



City of Arvada

City Council Agenda

JUNE 17, 2025

Councilmembers:

Lauren Simpson, Mayor
Randy Moorman, Mayor Pro-Tem
Shawna Ambrose, District 2
Sharon Davis, At large
Bob Fifer, District 4
John Marriott, District 3
Brad Rupert, At large

Staff Members Usually Present:

Don Wick, City Manager
Linda Haley, Deputy City Manager
Rachel Morris, City Attorney
Jacqueline Rhoades, Director of Public Works
Jessica Garner, Director of Community & Econ. Dev.
Bryan Archer, Director of Finance
Gabriella Bommer, Director of Human Resources
Ryan Stevenson, Director of Vibrant Community & Neighborhoods
Rachael Kuroiwa, Director of Communications & Engagement
Ed Brady, Chief of Police
Kristen Rush, City Clerk

Info: 720-898-7550

THIRD FLOOR CONFERENCE ROOM
EXECUTIVE SESSION
5:00 P.M.

Instructions to Negotiators, Pursuant to CRS 24-6-402(4)(e) Relating to Funding for the Arvada Center

REGULAR BUSINESS
CITY COUNCIL CHAMBERS
6:00 P.M.

1. Call to Order - 6:00 PM
2. Moment of Reflection and Pledge of Allegiance - Councilmember Fifer
3. Roll Call of Councilmembers
4. Approval of Minutes
 - A. June 3, 2025, City Council Meeting
5. Recognitions and Communications
 - A. Proclamation for Juneteenth 2025 - Presented by Councilmember Marriott
6. Presentations - None
7. Public Comment on Issues not Scheduled on Agenda - Three Minute Limit
8. New Business
 - A. Consent Agenda
 1. R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68
 2. R25-053, A Resolution Authorizing an Agreement Between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground in

an Amount not to Exceed \$565,915.00

3. R25-054, A Resolution Authorizing An Agreement Between the City of Arvada and One Technology Corporation for Goods and Services Relating to Upgrading and Supporting Arvada's Networks in an Amount Not to Exceed \$1,400,000.00

B. Resolutions

1. R25-055, A Resolution Authorizing an Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program (Presenter:Padraic Emerine, Sr. Asst. City Attorney)

C. Ordinances (First Reading)

1. CB25-013, An Ordinance Amending Section 102-32, Definitions, and Repealing and Reenacting Section 102-40, Property Owners Responsible for Charges, of Article II, Water and Sewer, of Chapter 102, Utilities, of the Arvada City Code (Public Hearing to be set for July 1, 2025 at 6:15 p.m.)

9. Unfinished Business

- A. R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.(Continued from June 3, 2025) (Presenter: Jacqueline Rhoades, Director of Infrastructure)

10. Other

11. Public Hearings - 6:15 PM

- A. CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20 (Ordinance No. 4898) (Presenter: Deirdre Oster, Civil Engineer)

12. Public Comment - Five Minute Limit

13. Reports from City Council

- A. Council Committee Reports

14. Reports from City Manager

- A. Review of Future Workshops and Presentations

15. Reports from City Attorney

16. Adjournment



**SUMMARY OF MINUTES OF THE MEETING OF THE ARVADA CITY COUNCIL HELD
JUNE 3, 2025**

1. Executive Session – 5:00 p.m.
Legal Advice, Pursuant to CRS 24-6-402(4)(b) Related to Negotiations with Union Pacific Railroad and the West 72nd PUC Application

Councilmember Davis moved to go into executive session for Legal Advice, Pursuant to CRS 24-6-402(4)(b) Related to Negotiations with Union Pacific Railroad and the West 72nd PUC Application

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

1. Call to Order - 6:00 p.m.
2. Moment of Reflection and Pledge of Allegiance
3. Roll Call of Councilmembers

Those Present: Mayor Lauren Simpson, Councilmember Shawna Ambrose, Councilmember Sharon Davis, Councilmember John Marriott, Councilmember Brad Rupert

Councilmember Davis moved to excuse Mayor Pro Tem Moorman and Councilmember Fifer from the meeting.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

Also Present: Don Wick, City Manager, Rachel Morris, City Attorney; Linda Haley, Deputy City Manager; Bryan Archer, Director of Finance; Jessica Garner, Director of Community and Economic Development; Ryan Stevenson, Director of Vibrant Communities and Neighborhoods, Candice Svoboda, Assistant to the City Manager, and Kristen Rush, City Clerk.

4. Approval of Minutes – May 20, 2025, City Council Meetings

The minutes stand approved.

5. Recognition and Communication –
 - A. Proclamation for National Gun Violence Awareness Day - Presented by Councilmember Davis

Councilmember Davis read the proclamation and said that City Council designates June 6, 2025

as National Gun Violence Awareness Day.

Kia Ruiz and Bradford St. Matthew, representing the organizations of Be SMART, Moms Demand Action, Team Enough, and Brady United, were present to accept the proclamation. Teenagers from A-West with Team Enough were also present.

B. Proclamation for Pride Month - Presented by Councilmember Rupert

Councilmember Rupert read the proclamation and said that City Council designates June 2025 as Pride Month.

Vee Duran, Apex Park & Recreation District, was present to accept the proclamation, along with Katie Groke, Hillary Roemersberger, Monica Bowser, and Jeff Glenn.

6. Presentations - None

7. Public Comment –

- A. Anthony Supera, Arvada resident, addressed council regarding HB1313 and HB24-1304 lawsuit.
- B. Karen DeAgüero, Arvada resident, addressed council regarding HB1313 and HB24-1304 lawsuit.
- C. Gina Hallisay, Arvada resident, addressed council regarding HB1313 and HB24-1304 lawsuit.
- D. Claudia Muller, Arvada resident, addressed council regarding transit-oriented communities and minimum parking restrictions.
- E. Nathan Sloat, Arvada resident, addressed council regarding HB1313 and HB24-1304 lawsuit.
- F. Rajmatie Hardial, Co-Chair of the Arvada Harvest Festival Parade, addressed council regarding the Harvest Festival Parade.
- G. Ed Tomlinson, Arvada resident, addressed council regarding the Harvest Festival Parade.
- H. Mike Rawluk, Golden resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.
- I. Tony Rawluk, Arvada resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.
- J. Mindy Mohr, Arvada resident, addressed council regarding homelessness and the severe weather shelter network.
- K. Alex Pray, Arvada resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.
- L. Mike Schweitzer, Arvada resident, addressed council regarding HB24-1313 lawsuit.
- M. Harrison Wilterdink, Arvada resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.
- N. Karen Gerbash, Arvada resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.
- O. Alma Carrillo, Representing Congresswoman Petterson's Office gave a Federal Update.
- P. Natalie Menten, Lakewood resident, addressed council regarding HB24-1313 and HB24-1304.
- Q. Jim Morgan, Arvada resident, addressed council regarding Home Rule.
- R. Linda Martin, Arvada resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.

- S. Mike Griffith, Arvada resident, addressed council regarding HB24-1313 and HB24-1304 lawsuit.

8. New Business

A. Consent Agenda –

- 1. R25-050 A Resolution Authorizing an Employment Agreement Between the City of Arvada and Michelle Prince-Bowen Appointing Her as a Municipal Court Relief Judge for 2025

Councilmember Davis moved that R25-050, A Resolution Authorizing an Employment Agreement Between the City of Arvada and Michelle Prince-Bowen Appointing Her as a Municipal Court Relief Judge for 2025, be approved.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

Following the adoption of the resolution, Judge Kurtz swore in Michelle Prince-Bowen and Jenness Ivie as relief judges.

B. Resolutions –

- 1. R25-051 A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.

Jacqueline Rhoades, Director of Infrastructure, reviewed this resolution with council.

Councilmember Davis moved that R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees, be continued to June 17, 2025.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Davis, Marriott, Rupert

Those voting No: Ambrose

Those Absent: Moorman, Fifer

The Motion was Approved

C. Ordinances (First Reading) -

- 1. CB25-012 An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other

Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20 (Public Hearing to be set for June 17, 2025 at 6:15 p.m.)

