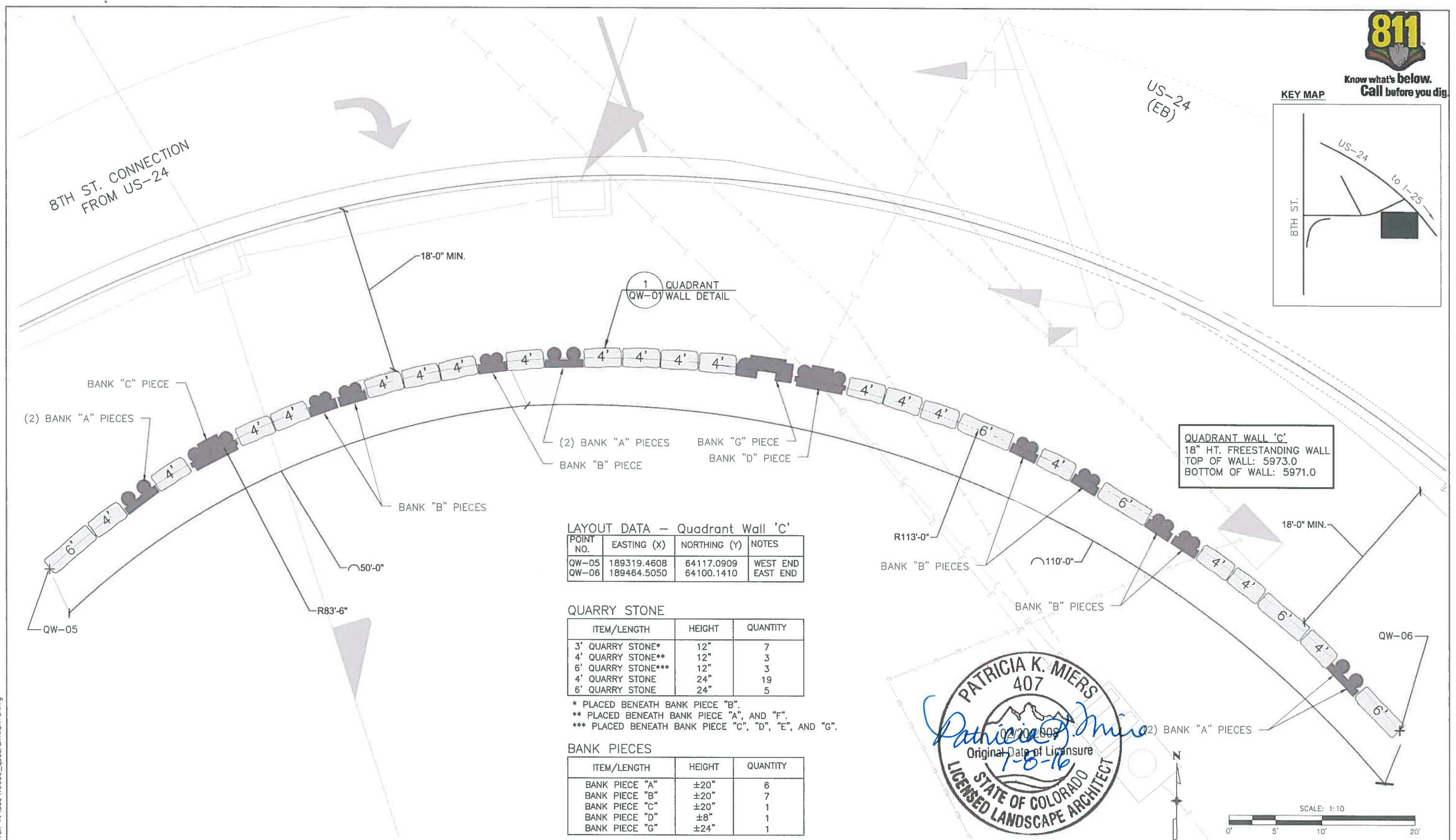
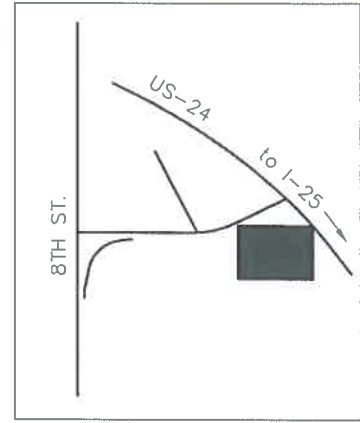
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



LAYOUT DATA - Quadrant Wall 'C'

| POINT NO. | EASTING (X) | NORTHING (Y) | NOTES |
|-----------|-------------|--------------|----------|
| QW-05 | 189319.4608 | 64117.0909 | WEST END |
| QW-06 | 189464.5050 | 64100.1410 | EAST END |

QUARRY STONE

| ITEM/LENGTH | HEIGHT | QUANTITY |
|--------------------|--------|----------|
| 3' QUARRY STONE* | 12" | 7 |
| 4' QUARRY STONE** | 12" | 3 |
| 6' QUARRY STONE*** | 12" | 3 |
| 4' QUARRY STONE | 24" | 19 |
| 6' QUARRY STONE | 24" | 5 |

* PLACED BENEATH BANK PIECE "B".
 ** PLACED BENEATH BANK PIECE "A", AND "F".
 *** PLACED BENEATH BANK PIECE "C", "D", "E", AND "G".

BANK PIECES

| ITEM/LENGTH | HEIGHT | QUANTITY |
|----------------|--------|----------|
| BANK PIECE "A" | ±20" | 6 |
| BANK PIECE "B" | ±20" | 7 |
| BANK PIECE "C" | ±20" | 1 |
| BANK PIECE "D" | ±8" | 1 |
| BANK PIECE "G" | ±24" | 1 |



z:\projects\19039\19039_25_cimarron_st\cad\19039_quadrantwallrfc.dwg

| | | | | | | | | |
|--|-----------------|----------|-------|--|----------------|---|-------------------|--------------------|
| Print Date: 7/5/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: 19039_QuadrantWallRFC.dwg | Date: | Comments | Init. | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | No Revisions: | QUADRANT WALL 'C' | | IM 0252-423 |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | | Revised: | Designer: | Structure Numbers | 19039 |
| | | | | | Void: | Sheet Subset: LANDSCAPE Subset Sheets: QW04 of 04 | | Sheet Number 24-60 |
| | | | | | | | | |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

I-25 CIMARRON DESIGN BUILD SB 40 TREE AND SHRUB INVENTORY

SENATE BILL 40 - RIPARIAN CORRIDOR NATIVE TREES

| SURVEY AREA | TREE SPECIES | NATIVE | QUANTITY |
|----------------------------------|--|--------|------------|
| North of Cimarron Fountain Creek | Green Ash (<i>Fraxinus pennsylvanica</i>) | Y | 1 |
| | Plains Cottonwood (<i>Populus deltoides</i>) | Y | 30 |
| | Box Elder (<i>Acer negundo</i>) | Y | 1 |
| South of Cimarron Fountain Creek | Plains Cottonwood (<i>Populus deltoides</i>) | Y | 13 |
| East of I-25 Monument Creek | Plains Cottonwood (<i>Populus deltoides</i>) | Y | 23 |
| | Black Locust (<i>Robinia pseudoacacia</i>) | Y | 16 |
| Western most South of Cimarron | Green Ash (<i>Fraxinus pennsylvanica</i>) | Y | 2 |
| North of Cimarron | Plains Cottonwood (<i>Populus deltoides</i>) | Y | 10 |
| | Green Ash (<i>Fraxinus pennsylvanica</i>) | Y | 27 |
| | Black Locust (<i>Robinia pseudoacacia</i>) | Y | 33 |
| Southern most West of I-25 | Black Locust (<i>Robinia pseudoacacia</i>) | Y | 1 |
| | Green Ash (<i>Fraxinus pennsylvanica</i>) | Y | 2 |
| | Plains Cottonwood (<i>Populus deltoides</i>) | Y | 8 |
| | Pinyon pine (<i>Pinus edulis</i>) | Y | 1 |
| | Total: | | 168 |

SENATE BILL 40 - RIPARIAN CORRIDOR NATIVE SHRUBS

| SURVEY AREA | SHRUB SPECIES | NATIVE | AREA (SF) |
|----------------------------------|---|--------|--------------|
| North of Cimarron Fountain Creek | Wax Currant (<i>Ribes cereum</i>) | Y | 1,600 |
| South of Cimarron Fountain Creek | Wax Currant (<i>Ribes cereum</i>) | Y | 700 |
| | Snowberry (<i>Symphoricarpos albus</i>) | Y | 300 |
| East of I-25 Monument Creek | Wax Currant (<i>Ribes cereum</i>) | Y | 600 |
| | Sandbar Willow (<i>Salix exigua</i>) | Y | 1,200 |
| Western most South of Cimarron | Wild Plum (<i>Prunus americana</i>) | Y | 286 |
| North of Cimarron Southern most | Wild Plum (<i>Prunus americana</i>) | Y | 1,827 |
| | Wild Plum (<i>Prunus americana</i>) | Y | 1,266 |
| West of I-25 | Wood's rose (<i>Rosa woodsii</i>) | | |
| | Total = | | 7,779 |

SENATE BILL 40 - RIPARIAN CORRIDOR NON-NATIVE TREES

| SURVEY AREA | TREE SPECIES | NATIVE | QUANTITY |
|----------------------------------|--|--------|------------|
| North of Cimarron Fountain Creek | Siberian Elm (<i>Ulmus pumila</i>) | N | 76 |
| | Crack Willow (<i>Salix fragilis</i>) | N | 7 |
| | Russian Olive (<i>Eleagnus angustifolia</i>) | N | 18 |
| South of Cimarron Fountain Creek | Siberian Elm (<i>Ulmus pumila</i>) | N | 188 |
| | Crack Willow (<i>Salix fragilis</i>) | N | 51 |
| East of I-25 Monument Creek | Siberian Elm (<i>Ulmus pumila</i>) | N | 139 |
| | Crack Willow (<i>Salix fragilis</i>) | N | 2 |
| | Russian Olive (<i>Eleagnus angustifolia</i>) | N | 13 |
| Western most South of Cimarron | Siberian Elm (<i>Ulmus pumila</i>) | N | 112 |
| | Crack willow (<i>Salix fragilis</i>) | N | 6 |
| North of Cimarron | Siberian Elm (<i>Ulmus pumila</i>) | N | 70 |
| | Crack willow (<i>Salix fragilis</i>) | N | 6 |
| | Russian Olive (<i>Eleagnus angustifolia</i>) | N | 1 |
| | Russian Olive (<i>Eleagnus angustifolia</i>) | N | 10 |
| East of I-25 | Siberian Elm (<i>Ulmus pumila</i>) | N | 74 |
| | Russian Olive (<i>Eleagnus angustifolia</i>) | N | 10 |
| Southern most West of I-25 | Siberian Elm (<i>Ulmus pumila</i>) | N | 9 |
| | Crack willow (<i>Salix fragilis</i>) | N | 3 |
| | Total: | | 785 |

Non-Native Tree Replacement Policy is 4 Sandbar Willow Stakes per Tree (4 SF per stake)
 785 Trees x 4 Willow Stakes = 3,140 willow stakes (3,140 x 4 SF = 12,560 SF)

Print Date: 7/5/2016
 File Name: 19039_SB_40RFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
 CONSULTING ENGINEERS

K
 KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE SB 40 NOTES AND DETAILS | |
|----------------|--|---------------------------|
| No Revisions: | Designer: CS | Structure Numbers |
| Revised: | Detailer: CS | |
| Void: | Sheet Subset: LANDSCAPE | Subset Sheets: SB01 of 06 |

| Project No./Code |
|--------------------|
| IM 0252-423 |
| 19039 |
| Sheet Number 24-61 |

WOODY PLANTS TABLE

PLANT DORMANT LOG TREES AND 1 QUART SHRUBS LATE MARCH TO EARLY APRIL. PLANT SANDBAR WILLOW CUTTINGS BETWEEN NOVEMBER THRU APRIL WHEN DORMANT AND GROUND IS NOT FROZEN. FOLLOW PLANTING SPECIFICATIONS ON PLANS. FIELD LOCATION FOR TREES AND SHRUBS SHOULD BE PROVIDED BY PROJECT LANDSCAPE ARCHITECT.

| SYM BOL | KEY | QTY | AREA SF | COMMON NAME | BOTANICAL NAME | SIZE | SPACING | COMMENTS |
|---------------------------------|---------------|------------|---------------|------------------------|------------------------|-------------|----------|-------------------------------|
| *DECIDUOUS TREE | | | | | | | | |
| | PC | 100 | 10,000 | PLAINS COTTONWOOD | POPULUS DELTOIDES | Dormant Log | 20' O.C. | Plant 2-5 feet above water |
| | PLW | 68 | 6,800 | PEACH LEAF WILLOW | SALIX AMYGDALOIDES | Dormant Log | 10' O.C. | Plant 2-5 feet above water |
| | TOTALS | 168 | 16,800 | | | | | |
| DECIDUOUS SHRUB (WILLOW) | | | | | | | | |
| | SBW | 3,140 | 12,560 | SANDBAR WILLOW | SALIX EXIGUA | Cuttings | 2' O.C. | Plant 1 feet above water |
| DECIDUOUS SHRUB | | | | | | | | |
| | GC | 125 | 1,125 | GOLDEN CURRANT | RIBES AUREUM | 1 QT. | 4' O.C. | Plant 1 to 3 feet above water |
| | PCG | 110 | 990 | PRAIRIE CORDGRASS | SPARTINA PECTINATA | 1 QT. | 2' O.C. | Plant 1 to 3 feet above water |
| | TLS | 110 | 990 | THREE LEAF SUMAC | RHUS TRILOBATA | 1 QT. | 3' O.C. | Plant 2 to 4 feet above water |
| | WC | 125 | 1,125 | WAX CURRANT | RIBES CEREUM | 1 QT. | 4' O.C. | Plant 1 to 3 feet above water |
| | DAW | 50 | 1,800 | DWARF ARCTIC WILLOW | SALIX PURPUREA NANA | 1 QT. | 6' O.C. | Plant 2 to 4 feet above water |
| | CLM | 50 | 1,800 | CURL-LEAF MTN MAHOGANY | CERCOCARPUS LEDIFOLIUS | 1 QT. | 6' O.C. | Plant 2 to 4 feet above water |
| | TOTALS | 670 | 7,830 | | | | | |

* 88 PC and 55 PLW will be planted within the Upper Fountain Creek riparian area. 12 PC and 13 PLW will be planted along Monument Creek in areas as designated by the Project Engineer.

WOODY PLANTS TABLE NOTE:

* ALL WOODY DECIDUOUS SHRUBS ARE COLORADO DEER RESISTANT PLANTS AND ROCKY MOUNTAIN XERISCAPE PLANTS AND HAVE BEEN CHOSEN TO LIMIT WILDLIFE FORAGING WITHIN THE RIPARIAN CORRIDOR

FOR REFERENCE ONLY: SEEDING (NATIVE UPLAND)

| BOTANICAL NAME * | COMMON NAME | LBS p/ ACRE |
|--|--------------------------|-------------|
| DALEA PURPUREUM | PURPLE PRAIRIE CLOVER | 0.90 |
| PENSTEMON STRICTUS | ROCKY MOUNTAIN PENSTEMON | 0.90 |
| ACHNATERUM HYMENOIDES | INDIAN RICEGRASS | 1.8 |
| BOUTELOUA CURTIPENDULA | SIDEOATS GRAMA | 3.6 |
| BOUTELOUA GRACILIS | BLUE GRAMA | 1.8 |
| BUCHLOE DACTYLOIDES | BUFFALOGRASS | 1.8 |
| CALAMOVILFA LONGIFOLIA | PRAIRIE SANDREED | 3.6 |
| ELYMUS LANCEOLATUS LANCEOLATUS 'CRITANA' | THICKSPIKE WHEATGRASS | 5.4 |
| NASSELLA VIRIDULA | GREEN NEEDLEGRASS | 3.6 |
| PASCOPYRUM SMITHII 'ARRIBA' | WESTERN WHEATGRASS | 9.0 |
| SPOROBOLUS AIROIDES | ALKALI SACATON | 3.6 |

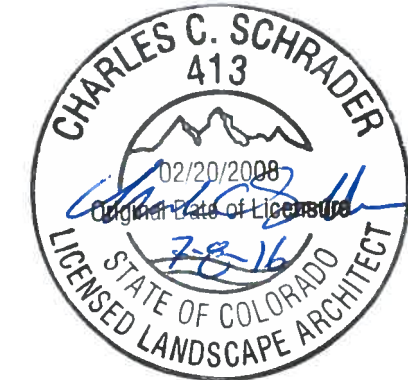
* NOMENCLATURE FOLLOWS CITY OF COLORADO SPRINGS DRAINAGE CRITERIA MANUAL.
 ** RATES ARE FOR DRILLED, DOUBLE IF HAND-BROADCASTED.

SEEDING (NATIVE RIPARIAN GRASS, FORB AND SHRUB)

| BOTANICAL NAME | COMMON NAME/VARIETY | LBS/AC - PLS |
|-------------------------------------|--------------------------------|--------------|
| SHRUBS | | |
| ATRIplex CANESCENS | FOURWING SALT BUSH | 0.5 |
| RHUS TRILOBATA | SKUNKBRUSH SUMAC | 0.5 |
| CHRYSOTHAMNUS NAUSEOSUS | RUBBER RABBITBRUSH | 0.5 |
| CERCOCARPUS LEDIFOLIUS | CURL-LEAF MOUNTAIN MAHOGANY | 0.5 |
| FORBS | | |
| GAILLARDIA ARISTATA | BLANKETFLOWER | 0.4 |
| LIATRIS PUNCTATA | GAYFLOWER | 0.4 |
| LINUM LEWISII | BLUE FLAX | 0.1 |
| PETALOSTEMUM PURPUREUM | PURPLE PRAIRIE CLOVER, KANEB | 0.4 |
| RATIBIDA COLUMARIS | PRAIRIE CONEFLOWER, NATIVE | 0.1 |
| RIPARIAN GRASSES AND FORBS | | |
| ANDROPOGON GERARDII | BIG BLUESTEM, KAW | 1.0 |
| BECMANNIA SYZIGACHNE | AMERICAN SLOUGHGRASS | 2.5 |
| BOUTELOUA CURTIPENDULA | SIDEOATS GRAMA, VAUGHN | 2.0 |
| CALAMOVILFA LONGIFOLIA | PRAIRIE SANDREED, GOSHEN | 3.5 |
| CAREX NEBRASCENSIS | NEBRASKA SEDGE | 1.0 |
| ELYMUS LANCEOLATUS SPP. LANCEOLATUS | THICKSPIKE WHEATGRASS, CRITANA | 2.0 |
| ELYMUS LANCEOLATUS | STREAMBANK WHEATGRASS, SODAR | 5.0 |
| GLYCERIA STRIATA | FOWL MANNAGRASS | 2.5 |
| JUNCUS ARCTICUS | ARCTIC (BAL TIC) RUSH | 1.5 |
| NASSELLA VIRIDULA | GREEN NEEDLEGRASS, LODORM | 1.0 |
| PANICUM VIRGATUM | SWITCHGRASS, NEBRASKA 28 | 2.0 |
| PASCOPYRUM SMITHII | WESTERN WHEATGRASS, ARRIBA | 4.5 |
| POA PALUSTRIS | FOWL BLUEGRASS | 3.5 |
| SPARTINA PECTINATA | PRAIRIE CORDGRASS | 2.0 |
| SPOROBOLUS AIROIDES | ALKALI SACATON | 2.0 |
| | TOTAL SEED | 36.0 |



Know what's below. Call before you dig.





Know what's below.
Call before you dig.

SB 40 MITIGATION NOTES:

PRECONSTRUCTION MEETING:

PRIOR TO RIPARIAN CONSTRUCTION COMMENCING A PRECONSTRUCTION MEETING SHALL OCCUR ON SITE BETWEEN THE PROJECT ENGINEER, CONTRACTOR, PROJECT LANDSCAPE ARCHITECT, AND PROJECT WETLAND BIOLOGIST. AT THIS MEETING THE FOLLOWING WILL BE DISCUSSED:

- A. PERMITS
- B. ACCESS AREAS
- C. PROTECTION OF EXISTING WOODY AND NON-WOODY VEGETATION AND WETLANDS, INCLUDING FLAGGING AREAS TO BE PROTECTED WITH PLASTIC FENCE (REFER TO PHASING PLANS FOR LOCATIONS OF PLASTIC FENCE).

RIPARIAN, RIVER AND WETLAND PROTECTION AND CONSTRUCTION:

PRIOR TO CONSTRUCTION COMMENCING THE CONTRACTOR SHALL PLACE PLASTIC FENCE TO PROTECT EXISTING VEGETATION (TREES, SHRUBS AND WETLANDS) NOT TO BE DISTURBED AND TO DELINEATE ACCESS AREAS TO LIMIT CONSTRUCTION TRAFFIC. NO DISTURBANCE OF SOIL OR STOCKPILING OF MATERIALS SHALL OCCUR WITHIN PROTECTED AREAS.

CLEARING AND GRUBBING OF SHRUBS AND VEGETATION THAT MAY DISTURB GROUND NESTING BIRDS SHALL BE COMPLETED BEFORE NESTING OR AFTER YOUNG HAVE FLEDGED. IF WORK ACTIVITIES ARE PLANNED BETWEEN APRIL 1 AND AUGUST 31, VEGETATION SHALL BE TRIMMED TO A HEIGHT OF SIX INCHES OR LESS PRIOR TO APRIL 1. ONCE VEGETATION HAS BEEN REMOVED AND/OR TRIMMED, APPROPRIATE MEASURES MUST BE IMPLEMENTED TO ENSURE VEGETATION DOES NOT GROW MORE THAN SIX INCHES.

PRIOR TO WORKING IN LIVE WATER, ANY HEAVY EQUIPMENT OR GEAR (BOOTS, WADERS, TOOLS, ETC.) THAT ARE TO BE USED IN OR NEAR THE WATERS ON THE PROJECT THAT WERE PREVIOUSLY IN ANOTHER STREAM, RIVER, LAKE, POND OR WETLANDS WITHIN 10 DAYS OF INITIATING WORK SHALL BE TREATED WITH ONE OF THE FOLLOWING PROCEDURES TO PREVENT THE SPREAD OF NEW ZEALAND MUD SNAILS AND OTHER AQUATIC HITCHHIKERS:

1. REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT AND KEEP EQUIPMENT DRY FOR AT LEAST 10 DAYS OR
2. REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT AND SPRAY/SOAK EQUIPMENT WITH A 1:1 SOLUTION OF FORMULA 409 HOUSEHOLD CLEANER AND WATER OR QUAT 4 OR SUPER HDQ NEUTRAL INSTITUTIONAL CLEANER (5 OUNCES PER GALLON OF WATER). TREATED EQUIPMENT MUST BE KEPT MOIST FOR AT LEAST 10 MINUTES, OR
3. REMOVE ALL MUD AND DEBRIS FROM EQUIPMENT AND SPRAY/SOAK EQUIPMENT WITH WATER TEMPERATURE GREATER THAN 120 DEGREES FAHRENHEIT FOR AT LEAST 10 MINUTES.

WETLAND PROTECTION, WILLOW CUTTING AND COTTONWOOD POLE PLANTING

WETLAND AREAS TEMPORARILY IMPACTED UNDER ACCESS AND CONSTRUCTION ROADS SHALL BE PROTECTED WITH GEOTEXTILE FABRIC. PRUNE WILLOWS AND TREES TO GROUND LEVEL PRIOR TO PLACEMENT OF GEOTEXTILE. ABOVE THE FABRIC PLACE 12 INCHES OF LOOSE STRAW AND MINIMUM OF 2 FT. OF EMBANKMENT. AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, SOIL, STRAW AND GEOTEXTILE SHALL BE CAREFULLY REMOVED, AS DIRECTED. THE FINAL LIFT SHALL BE REMOVED USING A TOOTHLESS BACKHOE. STRAW AND GEOTEXTILE BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. EXCESS FILL SHALL NOT BE WASTED IN WETLAND OR FLOODPLAIN AREA. STRAW AND GEOTEXTILE AND REMOVAL OF STRAW AND GEOTEXTILE SHALL BE INCLUDED IN THE PRICE OF THE WORK.

IT IS ESTIMATED THAT 3,140 SANDBAR WILLOW CUTTINGS WILL BE REQUIRED ON THE PROJECT. ALL WILLOW STAKES SHALL BE PLACED IN AREAS WITH A MINIMUM OF 1 FT. OF SOIL. IT IS ESTIMATED THAT 80 COTTONWOOD AND 68 PEACHLEAF WILLOW (DORMANT LOG CUTTINGS) WILL BE REQUIRED ON THE PROJECT WITHIN THE FOUNTAIN CREEK AND UPPER FOUNTAIN CREEK SECTIONS. AN ADDITIONAL 20 COTTONWOOD TREES WILL BE PLANTED ALONG MONUMENT CREEK IN AREAS AS DESIGNATED BY THE PROJECT LANDSCAPE ARCHITECT. TREE AND SHRUB PLANTINGS SHALL BE PLANTED IN THE AREAS AS SHOWN ON THE PLANS WITH PLANTING LOCATIONS AS STAKED IN THE FIELD BY THE PROJECT LANDSCAPE ARCHITECT. IMMEDIATELY AFTER PLANTING (SAME DAY) EACH TREE SHALL HAVE ANIMAL PROTECTION FENCE INSTALLED AS SHOWN IN THE DETAILS WITH COST OF ANIMAL PROTECTION INCLUDED IN THE COST OF THE TREE.

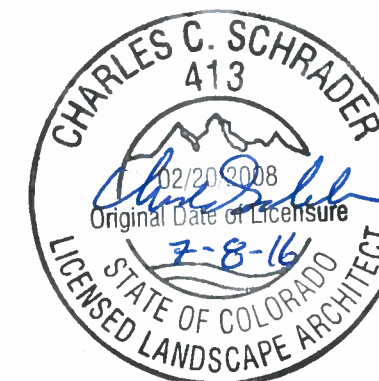
SEEDING AND PLANTING WILL BE REQUIRED FOR AREAS AS SHOWN ON THE PLANS. THE PLANTING AND SEEDING SITES SHALL BE VEGETATED BY PLACING WILLOW CUTTINGS ON 2' CENTERS THROUGHOUT THE DESIGNATED AREA. AREAS SHALL ALSO BE SEEDED WITH THE SEED MIX AS SHOWN IN THE SB40 PLANTING PLANS.

SEED APPLICATION: HAND BROADCAST AT DOUBLE THE SEEDING RATE AND RAKE .25 TO .5 INCHES INTO THE TOPSOIL. DO NOT HYDROSEED. SEED BAG LABELS SHALL CONFORM TO CURRENT STATE AND FEDERAL REGULATIONS. ALL SEED BAG LABELS SHALL BE SAVED AND PROVIDED TO THE OWNER'S CONSTRUCTION MANAGER (OR PROJECT MANAGER).

ALL PLANTS ARE TO BE EXAMINED UPON ARRIVAL BY WETLAND BIOLOGIST OR PROJECT LANDSCAPE ARCHITECT TO ASSURE PROPER AND HEALTHY PLANTS. WOOD CHIP MULCH SHALL BE USED ON ALL TUBELING-1 QT. PLANT MATERIAL BUT SHALL NOT BE USED ON WILLOW AND COTTONWOOD CUTTINGS.

SB 40 RIPARIAN AND WETLAND PAY ITEMS

| PAY ITEM | DESCRIPTION | UNIT | QUANTITY |
|----------|----------------------------------|------|----------|
| 212 | SEEDING (RIPARIAN) | AC | 2.54 |
| 212 | SEEDING (SHRUBS) | LB | 5.6 |
| 214 | DECIDUOUS SHRUB (TUBELING-1 QT.) | EA | 570 |
| 214 | WILLOW CUTTINGS | EA | 3,140 |
| 214 | DORMANT LOG CUTTING | EA | 168 |



z:\projects\sh\1-25 cimarron st\cad\19039_sb 40rfc.dwg

| | | | | | | | | |
|---|-----------------|----------|-------|--|----------------|---|-------------------|---------------------------|
| Print Date: 7/5/2016 | Sheet Revisions | | | Colorado Department of Transportation Region 2 | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE SB 40 NOTES AND DETAILS | | Project No./Code |
| File Name: 19039_SB 40RFC.dwg | Date: | Comments | Init. | | | No Revisions: | | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 | Revised: | Designer: CS | Structure Numbers | 19039 |
| | | | | | DMW | Void: | Detailer: CS | Subset Sheets: SB02 of 06 |

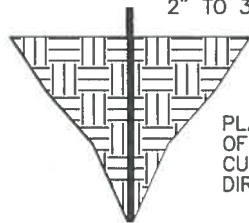
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below. Call before you dig.

CUTTING MIN. OF 1/4" IN DIA. CUT OFF EXPOSED LENGTH 2" TO 3" ABOVE GROUND



PLACE CUTTING A MINIMUM OF 20" TO 30" INTO THE SOIL. CUTTING SHALL BE PLACED AS DIRECTED IN MOIST AREAS.

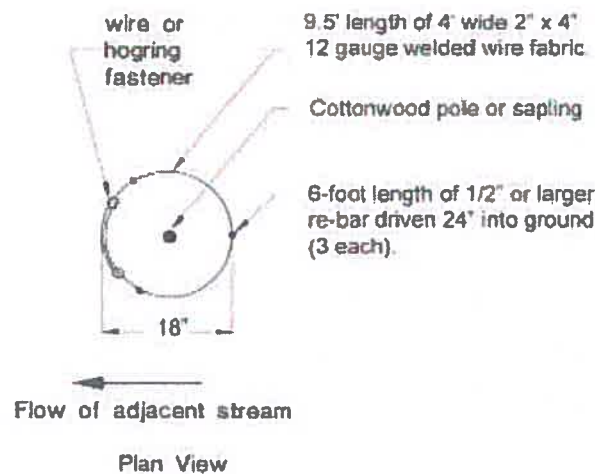
WILLOW CUTTING DETAIL AND NOTES (Not to Scale)

WILLOW CUTTING DETAIL AND NOTES NOT TO SCALE

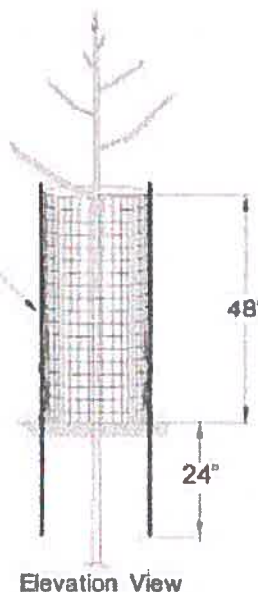
WILLOW CUTTINGS SHALL BE PLACED 2' O.C. IN THE SPRING WHILE DORMANT. CUTTINGS SHALL BE PLANTED TO A MINIMUM DEPTH OF 20" TO PREVENT WILLOW CUTTINGS FROM WASHING DOWNSTREAM IN STORM EVENTS. HOLES SHALL BE BACKFILLED WITH NATIVE MATERIAL AND WATERED TO ENSURE NO AIR POCKETS REMAIN.