Councilmember Davis moved that CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20, be approved on first reading, ordered published in full and a public hearing set for June 17, 2025, at 6:15 p.m.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Moorman, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

9. Other –

A. Appointments to Boards and Commissions

Arts and Culture Commission:

Councilmember Ambrose moved to appoint Jeffrey Colebank to an unexpired term ending April 30, 2027.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

Housing Advisory Committee:

Councilmember Ambrose moved to appoint Jake Victor to an unexpired term ending April 30, 2027.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

Councilmember Ambrose moved to appoint Peter Kazura to an unexpired term ending April 30, 2027.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

10. Public Hearings –

- A. CB25-011 An Ordinance Revising the City of Arvada Policy for the Adoption of Intergovernmental Agreements (Ordinance No. 4897)

Mayor Simpson opened the public hearing on CB25-011

Aaron Jacks, Senior Assistant City Attorney, reviewed this ordinance with council.

Testimony: Lynn Clemmens, Arvada resident, against the issue
Mike Rawluk, Golden resident, against the issue
Donna Reyman, Arvada resident, did not speak, for the issue
Linda Martin, Arvada resident, did not speak, for the issue

Councilmember Ambrose moved that CB25-011, An Ordinance Revising the City of Arvada Policy for the Adoption of Intergovernmental Agreements, be approved on final reading, numbered 4897 and ordered published in full.

The following votes were cast on the Motion:

Those voting Yes: Simpson, Ambrose, Davis, Marriott, Rupert

Those Absent: Moorman, Fifer

The Motion was Approved

12. Public Comment - Five Minute Limit –

A. Gina Hallisay, Arvada resident, addressed council regarding the consent agenda.

13. City Council Reports –

A. Councilmember Ambrose discussed the Spring Forum on Homelessness held on May 29.

B. Councilmember Ambrose said she is suspending the meet and greets for the summer but to feel free to reach out to her any time if they have an issue.

C. Mayor Simpson reminded everyone of the bulk drop off on Saturday.

D. Mayor Simpson said that there are a couple of big festivals this weekend, the first is Summerfest in Olde Town and the first ever Arvada Pow Wow at the Arvada Center in the Sculpture Garden.

14. City Manager Reports –

A. Don Wick, City Manager, reviewed the upcoming workshop schedule.

15. City Attorney Reports – None

16. Adjournment at 8:20 p.m.

Lauren Simpson, Mayor

SEAL:

Kristen R. Rush, City Clerk



REPORT TO CITY COUNCIL

AGENDA ITEM
5.A.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: Proclamation for Juneteenth 2025 - Presented by Councilmember Fifer

Report in Brief

City Council will proclaim June 19, 2025 as Juneteenth in Arvada..

Staff from the Jefferson County Libraries will be present to accept the proclamation.

Prepared by:
Chris Koch, CCO Admin

Reviewed by:
Toni Riebschlager, Law Office Administrator 5/27/2025
Laura Hemler, Assistant City Attorney 5/27/2025

Approved by:

Rachel Morris, City Attorney 5/27/2025

Linda Haley, Deputy City Manager 5/27/2025

Enclosure, exhibits & attachments required to support the report

WHEREAS, Juneteenth, observed each year on June 19, marks the end of slavery in the United States; and

WHEREAS, Juneteenth serves as a day of reflection, remembrance, and celebration of African American history, culture, and contributions to our communities and country; and

WHEREAS, Jefferson County Public Library plays a vital role in fostering education, inclusion, and community dialogue by offering programs, resources, and events that highlight the significance of Juneteenth and African American heritage; and

WHEREAS, the City of Arvada recognizes and appreciates organizations like Jefferson County Public Library for their commitment to fostering inclusivity, promoting understanding, and engaging the community in meaningful conversations that strengthen unity and respect for all individuals.

NOW, THEREFORE, BE IT PROCLAIMED that the Mayor and the Arvada City Council hereby designate June 19, 2025, as Juneteenth in the City of Arvada and commends Jefferson County Public Libraries for their exemplary work in encouraging learning and promoting a stronger, more united community where all people are welcomed and valued.

Dated this 17th day of June, 2025.

Lauren Simpson, Mayor

Randy Moorman, Mayor Pro Tem

Shawna Ambrose, Councilmember

Sharon Davis, Councilmember

Bob Fifer, Councilmember

John Marriott, Councilmember

Brad Rupert, Councilmember



REPORT TO CITY COUNCIL

AGENDA ITEM
8.A.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: Consent Agenda

Report in Brief

1. R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68

2. R25-053, A Resolution Authorizing an Agreement Between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground in an Amount not to Exceed \$565,915.00

3. R25-054, A Resolution Authorizing An Agreement Between the City of Arvada and One Technology Corporation for Goods and Services Relating to Upgrading and Supporting Arvada's Networks in an Amount Not to Exceed \$1,400,000.00

Motion: Moved by: _____ I move that the Consent Item(s), Number(s) _____ be
(Removed from the Consent Agenda and Heard Upon Item _____) (Referred to a Workshop) (Postponed Indefinitely).

YES _____ NO _____ ABSENT _____

That All/Remaining Consent Items be (Approved) (Rejected).

YES _____ NO _____ ABSENT _____

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Enclosure, exhibits & attachments required to support the report



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.A.1.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68

Report in Brief

PRESENTER: Sam Rogers, Civil Engineer IV

Council action is requested on the attached resolution authorizing an agreement with NexCivil Engineering and Construction, LLC in the amount of \$598,924.68. This annual CIP/Maintenance project involves installing new storm drainage improvements and replacing deteriorated drainage facilities at various locations around the City as shown on the attached map.

Staff recommends that the City Council approve R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68.

Financial Impact

Financial impact: One-time request of \$598,924.68

Funding Source: Stormwater Enterprise Fund - UT Flood Plain

Project Type: CIP - 2024 Drainage Improvements Project, Project #PRJ24099506 (current balance \$734,841.18)

Background

Construction of the 2024 Drainage Improvements, Project No. 24-DR-20, will address local drainage issues at nine (9) locations around the City, including replacement and installation of over 700 ft of storm pipe, 80 ft of open channel stabilization, and over 300 square yards of surface drainage improvements.

Bids for this project were opened at 2:00 pm on April 30, 2025 and a total of six bids were received. Detailed bid tabulations are attached, and the bids are summarized as follows:

1. \$598,924.68 NexCivil Engineering and Construction, Aurora
2. \$977,166.00 Essential Contractors, Inc., Aurora
3. \$1,111,678.25 Denver Dirt Works, Parker
4. \$1,205,148.00 Diamond Contracting Corp, Arvada
5. \$1,617,197.00 Brannan Construction Company, Denver
6. \$1,622,436.00 Apex Underground, Arvada

The consulting engineer's estimate was \$667,549.00

Discussion

NexCivil Engineering and Construction is a relatively new firm based out of Aurora with employees that previously worked for larger, well-known construction companies. They have completed successful projects with the City of Brighton, City of Aurora, and the Denver International Airport. This work is expected to take 120 days to complete, with a construction completion date anticipated in October 2025.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

N/A

Strategic Alignment

The Utility Department has a performance measure to update and improve the City storm drainage system and this action also aligns with the City Council Strategic Plan Priority Area of Infrastructure.

Alternative Courses of Action

N/A

Recommendation for Action

Staff recommends that the City Council approve R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68.

Suggested Motion:

I move that R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68, be (approved) (rejected).

Prepared by:
Melanie Walter, Engineering Manager

Reviewed by:

Approved by:

Claudia Vaughan, City Engineer	5/14/2025
Jacqueline Rhoades, Director of Infrastructure	5/29/2025
Bryan Archer, Director of Finance	5/29/2025
Tammy Hedlund, Legal Specialist	5/30/2025
Kelsy Sargent, Assistant City Attorney	5/30/2025
Megan McCall, Assistant City Attorney II	5/30/2025
Rachel Morris, City Attorney	6/3/2025
Linda Haley, Deputy City Manager	6/3/2025
Don Wick, City Manager	6/3/2025

Enclosure, exhibits & attachments required to support the report

SUBJECT: R25-052, A Resolution Authorizing an Agreement by and between the City of Arvada and NexCivil Engineering and Construction LLC for 2024 Drainage Improvements, CSB 25-ENG-031, in an Amount Not to Exceed \$598,924.68

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ITEM: 8.A.1.