DORMANT LOG CUTTING DETAIL (COTTONWOOD AND PEACH LEAF WILLOW)

1. COLLECT DORMANT STEMS 11-12' LONG, GREATER THAN 3" IN DIAMETER AND CUT BASE AT 45° ANGLE
2. TRIM TIP WITH A FLAT CUT AND PAINT TO REDUCE MOISTURE LOSS
3. STORE BUTTS IN WATER OR WRAP IN WET BURLAP AT ALL TIMES
4. PLANT IN SITES WITH SAND, GRAVEL OR SMALL COBBLES ABOVE AND IN THE WATER TABLE
5. AUGER HOLE 6" IN DIAMETER TO THE DEPTH OF THE LOWEST ANTICIPATED GROWING SEASON WATER TABLE OR USE A "STINGER" TO POKE A HOLE LARGE AND DEEP ENOUGH FOR POLE PLANTINGS
6. SCORE THE BASE OF THE STEMS
7. PLACE POLE INTO HOLE WITH 3-4' ABOVE GROUND
8. BACKFILL COMPLETELY WITH DRY SURFACE SOIL TO MINIMIZE FORMATION OF AIR POCKETS
9. STAKE THE POLES TO PREVENT WIND DAMAGE
10. PROTECT WITH 2"X4" WELDED WIRE MESH FENCE 4' HIGH FOR BEAVER. ALSO UTILIZE WIRE FENCING TO AVOID TRAMPLING OR BROWSING BY GRAZING WILDLIFE. TO BE PAID FOR AS COST OF TREE REPLACEMENT (DORMANT LOG CUTTINGS)

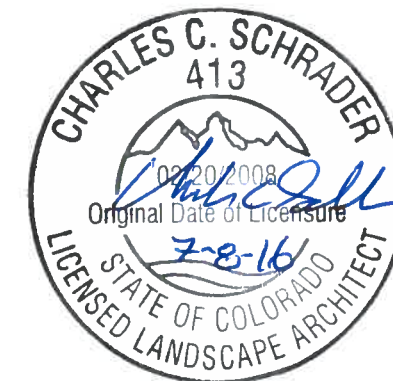
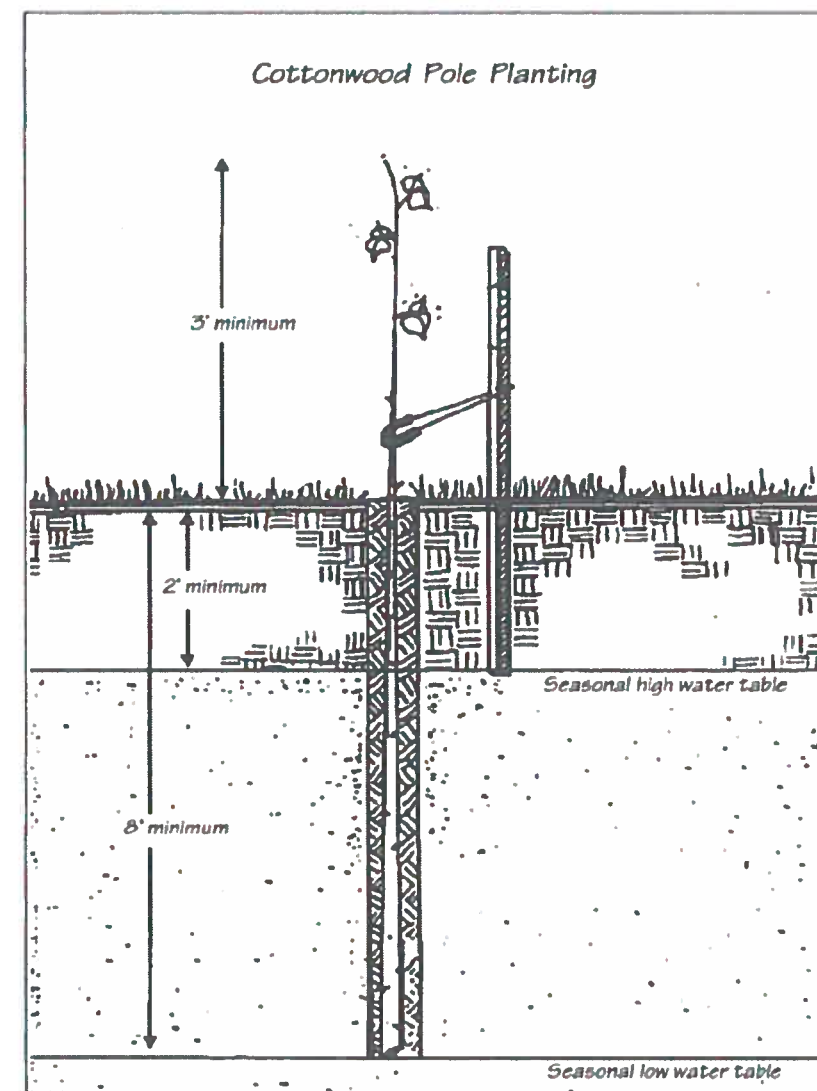


18" dia. double wrapped beaver protection sleeve made from 9.5' length of 4' wide 12 gauge 2X4" welded wire fabric, fastened with wire or hogrings. Anchor sleeve upstream and downstream with 3 six foot lengths of # 4 or larger rebar, driven 2' into the soil and hog ringed or wired in two or three places to the sleeve.



Beaver Protection Detail

(Illustration adapted from Urban Drainage and Flood Control District, Soil Bioengineering or Shoreline Stabilization – Section 32 93 43, 03/2012)



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

z:\projects\19039\19039_schematic\19039_sb_40rfc.dwg

| | |
|--|--|
| Print Date: 7/5/2016 | |
| File Name: 19039_SB 40RFC.dwg | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | |
| | |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

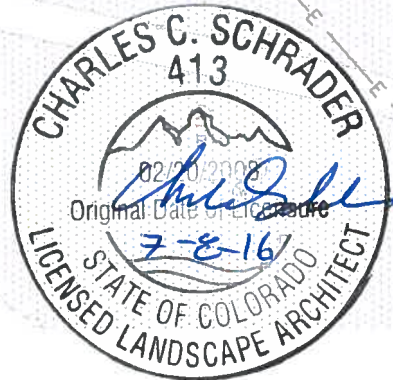
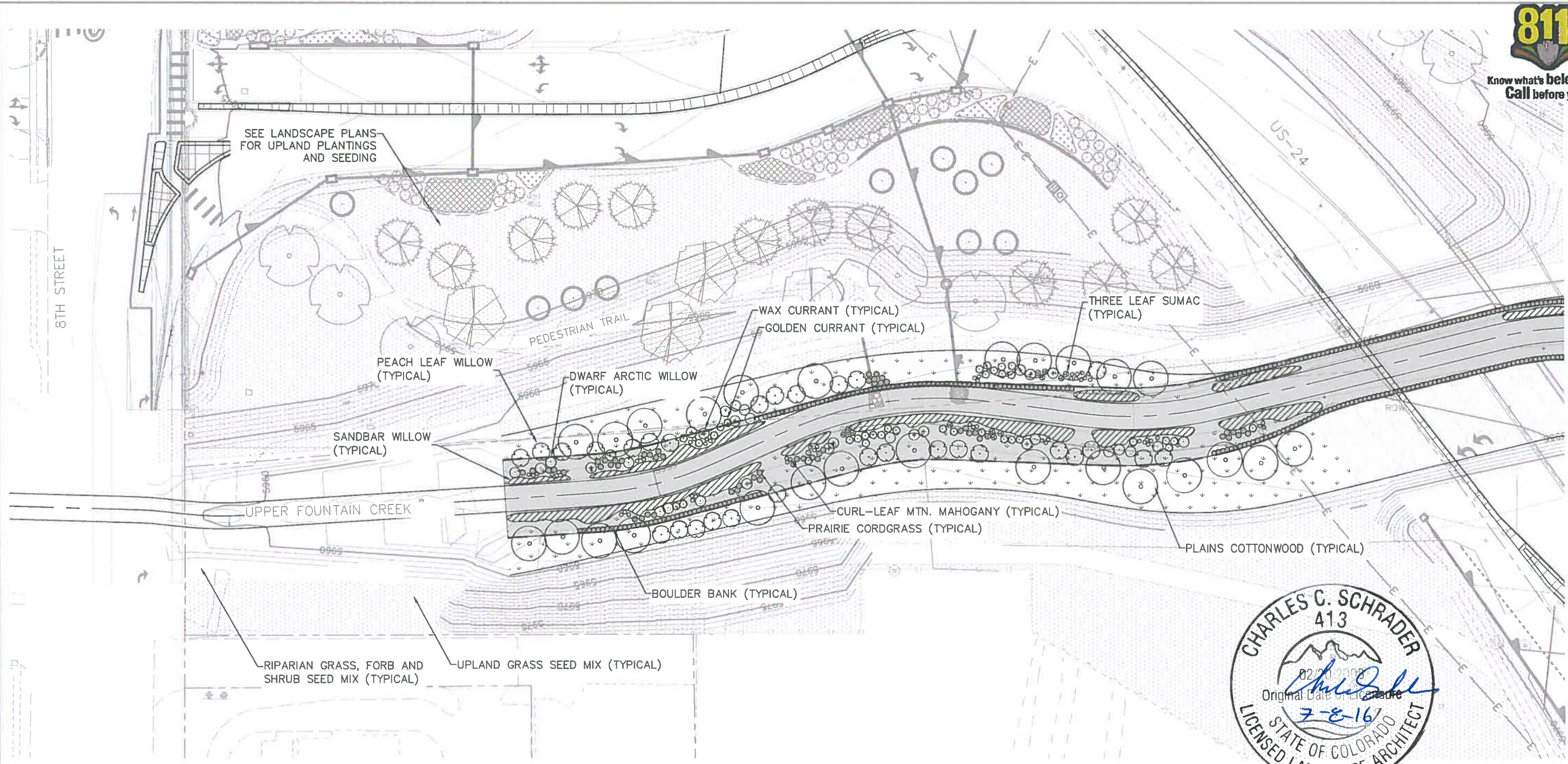
| | |
|---|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE SB 40 NOTES AND DETAILS | |
| Designer: CS | Structure Numbers |
| Detailer: CS | |
| Sheet Subset: LANDSCAPE | Subset Sheets: SB03 of 06 |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-63 |

RFC

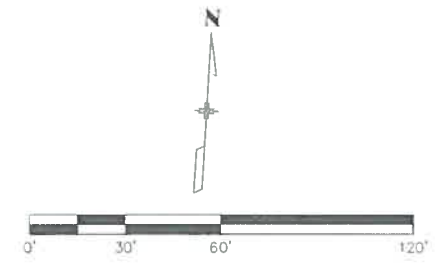
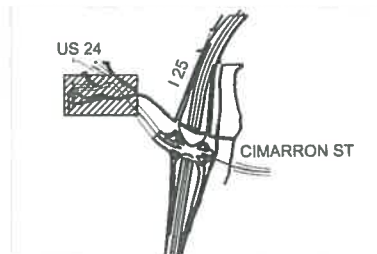


Know what's below.
Call before you dig.



| PLANT LEGEND | | | |
|--------------|------------------------|--|---------------------|
| | PLAINS COTTONWOOD | | DWARF ARCTIC WILLOW |
| | PEACH LEAF WILLOW | | GOLDEN CURRANT |
| | WAX CURRANT | | PRAIRIE CORDGRASS |
| | THREE LEAF SUMAC | | RIPARIAN SEEDING |
| | CURL-LEAF MTN MAHOGANY | | UPLAND SEEDING |
| | SANDBAR WILLOW | | 45' ACTIVE CHANNEL |

KEY MAP



Print Date: 6-30-2016
 File Name: 19039_SB 40RFC.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

| As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE SB 40 PLANTING PLAN | |
|----------------|---|-------------------------|
| No Revisions: | Designer: AB | Structure Numbers |
| Revised: | Detailer: CS | Sheet Subset: LANDSCAPE |
| Void: | Subset Sheets: SB04 of 06 | |

| Project No./Code |
|--------------------|
| IM 0252-423 |
| 19039 |
| Sheet Number 24-64 |

z:\projects\sh\1-25 cimarron st\cad\19039_sb 40rfc.dwg

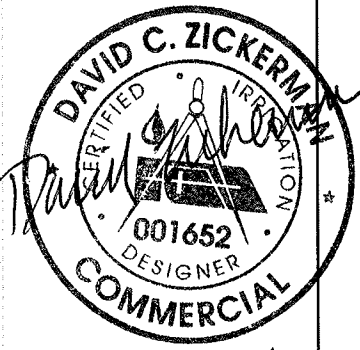
MATCHLINE SB 40 P2
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



Know what's below.
Call before you dig.

| ITEM | DESCRIPTION | UNIT | ESTIMATED QTY |
|------------|---|------|---------------|
| 619-40060 | 3/4 inch Copper Pipe | LF | 20 |
| 619-40160 | 2 inch Copper Pipe | LF | 20 |
| 619-50060 | 3/4 inch Plastic Pipe (Poly drip line) | LF | 18,865 |
| 619-50080 | 1 inch Plastic Pipe | LF | 34,770 |
| 619-50120 | 1-1/2 inch Plastic Pipe | LF | 8,480 |
| 619-50160 | 2 inch Plastic Pipe | LF | 2,985 |
| 619-50200 | 2-1/2 inch Plastic Pipe | LF | 1,040 |
| 619-50240 | 3 inch Plastic Pipe | LF | 0** |
| 619-50320 | 4 inch Plastic Pipe | LF | 140 |
| 619-50480 | 6 inch Plastic Pipe | LF | 20 |
| 619-71508 | 1 inch Air and Vacuum Valve | EA | 2 |
| 623-00164 | Drip Emitter | EA | 4,826 |
| 623-00165 | Emitter Valve Assembly | EA | 40 |
| 623-00206 | 6 inch Pop-Up Spray Sprinkler | EA | 16 |
| 623-00304 | 1/2 inch Pop-Up Rotary Sprinkler | EA | 685 |
| 623-00306 | 3/4 inch Pop-Up Rotary Sprinkler | EA | 333 |
| 623-00308 | 1 inch Pop-Up Rotary Sprinkler | EA | 118 |
| 623-000408 | 1 inch Quick-Coupler Valve | EA | 39 |
| 623-01512 | 1-1/2 inch Check Valve | EA | - |
| 623-01706 | 3/4 inch Backflow Preventer | EA | 1 |
| 623-01716 | 2 inch Backflow Preventer | EA | 2 |
| 623-02006 | 3/4 inch Drain Valve | EA | 11 |
| 623-03108 | 1 inch Automatic Control Valve | EA | 58 |
| 623-03112 | 1-1/2 inch Automatic Control Valve | EA | 47 |
| 623-03116 | 2 inch Automatic Control Valve | EA | 17 |
| 623-04000 | Control Wire 24 Volt (with surge arrestors) | LF | 10,610 |
| 623-04002 | Power Source Wire | LF | 175 |
| 623-05-12 | 1-1/2 inch Gate Valve | EA | 1 |
| 623-05016 | 2 inch Gate Valve | EA | 2 |
| 623-05024 | 3 inch Gate Valve | EA | 21 |
| 623-07006 | 3/4 inch Water Meter | EA | 1 |
| 623-07510 | Weather Station (rain sensor) | EA | 3 |
| 623-07601 | 1 inch Flow Sensor | EA | 1 |
| 623-07602 | 2 inch Flow Sensor | EA | 2 |
| 623-08196 | 96 Station Automatic Controller | EA | 3 |
| 623-08200 | Master Controller (Master Valve - 2 inch) | EA | 2 |
| 623-08201 | Master Controller (Master Valve - 1 inch) | EA | 1 |

** 3" pipe (Mainline) was included in irrigation sleeve plans



7-18-16

c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | |
|------------------------|-----------------------|----------|-------|--|----------------|--------------------------------------|---------------------------|--------------------|
| Print Date: | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: | Date: | Comments | Init. | | No Revisions: | IRRIGATION QUANTITY TABULATION | | IM 0252-423 |
| Horiz. Scale: As Noted | Vert. Scale: As Noted | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | Revised: | Designer: | Structure Numbers | 19039 |
| | | | | | Void: | Detailer: | Subset Sheets: IR-2 of 37 | Sheet Number 24-68 |
| | | | | | | | | |

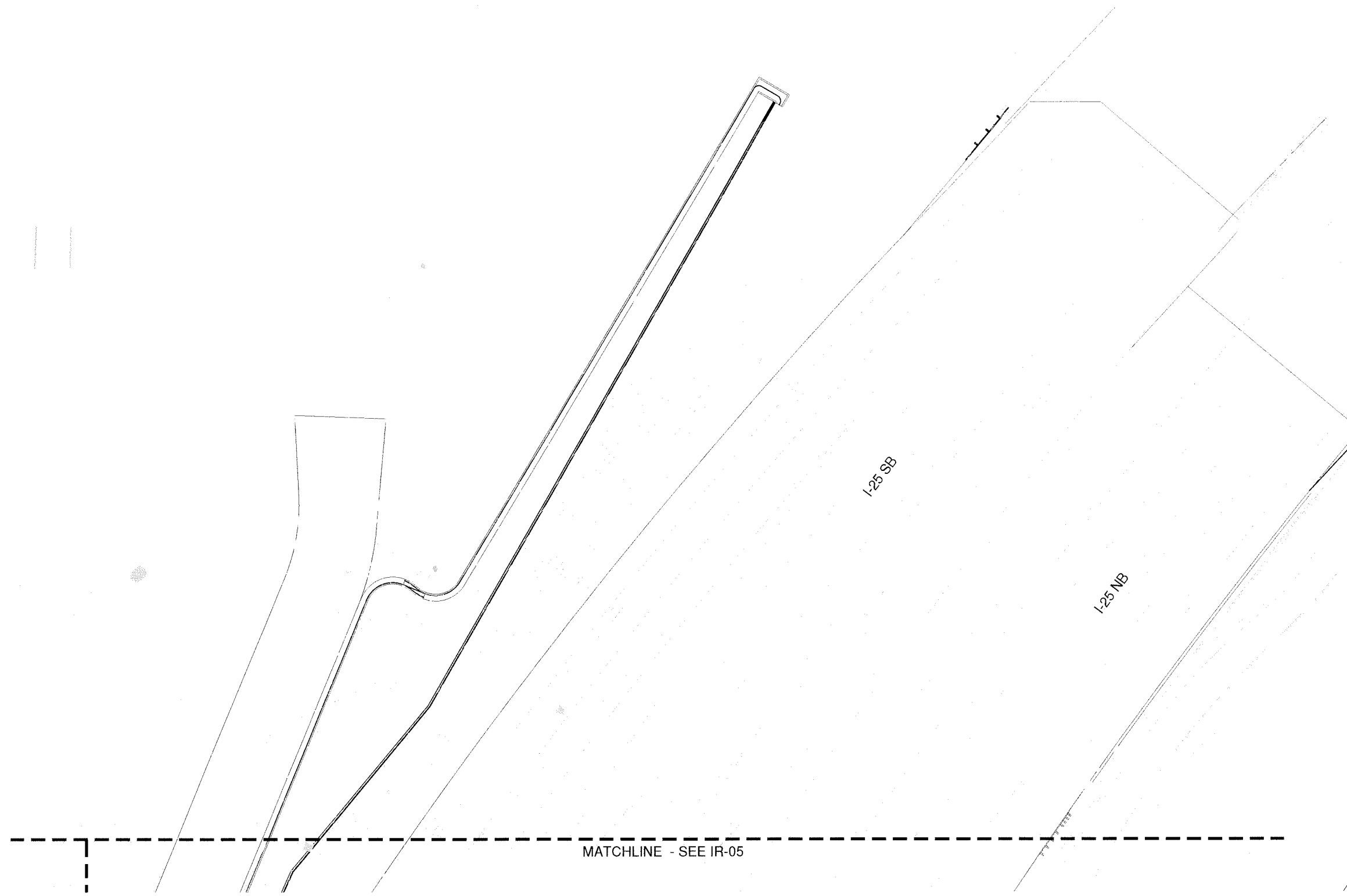
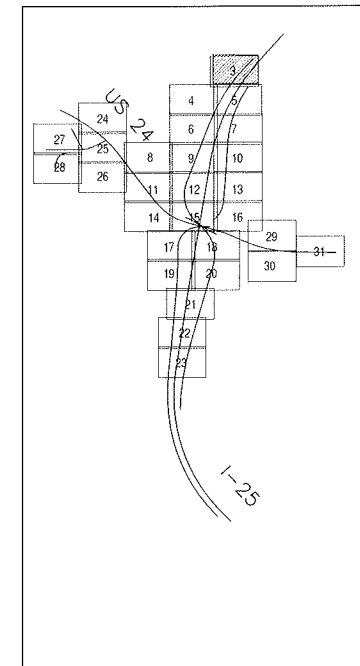
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

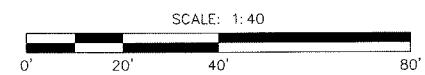


Know what's below.
Call before you dig.

KEY MAP



7-18-16



c:\dwg\I-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | |
|---|-----------------|----------|-------|--|----------------|--------------------------------------|---------------------------|--------------------|
| Print Date: 7/6/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg | Date: | Comments | Init. | | | No Revisions: | IRRIGATION PLAN | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 | Revised: | Designer: | Structure Numbers | 19039 |
| | | | | | Void: | Sheet Subset: | Subset Sheets: IR-3 of 37 | Sheet Number 24-69 |

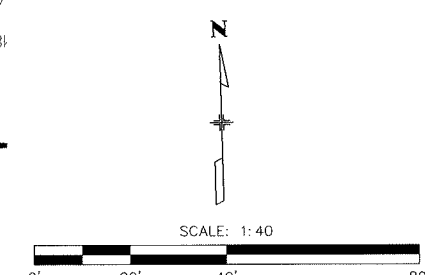
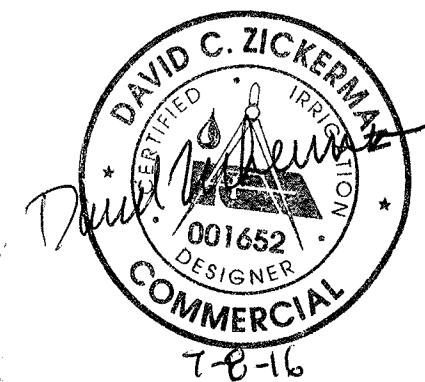
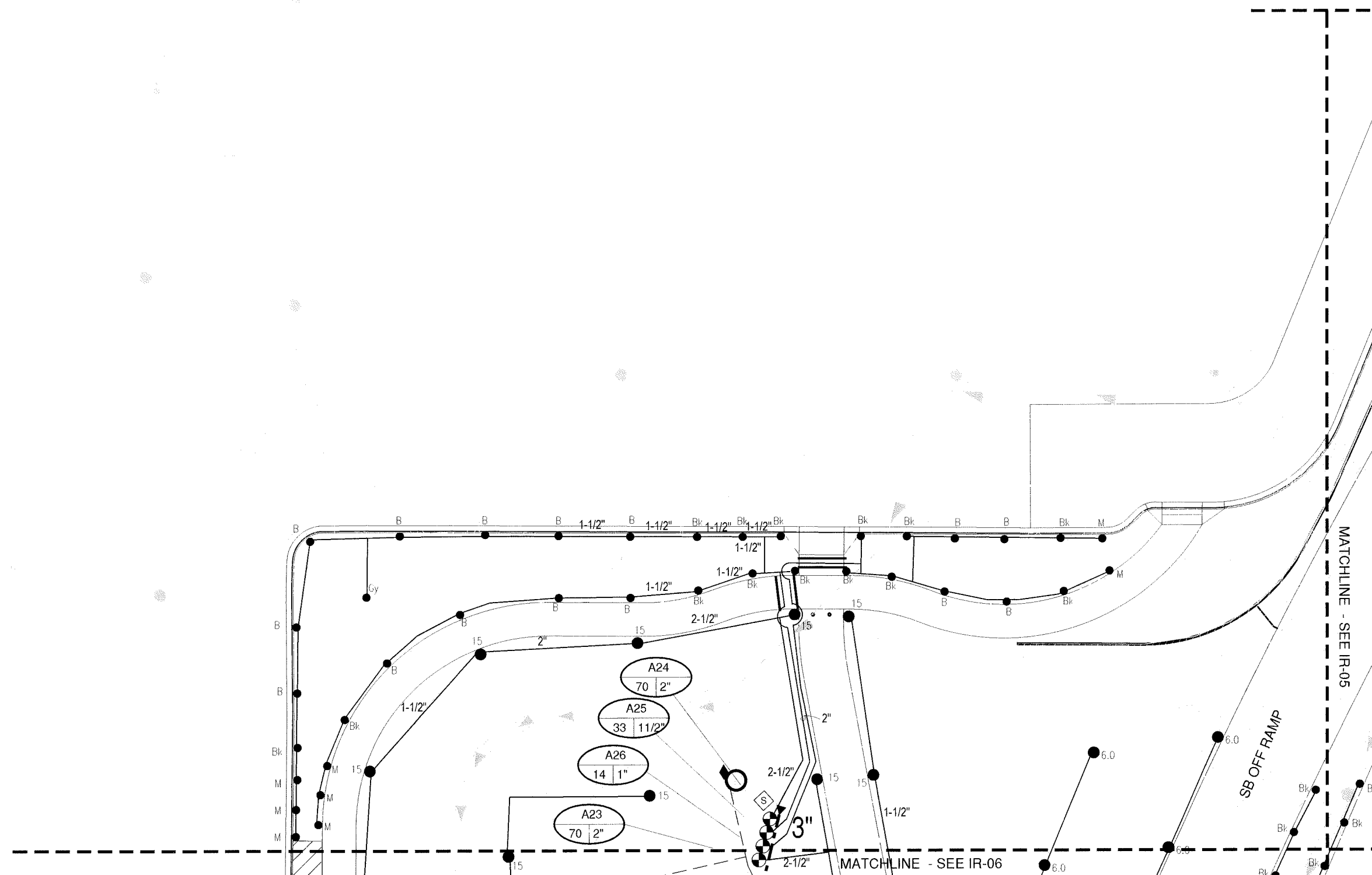
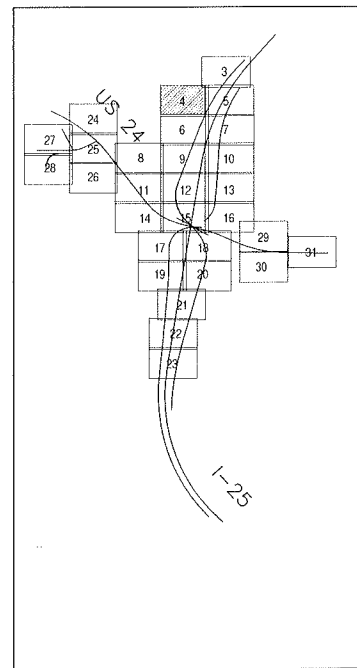
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | |
|---|-----------------|----------|-------|---|--|--------------------------------------|--|--|
| Print Date: 7/6/2016 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg Horiz. Scale: As Noted Vert. Scale: As Noted | Sheet Revisions | | | Colorado Department of Transportation 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | As Constructed No Revisions: Revised: Void: | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code IM 0252-423 19039 Sheet Number 24-70 |
| | Date: | Comments | Init. | | | IRRIGATION PLAN | | |
| | | | | | Designer: | Structure Numbers | | |
| | | | | | Detailer: | Subset Sheets: IR-4 of 37 | | |

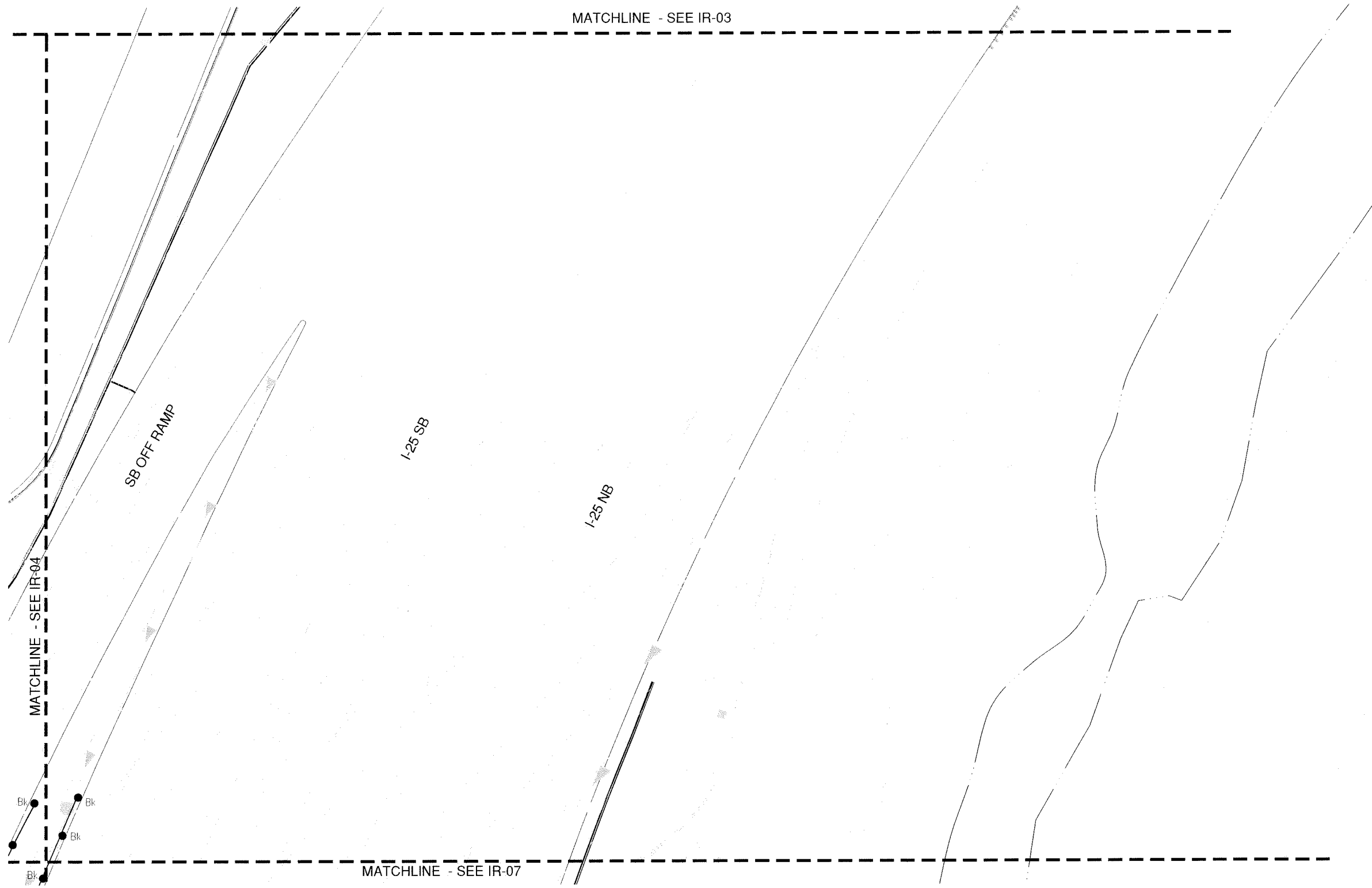
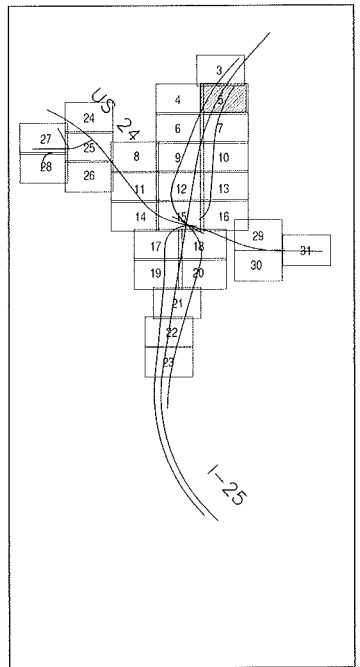
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

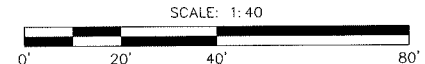


Know what's below.
Call before you dig.