RESOLUTION NO. R25-052

A RESOLUTION AUTHORIZING AN AGREEMENT BY AND BETWEEN THE CITY OF
ARVADA AND NEXCIVIL ENGINEERING AND CONSTRUCTION LLC FOR 2024
DRAINAGE IMPROVEMENTS, CSB 25-ENG-031, IN AN AMOUNT NOT TO EXCEED
\$598,924.68

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, an Agreement that is in substantially the same form as that attached hereto.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 17th day of June, 2025.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

**AN AGREEMENT BY AND BETWEEN THE CITY OF ARVADA AND
NEXCIVIL ENGINEERING AND CONSTRUCTION LLC FOR 2024
DRAINAGE IMPROVEMENTS, CSB 25-ENG-031, IN AN AMOUNT NOT TO
EXCEED \$598,924.68**

This Agreement made this ____ day of _____, 2025, by and between the City of Arvada, a home rule municipal corporation (“Arvada” or “City”) and NexCivil Engineering and Construction LLC, a Colorado corporation (“Contractor”). The Parties may be individually referred to as the “**Party**” and jointly referred to as the “**Parties**”.

WITNESSETH: That for and in consideration of the covenants, promises, and payments hereinafter mentioned:

WITNESSETH:

WHEREAS, Arvada solicited proposals from interested construction professionals for the provision of construction services for 2024 Drainage Improvements, CSB 25-ENG-031, involving drainage improvements at nine sites in the City as described in the Contract Documents (the “Project” or the “Work”); and

WHEREAS, based on Contractor’s submissions, Arvada has selected Contractor for the Project; and

WHEREAS, Arvada and Contractor desire to enter into this Agreement regarding the construction of the Project.

NOW, THEREFORE, for and in consideration of the covenants, promises, and payments hereinafter mentioned, the parties agree as follows:

ARTICLE 1. GENERAL DESCRIPTION OF SERVICES.

- 1.1. **The Services.** Contractor agrees to furnish or arrange for the construction services set forth in the Contract Documents and required for the completion of the Project within the timeframe provided in the Contract Documents. Contractor represents that it is thoroughly familiar with, and understands, the requirements of the Project’s scope and is experienced in the construction of projects of the type and scope contemplated by the Contract Documents. Contractor represents to Arvada that Contractor has all necessary education, skill, knowledge, expertise, and experience required for construction of the Project, and will maintain, at all times during the term of this Agreement, such personnel on its staff to provide the services contemplated hereby within the time periods required hereby. In addition, Contractor represents that it or Arvada-approved subcontractors or subconsultants performing services under this Agreement have all applicable licenses required by the State of Colorado to perform such services and all required insurance coverage as required by this Agreement and by law.

- 1.2. **Cooperation.** The Contractor shall endeavor to develop, implement and maintain, a spirit of cooperation, collegiality, and open communication with Arvada, Arvada’s Consultants, and Arvada’s residents so that the goals and objectives of each are clearly understood, potential problems are resolved promptly, and, upon completion, the Project is deemed a success by all interested parties.
- 1.3. **Preparation/Sufficiency of Site.** Before commencing the Project, the Contractor shall (i) visit and thoroughly inspect the Project Site and any structure(s) or other man-made features to be modified and become familiar with local conditions under which the Project will be constructed and operated; (ii) familiarize itself with the survey, including the location of all existing buildings, utilities, conditions, streets, equipment, components and other attributes having or likely to have an impact on the Project; (iii) familiarize itself with Arvada’s engineering and design requirements, design objectives, and budget for the Project; (iv) familiarize itself with pertinent Project dates and programming needs, including the Project schedule; (v) review and analyze all Project geotechnical, environmental, and construction materials tests, investigations, and recommendations; (vi) review all specifications; and (vii) gather any other information necessary for a thorough understanding of the Project. Claims by Contractor resulting from Contractor’s failure to familiarize itself with the Site or pertinent documents shall be deemed waived.
- 1.4. **Contract Documents.** The Contract Documents shall consist of this Agreement, together with the following documents:
- 1.4.1. Arvada’s solicitation entitled CSB 25-ENG-031 2024 Drainage Improvements, including the Advertisement for Bids, all terms and conditions, insurance requirements, special provisions, forms, exhibits, and addenda (“CSB 25-ENG-031”);
 - 1.4.2. Contractor’s Response to Arvada’s solicitation CSB 25-ENG-031 including Contractor’s Bid Proposal, Bid Schedule, and Bid Bond (“Contractor’s Response”);
 - 1.4.3. Notice of Award;
 - 1.4.4. Performance and Payment Bond;
 - 1.4.5. Notice(s) to Proceed;
 - 1.4.6. Change Orders (if any);
 - 1.4.7. City of Arvada Engineering Code of Standards and Specifications dated October 2, 2023;
 - 1.4.8. Requests for Information and Responses (if any); and
 - 1.4.9. All supplementary requirements regarding wage rates, E.E.O., affirmative action, and all other Federal, state, or local requirements as outlined in the specifications (if applicable).
- 1.5. **Interpretation of Contract Documents.** In the event of conflicts or discrepancies among the Contract Documents, the documents shall govern in the following order: (1) this Agreement; (2) Arvada’s solicitation CSB 25-ENG-031; (3) City of Arvada Engineering Code of Standards and Specifications dated October 2, 2023; (4) Contractor’s Response; (5) Change Orders; (6) Requests for Information and Response. Except as set forth in this section 1.5., in the event of any dispute or differences between the respective documents

that constitute the Contract Documents, Contractor shall secure written instructions from Arvada before proceeding with the performance of services affected by such conflicts, omissions, or discrepancies.

ARTICLE 2. ARVADA’S DUTIES, OBLIGATIONS AND RESPONSIBILITIES.

- 2.1. **Project Information.** Contractor acknowledges that Arvada has provided Contractor with information regarding Arvada’s requirements for the Project as set forth in the Contract Documents, including Project Specifications.
- 2.2. **Arvada’s Budget.** Arvada has established, and will update, an overall budget for the Project, including amounts allocated for construction, Arvada’s other costs, and reasonable contingencies related to these costs as appropriate.
- 2.3. **Arvada’s Representative.** Arvada will designate a representative authorized to act on Arvada’s behalf with respect to the Project.
- 2.4. **Purpose of Arvada’s Review.** Arvada’s review, inspection, or approval of any work, Testing Documents, Applications for Payment, or other submittals shall be solely for the purpose of determining whether the same are generally consistent with Arvada’s standards, policies, and requirements. No review, inspection, or approval by Arvada of such work or documents shall relieve Contractor of its responsibility for the performance of its obligations under this Agreement or the accuracy, adequacy, fitness, suitability, or coordination of its construction services. Approval by any governmental or other regulatory agency or other governing body of any work, Testing Document, or the Contract Documents shall not relieve Contractor of responsibility for the performance of its obligations under this Agreement. Payment by Arvada pursuant to this Agreement shall not constitute waiver of any of Arvada’s rights under this Agreement or at law, and Contractor expressly accepts the risk that defects in its performance, if any, may not be discovered until after payment, including final payment, is made by Arvada. Notwithstanding the foregoing, reasonable notice shall be given by Arvada to the Contractor if Arvada becomes aware of any fault or defect in the Project or non-conformance with the Contract Documents.

ARTICLE 3. CONSTRUCTION SERVICES REQUIREMENTS AND STANDARDS.

- 3.1. **Quality of Construction Services.** Contractor shall be responsible for the quality, completeness, accuracy, and coordination of the Work. Contractor shall provide construction services that meet all industry standards, including all environmental and regulatory requirements. Arvada will provide and be responsible for all material testing and all other testing if needed.
- 3.2. **Arvada’s Right to Carry Out the Work.** If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven calendar day period after written notice from Arvada to commence and continue correction of such default or neglect with diligence and promptness, Arvada may after such seven-day period, without prejudice to other remedies Arvada may have, correct such deficiencies. In such

a case, an appropriate Change Order shall be issued deducting from payments then or thereafter due to the Contractor the cost of correcting such deficiencies, including compensation for any consultant's additional services and expenses made necessary by such default, neglect, or failure. If payments then or thereafter due to the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to Arvada within ten calendar days of receipt of an invoice for such amounts from Arvada.