KEY MAP



7-8-16



c:\v-dwg\i-25 & cimarron\irrigation 1-26-16\irrigation irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIGOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-5 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-71

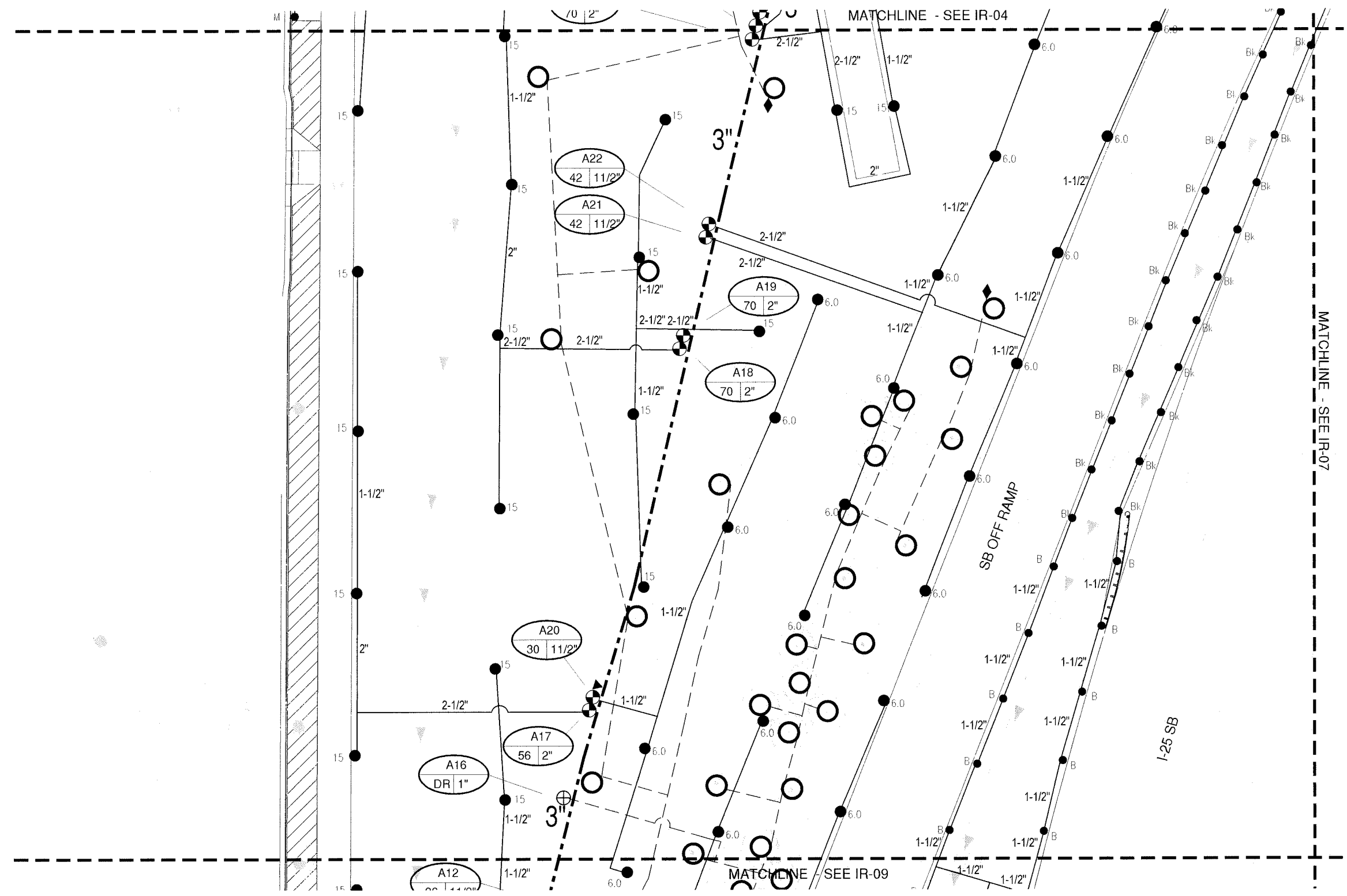
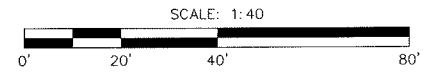
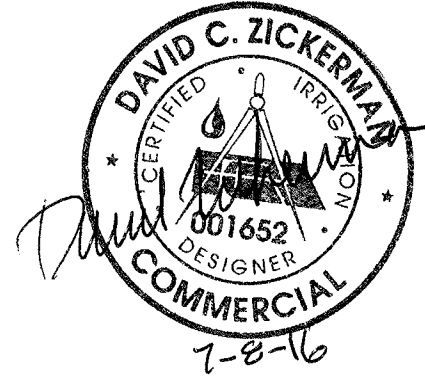
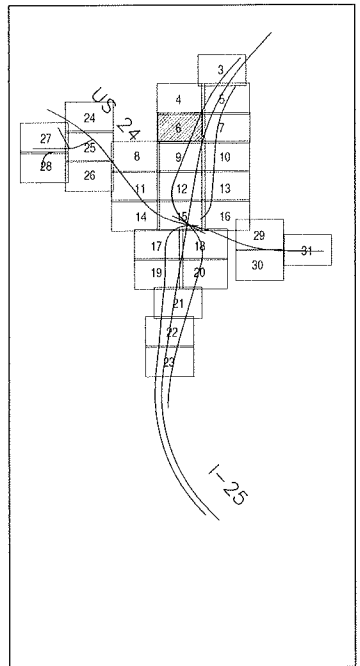
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



c:\v-dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOLIVARAS SIMMONS HOLDENESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-6 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-72

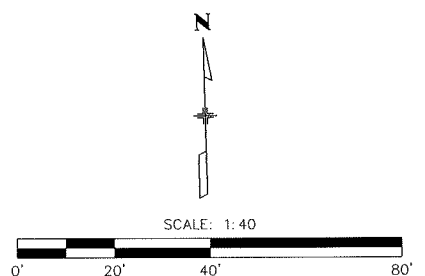
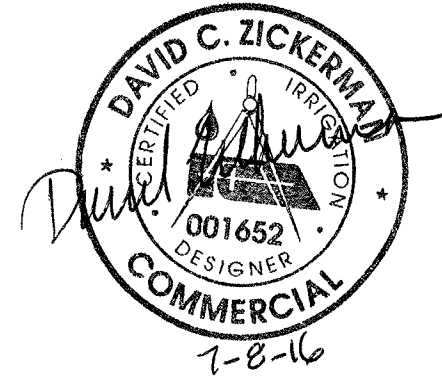
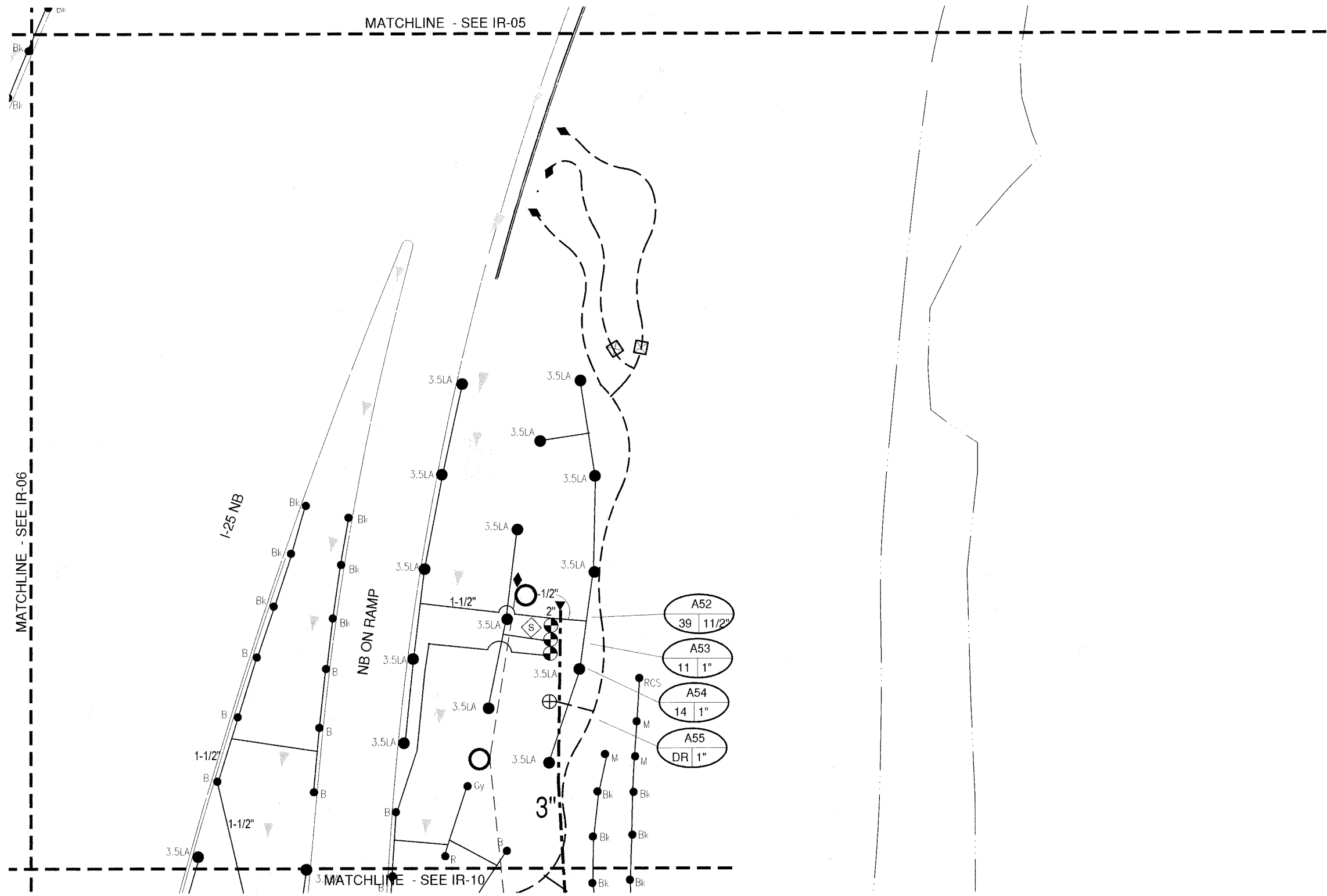
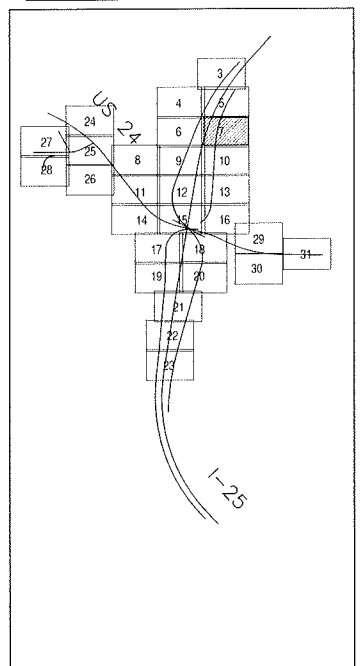
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSOUVARAS SIMMONS HOLDENNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-7 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-73

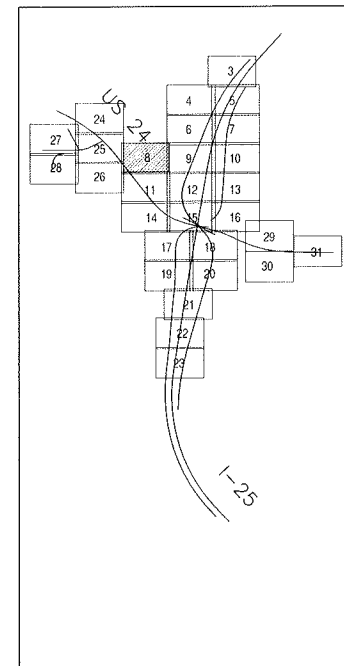
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

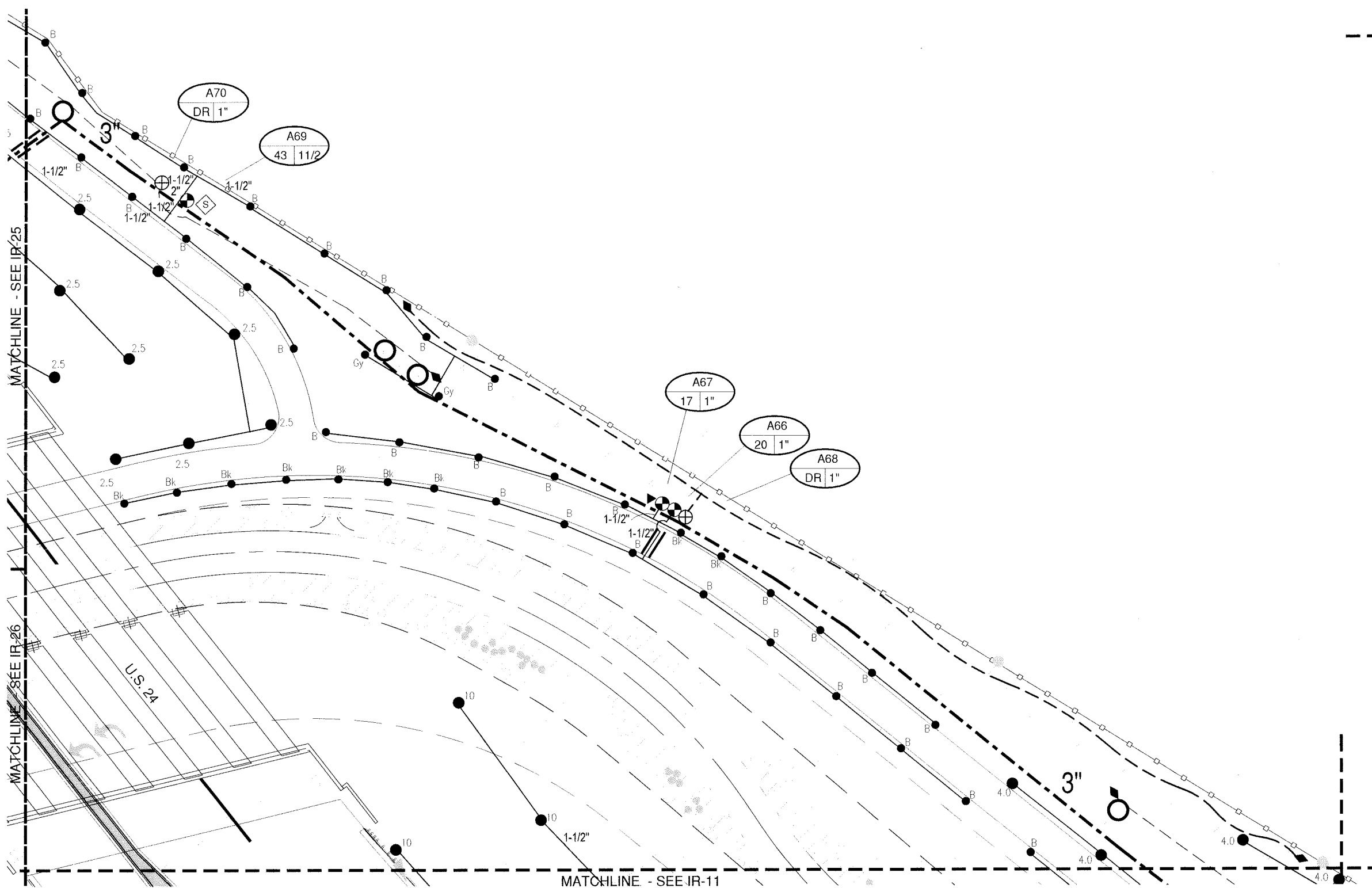
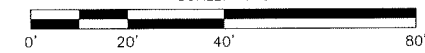


Know what's below.
Call before you dig.

KEY MAP



SCALE: 1:40



c:\v-dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--------------------------------------|---------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-8 of 37 |

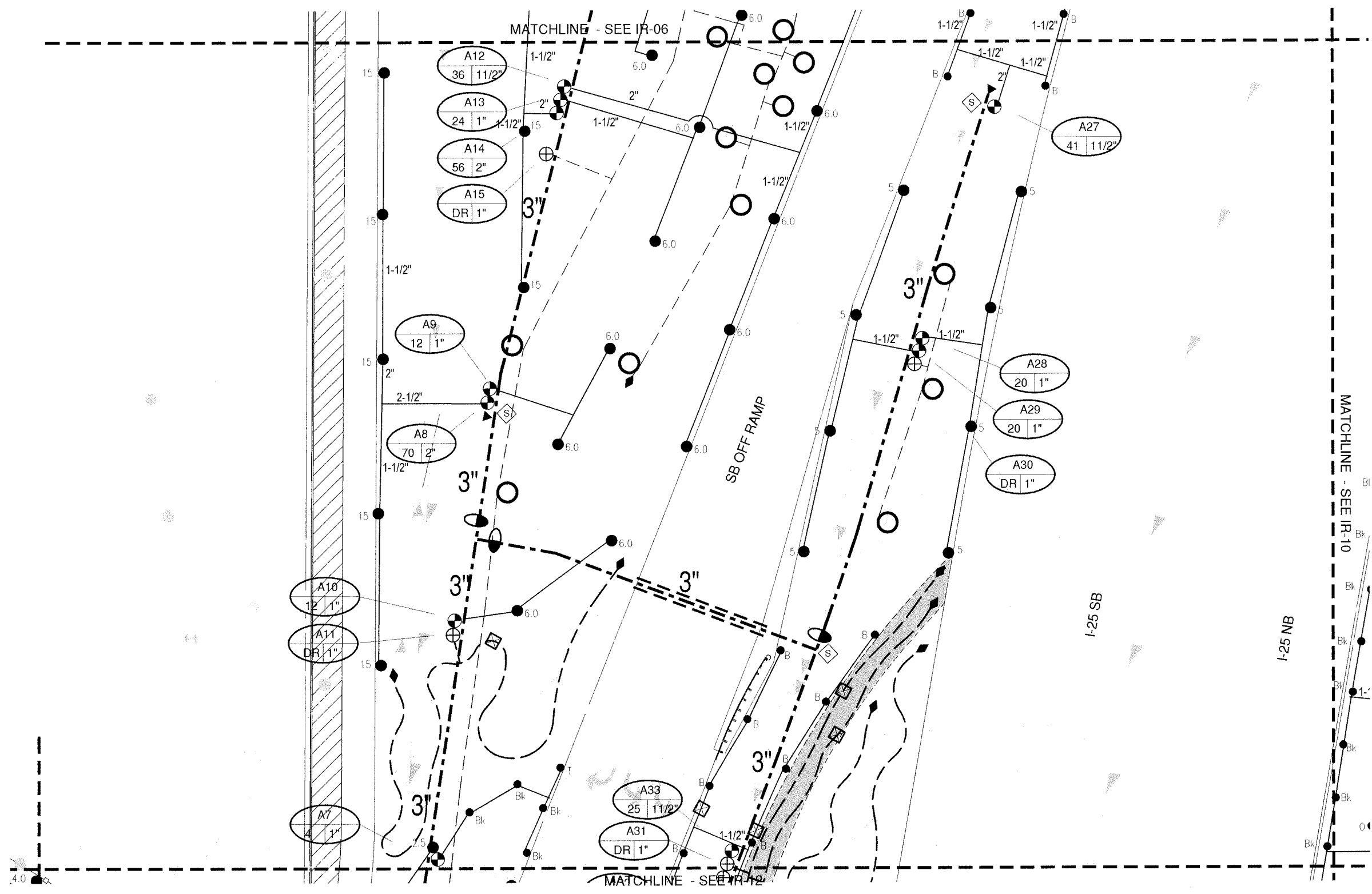
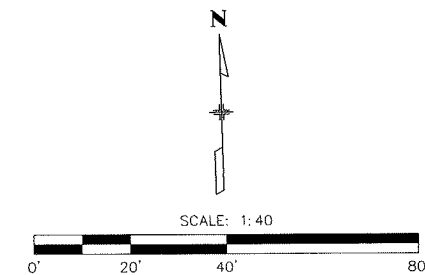
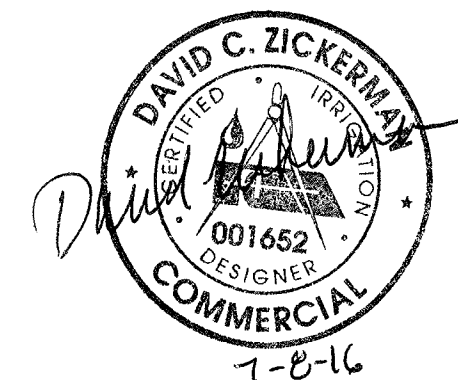
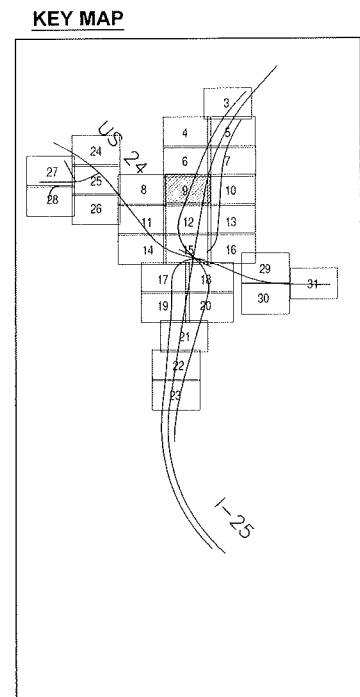
| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-74 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.



c:\v-dwg\i-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSOUVARAS SIMMONS HOLDENESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-9 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-75

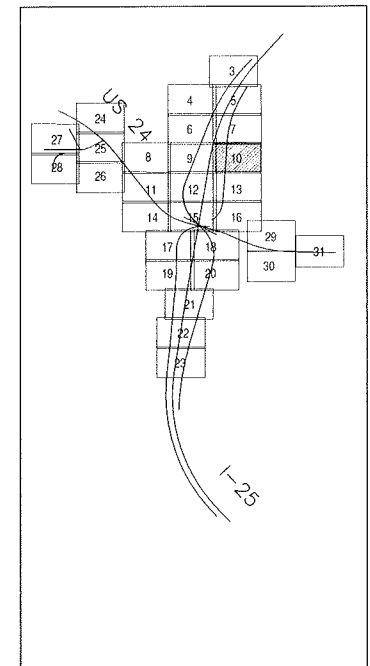
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

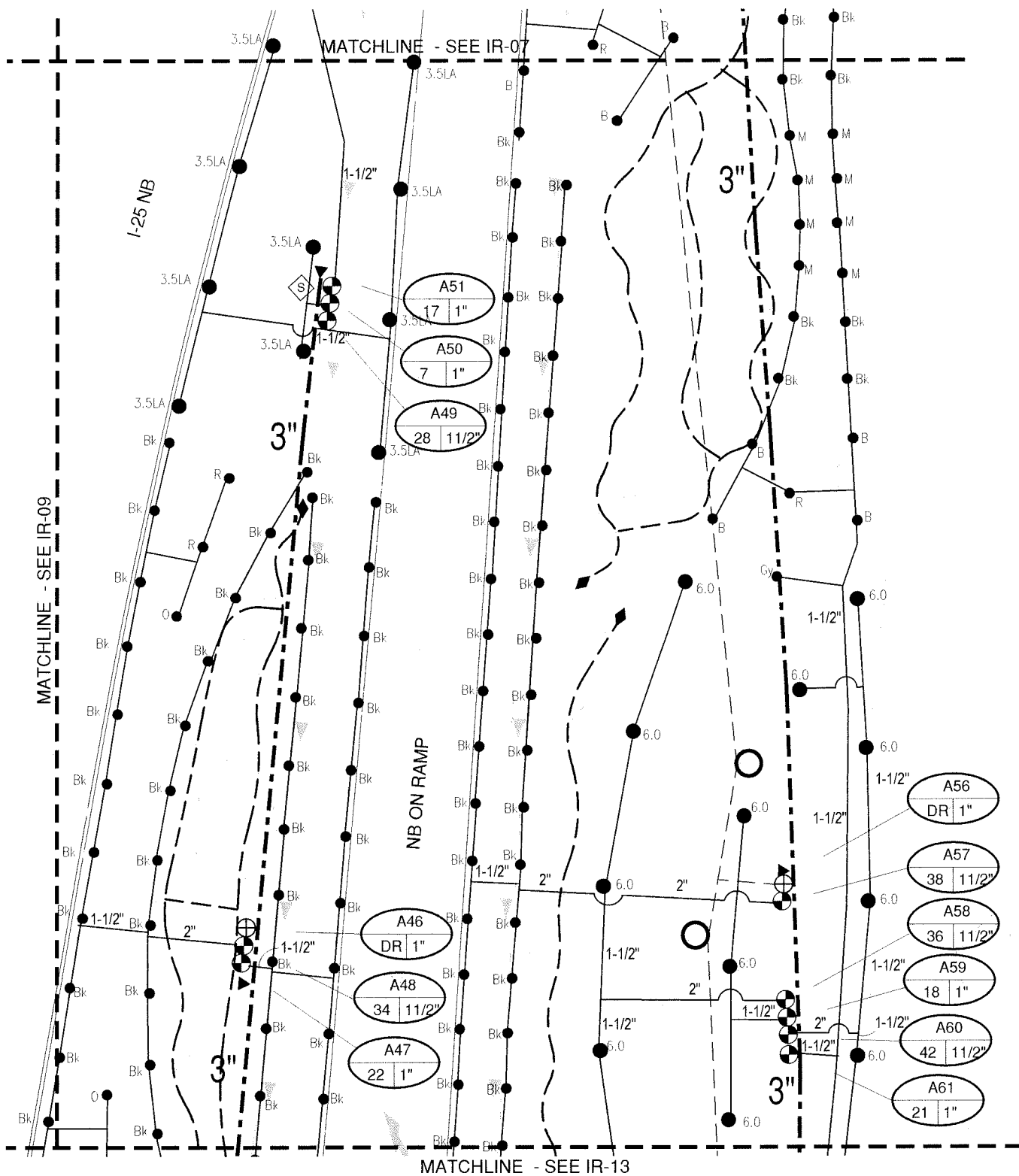
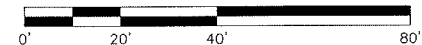


Know what's below.
Call before you dig.

KEY MAP



SCALE: 1:40



c:\dwg\1-25 & cimarron\irrigation\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSIOUYARAS SIMMONS HOLDENNESS
CONSULTING ENGINEERS

KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298

Region 2 **DMW**

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

| | |
|--------------------------------------|----------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-10 of 37 |

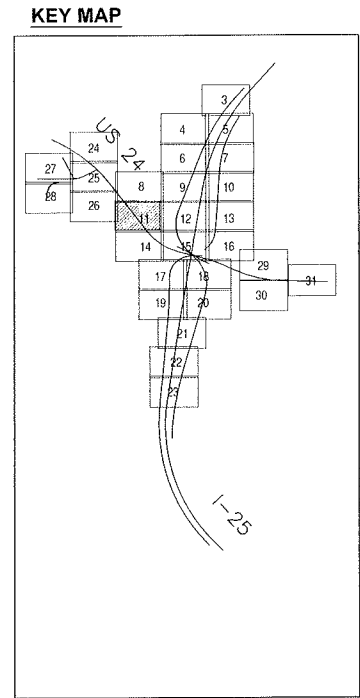
| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-76 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

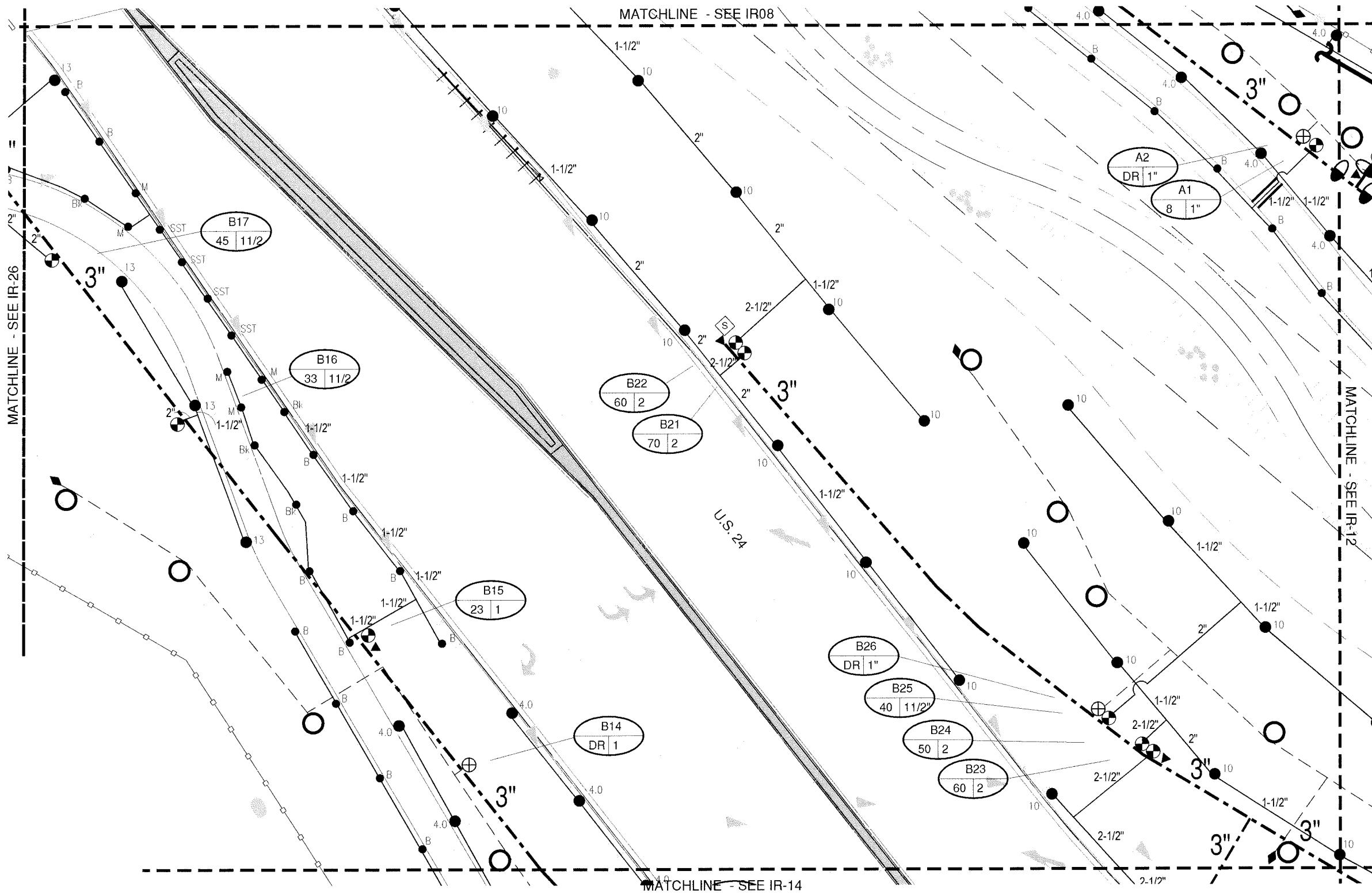
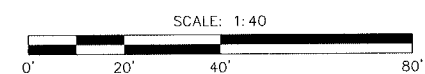
RFC



Know what's below.
Call before you dig.