- 3.3. **Legal Standard.** Contractor shall furnish construction services in accordance with industry standards currently practiced by construction professionals on projects similar in size, complexity, and cost to the Project.
- 3.4. **Construction Standards.** Contractor shall perform all services in accordance with requirements of governmental agencies having jurisdiction over the Project, City of Arvada Engineering Code of Standards and Specifications dated October 2, 2023, and the requirements set forth in the Contract Documents. In addition, the Contractor's work shall comply with all applicable building codes, accessibility laws and regulations, environmental regulations, and other applicable legal requirements in effect at the time of the work. To the extent Arvada's standards exceed applicable legal requirements, Arvada's standards shall be met unless Contractor obtains a variance from Arvada in writing.
- 3.5. **Permits.** Contractor shall be responsible for obtaining all necessary permits and other governmental approvals necessary for the development of the Project and shall obtain the same at the times necessary to meet the Project schedule. Contractor's responsibility includes providing environmental services and permitting coordination as further described in the Contract Documents.
- 3.6. **Notice of Non-Compliance.** Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Arvada, and shall at once report to Arvada any errors, inconsistencies, or omissions discovered as well as any foreseeable constructability issues arising from the project specifications, site conditions, or both. If the Contractor performs any construction activity and knows or should have known it involves an error, inconsistent, omission, or constructability issue in the Contract Documents without such notice to Arvada, the Contractor shall assume full responsibility for such performance and shall bear the full costs for correction, including reimbursement, for any delay caused to the Project.
- 3.7. **Pre-Construction Meetings.** Contractor agrees to assist in the preparation for and to participate in any pre-construction meetings with Arvada.

ARTICLE 4. CHANGES TO THE WORK.

- 4.1. **Field Orders.** An authorized representative of the Contractor shall acknowledge receipt of Field Orders by promptly signing all written field orders delivered to the job site. Verbal field orders given by Arvada will be recorded in writing in the municipal inspector's daily report that is to be signed by the Contractor's authorized representative.

- 4.2. **Field Engineered Changes.** Arvada may modify the construction plans including changing the slope and alignment of flow lines and appurtenances or modifying other improvements as necessary to accommodate construction around existing utilities or other field conditions. No additional compensation shall be made for minor costs and inconveniences incurred while performing field engineering changes as directed by Arvada or its Consultant. No additional compensation shall be made for any down time encountered while Arvada determines what field engineered changes would be appropriate to accommodate construction around existing utilities or other field conditions. Reasonable time must be allowed for Arvada or its Consultant to design field engineered changes. Any additional costs for performing field engineered construction changes to accommodate existing utilities or other field conditions and for also allowing Arvada reasonable time to design field engineered changes as necessary to complete the work shall be considered a subsidiary obligation of the contract.
- 4.3. **Arvada Change Orders.** Arvada may, by written order signed by Arvada, at any time, and without notice to any surety, and subject to all appropriate adjustments, make changes within the general scope of the Contract Documents in any one or more of the following: (a) changes in scope of services; (b) completion date; (c) contract amount; (d) any applicable material modifications; and (e) any other matters that the parties deem necessary.
- 4.4. **Contractor Requested Change Orders.** The Contractor may request a Change in the Work ("Requested Change Order"), including one or more of the following: (a) changes in scope of services; (b) completion date; (c) contract amount; (d) any applicable material modifications; and (e) any other matters that the parties deem necessary.
- 4.5. **Change Order Contents.** Any Requested Change Order shall include (a) a detailed description of the requested change to the original contract; (b) itemized documentation of any subcontractor costs; (c) the total costs associated with the proposed change; (d) the impact on the project completion date, if any, associated with the proposed change; and (e) a statement of the contractual basis for the requested change.
- 4.6. **Basis for Change Order Requests.** The following may be considered a valid basis for requesting a Change Order: (a) Contract Document error or omission; (b) Arvada induced enhancement; (c) unforeseeable constructability issue; and (d) unforeseeable geotechnical issue. The following will not be considered a valid basis for requesting a Change Order absent extraordinary circumstances: (a) utility relocation; (b) utility conflicts; (c) foreseeable geotechnical issue; (d) foreseeable constructability issue; and (e) defective construction.
- 4.7. **Written Authorization Required.** The Contractor shall not proceed with any change in the Work without the appropriate written authorization.

ARTICLE 5. SUPERVISION AND CONSTRUCTION PROCEDURES.

- 5.1. **Supervision.** The Contractor shall supervise and direct the Work using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work under this Agreement, unless Contract Documents give other specific instructions concerning these matters.
- 5.2. **Acts and Omissions of Subcontractors and Agents.** The Contractor shall be responsible to Arvada for acts and omission of the Contractor's employees, Subcontractors, and their agents and employees, and other persons performing portions of the Work under a contract with the Contractor.
- 5.3. **Inspection and Subsequent Work.** The Contractor shall be responsible for inspection of portions of Work already performed under this Agreement to determine that such portions are in proper condition to receive subsequent Work.

ARTICLE 6. COMPENSATION.

- 6.1. **Completion of Services.** Contractor will furnish all material, supplies, tools, equipment, labor, and other services necessary for the completion of the Work within Arvada's timeframe and monetary limitations set forth below:
 - 6.1.1. Contractor shall commence the Work required by the Contract Documents within seven calendar days after the date of the Notice to Proceed unless otherwise mutually agreed-upon by the Parties in writing;
 - 6.1.2. Contractor shall complete the Work required by the Contract Documents within one hundred twenty consecutive calendar days after the date specified for commencement of the Work in the Notice to Proceed, unless the period for completion is extended otherwise by the Contract Documents; and
 - 6.1.3. Compensation Amount. Contractor agrees to perform the Work for an amount not to exceed **\$598,924.68.**
- 6.2. **Term.** The term of this Agreement shall be from Arvada's execution of this Agreement until the Work is complete or until December 31, 2025, whichever occurs sooner, unless otherwise agreed to in writing by the parties, subject to availability of funds, or Arvada's termination for convenience under the Contract Documents.
- 6.3. **Additional Services.** While Arvada has listed its major requirements for its solicitation in the Contract Documents, Arvada may, during the term of this Agreement, wish to purchase other related services identified and offered by Contractor, based upon the Bid Schedule amounts contained in Contract Documents. Arvada reserves the right to award these ancillary items to Contractor. This option, if exercised, in no way obligates Arvada to pursue additional services with Contractor.

- 6.4. **Payment for Services.** At least twenty (20) calendar days before the date established for each monthly progress payment, the Contractor shall submit to Arvada an itemized Application for Payment for construction completed in accordance with the Bid Schedule. Such application shall be supported by such data substantiating the Contractor's right to payment as Arvada may require, such as copies of invoices or requisitions from subcontractors and material suppliers and reflecting retainage. Arvada shall pay NET 30 days for services performed in accordance with the Bid Schedule and with this Agreement, but in no event shall the total Contract Amount exceed **\$598,924.68** absent a properly executed Change Order. Measurement of the work performed and monthly payment shall be made in accordance with requirements of the Measurement and Payment Section in the Contract Documents unless otherwise specifically provided herein.
- 6.5. **Non-Conforming Materials or Construction.** Where materials installed or the finished product fails to meet minimum requirements of the Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the current revised Section 105.03 of the Colorado Department of Transportation Standard Specifications.
- 6.6. **Retainage Requirements.** Contractor agrees to submit monthly invoices together with any retainage requirements as prescribed by Colorado state statutes (*see e.g.*, C.R.S. § 24-91-101 *et seq*). Payment from Arvada will be paid NET 30 days. Invoices will accurately reflect actual work completed by Contractor and its subconsultants or subcontractors.

ARTICLE 7. MISCELLANEOUS.

- 7.1. **Waiver.** No provision of this Agreement may be waived except by written agreement of the Parties. A waiver of any provision on one occasion shall not be deemed a waiver of that provision on any subsequent occasion, unless specifically stated in writing. A waiver of any provision shall not affect or alter the remaining provisions of this Agreement.
- 7.2. **Strict Compliance.** No failure of Arvada to insist upon strict compliance by the Contractor with any provision of the Contract Documents shall operate to release, discharge, modify, change, or affect any of the Contractor's obligations.
- 7.3. **Successors and Assigns.** Arvada and Contractor, respectively, bind themselves, their partners, successors, assigns, and legal representatives to the other Party to this Agreement and to the partners, successors, and assigns of such other Parties with respect to all covenants of this Agreement. Contractor shall not assign (whether partially or wholly) this Agreement whether by operation of law or otherwise, without the written consent of Arvada. If Contractor makes an assignment in accordance with this provision, Contractor shall nevertheless remain legally responsible for all obligations arising under this Agreement, unless otherwise agreed in writing by Arvada.
- 7.4. **Additional Documents.** The parties agree to execute any additional documents and to take any additional action that is necessary to carry out this Agreement.