7-8-16



MATCHLINE - SEE IR-26

MATCHLINE - SEE IR08

MATCHLINE - SEE IR-12

MATCHLINE - SEE IR-14

c:\dwg\1-25 & cimarron\irrigation\1-26-16\irrigation\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--------------------------------------|----------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-11 of 37 |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-77 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

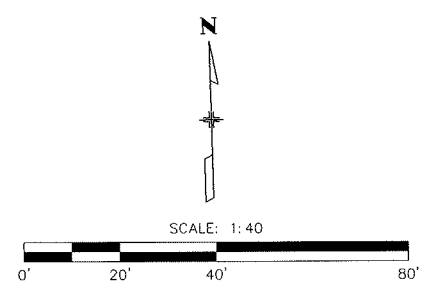
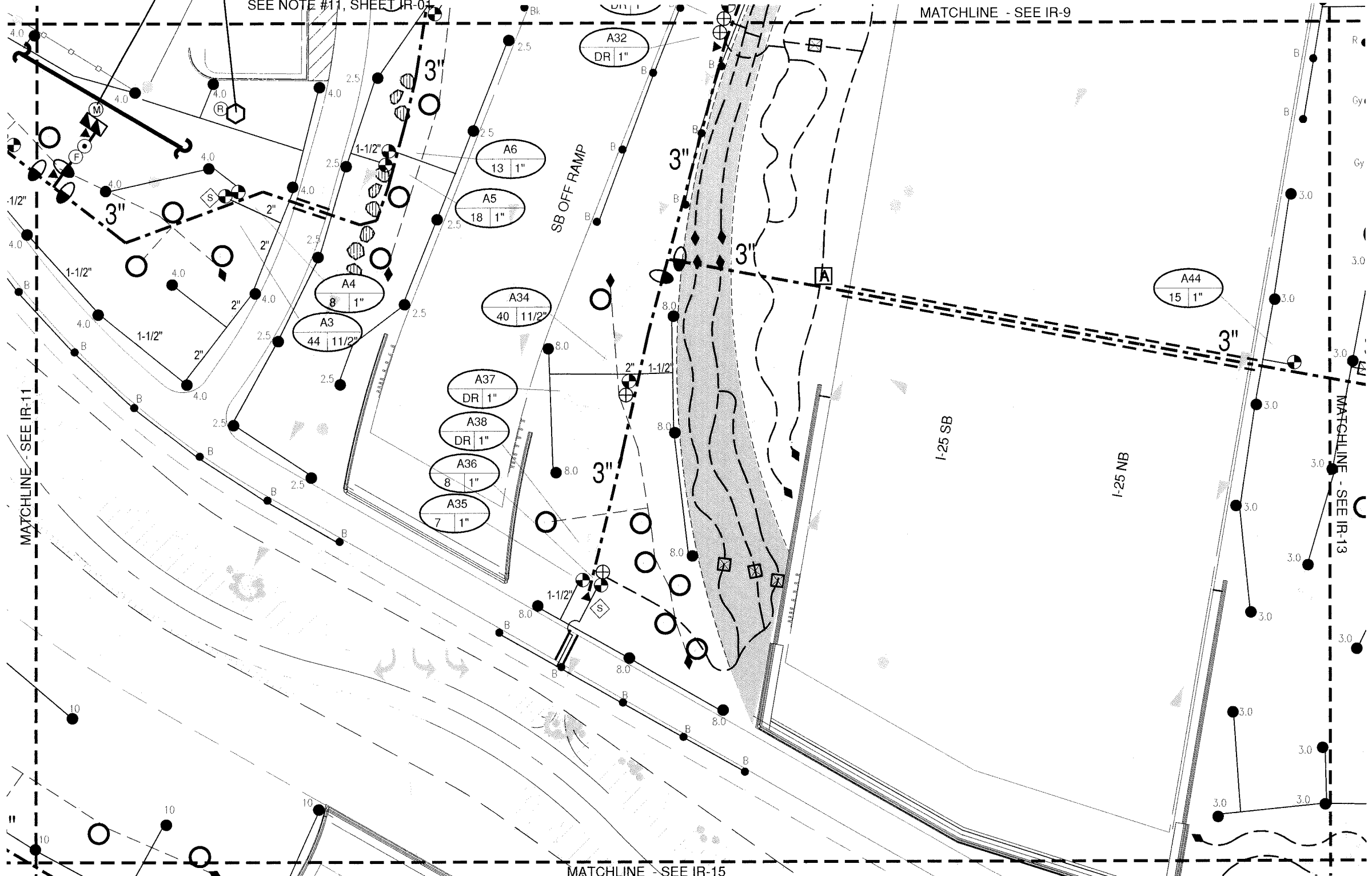
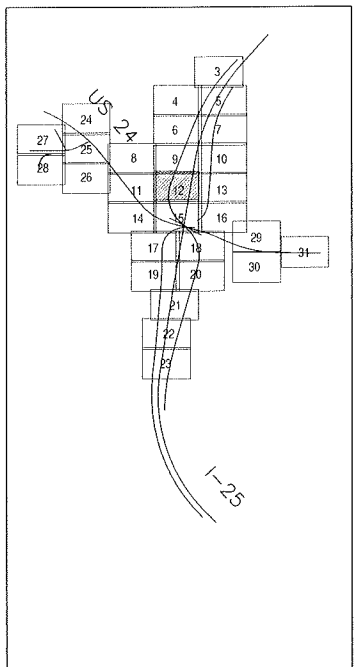
POINT OF CONNECTION #1 - 2"

SEE NOTE #12, SHEET IR-01
OVERHEAD ELECTRIC POLE - POWER SOURCE FOR CONTROLLER
CONTROLLER LOCATION "A"

SEE NOTE #11, SHEET IR-01

MATCHLINE - SEE IR-9

KEY MAP



c:\v-dwg\1-25 & cimarron\irrigation 1-25-16\irrigation irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDENESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
Region 2 DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers:
Subset Sheets: IR-12 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-78

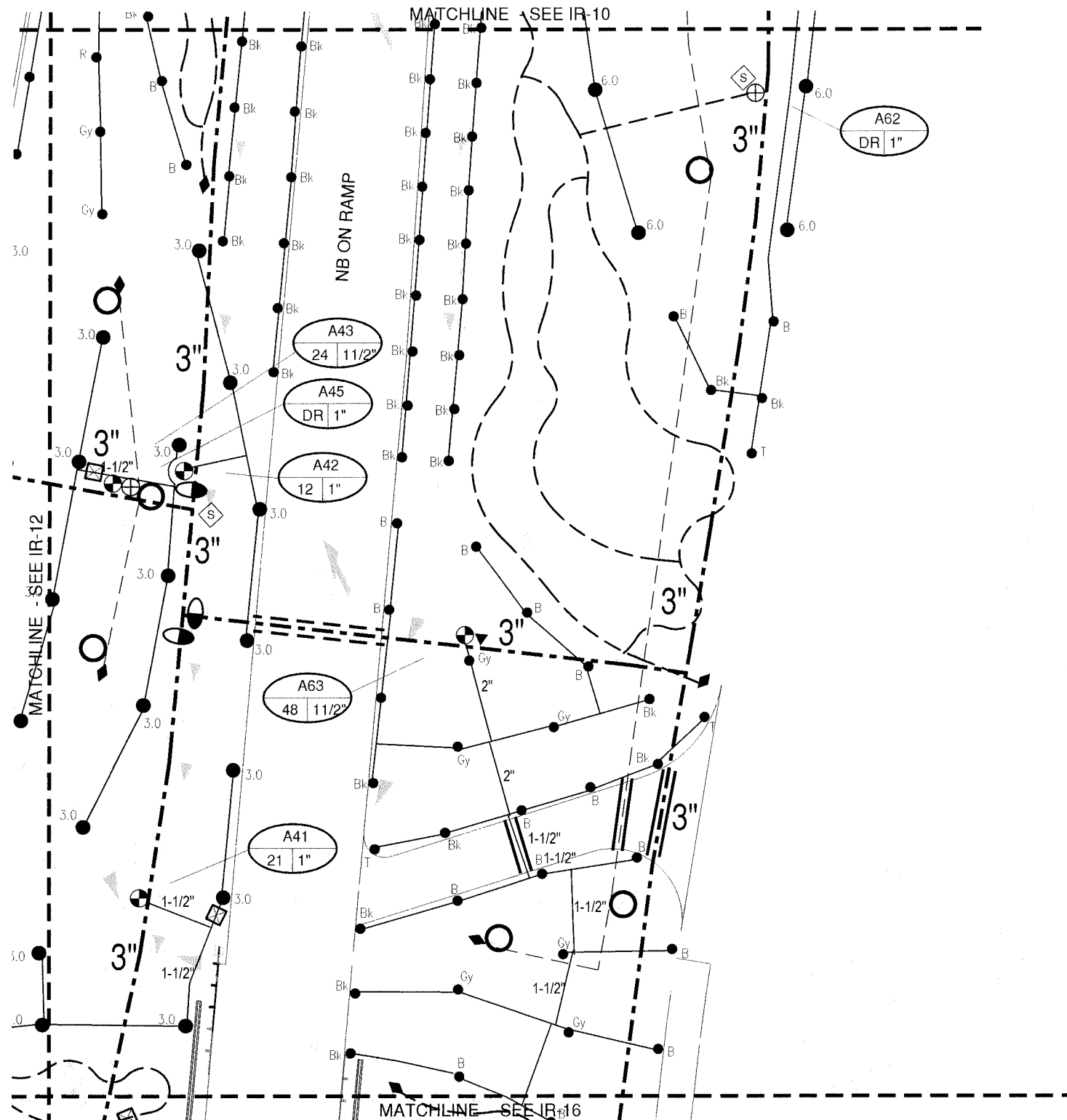
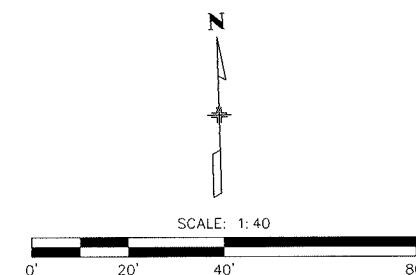
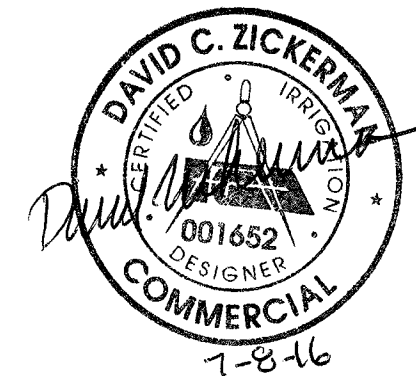
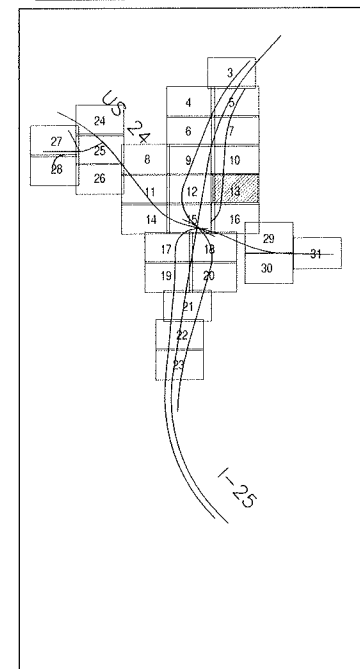
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDENNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-13 of 37

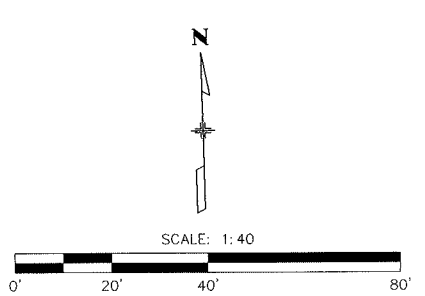
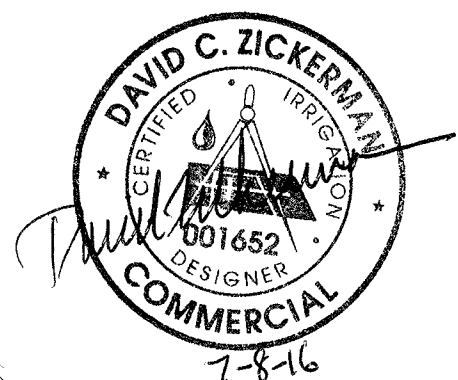
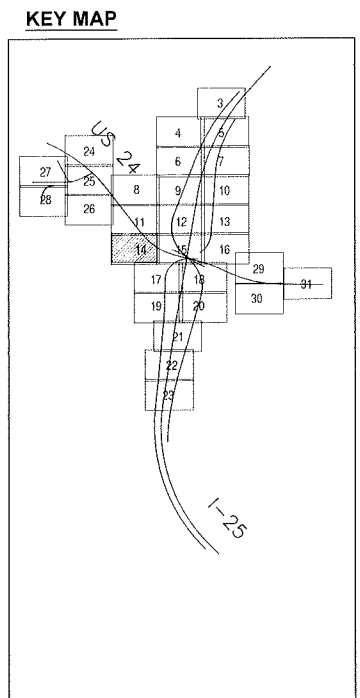
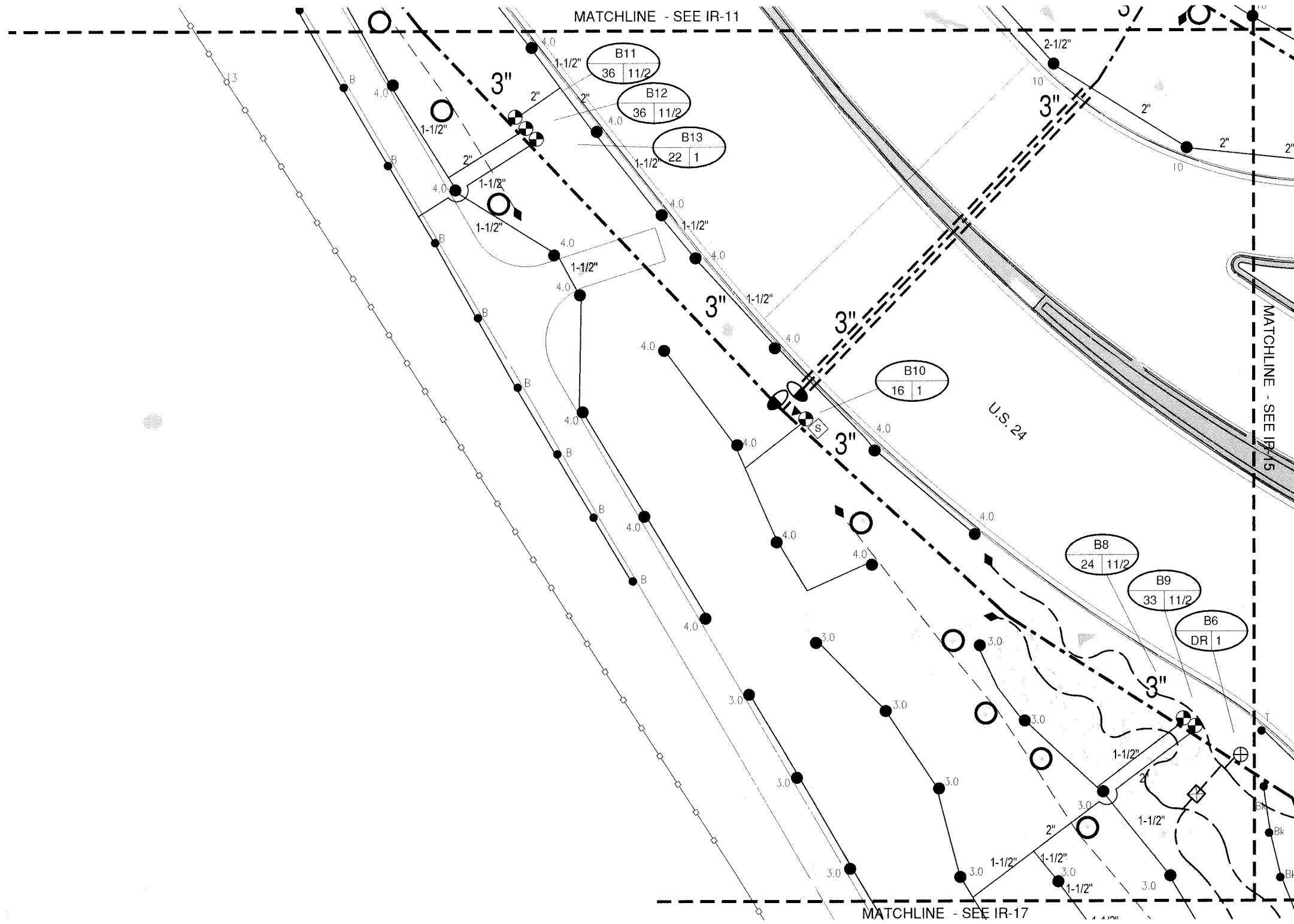
Project No./Code
IM 0252-423
19039
Sheet Number 24-79

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.



c:\v-dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDENNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers:
Subset Sheets: IR-14 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-80

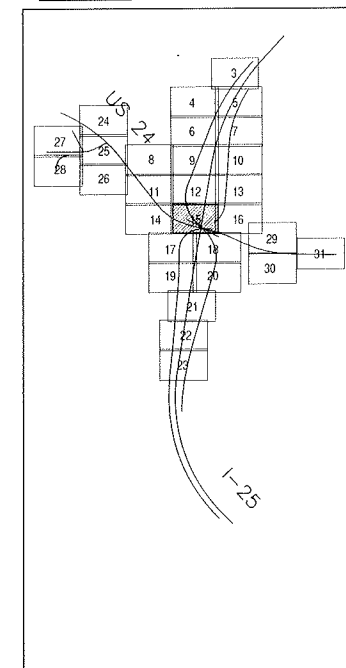
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

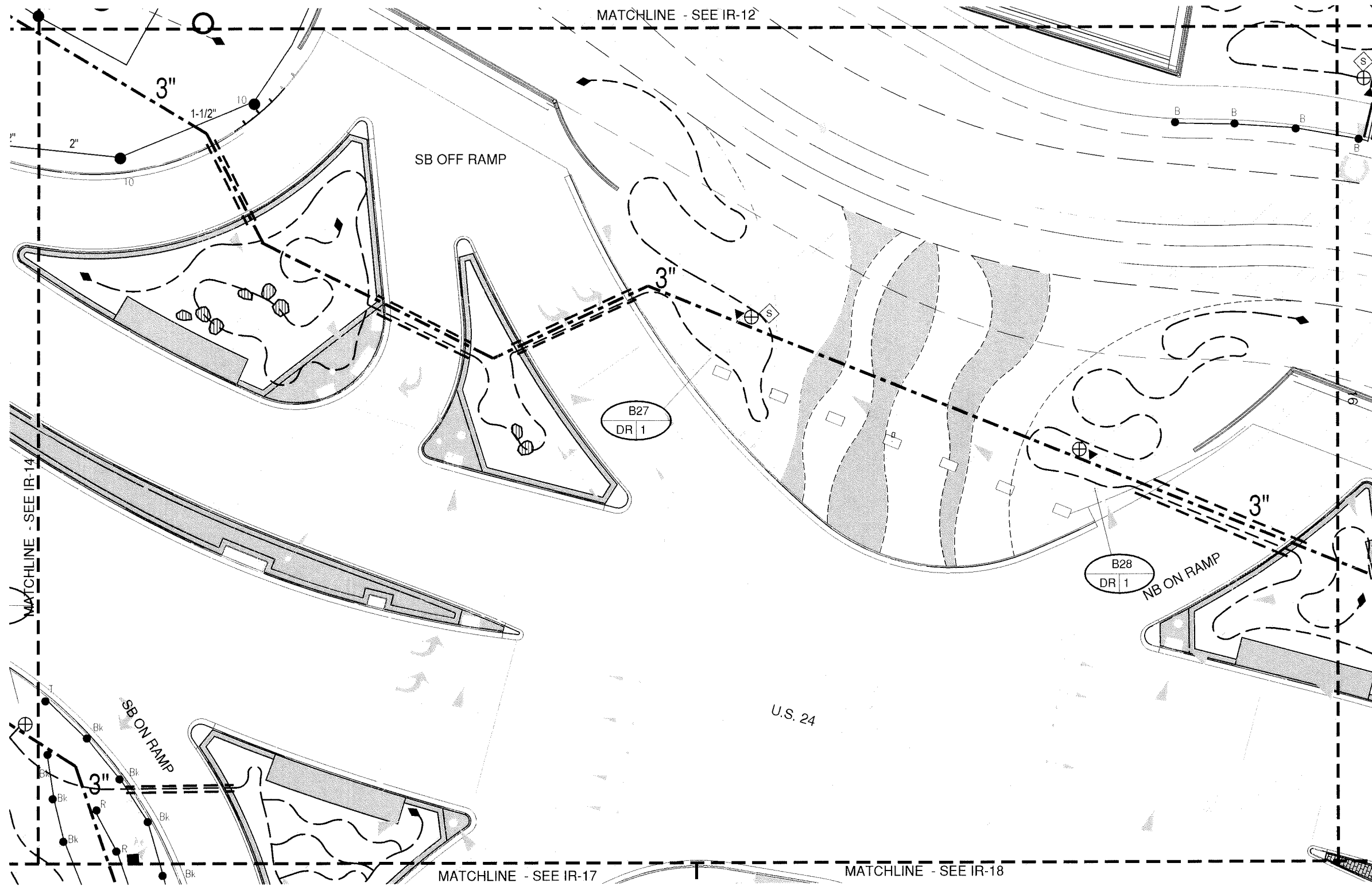
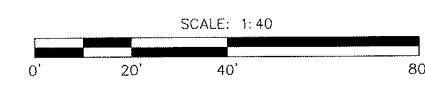


Know what's below.
Call before you dig.

KEY MAP



7-8-16



c:\v-dwg\I-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-15 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-81

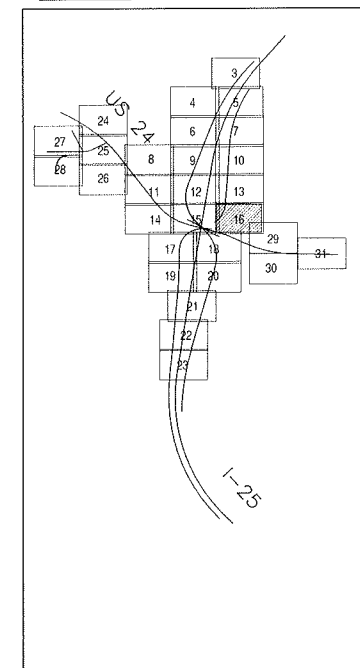
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

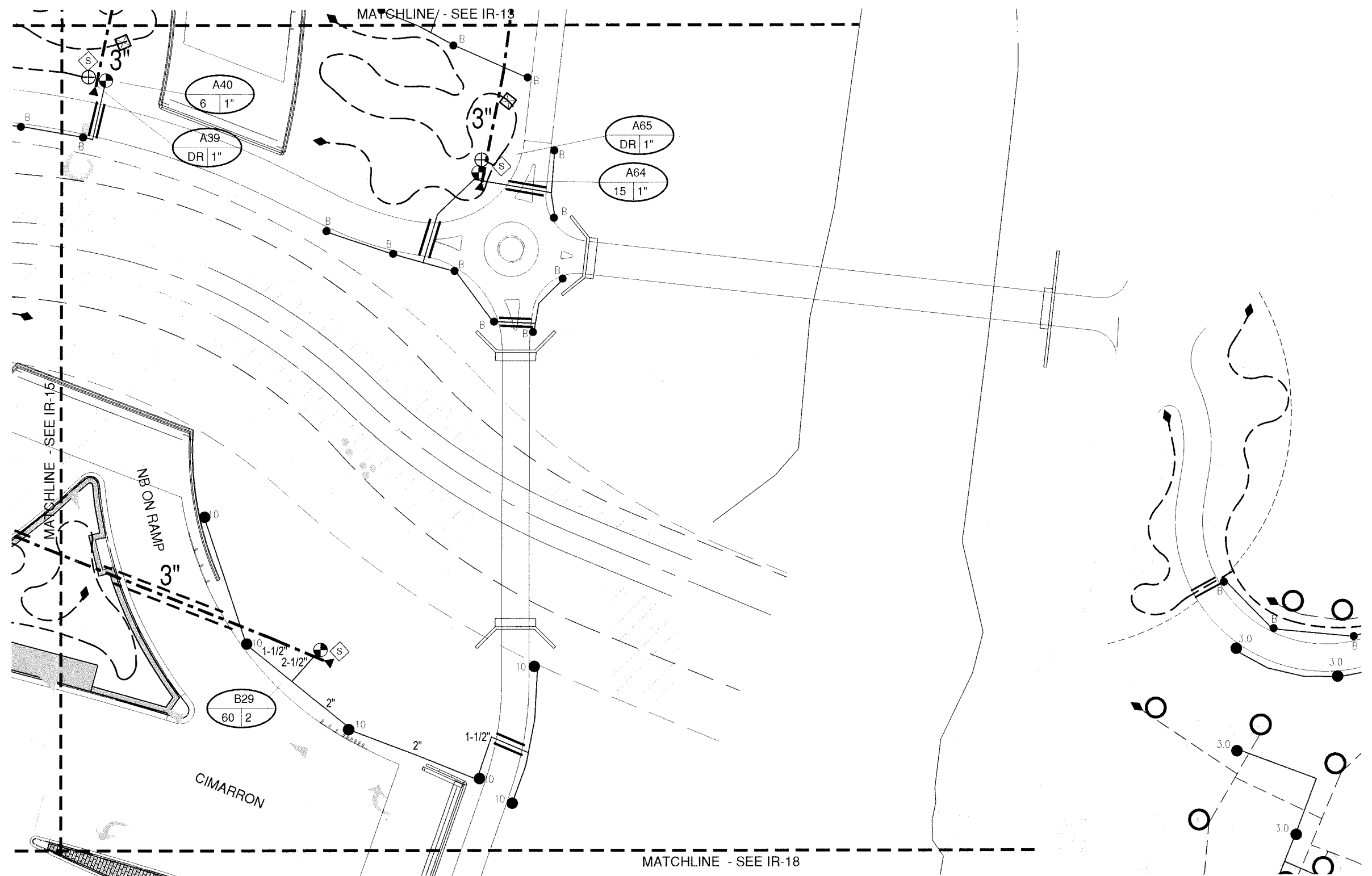
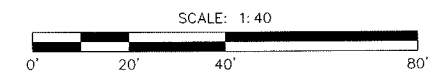


Know what's below.
Call before you dig.