- 7.5. **Binding Effect.** This Agreement shall inure to the benefit of, and be binding upon, the Parties, their respective legal representatives, successors, heirs, and assigns; provided, however, that nothing in this paragraph shall be construed to permit the assignment of this Agreement except as otherwise expressly authorized herein. All provisions of this Agreement which contain continuing obligations shall survive its expiration or termination.
- 7.6. **Paragraph Captions.** The paragraph captions in this Agreement are set forth only for the convenience and reference of the Parties and are not intended in any way to define, limit, or describe the scope or intent of this Agreement.
- 7.7. **Integration, Amendment, and Severability.** This Agreement represents the entire agreement between the Parties, and there are no oral or collateral agreements or understandings. This Agreement may be amended only by an instrument in writing signed by the Parties. If any other provision of this Agreement is held invalid or unenforceable, no other provision shall be affected by such holding, and all of the remaining provisions of this Agreement shall continue in full force and effect if the essential terms and conditions of this Agreement for both parties remain valid, legal, and enforceable.
- 7.8. **Notices.** Any notice or notification required or permitted by this Agreement shall be in writing and shall be deemed to have been sufficiently given for all purposes if sent electronically, or by certified mail or registered mail, postage and fees prepaid, addressed to the Party to whom such notice is to be given at the address set forth on the signature page below, or at such other address as has been previously furnished in writing, to the other party or parties. Such notice or notification shall be deemed to have been given when electronically sent or when deposited in the United States mail.
- 7.9. **Binding Authority.** Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation. This Agreement may be executed in counterpart(s), each of which shall be deemed to be an original, and all of which, taken together, shall constitute one instrument.
- 7.10. **Preferences in Employment of Colorado Labor.** To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:
- 7.10.1. Colorado labor shall be employed to perform eighty percent (80%) of the work.
- 7.10.2. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.
- 7.11. **No Third-Party Beneficiaries.** The Parties understand and agree that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such

enforcement, shall be strictly reserved to the Parties, and nothing contained in this Agreement shall give or allow any such claim or right of action to any other third party on this Agreement. It is the intention of the Parties that any person other than the Parties receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

IN WITNESS WHEREOF, the Parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement which shall be deemed an original on the date first above written.

[Signatures on next page]

DATED this _____ day of _____, 2025.

CITY OF ARVADA, a Colorado home
rule municipal corporation

Lauren Simpson, Mayor
8101 Ralston Road
Arvada, CO 80002

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris

By: _____

**NexCivil Engineering and Construction
LLC**, a Colorado corporation

Ishmael Kwofie
President
3190 S. Vaughn Way Ste 550
Aurora CO 80014
ish@nexcivil.com

Arvada's CSB Exhibit

An Agreement by and Between the City of Arvada and Nexcivil
Engineering and Construction LLC for 2024 Drainage
Improvements, CSB 25-ENG-031, in an Amount not to Exceed
\$598,924.68



COMPETITIVE SEALED BID

BID #: 25-ENG-031

Title: Drainage Improvements

Issue Date: 3/26/2025

Pre-bid Meeting: **MANDATORY** 4/10/2025 - 9:00 am MT
Location: Anne Campbell Room – City Hall – Main Entrance 1st Floor
8101 Ralston Road, Arvada CO 80002

Questions Deadline: 4/17/2025 2:00 pm MT
Questions must be submitted through BidnetDirect.com.
Responses will be posted on BidNet via addendum.

Bid Due Date: 4/24/2025 2:00 pm MT

Virtual Opening Information: Join Zoom Meeting
<https://arvadaco-gov.zoom.us/j/82554648190?pwd=jKNeva2yuC1wpKsolr8yxOz08hTWAo.1>
Meeting ID: 825 5464 819 Passcode: 845765

Bid Delivery address: Electronic Submissions must be submitted online at BidNetDirect.com by the above date and time.
Late responses will not be considered for award.

For additional administrative information not related to the project, contact: Cheryl Dye, cdye@arvada.org
Contact with the requesting department may result in vendor disqualification.

ARVADA'S VISION MISSION AND VALUES

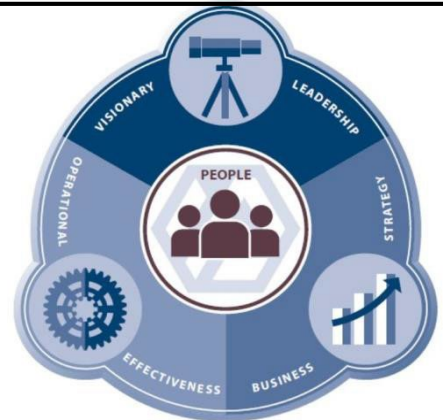
VISION: We dream big and deliver.

MISSION: We are dedicated to delivering superior services to enhance the lives of everyone in our community.

VALUES:

Innovation – We excel in creativity, flexibility and the use of best practices while valuing diverse backgrounds, ideas and perspectives. **Passion** – We are a high performing, inclusive team inspiring each other to pursue excellence.

Opportunity – We value our diversity, embrace possibilities, face challenges, persevere and take action to deliver quality results.



Documents included in this Request:

Cover Page	page 1
Advertisement for Bidders	page 2
General Terms and Conditions	page 3
Special Terms and Conditions for Bidders	page 5
Insurance Requirements	page 7
Project Special Provisions	page 9
Submittal Forms to be completed and returned:	
• Bid Proposal	page 18
• Required Contractor Submittal Form	page 19
• Bid Schedule	page 20
Contract Sample of Documents if Awarded	page 23
*Drawings included on BidNet separately due to size	

ADVERTISEMENT FOR BIDS

Submit bids electronically on Bidnetdirect.com for the construction of City of Arvada Project No. 24-DR-20

Project Title: 2024 Drainage Improvements

The BID DOCUMENTS, consisting of Advertisement for Bids, General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, Addendum when issued, Bid Bond, Bid Proposal, Bid Schedule, Performance and Payment Bond, Submittal Checklist and References, Sample documents, and the Project Drawings may be examined at the following location: www.bidnetdirect.com

No-cost bid documents may be obtained at www.bidnetdirect.com on or after _____

ESTIMATED QUANTITIES OF MAJOR WORK ITEMS:

18" RCP, Class III	717 LF
Storm Inlet, Type 13	9 EA
Storm Inlet, Type R	4 EA
Flared End Sections, 18" to 48" Diameter	6 EA
Slab Base Manhole, 5' and 8' Diameter	4 EA
Concrete Cross Pan, 6" Thick	312 SY
Waterline Lowering (Existing) 6" and 8" PVC	2 EA
Remove and Replace Curb, Gutter, Sidewalk, and Ramps	234 SY
Remove and Replace Asphalt	730 SY

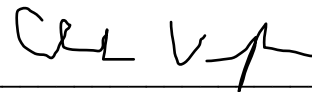
Miscellaneous items include traffic control, water control, construction survey, and other appurtenances.

Bidders, subcontractors and suppliers must be familiar with the current City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements,

dated October 2, 2023, which will be combined with the Bid Documents to form the Contract Documents for the Project. A copy of the Standards may be obtained from the office of the City Engineer upon a non-refundable payment of \$50.00. Holders will be notified when supplemental revisions and additions are available as they are adopted. The Standards are also available at no cost on the City's web site at www.arvada.org. Holders are responsible for keeping current their City of Arvada Engineering Code of Standards and Specifications.

Date: 2/20/25

CITY OF ARVADA



Claudia Vaughan
City Engineer
8101 Ralston Road
Arvada, Colorado 80002

GENERAL TERMS AND CONDITIONS

1. PAYMENTS TO CONSTITUTE CURRENT EXPENDITURES. Financial obligations of the City of Arvada, if any, after the current fiscal year are contingent on funds for that purpose being appropriated, budgeted and otherwise made available by the City Council for the City of Arvada. The City of Arvada's obligations under the Agreement shall be from year to year only and shall not constitute a multiple-fiscal year direct or indirect debt or other financial obligation of the City of Arvada within the meaning of Article X, Section 20 of the Colorado Constitution.

2. TAXES. The City of Arvada is not subject to taxation. Contractor shall not invoice Arvada for any state, federal or local taxes whatsoever. Upon written notification by the City of Arvada, Contractor shall reimburse the City of Arvada in a timely manner for any taxes erroneously paid by the City of Arvada. The Colorado Department of Revenue, Certification of Exemption for Colorado State Sales/Use Tax account number for the City of Arvada is 98-01789-0000. An exemption certificate will be provided, where applicable, upon request.

3. NO INDEMNIFICATION BY ARVADA. The City of Arvada is prohibited by Article XI, Section 1, Colorado Constitution, from indemnifying anyone. Therefore, notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, the City of Arvada does not indemnify Contractor or anyone else under this Agreement.

4. INDEMNIFICATION OF CITY.

A. Contractor: Notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, Contractor agrees to investigate, defend, indemnify and hold harmless Arvada, its elected officials, officers, employees, agents, insurers, and representatives from and against any claims, costs, losses, expenses, demands, actions, or causes of action, including reasonable attorney fees and other costs and expenses of litigation, which may be asserted against or incurred by Arvada or for which Arvada may be liable, arising from the negligence, willful misconduct, or other fault of Contractor or its employees, agents, or subcontractors in performance of the Agreement. Nothing herein is intended to constitute a covenant, promise, or agreement to indemnify and hold harmless Arvada from any liability or damages directly caused by or attributable to Arvada's own negligence. Nothing herein intended to be nor may be construed as a waiver of the immunities, protections, or limitations on damages provided to Arvada by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101 *et seq.*, as it may from time to time be amended.

(or)

B. Architect, Engineer, Surveyor Services for Public Works Construction: Contractor agrees to hold harmless and indemnify Arvada, its officers and employees, from and against any liability or any claims, suits, or actions arising out of, made, or asserted for any damage to persons or property resulting from errors, omissions or fault of Contractor in connection with the performance by Contractor of obligations under this solicitation and any subsequent Agreement with Arvada. Nothing herein is intended to constitute a covenant, promise, or agreement to indemnify and hold harmless Arvada from any liability or damages directly caused by or attributable to Arvada's own negligence. Nothing herein is intended to be nor construed as a waiver of the immunities, protections, or limitations on damages provided to Arvada by the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 *et seq.*, as it may from time to time be amended.

5. NO OPINION OF COUNSEL LETTERS. Pursuant to Section 8.1 of the Arvada City Charter, the City Attorney provides advice to the City Council and City Officials in matters relating to their official powers and duties, and will perform such other duties as City Council may prescribe by ordinance or resolution. The City Attorney will not issue opinion of counsel letters, memoranda or statements to third parties, including, but not limited to that any contract or lease is binding on the public entity, enforceable, etc.

6. CONFIDENTIAL DOCUMENTS. Contractors may designate specific pages or sections within their submission as trade secret or confidential commercial information or as otherwise protected by law ("Confidential Information"). Documents and data that are considered Confidential Information shall be clearly marked as such and separated from the rest of the solicitation submission documents. Comingling is not acceptable. The City does not favor blanket assertions of Confidential Information. Please note that blanket assertions that merely classify and/or broadly claim information is confidential are insufficient as a matter of law. See, *International Brotherhood of Electrical Workers Local 68 v. Denver Metropolitan Major League Baseball Stadium District*, 880 P.2d 160 (Colo. App. 1994). Any information that will be included in any resulting contract cannot be considered Confidential. Under no circumstances may submission pricing information be considered Confidential. In the event a formal contract is entered into with the City and a portion of the Proposal/Response carries a designation indicating the Contractor believes it is Confidential Information, then the City agrees that it will use its best efforts to forward any request for the disclosure of the Confidential Information to the Contractor. By its submission of the Proposal/Response, Contractor agrees to promptly respond to the request for disclosure with any objections and reasons therefor in accordance with the Colorado Open Records Act C.R.S. §§24-72-101 *et seq.* and any other applicable law. Further, Contractor agrees to assume the obligation to defend, hold harmless, and indemnify the City in any legal proceeding that arises from non-disclosure of documents or data pursuant to the Contractor's objection.

7. OWNERSHIP OF WORK PRODUCT. The originals of all plans, reports, studies, data, or other materials or information relating to the Work that are produced by Contractor shall be delivered to and become the property of Arvada. Contractor may retain copies of any originals; however, no plans, reports, studies, data, or other materials or information relating to the Work shall be released to any person or entity without the prior written consent of Arvada. Nothing in this clause is intended to affect Contractor's right to use generic know-how learned in the course of providing services under the Agreement for the future benefit of the City of Arvada or others.

8. ASSIGNMENT. Contractor shall not assign the Agreement without the prior written consent of the City of Arvada, which will not be

unreasonably withheld, conditioned, or delayed. Contractor may assign the Agreement to any successor to the business of the party by merger, consolidation, or sale of assets. No assignment shall be permitted that enlarges any duty, responsibility or obligation of the City of Arvada, or that limits, curtails, or diminishes any right or privilege of the City of Arvada without the City of Arvada's express written consent.

9. NO THIRD PARTY BENEFICIARIES. It is expressly understood and agreed that enforcement of the terms and conditions of the Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to Arvada and Contractor and nothing contained in the Agreement shall give or allow any such claim or right of action to any other third party on the Agreement. It is the express intention of Arvada and Contractor that any person other than Arvada or Contractor receiving services or benefits under the Agreement shall be deemed to be an incidental beneficiary only.

10. INDEPENDENT CONTRACTOR. Contractor and Arvada hereby represent that Contractor is an independent contractor for all purposes hereunder. As such, Contractor is not covered by any worker's compensation insurance or any other insurance maintained by Arvada except as would apply to members of the general public. Contractor shall not create any indebtedness on behalf of Arvada.

11. SUBCONTRACTING. Contractor shall not award work to subcontractor(s) in excess of fifty percent of the total contract price without Arvada's prior written approval. Contractor shall be responsible for any failure by any subcontractor or subcontractor personnel to perform in accordance with the Agreement or to comply with any duties or obligations imposed on Contractor under the Agreement to the same extent as if such failure to perform or comply was committed by Contractor or Contractor's personnel. Contractor shall be Arvada's sole point of contact regarding the services, including with respect to payment.

12. NO WAIVER OF GOVERNMENTAL IMMUNITY. Nothing contained in this or any of the exhibits attached thereto shall be construed as a waiver of any of the immunities, limitations, privileges, rights, procedures, or requirements contained in the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 *et seq.*

13. RIGHT TO TERMINATE. The City of Arvada shall have the right to terminate, without cause, the Agreement. Any such termination shall not be considered a breach of the Agreement or any extension thereof. In the event of termination by the City of Arvada for convenience, Contractor will be paid for requested work performed up until the time of termination by the City of Arvada, not to exceed the total amount of the contract price agreed upon by the parties.

14. COMPLIANCE WITH ALL LAWS. All of the services performed under this Agreement by Contractor shall comply with all applicable laws, rules, regulations and codes of the United States and State of Colorado, and with the charter, ordinances, rules and regulations of the City of Arvada.

15. WAIVER OF BREACH. A waiver by any party to the Agreement or the breach of any term or provision of the Agreement shall not operate or be construed as a waiver of any subsequent breach by either party.

16. GOVERNING LAW AND VENUE. Notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, the Agreement shall be governed by the laws of the State of Colorado. Venue for any action arising under the Agreement or for the enforcement of the Agreement shall be in the appropriate court for Jefferson County, Colorado.

17. FORCE MAJEURE. Any delays in or failure of performance by any party of its obligations under the Agreement shall be excused if such delays or failure are a result of acts of God, fires, floods, strikes, labor disputes, accidents, regulations or orders of civil or military authorities, shortages of labor or materials, or other causes, similar or dissimilar, which are beyond the control of such party.

18. BINDING ARBITRATION PROHIBITED. The City of Arvada does not agree to binding arbitration by any extra-judicial body or person. Any provision to the contrary in response to the solicitation, or incorporated by reference, shall be null and void.