KEY MAP



1-8-16



c:\v-dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | | |
|---|-----------------|----------|-------|--|----------------|--------------------------------------|-------------------|----------------------------|--------------------|
| Print Date: 7/6/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code | |
| File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg | Date: | Comments | Init. | | | No Revisions: | IRRIGATION PLAN | | IM 0252-423 |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | Revised: | Designer: | Structure Numbers | 19039 | |
| | | | | | Void: | Detailer: | Sheet Subset: | Subset Sheets: IR-16 of 37 | Sheet Number 24-82 |
| | | | | | | | | | |

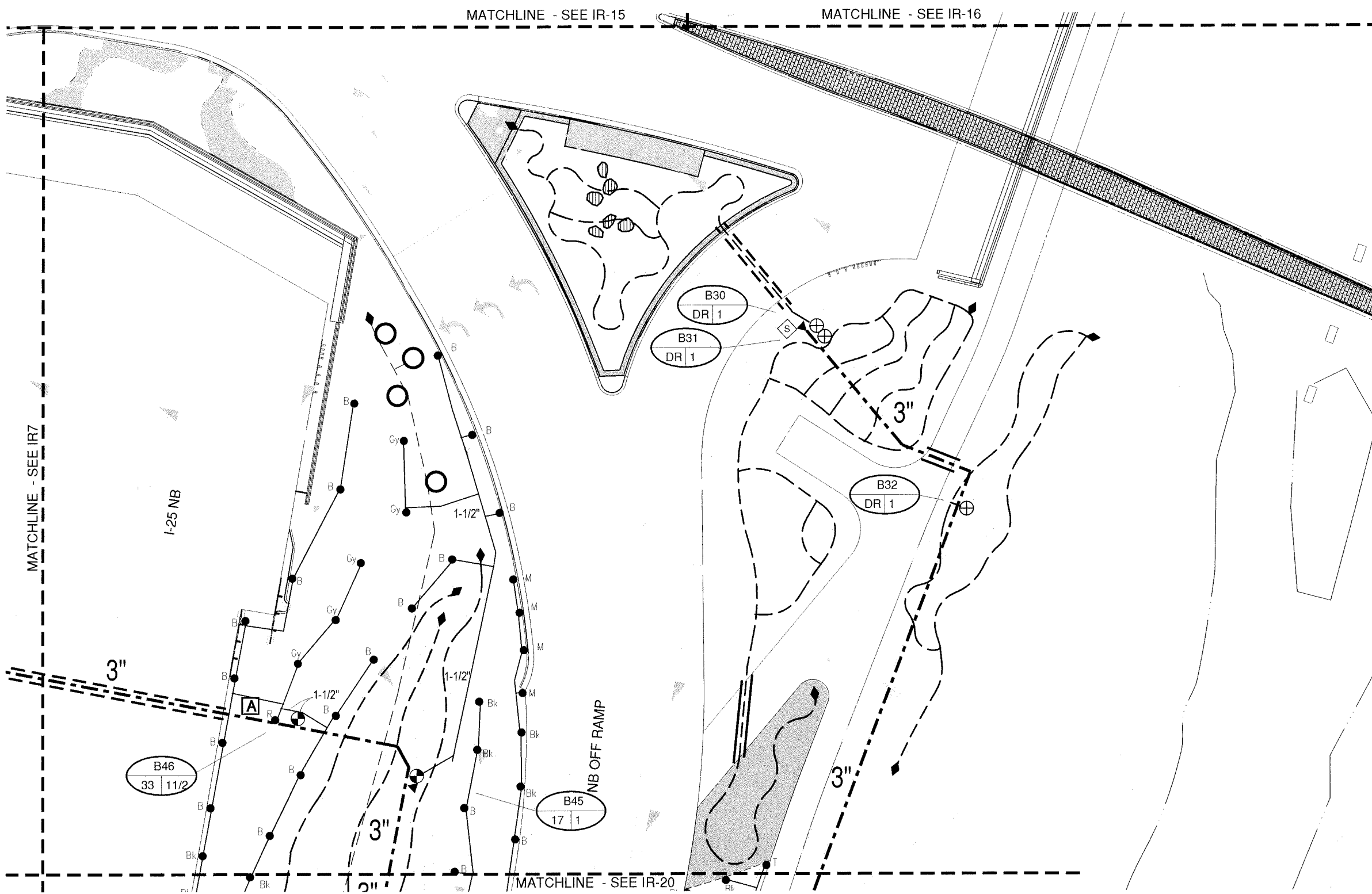
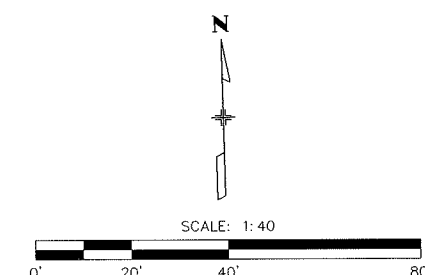
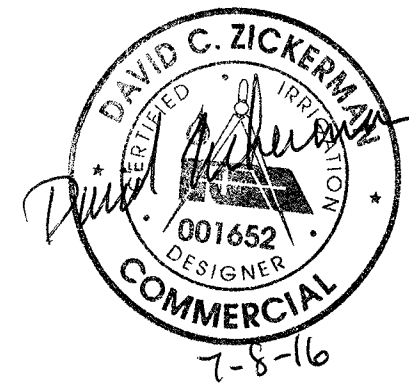
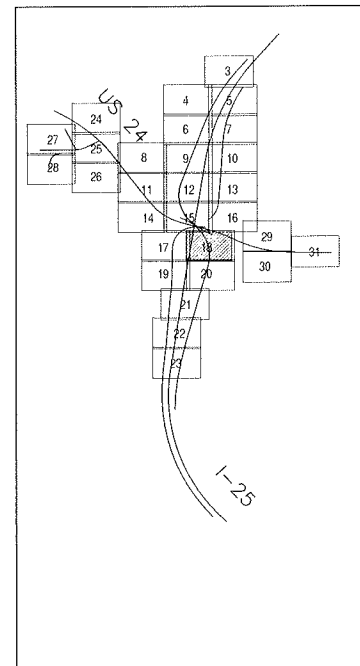
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



G:\v-dwg\I-25 & cimarron\irrigation 1-26-16\irrigation irrigation plans 7-5-16.dwg

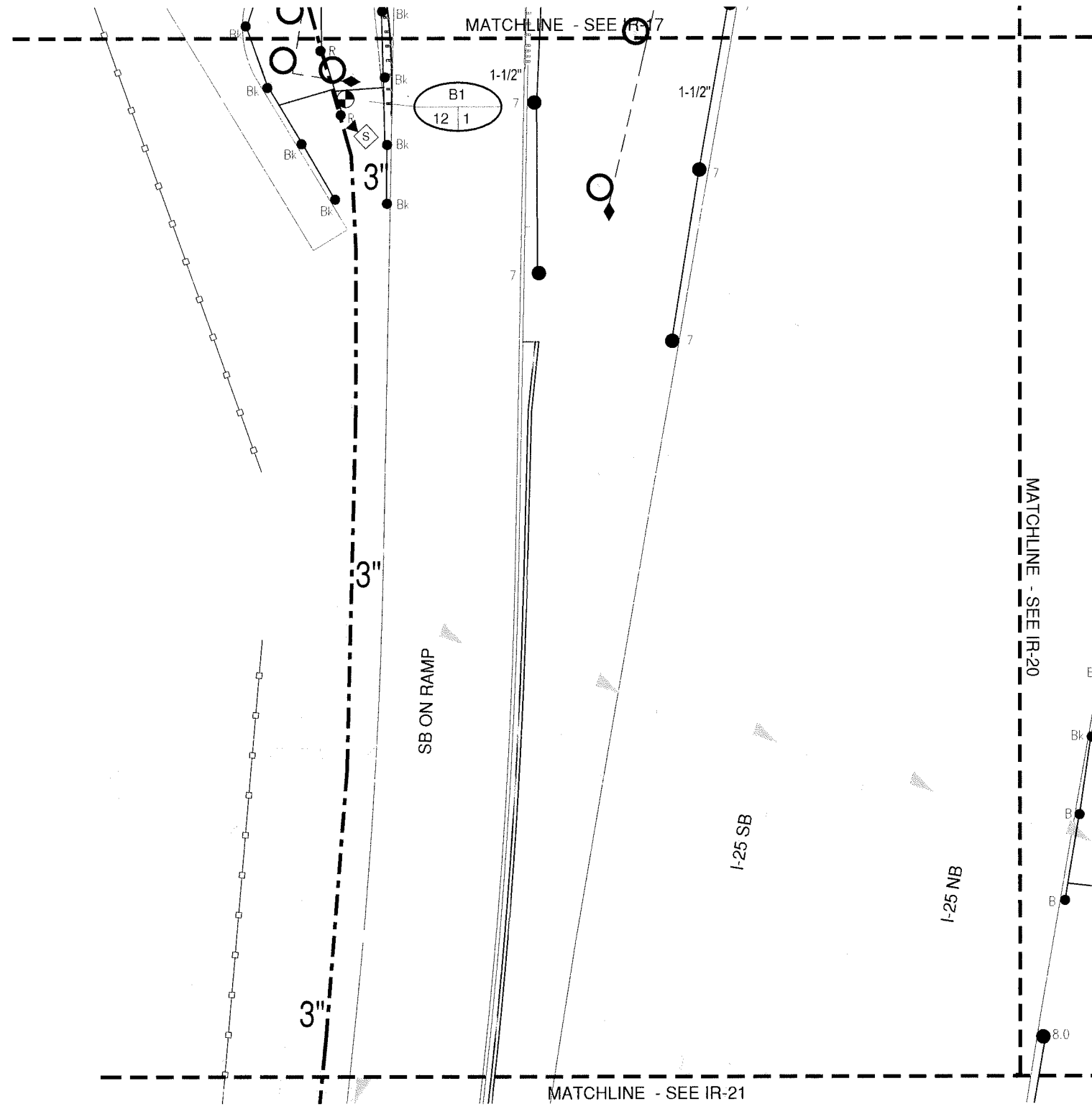
| | | | | | | | | |
|---|-----------------|----------|-------|---|----------------|--------------------------------------|--------------------|------------------|
| Print Date: 7/6/2016 | Sheet Revisions | | | Colorado Department of Transportation 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg | Date: | Comments | Init. | | No Revisions: | IRRIGATION PLAN | | IM 0252-423 |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | Revised: | Designer: | Structure Numbers | 19039 | |
| | | | | Void: | Detailer: | Subset Sheets: IR-18 of 37 | Sheet Number 24-84 | |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

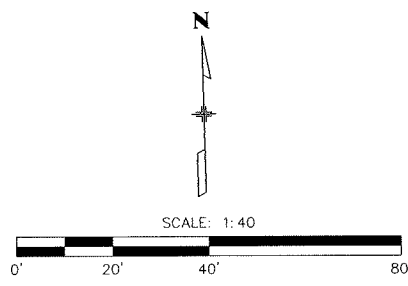
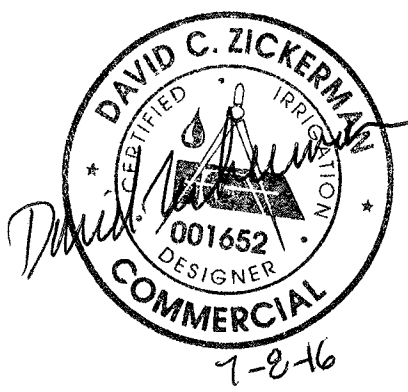
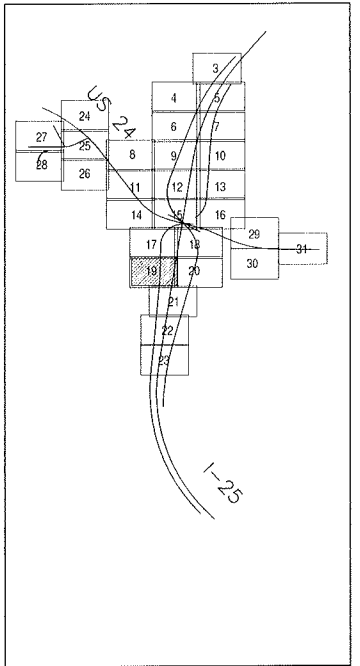
RFC



Know what's below.
Call before you dig.



KEY MAP



c:\v-dwg\i-25 & cimarron\irrigation 1-26-16\irrigation irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOLIVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-19 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-85

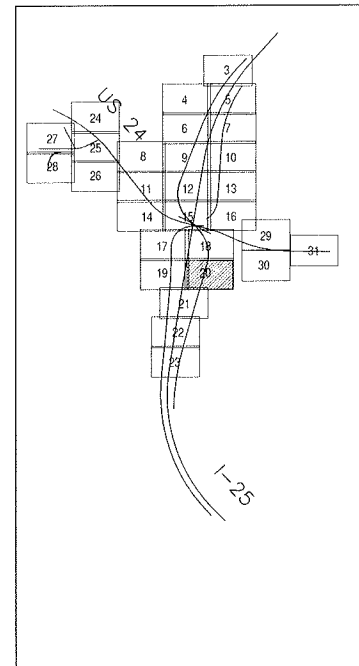
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

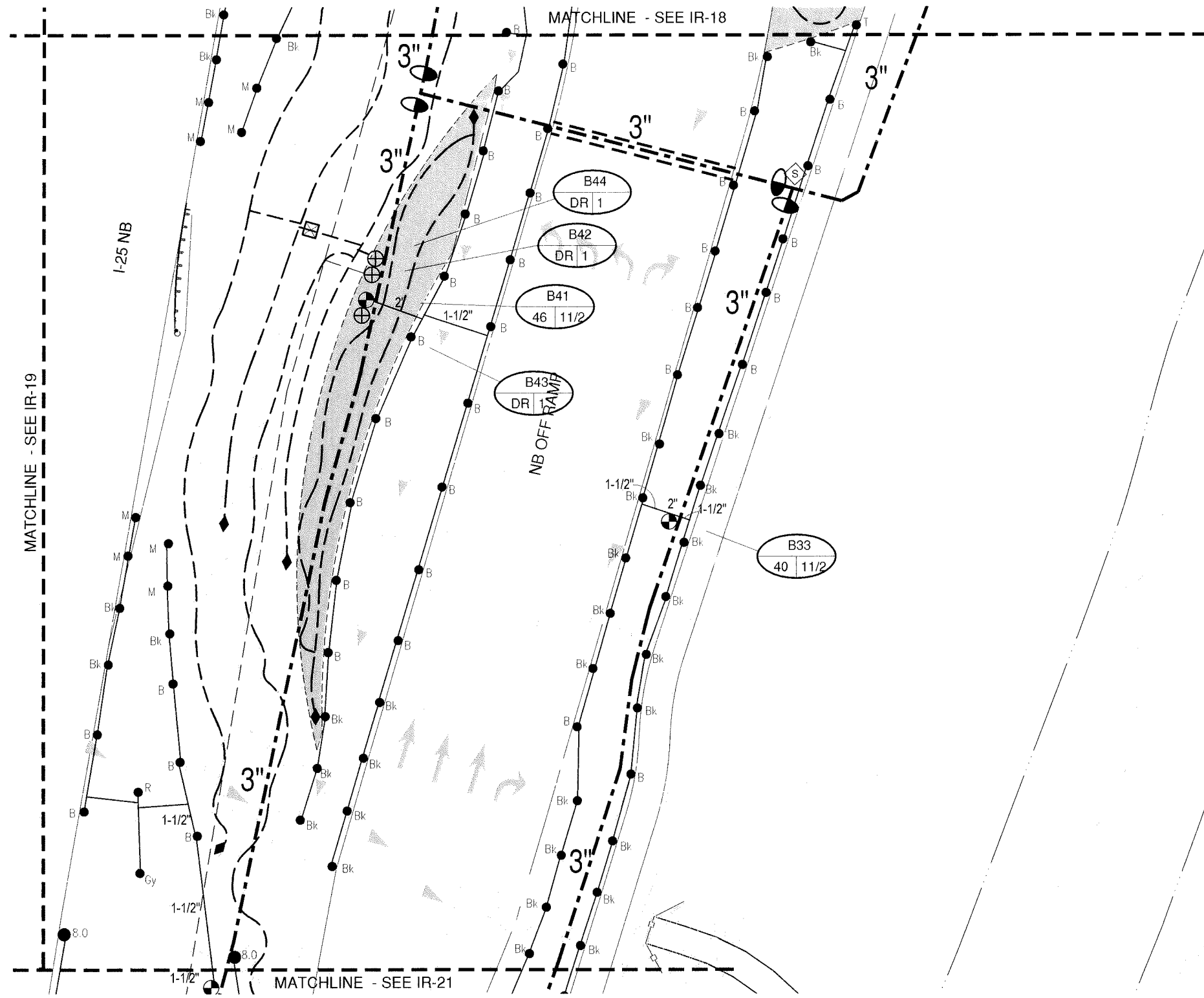
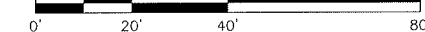
KEY MAP



7-8-16

N

SCALE: 1"=40'



c:\...dwg\I-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOLIVARAS SIMMONS HOLDERNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-20 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-86

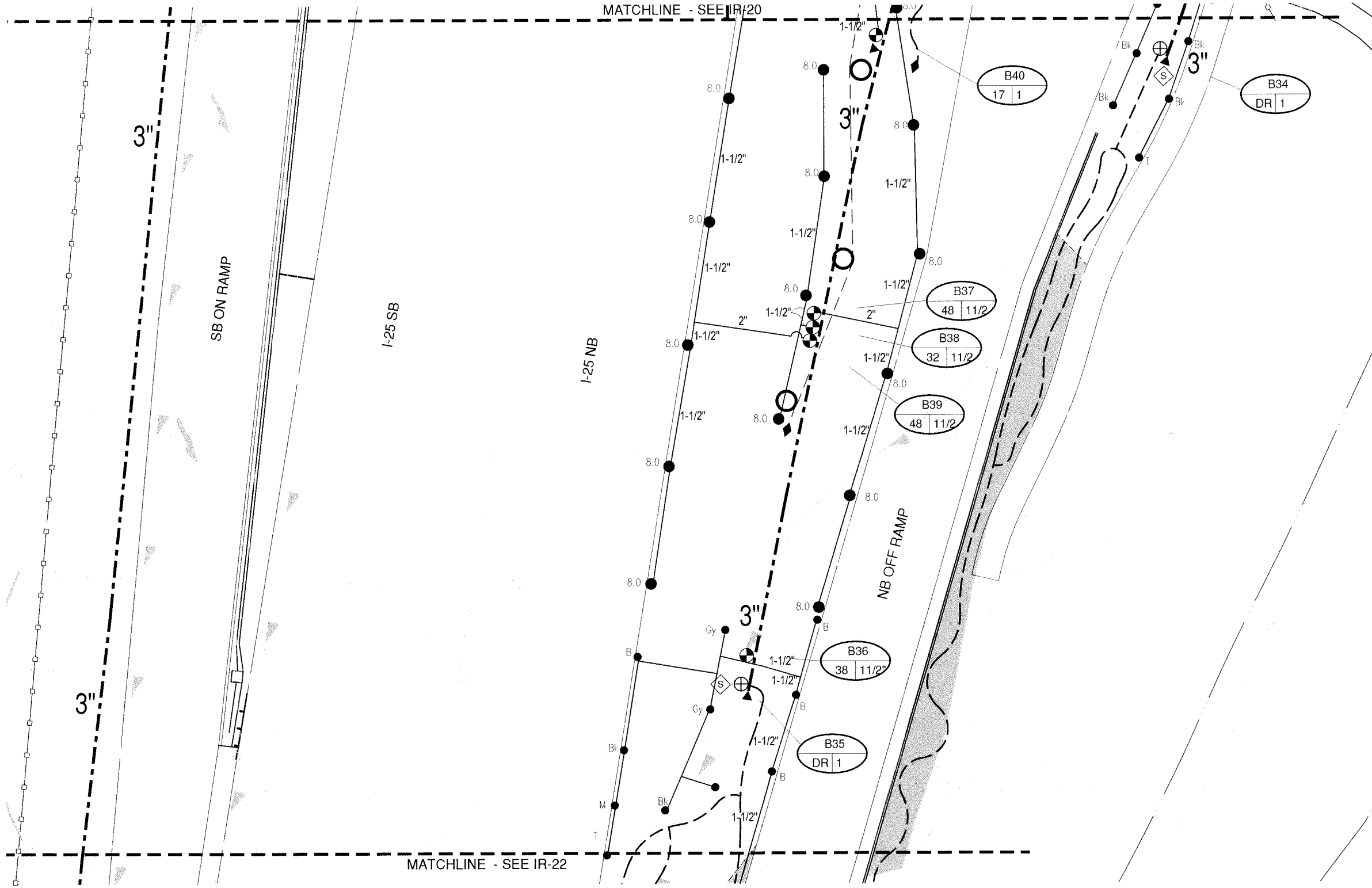
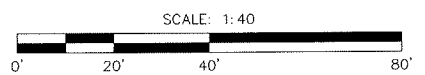
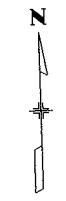
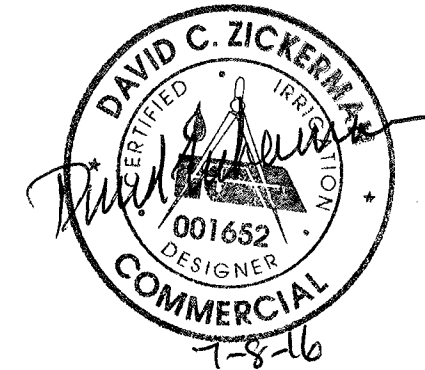
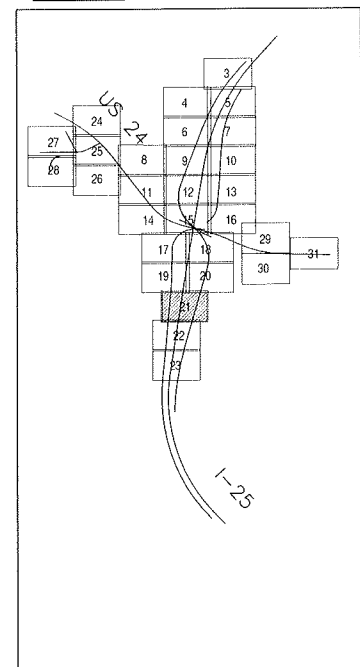
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



c:\dwg\1-25 & cimarron\irrigation 1-25-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--------------------------------------|----------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-21 of 37 |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-87 |

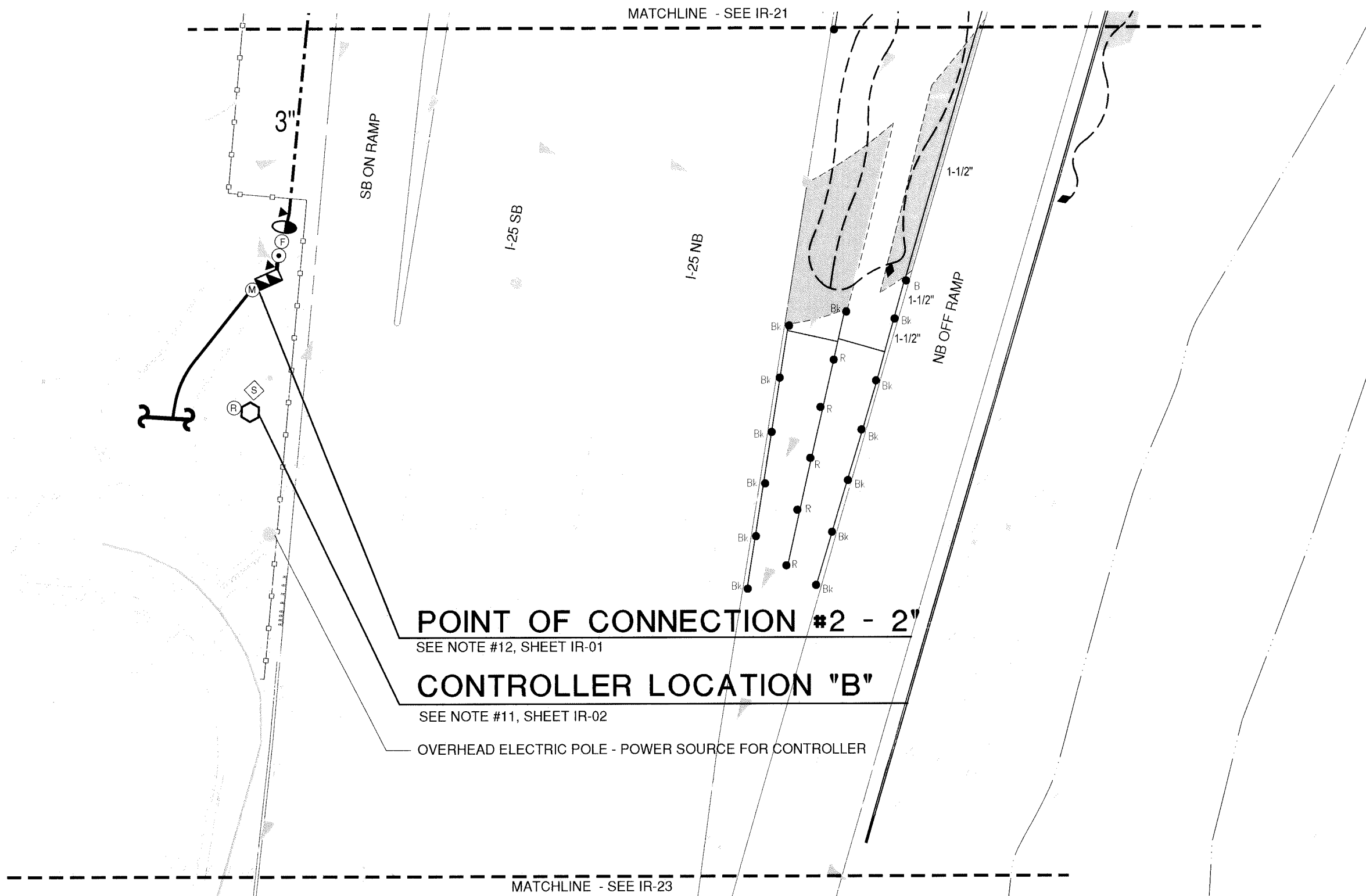
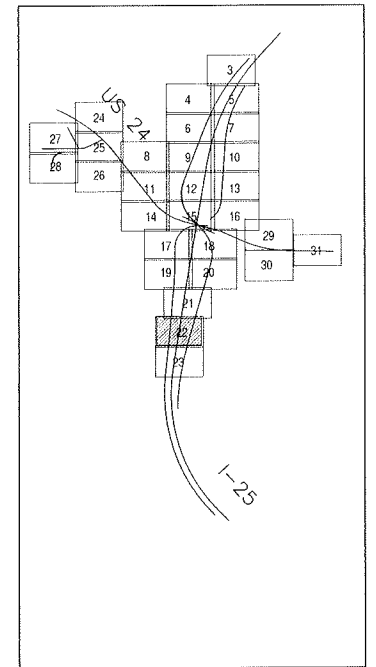
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



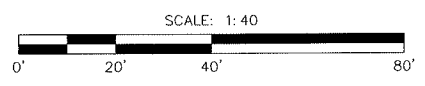
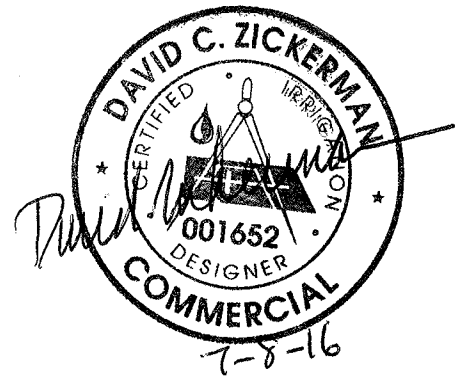
POINT OF CONNECTION #2 - 2"

SEE NOTE #12, SHEET IR-01

CONTROLLER LOCATION "B"

SEE NOTE #11, SHEET IR-02

OVERHEAD ELECTRIC POLE - POWER SOURCE FOR CONTROLLER



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIQUIVARAS SIMMONS HOLDENNESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
 1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
Region 2 DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-22 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-88

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

MATCHLINE - SEE IR-22

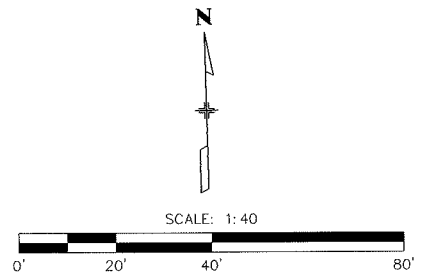
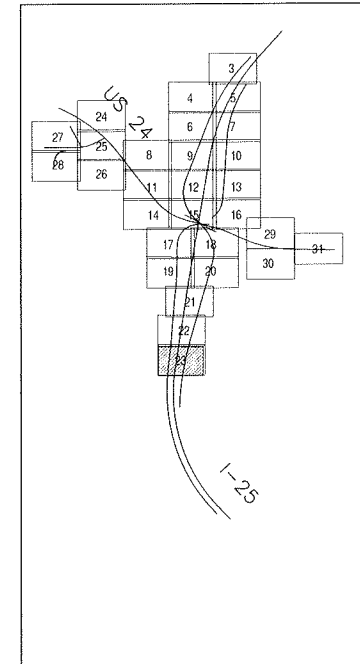
NB OFF RAMP

NO IRRIGATION THIS SHEET




I-25 SB

I-25 NB

KEY MAP



c:\dwg\I-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

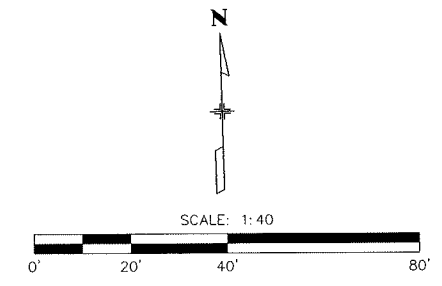
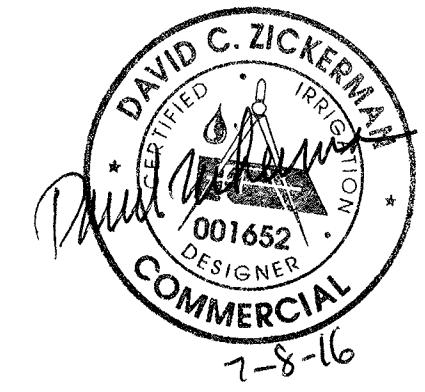
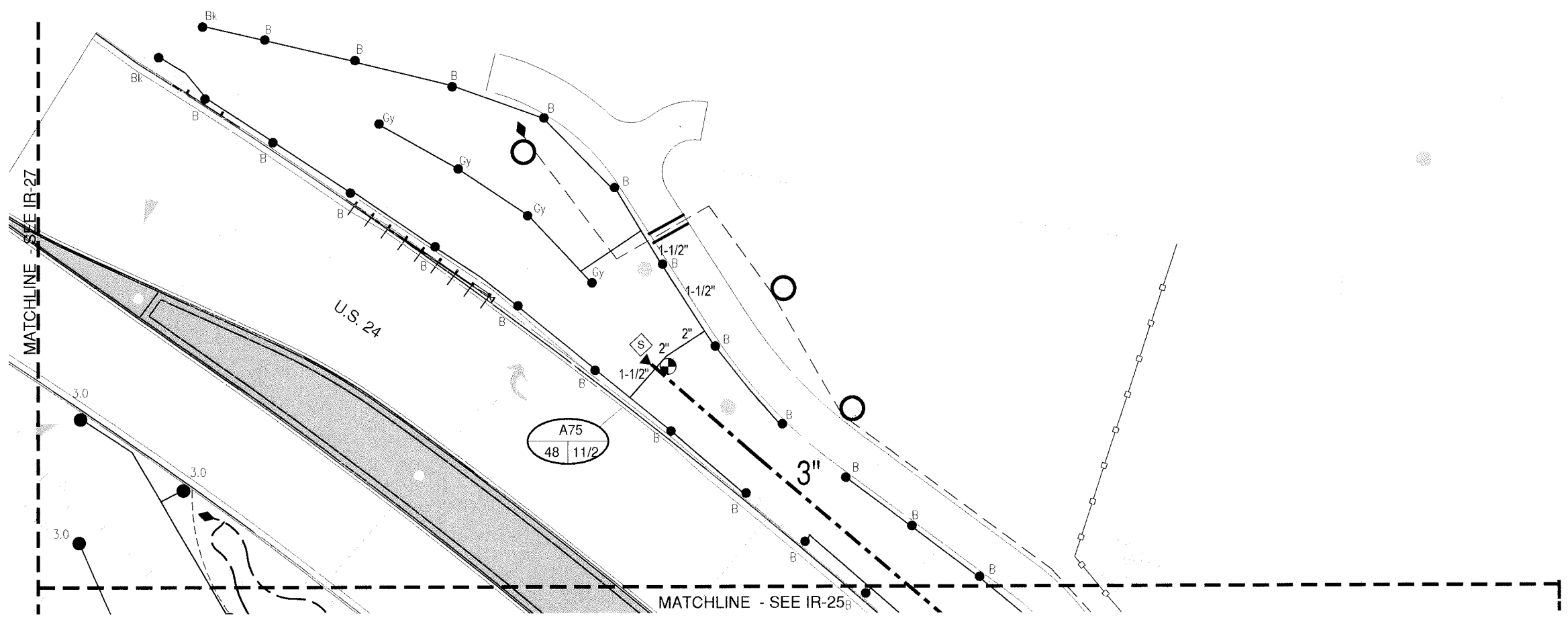
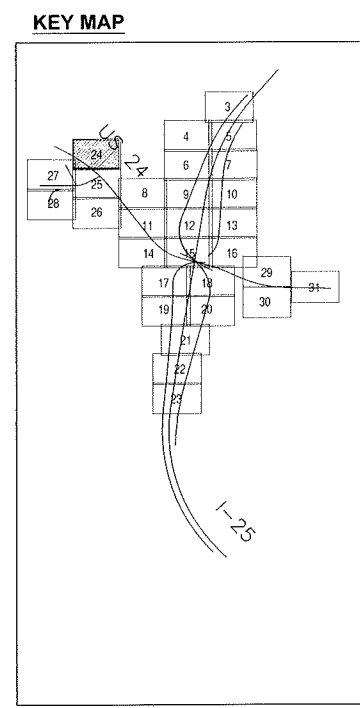
| | | | | | | | | | | | |
|---|-----------------|----------|-------|--|----------------|--------------------------------------|-------------------|------------------|---------------|----------------------------|--------------------|
| Print Date: 7/6/2016 | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code | | | |
| File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg | Date: | Comments | Init. | | | IRRIGATION PLAN | | | IM 0252-423 | | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | |  1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 | No Revisions: | Designer: | Structure Numbers | 19039 | | | |
|   | | | | | Region 2 | DMW | Revised: | Detailer: | Sheet Subset: | Subset Sheets: IR-23 of 37 | Sheet Number 24-89 |
| | | | | | | Void: | | | | | |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOLIVARAS SIMMONS HOLDENESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers
Subset Sheets: IR-24 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-90

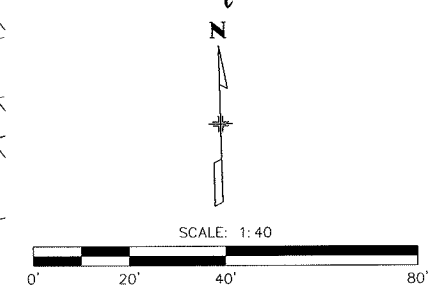
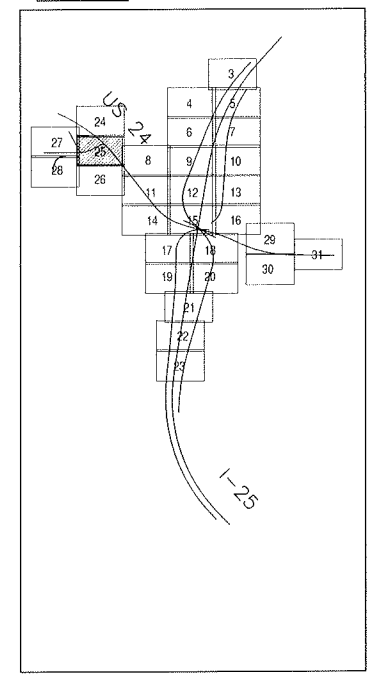
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



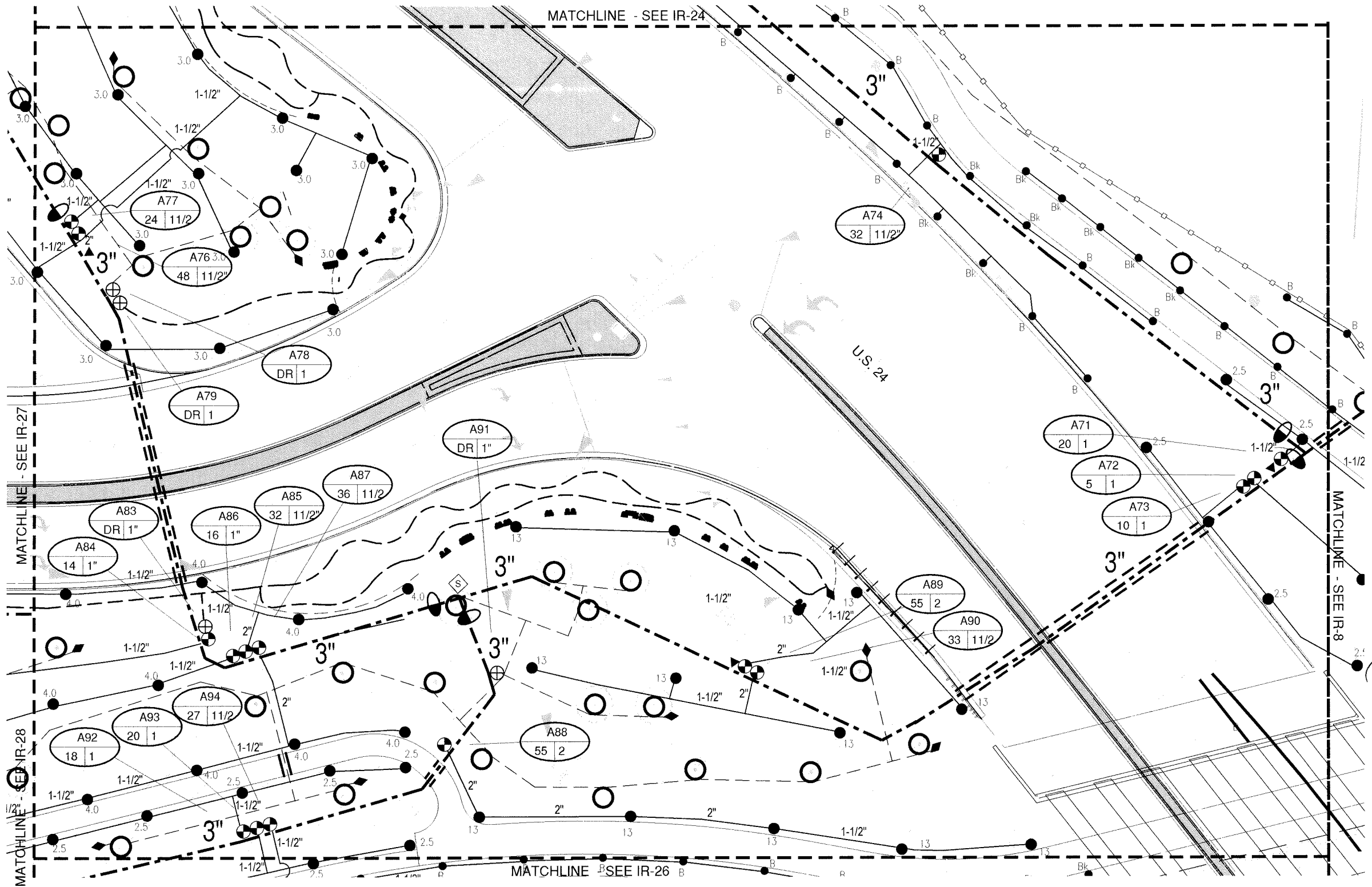
Know what's below.
Call before you dig.