19. EQUAL EMPLOYMENT OPPORTUNITY. Contractor shall not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified solely because of race, creed, sex, color, national origin or ancestry, religion, disability, age, sexual orientation, gender identity, veteran status, or any other basis prohibited by federal, state, or local law.

20. BINDING AUTHORITY. Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, has been properly acknowledged by attestation, notary acknowledgment, or both, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation.

21. PREFERENCES IN EMPLOYMENT OF COLORADO LABOR. To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:

- a. Colorado labor shall be employed to perform eighty percent (80%) of the work.
- b. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.

22. RETAINAGE REQUIREMENTS. Contractor agrees to submit monthly invoices together with any retainage requirements as prescribed by Colorado state statutes (see e.g., C.R.S. §§24-91-101 *et seq.*). Payment from Arvada will traditionally be paid NET (15) days but no later than NET thirty (30) days. Invoices will accurately reflect actual work completed by Contractor.

23. ACCESSIBILITY COMPLIANCE.

- 23.1 Arvada is obligated to comply with the Colorado Anti-Discrimination Act (C.R.S. §§24-34-300 *et seq.*)("CADA"), which requires all digital and online platform and content providers to comply with the minimum *Accessibility Standards for Individuals with a Disability*, adopted by the Colorado Office of Information Technology ("OIT") under C.R.S §24-85-103(2.5). Contractor has been advised to familiarize itself with CADA.
- 23.2 To the extent the Work or any of Contractor's services provided under the Agreement involves digital, technological components, including but not limited to software, websites, applications, digital documents (the "Material"), all Material shall comply with the OIT's currently adopted minimum *Accessibility Standards for Individuals with a Disability* at all times.
- 23.3 Contractor shall indemnify, save, and hold harmless Arvada, its employees, agents and assignees (the "Indemnified Parties") against any and all costs, expenses, claims, damages, liabilities, court awards and other amounts (including attorneys' fees and related costs) incurred by any of the Indemnified Parties in relationship to Contractor's failure to comply with Section (23.2) above.
- 23.4 Upon Arvada's request, Contractor shall certify to Arvada that its service(s) and digital documents are compliant with Section (23.2) above. Arvada may require Contractor's compliance to the OIT's currently adopted minimum standards of accessibility to be determined by a third party selected by Arvada to attest to Contractor's compliance.

SPECIAL TERMS AND CONDITIONS FOR BIDDERS

1. RECEIPT AND OPENING OF BIDS. Bids submitted electronically on the BidnetDirect.com website only become available to the City of Arvada after the bid closes. Bidder shall assume full responsibility for timely upload of bid to the BidnetDirect website. The City reserves the right, where its best interest will be served, to accept or reject any conditional or qualified bid.

2. QUANTITY AND NATURE OF THE WORK. Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule by examination of the site and a review of the drawings and specifications including Addendum. After Bids have been submitted the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done.

3. CONTENTS OF BID. Contractors are required to submit Bids with the following conditions:

- 1) Contractors shall make all investigations necessary to inform themselves of the sites affected and the work required by the Solicitation.
- 2) Any official interpretation of the Solicitation may only be issued by an authorized agent of the City. The City shall not be responsible for other interpretations offered by employees not authorized.
- 3) The City shall issue Addenda if substantial changes are required which may impact the content and submission of Bids. A copy of such addenda will be publicly posted with the original CSB posting.
- 4) The apparent silence or omissions within this Solicitation regarding a detailed description of the materials or services shall be interpreted to mean that only the best commercial practices are to prevail and that only materials and workmanship of first quality are to be provided.

4. BID SECURITY. Each Bid must be accompanied by a PHOTO of the Bid Bond, on the form attached to these contract documents, payable to the City for five (5) percent of the total amount of the Bid. As soon as the bid Prices have been compared, the City will issue intent to award on the Bidnetdirect.com web site. The vendor who is named as the intent to award Contractor must submit the physical Bid Bond within 10 days or the intent to award may be revoked. The Bid Bond of the successful Bidder will be retained until the Payment and Performance Bond has been executed and approved after which it will be returned. A certified check may be used in lieu of a Bid Bond.

5. POWER OF ATTORNEY. Attorneys-in-fact who sign Bid Bonds or Payment and Performance Bonds must file with each bond a certified and effective dated copy of their power of attorney.

6. QUALIFICATION OF BIDDER. The City may make such investigation as it deems necessary to determine the ability of the Bidder to perform the work. The City reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the City that such Bidder is properly qualified to carry out the obligation of the Contract Agreement and to complete the work contemplated therein. The City reserves the right, before awarding the contract, to require a Contractor to submit evidence of its qualifications including, but not limited to, financial, technical, and other qualifications, as well as past performance with the City, for consideration in making the award in the best interest of the City.

7. AWARD OF CONTRACT. A contract/s shall be awarded to the lowest-priced responsible and most responsive bidder/s whose bid meets the requirements and criteria set forth in the CSB within the limits of funds available and that best serves the City's interest. The City, within seven (7) calendar days of receipt of acceptable Contract Security and the Contract Agreement, signed by the Bidder to whom the Contract was awarded, shall sign the Contract Agreement and return to the Bidder an executed copy of the Contract Agreement. Should the City not execute the Contract Agreement within such period, the Bidder may, by written notice, withdraw their signed Contract Agreement. Such notice of withdrawal shall be effective upon receipt of the written notice by the City.

8. NOTICE OF AWARD AND FAILURE TO ENTER INTO CONTRACT. The party to whom the Contract is to be awarded will be required to execute the Contract Agreement, obtain Certificates of Insurance and a Performance and Payment Bond, as Contract security, within five (5) calendar days from the date the Notice of Award is delivered to the Bidder. The Notice of Award shall be accompanied by the Contract Agreement and the necessary Performance and Payment Bond forms. In case of failure of the bidder to execute the Contract Agreement and provide satisfactory Insurance and Contract Security, the City may at its option, consider the Bidder in default, in which case the Bid Bond accompanying the Proposal shall become the property of the City.

9. CONTRACT DOCUMENTS. The Contract Documents consisting of the Bid Documents, which include the Advertisement for Bids, Information for Bidders, General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, Addendum, Bid Bond, Bid Proposal, Bid Schedule, Vendor Submittal Form, Construction Drawings, Supplemental Specifications and the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", which include the Measurement and Payment specifications, and the attached Notice of Award form, Contract Agreement form, Performance and Payment Bond form, Notice to Proceed form, and Change Order form, when combined, contain the provisions required for the construction of the Project. Information obtained from an agent or employee of the City or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the contract.

10. TERM OF CONTRACT. This contract shall commence on the date of the purchase order or contract execution and shall remain in effect until such time as the commodities, equipment and/or services acquired in conjunction with this Bid have been accepted by the City's authorized representative. Any required warranty period which exceeds this term shall remain in full force for the duration of the warranty period.

11. PRICING SHALL BE FIXED AND FIRM. The prices offered by the Contractor shall remain fixed and firm for at least 90 ninety days. No changes in the Bid shall be allowed after the date and time of the Bid deadline due to error by the Contractor.

12. CONTRACT SECURITY. A Performance and Payment Bond, on the form attached to these contract documents, in the amount of 100% of the Contract price, with a corporate surety approved by the City, will be required for the faithful performance of the Contract.

13. NOTICE TO PROCEED. The Notice to Proceed shall be issued within seven (7) calendar days of the execution of the Contract Agreement by the City. Should there be reason why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the City and the Contractor. In the event the Notice to Proceed has not been issued within the seven day period or within the period mutually agreed upon the Contractor may terminate the Contract Agreement without further liability on the part of either party.

14. MODIFICATION OR WITHDRAWAL OF BIDS BY CONTRACTOR.

Modifications to Bids- Changes to the Bid after the submission deadline shall be allowed only when the Contractor can show convincing evidence that an unintentional factual mistake was made. Modification requests must be made in writing. Any modification submitted to the City must have the Contractor's name, address, Solicitation Number and title included.

Withdrawal of Bids- If a Bid is withdrawn by Contractor after the Bid Opening, the City may, at its option, suspend the Contractor for a six (6) month period following the withdrawal. Withdrawal of the Bid after the Bid Opening will result in the Contractor forfeiting the provided Bid Bond.