KEY MAP



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

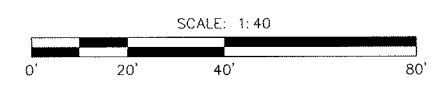
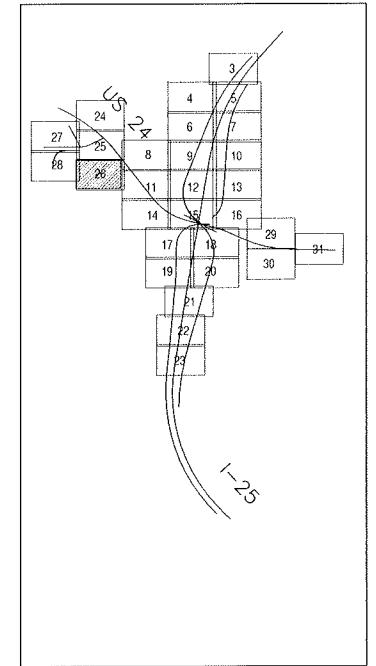
| | |
|--------------------------------------|----------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-25 of 37 |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-91 |

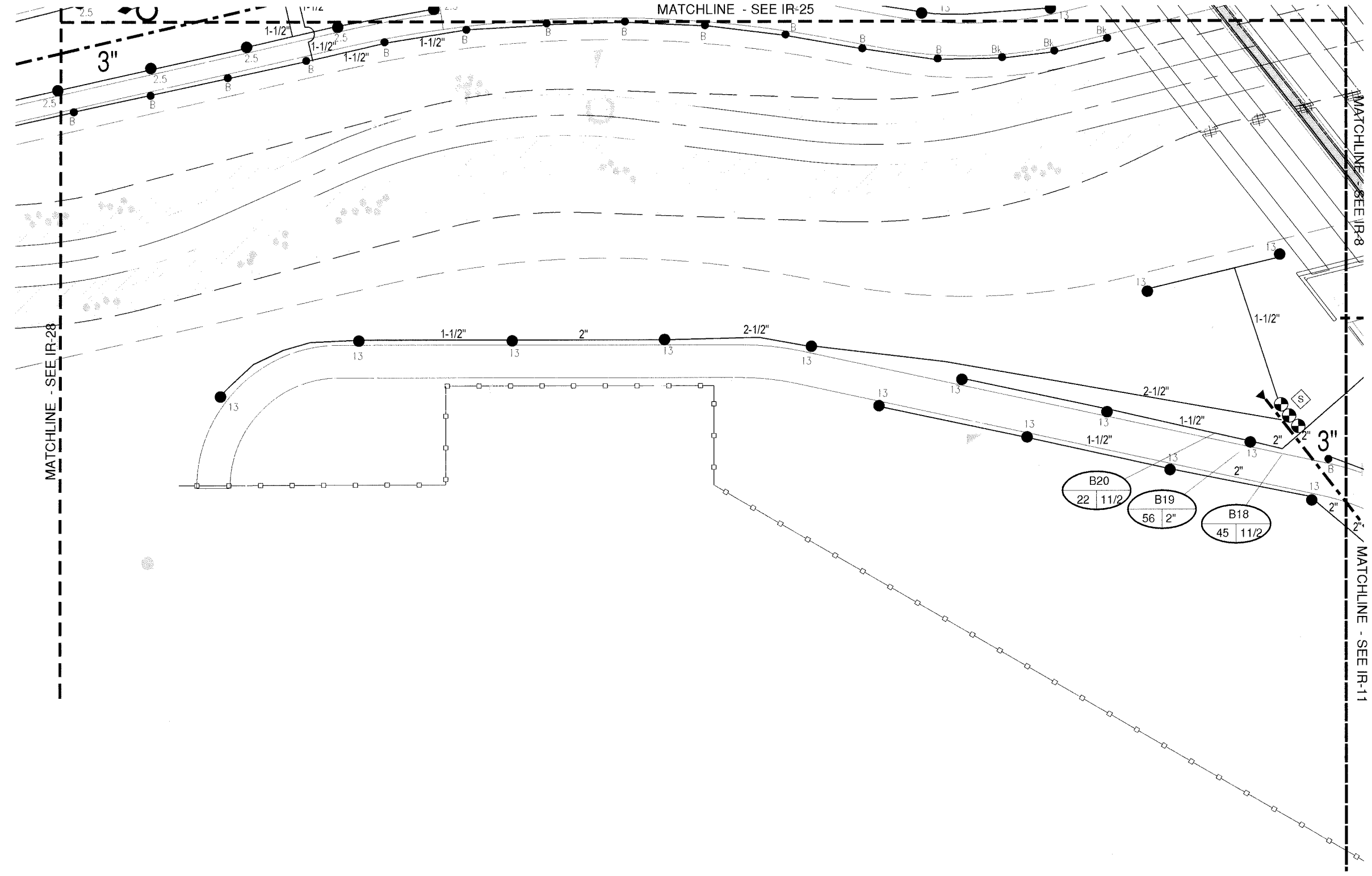


Know what's below.
Call before you dig.

KEY MAP



RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016



c:\...dwg\1-25 & cimarron\irrigation\1-26-16\irrigation_irrigation_plans_7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSOUVARAS SIMMONS HOLDENESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
Region 2 DMW

As Constructed
No Revisions:
Revised:
Void:

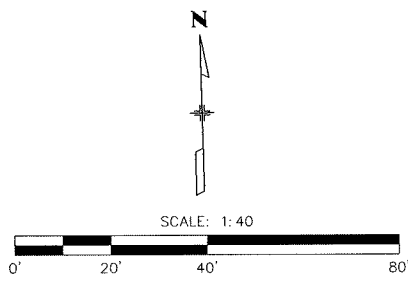
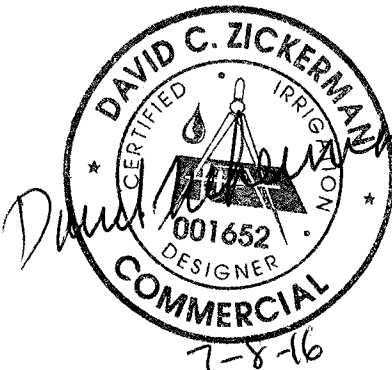
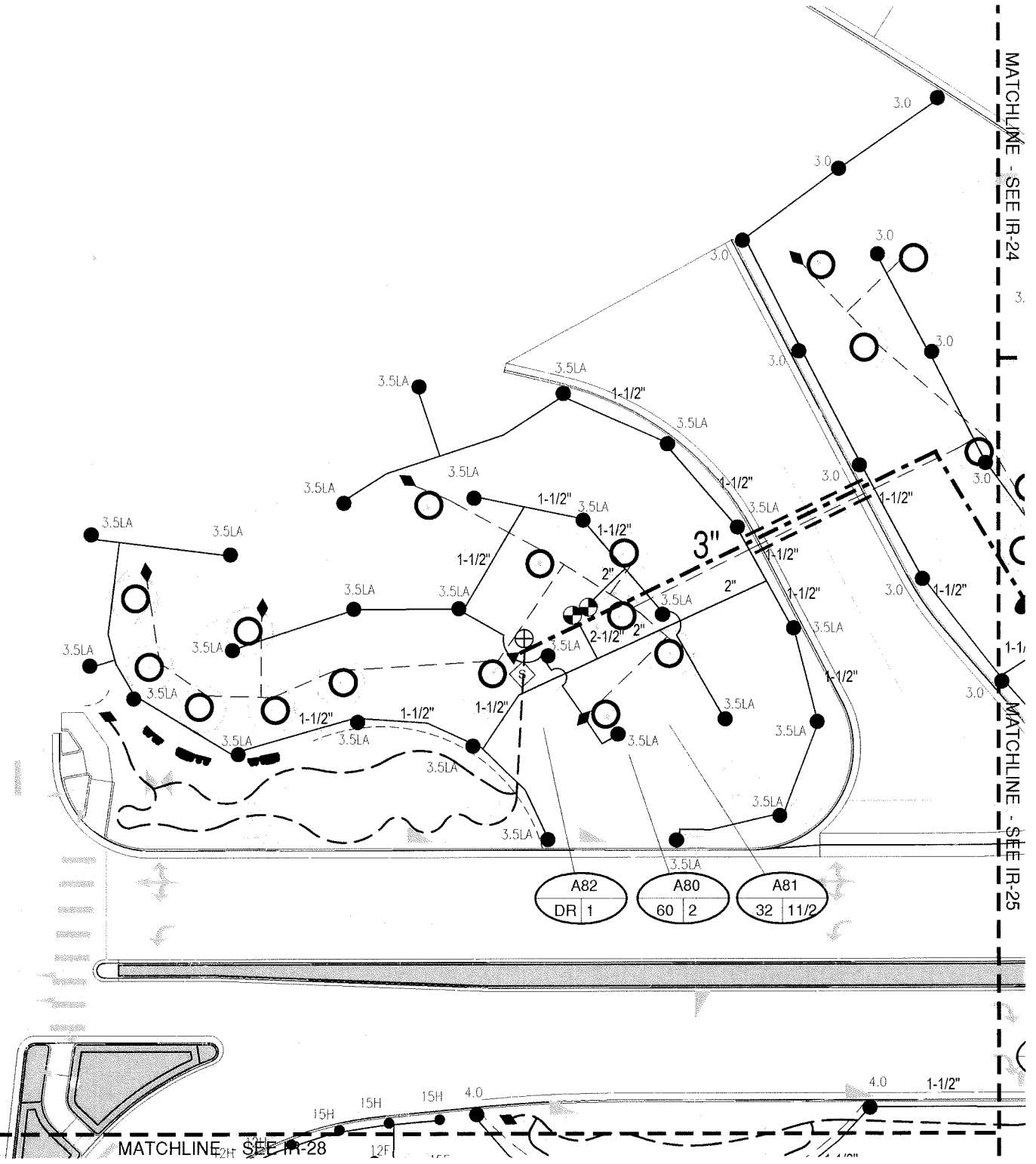
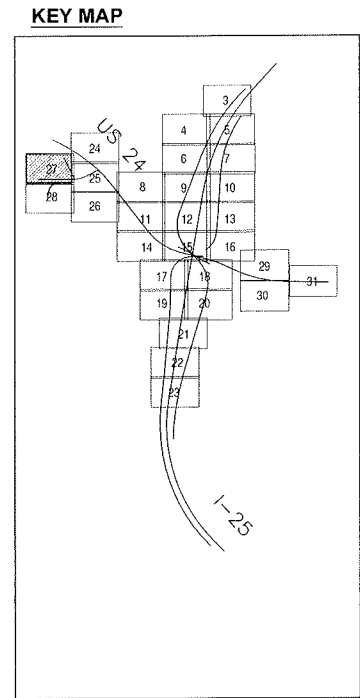
I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers:
Subset Sheets: IR-26 of 37

Project No./Code
IM 0252-423
19039
Sheet Number 24-92

RFC



Know what's below.
Call before you dig.



c:\dwg\1-25 & cimarron\irrigation\1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted
TSIOUVARAS SIMMONS HOLDENESS
CONSULTING ENGINEERS

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation
Region 2
1480 Quail Lake Loop, Suite A
Colorado Springs, CO 80906
Phone: 719-634-2323 FAX: 719-227-3298
DMW

As Constructed
No Revisions:
Revised:
Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
IRRIGATION PLAN
Designer:
Detailer:
Sheet Subset:
Structure Numbers:
Subset Sheets: IR-27 of 37

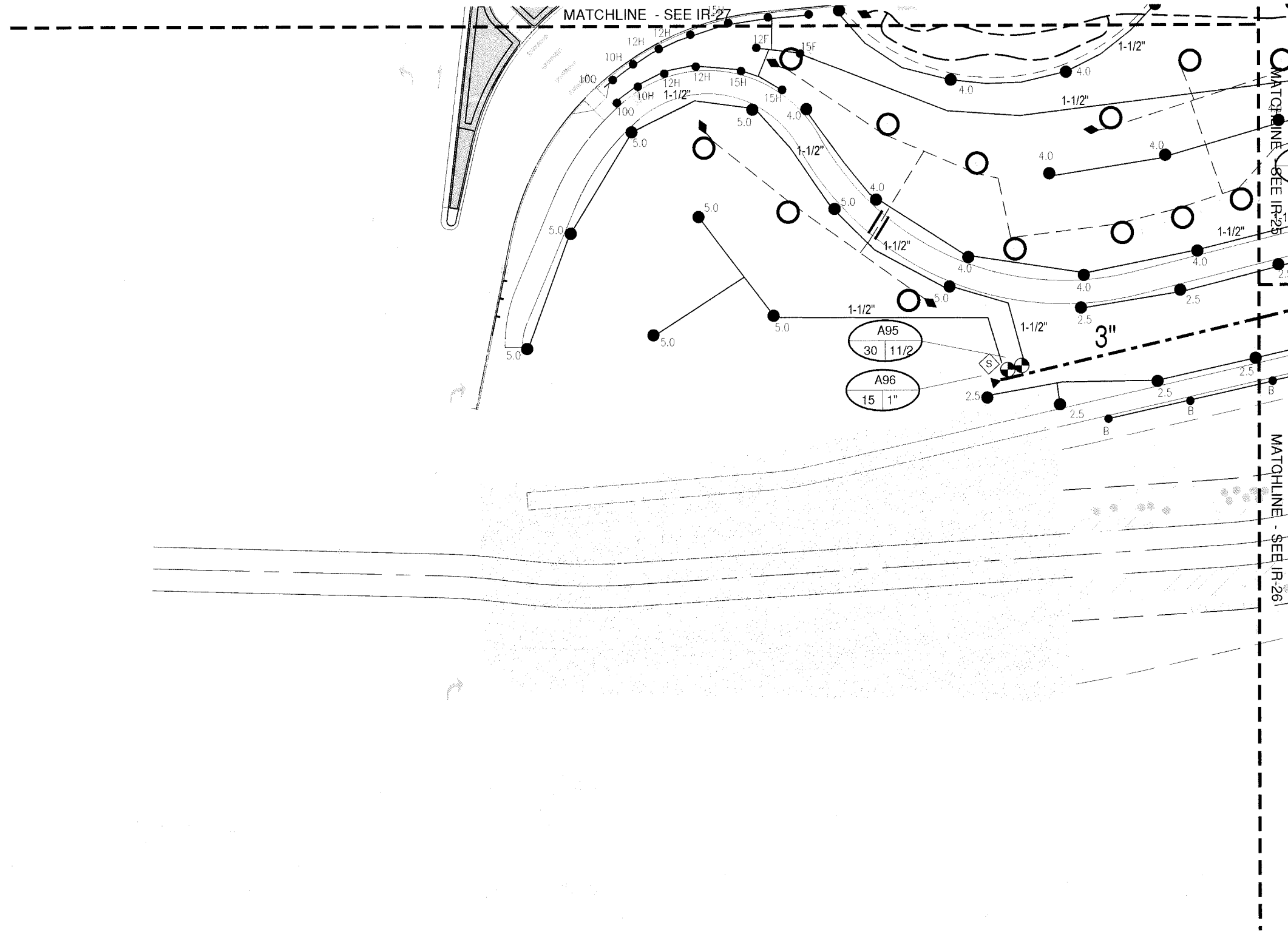
Project No./Code
IM 0252-423
19039
Sheet Number 24-93

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

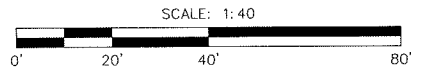
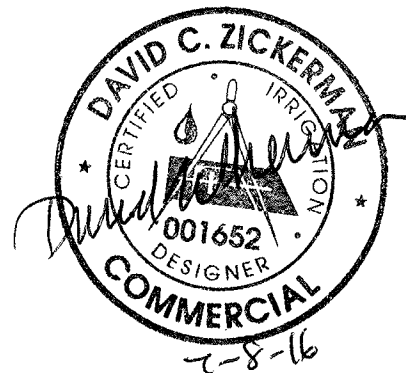
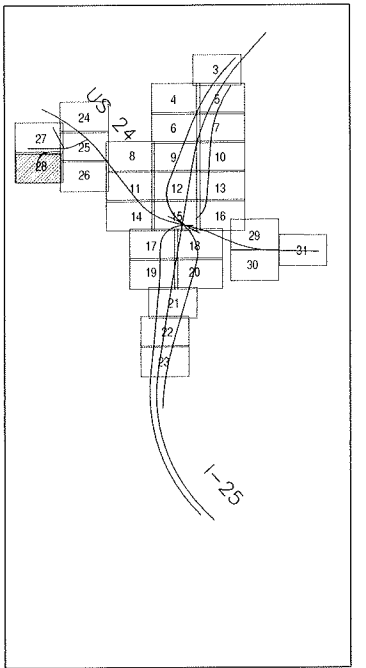
RFC



Know what's below.
Call before you dig.

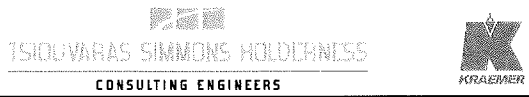


KEY MAP




c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
Horiz. Scale: As Noted Vert. Scale: As Noted



| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

As Constructed
 No Revisions:
 Revised:
 Void:

I-25/CIMARRON ST (US 24) INTERCHANGE
 IRRIGATION PLAN
 Designer:
 Detailer:
 Sheet Subset:
 Structure Numbers:
 Subset Sheets IR-28 of 37

Project No./Code
 IM 0252-423
 19039
 Sheet Number 24-94

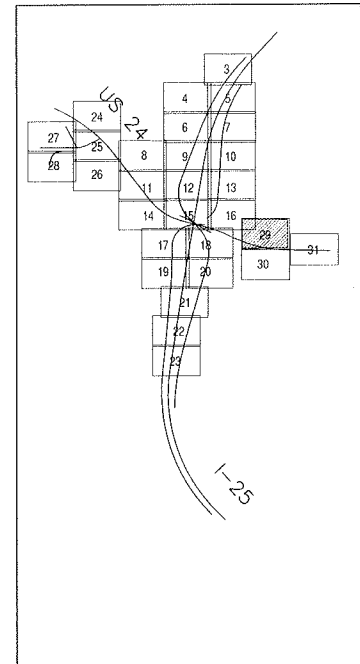
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below.
Call before you dig.

KEY MAP



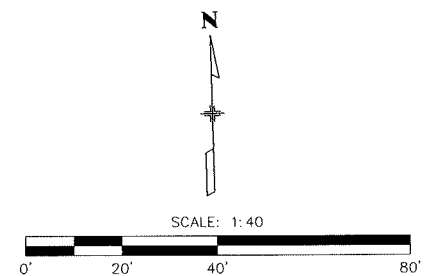
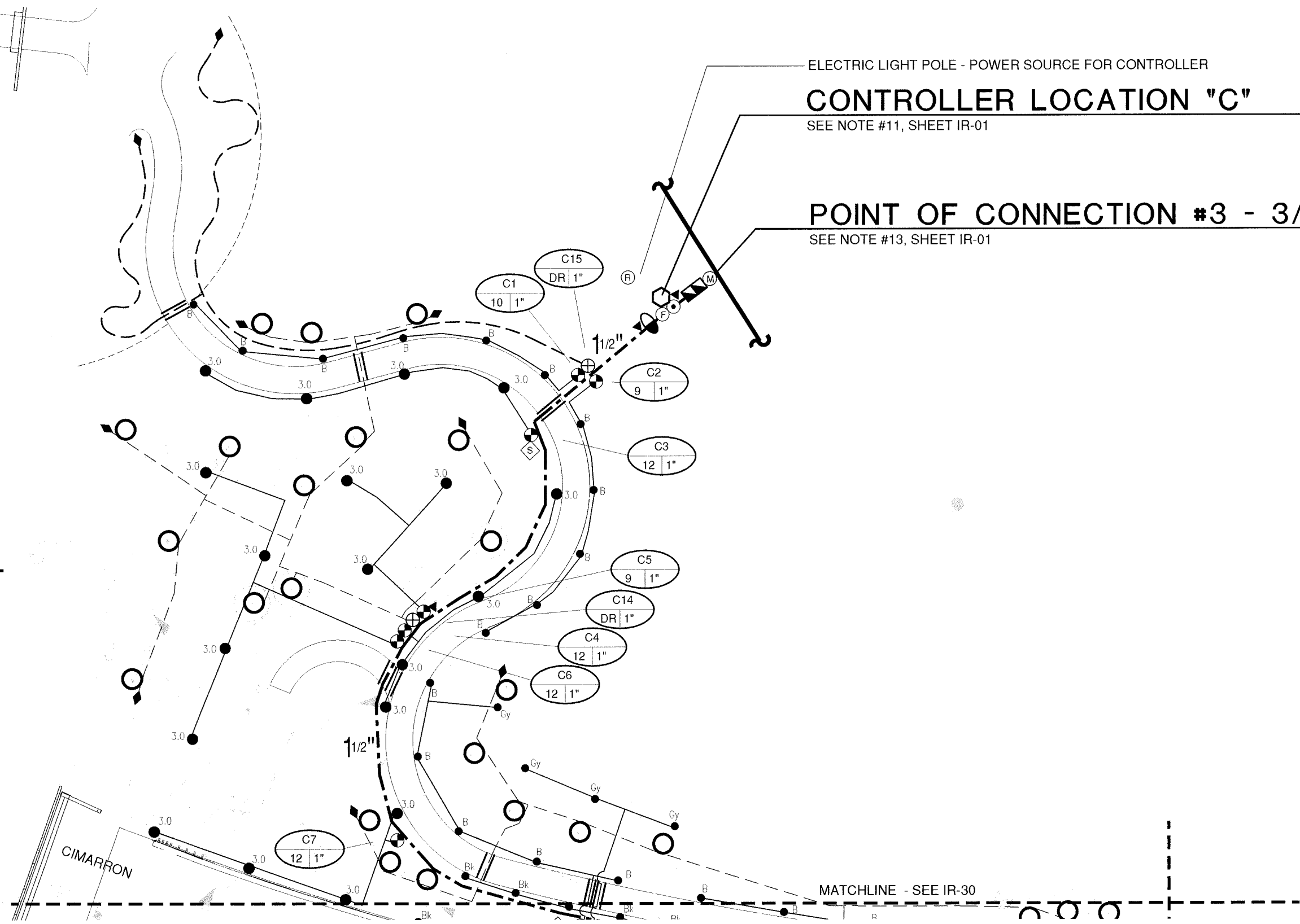
ELECTRIC LIGHT POLE - POWER SOURCE FOR CONTROLLER

CONTROLLER LOCATION "C"

SEE NOTE #11, SHEET IR-01

POINT OF CONNECTION #3 - 3/4"

SEE NOTE #13, SHEET IR-01



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

Print Date: 7/6/2016
 File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg
 Horiz. Scale: As Noted Vert. Scale: As Noted

TSOUVARAS SIMMONS HOLDENESS
 CONSULTING ENGINEERS

K
 KRAEMER

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

CDOT
CO

1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298

Region 2 DMW

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

| | |
|--------------------------------------|----------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION PLAN | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-29 of 37 |

| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-95 |

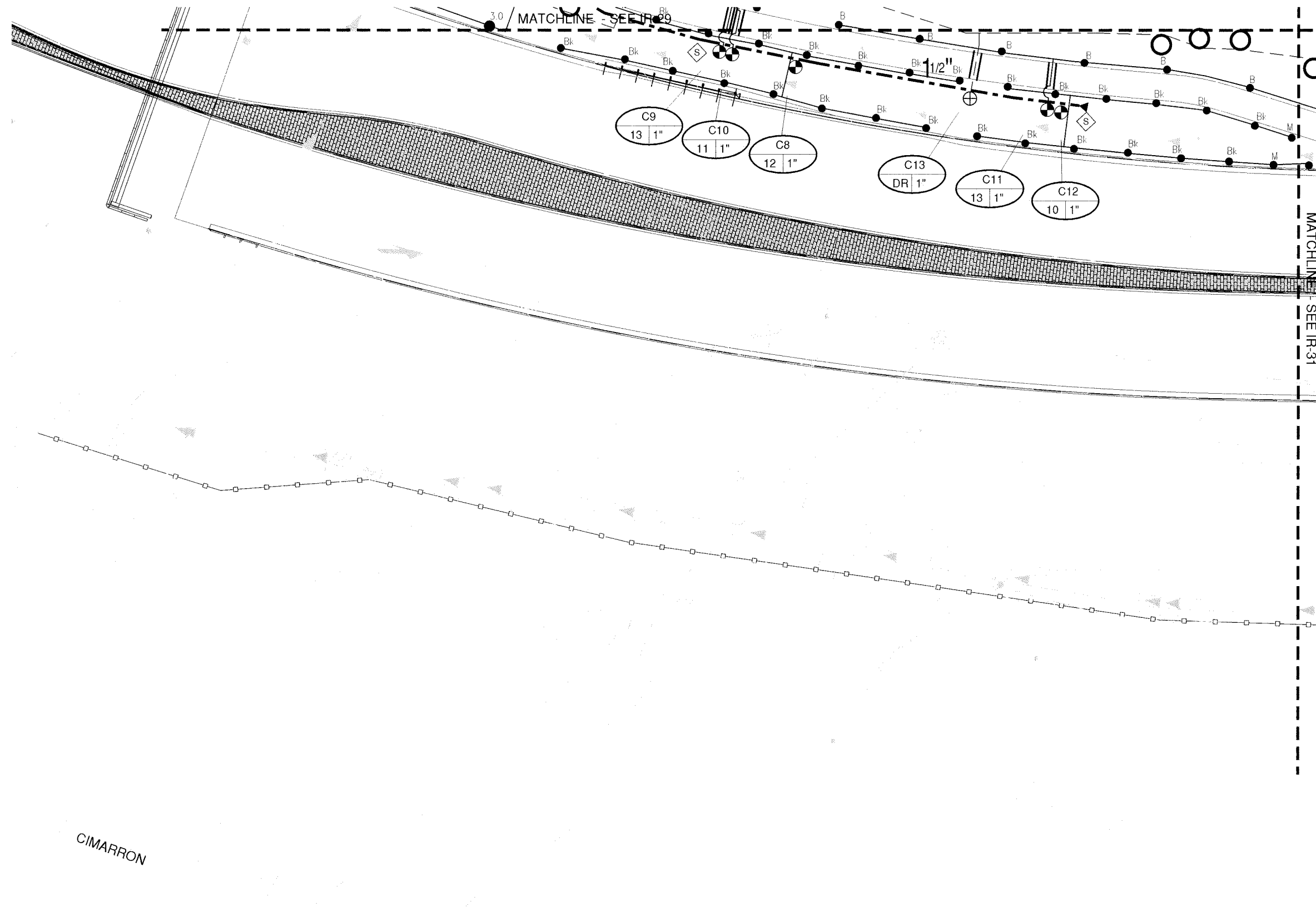
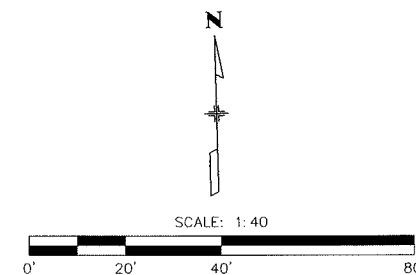
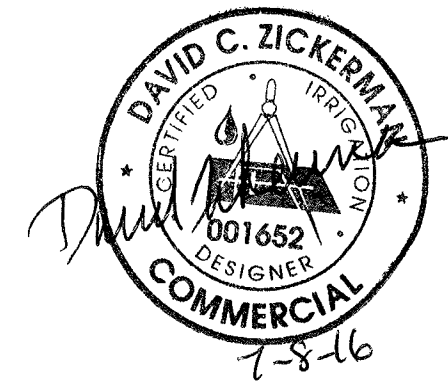
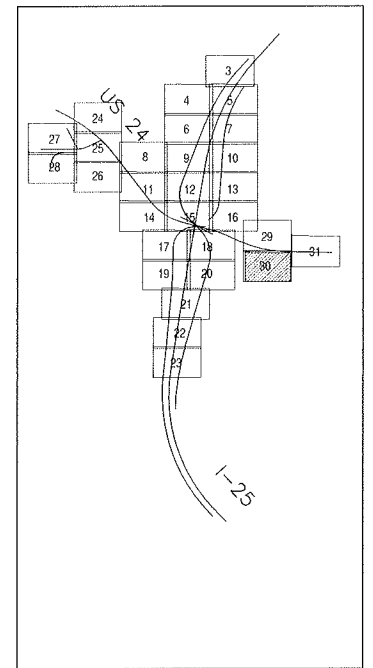
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC





Know what's below.
Call before you dig.

KEY MAP



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | |
|--|-----------------|----------|-------|---|----------------|--------------------------------------|--------------------|------------------|
| Print Date: 7/6/2016 | Sheet Revisions | | | Colorado Department of Transportation  1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg | Date: | Comments | Init. | | No Revisions: | IRRIGATION PLAN | | IM 0252-423 |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | Revised: | Designer: | Structure Numbers | 19039 | |
|  CONSULTING ENGINEERS | | | | Void: | Detailer: | Subset Sheets: IR-30 of 37 | Sheet Number 24-96 | |

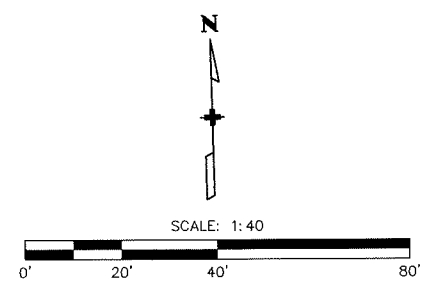
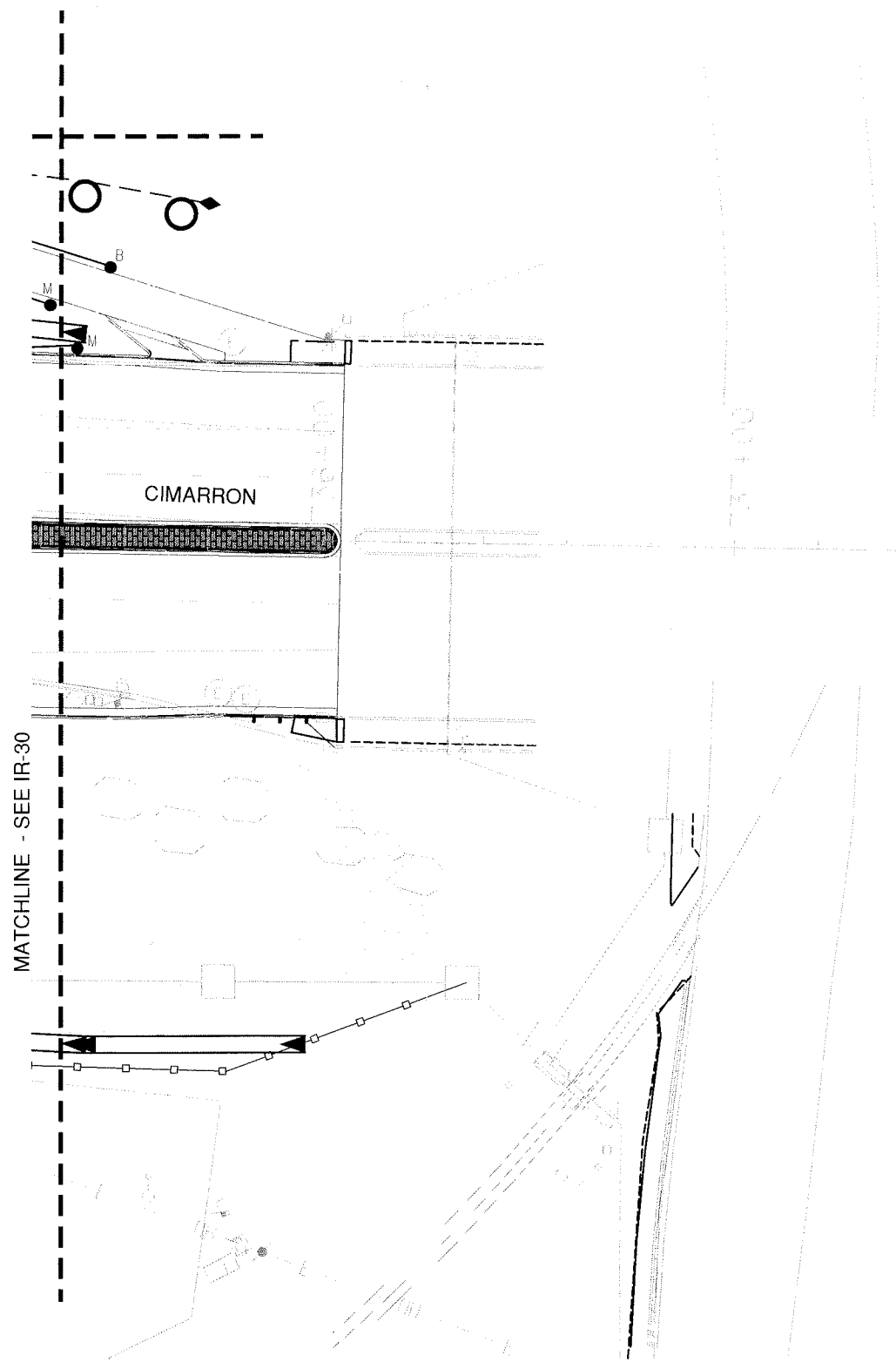
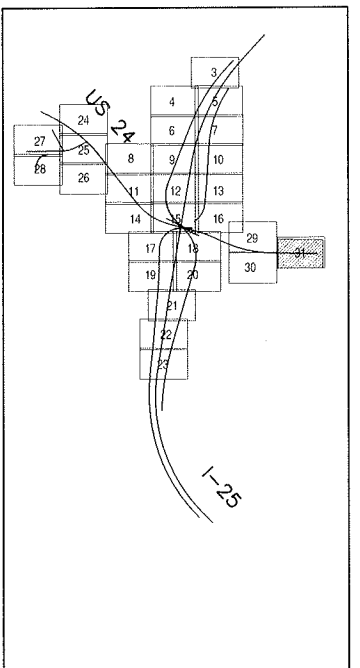
RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC






Know what's below.
Call before you dig

KEY MAP



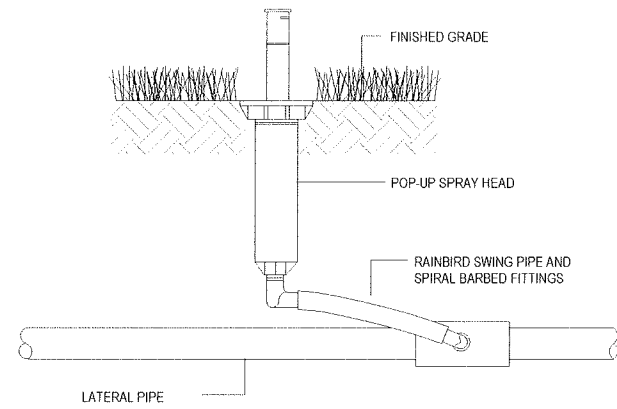
c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | |
|--|-----------------|----------|---|----------------|--------------------------------------|-------------------|----------------------------|
| Print Date: 7/6/2016 | Sheet Revisions | | Colorado Department of Transportation  1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: IRRIGATION IRRIGATION PLANS 7-5-16.dwg | Date: | Comments | | Init. | No Revisions: | IRRIGATION PLAN | |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | | Revised: | Designer: | Structure Numbers | 19039 |
|  CONSULTING ENGINEERS | | | | Void: | Detailer: | Sheet Subset: | Subset Sheets: IR-31 of 37 |
|  | | | | | | | Sheet Number 24-97 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

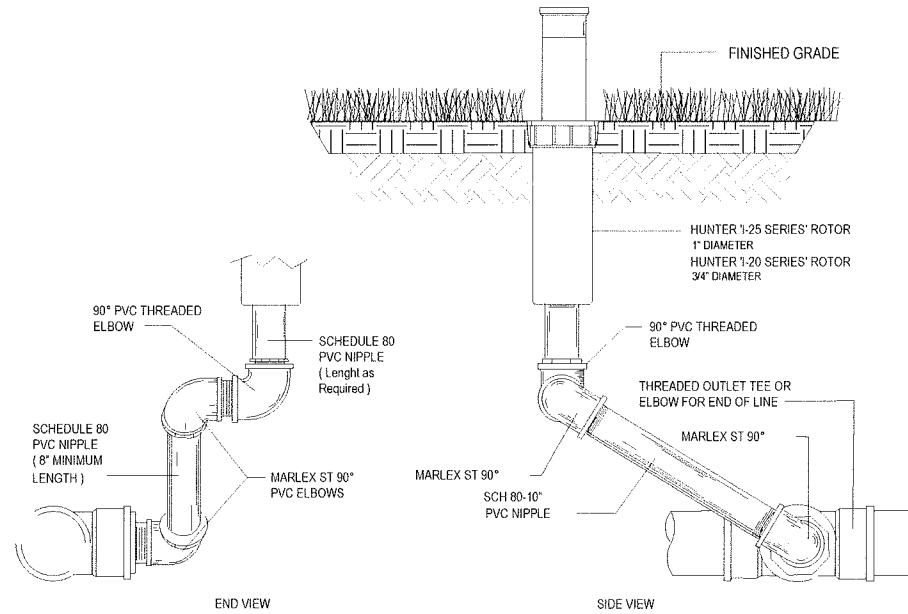


Know what's below.
Call before you dig.



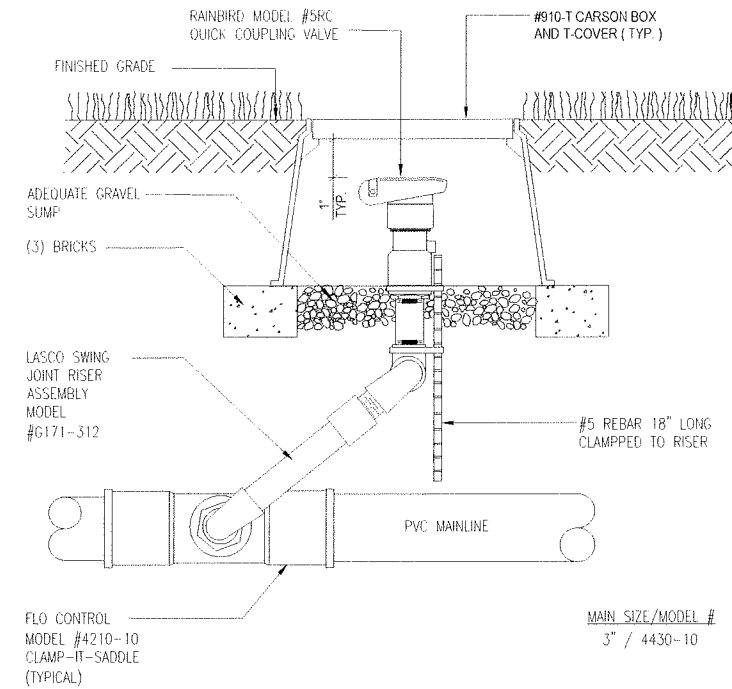
POP-UP SPRAY HEAD

1



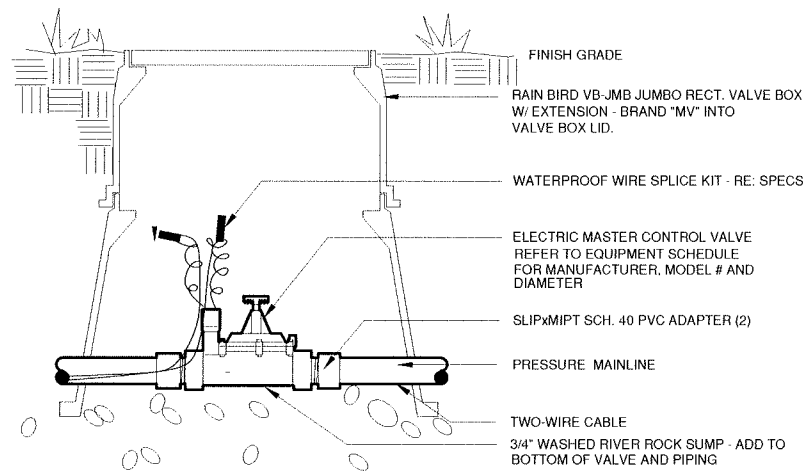
GEAR DRIVEN ROTOR

2



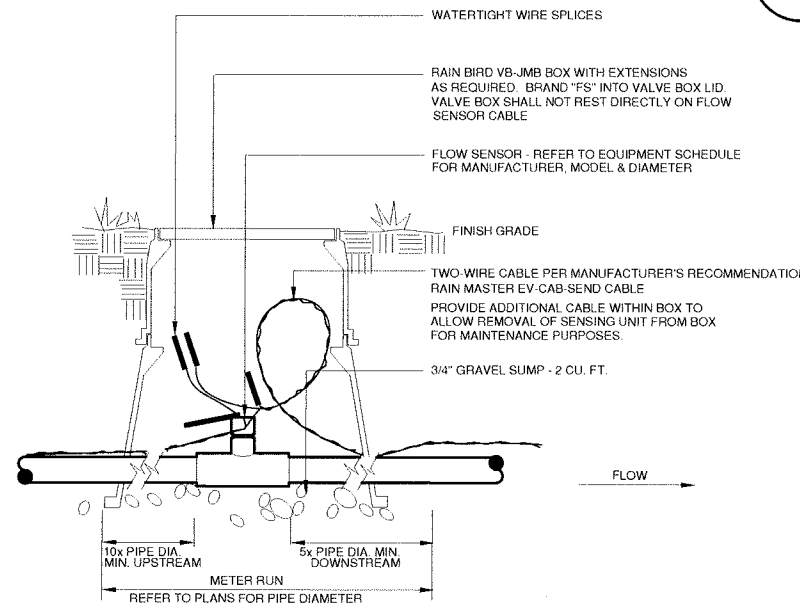
QUICK COUPLING VALVE

3



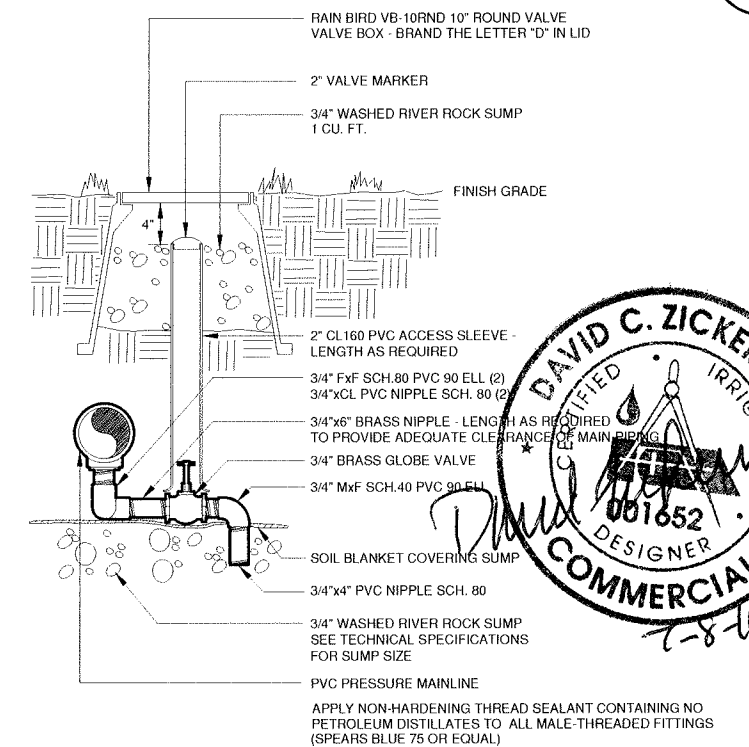
MASTER VALVE

4



FLOW SENSOR

5

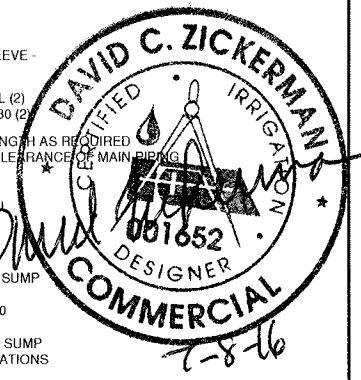


MANUAL DRAIN VALVE

6

NOTE: CENTER BOX OVER VALVE ASSEMBLY.
APPLY NON-HARDENING THREAD SEALANT CONTAINING NO PETROLEUM DISTILLATES TO ALL MALE-THREADED FITTINGS (SPEARS BLUE 75 OR EQUAL)
PROVIDE DIRECT CONNECTION (I.E. NO DECODER REQUIRED) OF MASTER VALVE TO CONTROLLER THROUGH INSTALLATION OF 14 GA. IRRIGATION WIRE (GREEN)

NO FITTINGS INCLUDING REDUCER BUSHINGS, TEES, ELLS, ETC. SHALL BE INSTALLED WITHIN "METER RUN" SEGMENT OF PIPING
DIAMETER OF FLOW SENSOR TEE AND "METER RUN" PIPING SHALL BE EQUAL. NO REDUCER BUSHINGS, ADAPTERS, ETC. SHALL BE INSTALLED WITHIN FLOW SENSOR TEE.
VALVE BOX SHALL NOT REST OF TOP OF FLOW SENSOR CABLE
PROVIDE DIRECT CONNECTION (I.E. NO DECODER REQUIRED) OF CONTROLLER TO CONTROLLER THROUGH INSTALLATION OF PAIGE ELECTRIC P7171D-A CABLE



c:\dwg\1-25 & cimarron\irrigation\1-26-16\irrigation plans 7-5-16.dwg

| | |
|---|-----------------------|
| Print Date: | |
| File Name: | |
| Horiz. Scale: As Noted | Vert. Scale: As Noted |
| TSIOUVARAS SIMMONS HOLDERNESS CONSULTING ENGINEERS | |
| | |

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
| | | |
| | | |
| | | |

Colorado Department of Transportation

 1480 Quail Lake Loop, Suite A
 Colorado Springs, CO 80906
 Phone: 719-634-2323 FAX: 719-227-3298
 Region 2 DMW

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

| | |
|--------------------------------------|----------------------------|
| I-25/CIMARRON ST (US 24) INTERCHANGE | |
| IRRIGATION DETAILS | |
| Designer: | Structure Numbers |
| Detailer: | |
| Sheet Subset: | Subset Sheets: IR-32 of 37 |

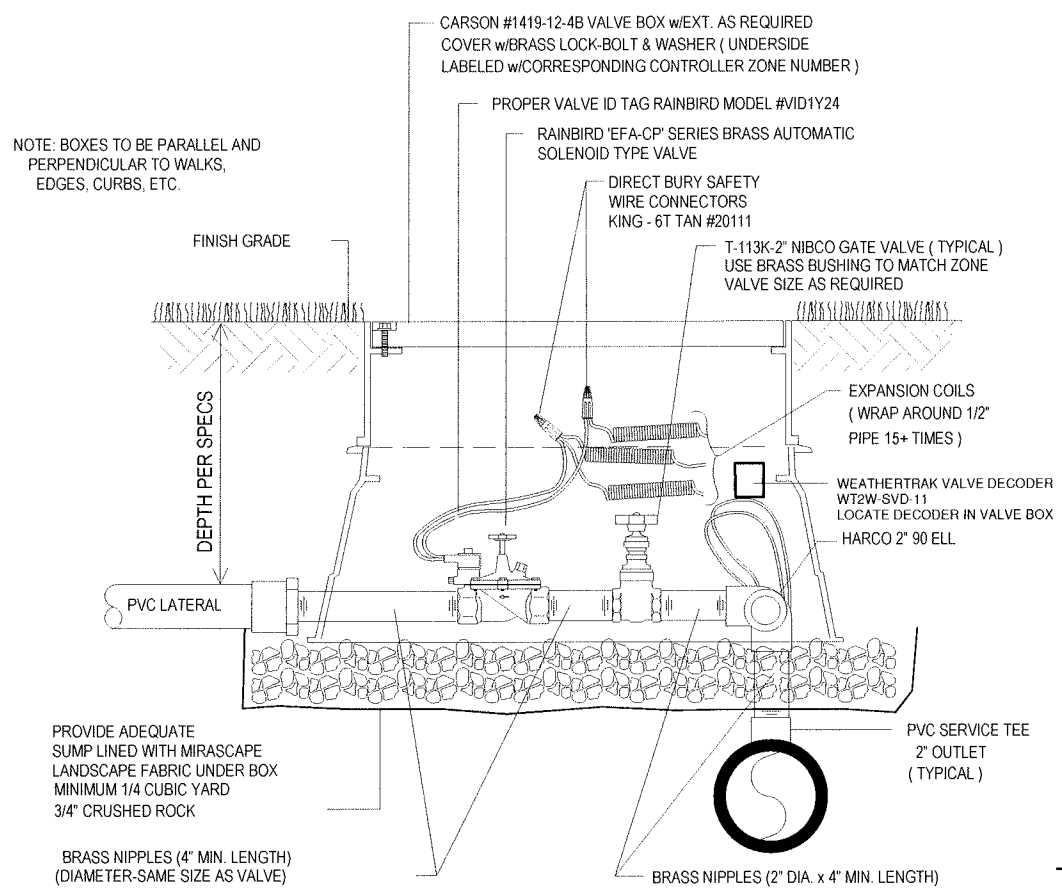
| |
|--------------------|
| Project No./Code |
| IM 0252-423 |
| 19039 |
| Sheet Number 24-98 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



Know what's below. Call before you dig.



ELECTRIC CONTROL VALVE

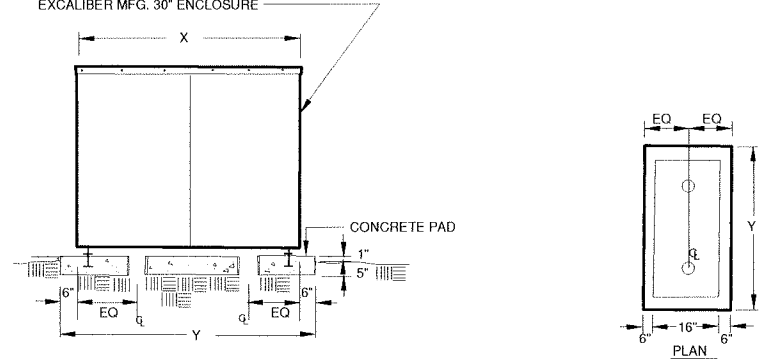
DECODER SYSTEM

NOTES

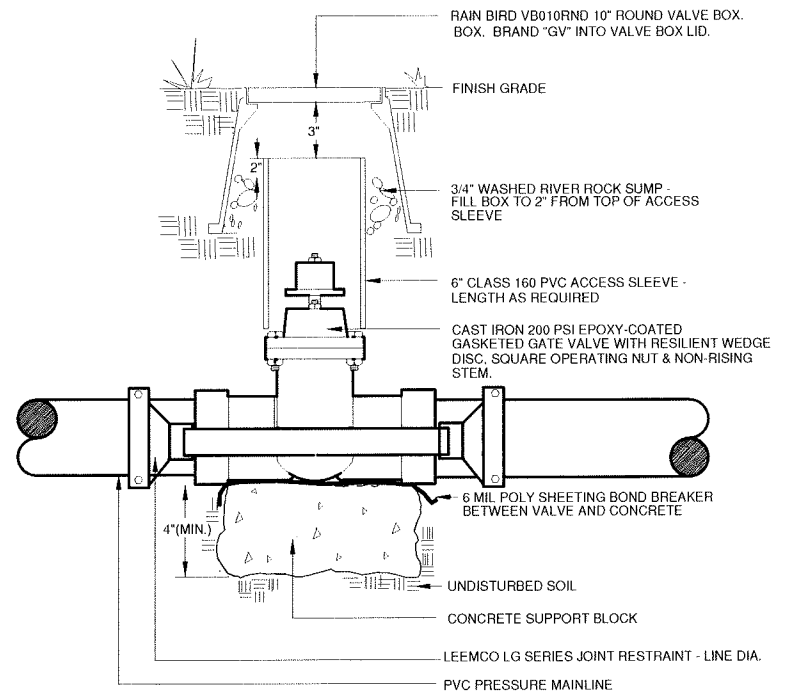
PAD PENETRATIONS FOR BACKFLOW PREVENTER RISERS TO BE 1" LARGER THAN RISER DIAMETER

TOP SURFACE OF CONCRETE PAD SHALL BE 1" ABOVE FINISH GRADE.

EXCALIBUR MFG. 30" ENCLOSURE



BACKFLOW ENCLOSURE



GATE VALVE

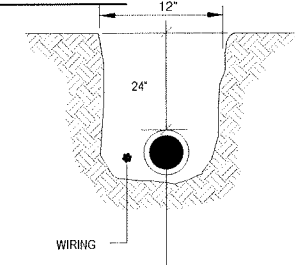
8

TRENCH

9

NOTE: ALL DEPTHS ARE TO THE TOP OF PIPE/CONDUIT. NOT TO THE BOTTOM OF TRENCH

MAINLINE AND WIRING



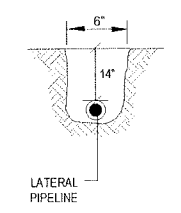
NO PIPING SHALL BE INSTALLED WITH LESS THAN 12" LATERAL CLEARANCE (NO SHARED TRENCHES)

INSTALL ALL MAINLINE AND LATERAL LINE PIPING PER SPECIFICATIONS AND IN FULL ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS

DEPTHS INDICATED ARE MINIMUM DEPTHS TO TOP OF PIPELINE AND NOT TRENCH DEPTH

COMMON WIRE SHALL BE PRESENT IN ALL MAINLINE TRENCHES (TO BE USED AS TRACER BY MAINTENANCE)

LATERAL ONLY



WIRING AND PIPING SHALL BE INSTALLED IN SEPARATE SLEEVES AT LOCATIONS NOTED ON DRAWINGS. SLEEVE MINIMUM SIZING SHALL BE DOUBLE THE BUNDLE OR PIPE DIAMETER.

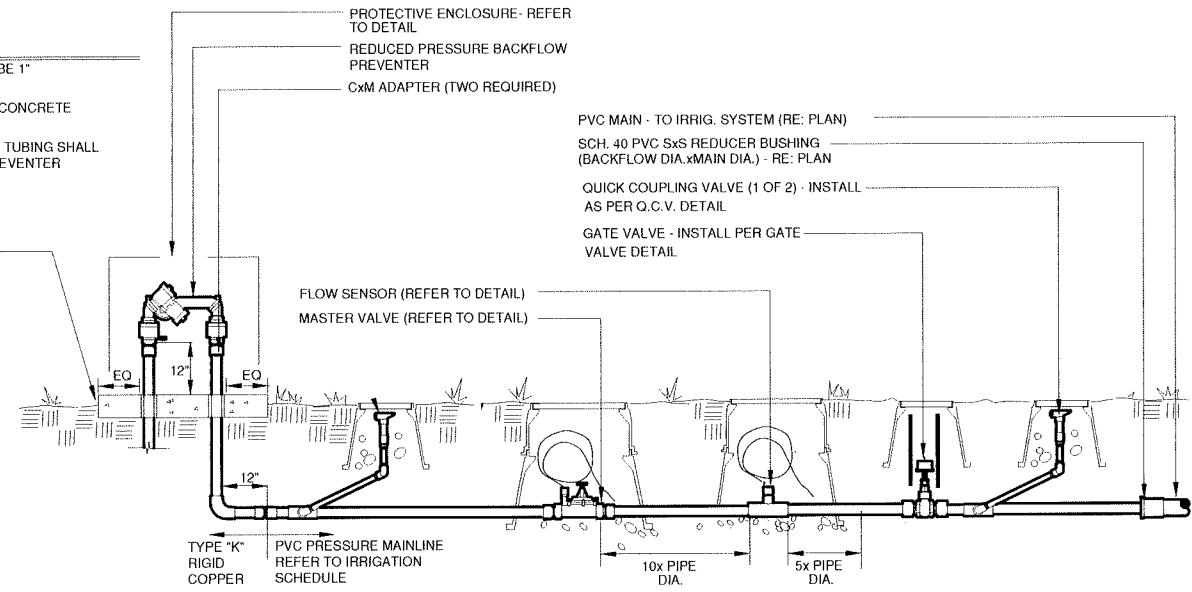
NOTE:

CONCRETE PAD PENETRATIONS TO BE 1" LARGER THAN TUBING DIAMETER

REFER TO ENCLOSURE DETAIL FOR CONCRETE PAD DIMENSIONS

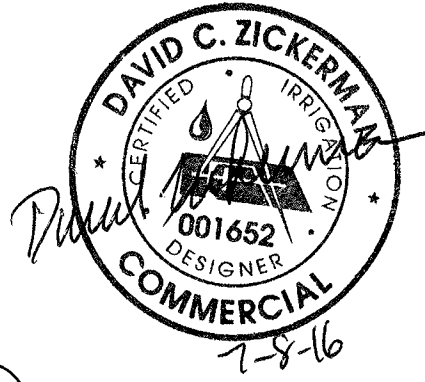
DIAMETER OF FITTINGS, NIPPLE AND TUBING SHALL EQUAL DIAMETER OF BACKFLOW PREVENTER UNLESS NOTED OTHERWISE.

6" THICK CONCRETE PAD LENGTH AS REQUIRED 30" MIN. WIDTH TOP OF SLAB TO BE 1" ABOVE FINISH GRADE



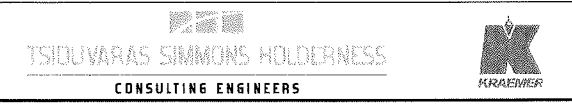
BACKFLOW PREVENTER

11



c:\v-dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | |
|------------------------|-----------------------|----------|-------|--|----------------|--------------------------------------|----------------------------|--------------------|
| Print Date: | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: | Date: | Comments | Init. | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | No Revisions: | IRRIGATION DETAILS | | IM 0252-423 |
| Horiz. Scale: As Noted | Vert. Scale: As Noted | | | | Revised: | Designer: | Structure Numbers | 19039 |
| | | | | | Void: | Detailer: | | |
| | | | | | | Sheet Subset: | Subset Sheets: IR-33 of 37 | Sheet Number 24-99 |

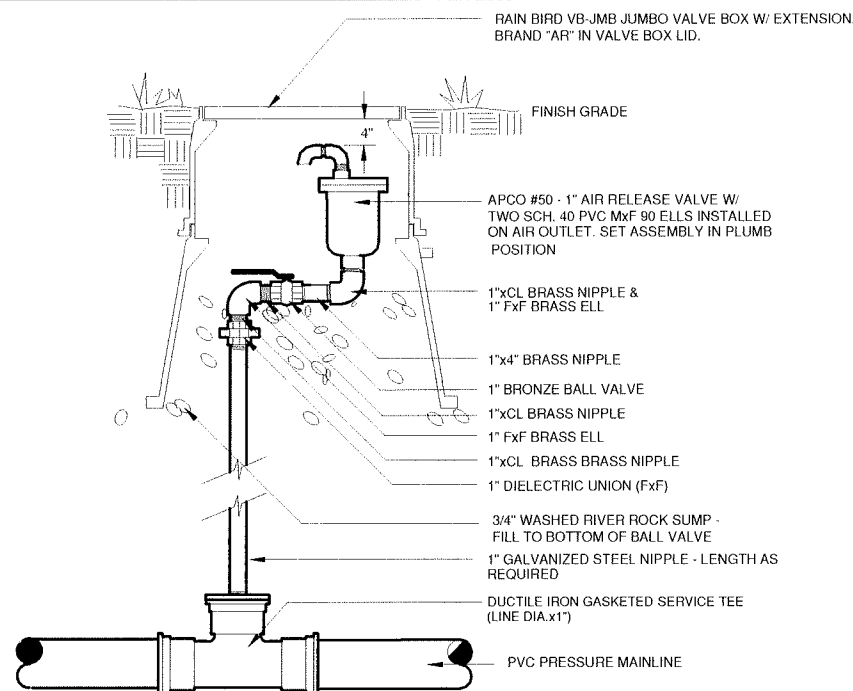


RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC



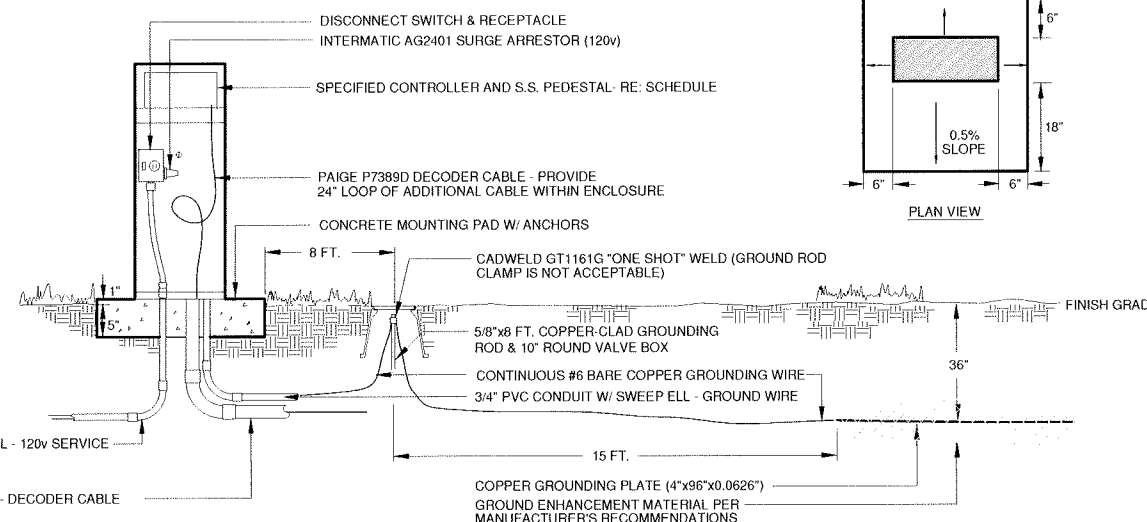
Know what's below.
Call before you dig



NOTE: AIR RELEASE ASSEMBLY SHALL REST ON GRAVEL SUMP
FIELD-LOCATE AIR RELEASE AT HIGH POINT IN MAINLINE PIPING
APPLY NON-HARDENING THREAD SEALANT CONTAINING NO
PETROLEUM DISTILLATES TO ALL MALE-THREADED FITTINGS
(SPEARS BLUE 75 OR EQUAL)

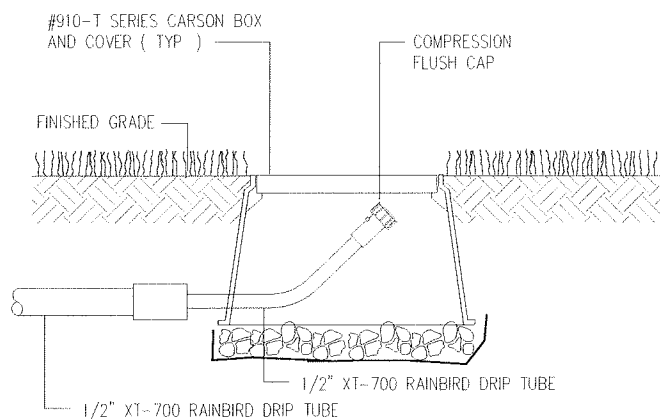
AIR RELEASE VALVE

12



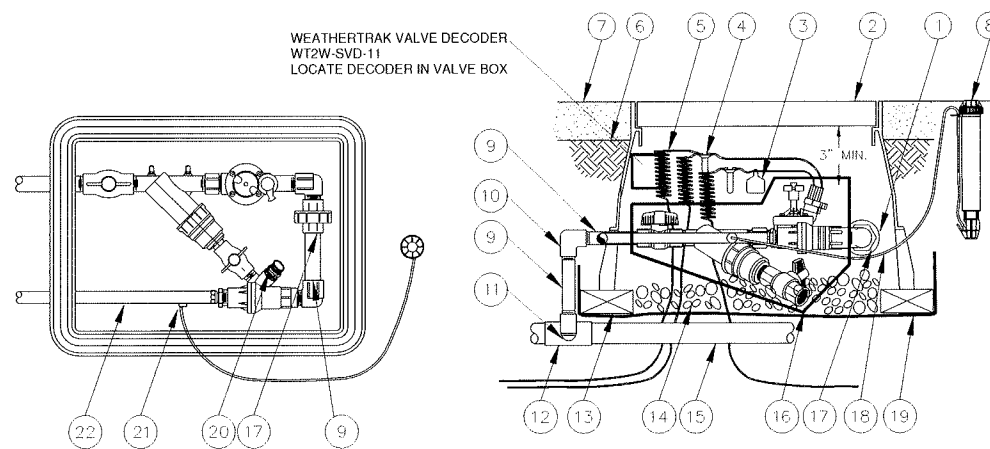
ELECTRIC CONTROLLER - TWO-WIRE SYSTEM

13



DRIP LINE BLOW-OUT STUB

14



INSTALLER TO PROVIDE A MINIMUM 1/2"x4' HOSE LENGTH WITH CONNECTOR
ATTACHED TO FLUSH ADAPTER AND COILED INSIDE VALVE BOX TO
ALLOW FOR FLUSHING TO ABOVE GROUND DISCHARGE AS REQUIRED.

DRIP VALVE ASSEMBLY - DECODER SYSTEM

15

- ① PVC SCH 80 NIPPLE (CLOSE)
- ② VALVE BOX WITH COVER: CARSON #1220 JUMBO SERIES
- ③ ID TAG: RAIN BIRD SERIES ID TAG
- ④ WATER PROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
- ⑤ 30-INCH LINEAR LENGTH OF WIRE, COILED
- ⑥ FINISH GRADE
- ⑦ TOP OF MULCH
- ⑧ MICRO SPRAY POP-UP: RAIN BIRD XP-600X WITH SHUTOFF NOZZLE PAINT ORANGE FOR ZONE INDICATOR
- ⑨ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑩ PVC SCH 40 ELL
- ⑪ PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
- ⑫ PVC SCH 40 TEE OR ELL
- ⑬ BRICK (1 OF 4)
- ⑭ 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- ⑮ PVC MAINLINE
- ⑯ CONTROL ZONE KIT: RAIN BIRD MODEL XCZ-100COM
- ⑰ PVC SCH 80 UNION FOR SERVICING ASSEMBLY
- ⑱ RAINBIRD DT-025 DISTRIBUTION TUBING
- ⑲ LANDSCAPE FABRIC WRAP
- ⑳ 3/4" BRASS MPTxHOSE TREAD ADAPTER
- ㉑ 1/4" SELF-PIERCING BARB CONNECTOR: RAIN BIRD SPB-025
- ㉒ 1/2" POLYETHYLENE TUBING: RAIN BIRD XERI-TUBE 700



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | | | |
|------------------------|-----------------|----------|-------|--|----------------|--------------------------------------|----------------------------|---------------------|
| Print Date: | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: | Date: | Comments | Init. | | | No Revisions: | IRRIGATION DETAILS | |
| Horiz. Scale: As Noted | | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 DMW | Revised: | Designer: | Structure Numbers | 19039 |
| Vert. Scale: As Noted | | | | | Void: | Detailer: | Subset Sheets: IR-34 of 37 | Sheet Number 24-100 |

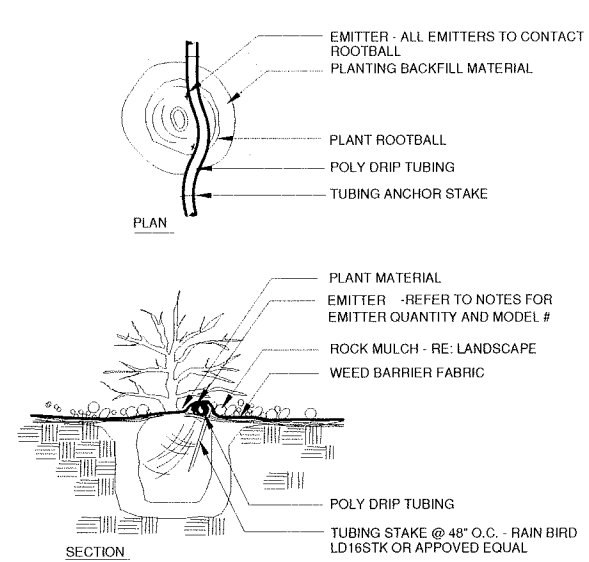


RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

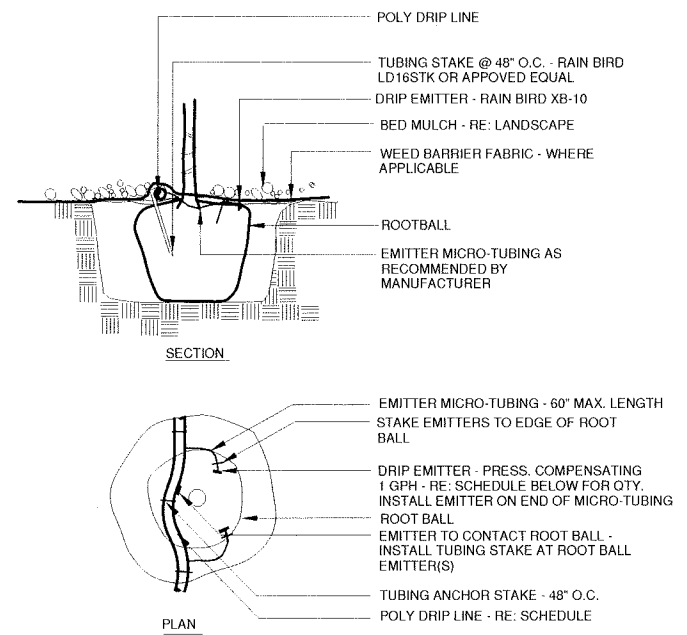


Know what's below. Call before you dig.



NOTE:
 INSTALL EMITTERS ON OPPOSING SIDES OF ROOTBALL.
 FLUSH ALL LINES THOROUGHLY PRIOR TO EMITTER INSTALLATION.
 IF PLANTING ON A 4:1 SLOPE OR GREATER, INSTALL EMITTERS ON UPHILL SIDE OF ROOTBALL.
 INSTALL TWO 1/2 GPH EMITTERS PER 5 GAL. SHRUB, ONE 1 GPH EMITTER PER 1 GAL. PLANT

SHRUB AND VINE PLANTINGS IN BED AREAS



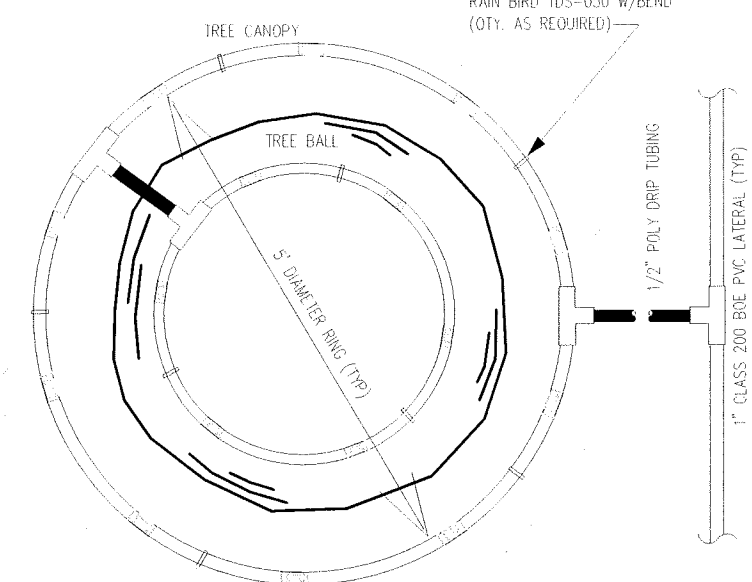
NOTE:
 INSTALL EMITTERS EQUALLY AROUND ROOTBALL. EMITTERS SHALL BE INSTALLED TO CLEAR FINISHED GRADE BY A MINIMUM OF 1" AND A MAXIMUM OF 2". FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER TUBING, PRIOR TO INSTALLING EMITTERS.
 IF PLANTING ON A 4:1 SLOPE OR GREATER, INSTALL EMITTERS ON UPHILL SIDE OF ROOTBALL.

EMITTER SCHEDULE

| | |
|------------------|----------------------|
| 1 1/2" CAL. TREE | TWO 1 GPH EMITTERS |
| 2" CAL. TREE | THREE 1 GPH EMITTERS |
| 2 1/2" CAL. TREE | THREE 1 GPH EMITTERS |
| 3" CAL. TREE | FOUR 1 GPH EMITTERS |
| 4" CAL. TREE | SIX 1 GPH EMITTERS |

TREE PLANTINGS IN BED AREAS

NOTE: BURY ALL TUBING w/2" NATIVE SOIL & MINIMUM 4" MULCH TO AID IN VANDALISM CONTROL.

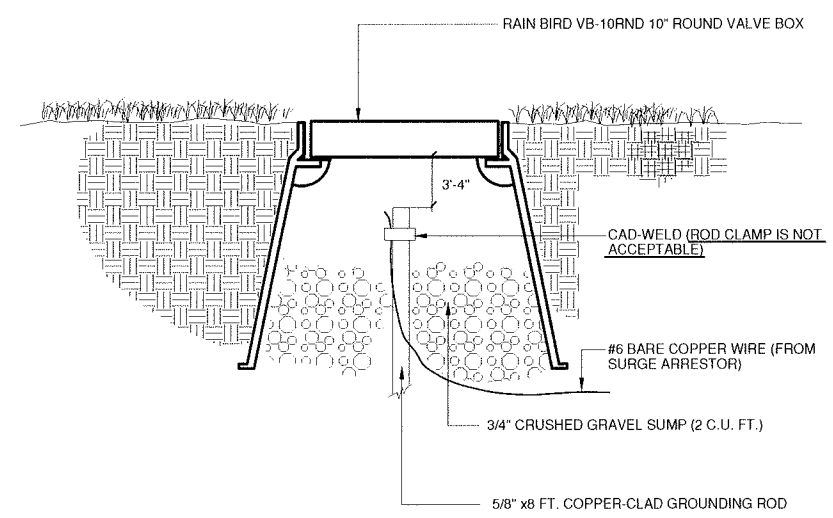


NOTE: 3" CALIPER TREES & LARGER REQUIRE DOUBLE LOOP, ALL SMALLER REQUIRE ONLY 5' DIAMETER LOOP.
NOTE: CENTER RING ON TREE TRUNK USING LDP-09-24 RAINBIRD DRIPLINE TUBING. MINIMUM OF SIX PORTS PER TREE.

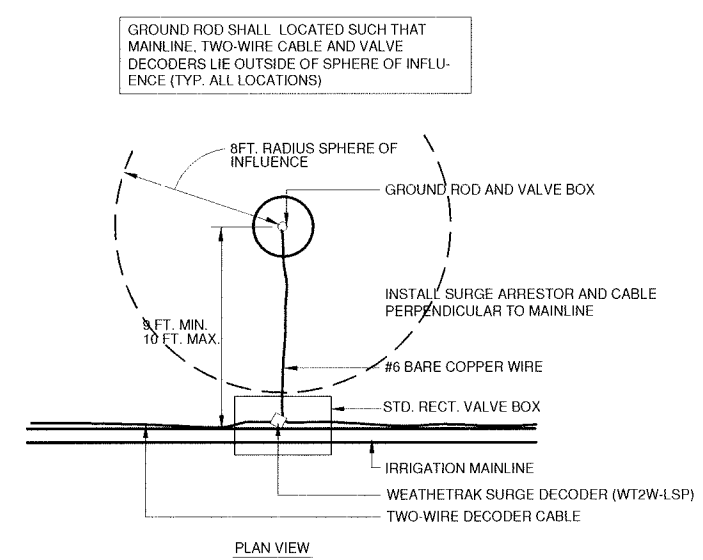
DRIP RING - TREES IN NATIVE SEED AREAS

DRIP EMITTER

16

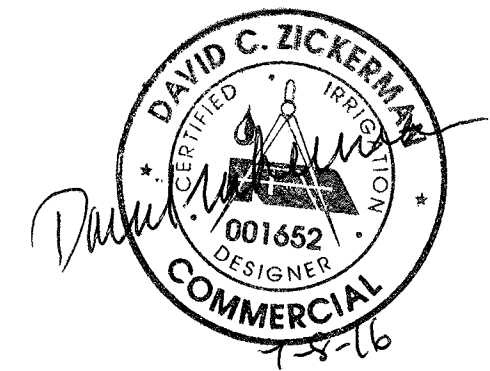


GROUND ROD SHALL BE INSTALLED AT LOCATION PERPENDICULAR TO MAINLINE. GROUND SHALL BE LOCATED 9 FT. FROM MAINLINE TRENCH
 GROUND RODS SHALL BE PLACED AT 500 FT. INTERVALS AND AT LOCATIONS SHOWN ON PLANS
 TEST EARTH TO GROUND RESISTANCE AT ALL GROUND POINTS. EARTH TO GROUND RESISTANCE MUST BE LESS THAN 50 OHMS.



TWO-WIRE SURGE ARRESTOR

18



c:\v-dwg\1-25 & cimarron\irrigation 1-28-16\irrigation plans 7-5-16.dwg

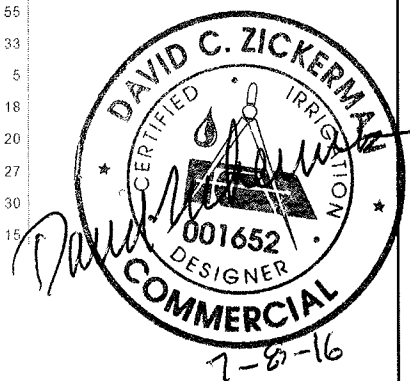
| | | | | | | | | |
|------------------------|-----------------|----------|-------|--|----------------|--------------------------------------|----------------------------|---------------------|
| Print Date: | Sheet Revisions | | | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | | Project No./Code |
| File Name: | Date: | Comments | Init. | | | No Revisions: | IRRIGATION DETAILS | |
| Horiz. Scale: As Noted | | | | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 Region 2 | Revised: | Designer: | Structure Numbers | 19039 |
| Vert. Scale: As Noted | | | | | Void: | Detailer: | Subset Sheets: IR-35 of 37 | Sheet Number 24-101 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

CONTROLLER 'A'

| ZONE NO. | PLANT TYPE | IRRIGATION DESCRIPTION | APPROX. PRECIP. RATE (IN/HR.) | APPROXIMATE FLOW RATE (GPM) | | | IRRIGATION DESCRIPTION | APPROX. PRECIP. RATE (IN/HR.) | APPROXIMATE FLOW RATE (GPM) | |
|----------|--------------|---------------------------------|-------------------------------|-----------------------------|-----|--------------|--------------------------------------|-------------------------------|-----------------------------|--|
| A1 | Native Grass | MP Rotator nozzles | 0.45 | 8 | A51 | Native Grass | MP Rotator nozzles | 0.45 | 17 | |
| A2 | Trees | Drip | | 1 | A52 | Native Grass | I-20 rotor w/ 3.5LA nozzle 180d | 0.67 | 39 | |
| A3 | Native Grass | I-20 rotor w/ 4.0 nozz 180d | 0.45 | 44 | A53 | Native Grass | I-20 rotor w/ 3.5LA nozzle 360d | 0.33 | 11 | |
| A4 | Native Grass | I-20 rotor w/ 4.0 nozz 360d | 0.28 | 8 | A54 | Native Grass | MP Rotator nozzles | 0.45 | 14 | |
| A5 | Native Grass | I-20 rotor w/ 2.5 nozzle 180d | 0.45 | 18 | A55 | Shrub Bed | Drip | | 5 | |
| A6 | Native Grass | I-20 rotor w/ 2.5 nozzle 180d | 0.45 | 13 | A56 | Trees | Drip | | 1 | |
| A7 | Native Grass | MP Rotator nozzles | 0.45 | 4 | A57 | Native Grass | MP Rotator nozzles | 0.45 | 38 | |
| A8 | Native Grass | I-25 rotor with 15 nozzle 180d | 0.98 | 70 | A58 | Native Grass | I-20 rotor w/ 6.0 nozzle 180d | 0.72 | 36 | |
| A9 | Native Grass | I-20 rotor w/ 6.0 nozzle 360d | 0.36 | 12 | A59 | Native Grass | I-20 rotor w/ 6.0 nozzle 360d | 0.36 | 18 | |
| A10 | Native Grass | I-20 rotor w/ 6.0 nozzle 180d | 0.72 | 12 | A60 | Native Grass | I-20 rotor w/ 6.0 nozzle 180d | 0.72 | 42 | |
| A11 | Shrub Bed | Drip | | 3 | A61 | Native Grass | MP Rotator nozzles | 0.45 | 21 | |
| A12 | Native Grass | I-20 rotor w/ 6.0 nozzle 180d | 0.72 | 36 | A62 | Shrub Bed | Drip | | 3 | |
| A13 | Native Grass | I-20 rotor w/ 6.0 nozzle 360d | 0.36 | 24 | A63 | Native Grass | MP Rotator nozzles | 0.45 | 48 | |
| A14 | Native Grass | I-25 rotor with 15 nozzle 360d | 0.49 | 56 | A64 | Native Grass | MP Rotator nozzles | 0.45 | 15 | |
| A15 | Trees | Drip | | 2 | A65 | Shrub Bed | Drip | | 2 | |
| A16 | Trees | Drip | | 4 | A66 | Native Grass | MP Rotator nozzles | 0.45 | 20 | |
| A17 | Native Grass | I-25 rotor with 15 nozzle 180d | 0.98 | 56 | A67 | Native Grass | MP Rotator nozzles | 0.45 | 17 | |
| A18 | Native Grass | I-25 rotor with 15 nozzle 360d | 0.49 | 70 | A68 | Shrub Bed | Drip | | 3 | |
| A19 | Native Grass | I-25 rotor with 15 nozzle 360d | 0.49 | 70 | A69 | Native Grass | MP Rotator nozzles | 0.45 | 43 | |
| A20 | Native Grass | I-20 rotor w/ 6.0 nozzle 360d | 0.36 | 30 | A70 | Trees | Drip | | 1 | |
| A21 | Native Grass | I-20 rotor w/ 6.0 nozzle 360d | 0.36 | 42 | A71 | Native Grass | I-20 rotor w/ 2.5 nozzle 180d | 0.45 | 20 | |
| A22 | Native Grass | I-20 rotor w/ 6.0 nozzle 180d | 0.72 | 42 | A72 | Native Grass | I-20 rotor w/ 2.5 nozzle 360d | 0.22 | 5 | |
| A23 | Native Grass | I-25 rotor with 15 nozzle 180d | 0.98 | 70 | A73 | Native Grass | I-20 rotor w/ 2.5 nozzle 180d | 0.45 | 10 | |
| A24 | Native Grass | I-25 rotor with 15 nozzle 180d | 0.98 | 70 | A74 | Native Grass | MP Rotator nozzles | 0.45 | 32 | |
| A25 | Native Grass | MP Rotator nozzles | 0.45 | 33 | A75 | Native Grass | MP Rotator nozzles | 0.45 | 48 | |
| A26 | Native Grass | MP Rotator nozzles | 0.45 | 14 | A76 | Native Grass | I-20 rotor w/ 3.0 nozzle 180d | 0.46 | 48 | |
| A27 | Native Grass | MP Rotator nozzles | 0.45 | 41 | A77 | Native Grass | I-20 rotor w/ 3.0 nozzle 360d | 0.23 | 24 | |
| A28 | Native Grass | I-25 rotor w/ 5 nozzle 180d | 0.55 | 20 | A78 | Trees | Drip | | 4 | |
| A29 | Native Grass | I-25 rotor w/ 5 nozzle 180d | 0.55 | 20 | A79 | Shrub Bed | Drip | | 3 | |
| A30 | Trees | Drip | | 1 | A80 | Native Grass | I-20 rotor w/ 3.5LA nozzle 180d | 0.67 | 60 | |
| A31 | Shrub Bed | Drip | | 7 | A81 | Native Grass | I-20 rotor w/ 3.5LA nozzle 360d | 0.33 | 32 | |
| A32 | Shrub Bed | Drip | | 4 | A82 | Trees | Drip | | 2 | |
| A33 | Native Grass | MP Rotator nozzles | 0.45 | 25 | A83 | Shrub Bed | Drip | | 2 | |
| A34 | Native Grass | I-20 rotor w/ 8.0 nozzle 180d | 0.92 | 40 | A84 | Native Grass | Pop-up Head w/ Toro Precision nozzle | 1.00 | 14 | |
| A35 | Native Grass | I-20 rotor w/ 8.0 nozzle 180d | 0.92 | 7 | A85 | Native Grass | I-20 rotor w/ 4.0 nozzle 180d | 0.56 | 32 | |
| A36 | Native Grass | MP Rotator nozzles | 0.45 | 8 | A86 | Native Grass | I-20 rotor w/ 4.0 nozzle 360d | 0.28 | 16 | |
| A37 | Trees | Drip | | 1 | A87 | Native Grass | I-20 rotor w/ 4.0 nozzle 180d | 0.56 | 36 | |
| A38 | Shrub Bed | Drip | | 7 | A88 | Native Grass | I-25 rotor w/ 13 nozzle 180d | 0.89 | 55 | |
| A39 | Shrub Bed | Drip | | 2 | A89 | Native Grass | I-25 rotor w/ 13 nozzle 180d | 0.89 | 55 | |
| A40 | Native Grass | MP Rotator nozzles | 0.45 | 6 | A90 | Native Grass | I-25 rotor w/ 13 nozzle 360d | 0.44 | 33 | |
| A41 | Native Grass | I-20 rotor w/ 3.0 nozzle 180d | 0.45 | 21 | A91 | Trees | Drip | | 5 | |
| A42 | Native Grass | I-20 rotor w/ 3.0 nozzle 180d | 0.45 | 12 | A92 | Native Grass | I-20 rotor w/ 2.5 nozzle 180d | 0.45 | 18 | |
| A43 | Native Grass | I-20 rotor w/ 3.0 nozzle 360d | 0.22 | 24 | A93 | Native Grass | I-20 rotor w/ 2.5 nozzle 180d | 0.45 | 20 | |
| A44 | Native Grass | I-20 rotor w/ 3.0 nozzle 180d | 0.45 | 15 | A94 | Native Grass | MP Rotator nozzles | 0.45 | 27 | |
| A45 | Trees | Drip | | 1 | A95 | Native Grass | I-20 rotor w/ 5.0 nozzle 180d | 0.63 | 30 | |
| A46 | Shrub Bed | Drip | | 2 | A96 | Native Grass | I-20 rotor w/ 5.0 nozzle 180d | 0.32 | 15 | |
| A47 | Native Grass | MP Rotator nozzles | 0.45 | 22 | | | | | | |
| A48 | Native Grass | MP Rotator nozzles | 0.45 | 34 | | | | | | |
| A49 | Native Grass | I-20 rotor w/ 3.5LA nozzle 180d | 0.67 | 28 | | | | | | |
| A50 | Native Grass | I-20 rotor w/ 3.5LA nozzle 360d | 0.33 | 7 | | | | | | |



c:\dwg\1-25 & cimarron\irrigation 1-26-16\irrigation plans 7-5-16.dwg

| | | | | | | |
|---|--|--------------------------------|--|----------------|--------------------------------------|----------------------------|
| Print Date: | | Sheet Revisions | Colorado Department of Transportation | As Constructed | I-25/CIMARRON ST (US 24) INTERCHANGE | Project No./Code |
| File Name: | | Date: Comments Init. | 1480 Quail Lake Loop, Suite A Colorado Springs, CO 80906 Phone: 719-634-2323 FAX: 719-227-3298 | No Revisions: | IRRIGATION CONTROLLER CHART | IM 0252-423 |
| Horiz. Scale: As Noted Vert. Scale: As Noted | | | Region 2 DMW | Revised: | Designer: | 19039 |
| | | | | Void: | Detailer: | Sheet Number 24-102 |
| | | | | | Sheet Subset: | Subset Sheets: IR-36 of 37 |

RFC 24 - LANDSCAPE AND IRRIGATION - 07-07-2016

RFC

EXHIBIT B – LOCAL AGENCY RESOLUTION

Colorado Springs Code Regulations

Below is a link to the City code which contains the information you requested.

http://www.sterlingcodifiers.com/codebook/index.php?book_id=855&chapter_id=62560#s740223

1.2.313: CONTRACTS:

- A. The Mayor shall have the power and duty to approve and execute, by signature, all contracts of, or on behalf of, the City, subject only to approval as to form by the City Attorney's Office in accord with section [1.2.404](#) of this article.

- B. It shall be the Mayor's duty to ensure that all City contracts are procured in compliance with the requirements of this Code and any related rules and regulations approved by City Council.

- C. The Mayor shall see that the terms and conditions imposed in favor of the City, and in the best interests of the citizens, in any contract or agreements be faithfully kept and fully performed. Upon knowledge of any violation of a contract or agreement, the Mayor shall make a report to the City Attorney.

- D. The Mayor may delegate, by administrative regulation, the Mayor's signatory authority for the approval and execution of contracts to the Mayoral appointees where the contractual matters fall within their area of responsibility. With the Mayor's prior approval, the Mayoral appointees may further delegate signatory authority for those purposes authorized by the Mayor.

- E. No City contract shall be approved or executed under this section unless and until sufficient funds have been appropriated by the City Council and are available for the contract. (Ord. 11-18)