15. REJECTION OF OFFERS BY CITY.

- A. The City may reject a Bid, in whole or in part, for reasons including, but not be limited to:
- 1) The Contractor misstates or conceals any material fact in its Bid;
 - 2) The Contractor's Bid does not strictly conform to the law or requirements of the Solicitation;
 - 3) The Bid expressly requires or implies a conditional award that conflicts with the method of award stipulated in the Special Conditions;
 - 4) The Bid does not include documents which are required for submission with the Bid; or
 - 5) The Bid has not been executed by the Contractor through an authorized signature.
- B. The City may, at its sole and absolute discretion:
- 1) Reject all or parts of Bids submitted by prospective Contractors;
 - 2) Re-advertise this Solicitation;
 - 3) Postpone or cancel the Solicitation;
 - 4) A Bid may not be accepted from, nor any contract be awarded to, any person or firm which
 - a) is in arrears to the City for any debt or Contract, or is a defaulter as surety for any obligation to the City.
 - b) has failed to perform faithfully any previous contract with the City, State or Federal government for a minimum period of one (1) year after this previous Contract was terminated for cause.
 - c) has pending litigation against the City on the date and time that the Solicitation is due.

16. CLARIFICATION AND MODIFICATIONS. The contract resulting from this solicitation will be subject to the Solicitation materials, City Ordinance, State and Federal Statutes. When conflicts occur, the highest authority shall prevail. Contractors are required to indicate any variances to the terms, conditions, requirements and specifications of this Solicitation; no matter how slight. If variations are not stated in the Contractor's Bid, it shall be agreed that the Contractor's Bid fully complies with all conditions identified in this Solicitation.

17. ELECTRONIC PAYMENT METHODS - CITY OF ARVADA SINGLE USE ACCOUNT.

Contractors are encouraged to consider the following method of payment.

Single Use Account: The City incorporates the use of Single User Accounts as an option to seamlessly process payment of larger dollar purchase orders and contracts to vendors/contractors/providers. A secure, one-time payment transaction account processes to pay invoices via the Contractor's merchant bank. Invoice payments have an enhanced speed-of-pay cycle that can significantly benefit cash flow.

18. CONDITIONS OF WORK AND OBLIGATION OF BIDDER. Each Bidder is responsible for independently inspecting the site and for reading and being thoroughly familiar with the Contract Documents and for providing the names of major suppliers and sub-contractors in the space provided on the Bid Proposal form. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve the Bidder from any obligation in respect to their Bid Proposal.

19. CONTRACTOR LICENSE. The Contractor to whom the contract is awarded and any subcontractors employed by the Contractor must have or acquire the appropriate Contractor's license issued by the City of Arvada Engineering Division, including submittal of license bond, necessary insurance certificate, and license fee before initiating any work. The Contractor and any subcontractors will also be required to obtain a no charge Public Improvements Permit from the City of Arvada Engineering Division prior to initiating any and all work on this project.

20. PERFORMANCE MEASUREMENTS FOR SERVICES MORE THAN \$15,000.

The City has incorporated Performance Management into its organizational culture. The City will monitor and report on the following performance measures. These measures will determine, in part, renewals and eligibility for future awards. Measures include: (a) safety as defined by observation and OSHA reportable injuries, (b) quality of contracted work, (c) work completed within required schedule, (d) administration and coordination of estimates, RFIs, ASIs, change orders, pay requests and close out documents, (e) fair and justifiable change orders, (f) responsiveness and follow through on requests.

SERVICES means: the furnishing of labor, time, effort, maintenance, etc., by a vendor/contractor/consultant, with an initial contract amount of more than \$15,000.

21. PREPARATION AND SUBMISSION.

Bids will be prepared as follow:

- 1) A blank shall be construed as "No Bid/not offered". Where there is a discrepancy between the unit price and the extension of prices, the unit price shall prevail.
- 2) Contractors will not knowingly participate in solicitations where there exists a conflict of interest with their firm and a member of City staff or their immediate family.
- 3) The only authorized version of this Bid is posted on WWW.BIDNETDIRECT.COM. Registration is available to receive email notification of new solicitations, addenda, and communications.

INSURANCE REQUIREMENTS

The following listed insurance requirements shall be carried by the selected Contractor for the entirety of the contract. Applicable requirements for this solicitation are identified by completed check boxes.

1. ☒ **Commercial General Liability**, written on an occurrence form, for limits not less than \$1,000,000 for bodily injury and property damage for each occurrence and not less than \$2,000,000 aggregate. Coverage shall include premises and operations liability, blanket contractual, broad form property damage, products and completed operations and personal injury endorsements.
2. ☒ **Workers' Compensation and Employers Liability** as required by statute. Employers Liability coverage is to be carried for a minimum limit of \$1,000,000 each accident/disease and \$2,000,000 aggregate.
3. ☒ **Automobile Liability** for limits not less than \$1,000,000 combined single limit for bodily injury and property damage for each occurrence. Coverage shall include owned, non-owned and hired automobiles.
4. ☐ **Umbrella Liability** of \$, following form to the Commercial General Liability.
5. ☐ **Builders Risk or Course of Construction** Purchased by contractor to cover physical damage to property in construction or rehab. Contractors will ensure that City and subcontractors will be covered as additional insureds, excluding their own machinery, tools and equipment.
6. ☒ **Professional Liability** Professional Liability insurance in an amount of not less than \$1,000,000 per occurrence, covering the professional work contemplated under this proposal. The coverage shall have an extended reporting period of three (3) years following the date of substantial completion of the work for reporting of claims.
7. ☐ **Pollution Legal Liability Insurance** for limits not less than \$1,000,000 per occurrence (or claims made) and not

less than \$1,000,000 aggregate for bodily Injury, personal Injury and property Damage.

8. ☐ **Privacy/Network/Cyber Liability Insurance** for limits not less than \$1,000,000 for any firm providing product or services associated with IT, software, communication, or network.

Additional Insurance Requirements:

- Contractor will be required to, at its own expense, keep in full force and effect during the term of the Agreement, and during the term of any extension or amendment of the Agreement, insurance reasonably sufficient to insure against the liability assumed by Contractor pursuant to the provisions of the solicitation sent by the City of Arvada or as determined by the City of Arvada Risk Manager.
- All coverage must be written with carriers holding a minimum A.M. Best rating of A-VII, and authorized to do business in Colorado. Coverage shall be primary, and any insurance held by the City of Arvada is excess and non-contributory.
- Issuance of a Purchase Order/Contract is contingent upon the receipt of the insurance documents. Work shall not commence before this requirement is met. If the Contractor fails to submit the required insurance documents within 15 calendar days after notice to submit such policies is given to the Contractor by a City representative, the Contractor may be in default of the Award.
- Except for Workers Compensation, Employer's Liability insurance, Automobile Liability and Professional Liability insurance, the City of Arvada must be endorsed as an additional insured on a Certificate of Insurance.
- The City, through its Risk Manager, reserves the right to require additional insurance coverage and other requirements.

SPECIAL PROVISIONS

City of Arvada CSB # 25-ENG-031, Project No. 24-DR-20, entitled 2024 Drainage Improvement Projects.

Conditions peculiar, but essential, to the successful performance and acceptance of the work on this project are itemized below. As such, they shall take precedence over the City of Arvada Engineering Code of Standards and Specifications, dated October 2, 2023.

A. GENERAL CONSIDERATIONS

SC-A-1 CONTRACT TIME AND LIQUIDATED DAMAGES: This project is to be completed, including cleanup, within 120 consecutive calendar days after the date to be specified in the Notice to Proceed, unless the contract time is adjusted by change order. The Contractor shall agree to pay to the Owner, as liquidated damages, the sum of \$1,400 for each consecutive calendar day that the work exceeds the allotted contract time.

SC-A-2 MEASUREMENT AND PAYMENT: Measurement of the work performed and payment, at the unit or lump sum price quoted in the Bid Schedule, shall be made in accordance with requirements of the Engineering Code of Standards and Specifications, Section 1100 – Control, Measurement and Basis of Payment or as hereinafter stated in the Special Conditions.

SC-A-3 NON CONFORMITY OF MATERIAL OR FINISHED PRODUCT: Where materials installed or the finished product fails to meet the minimum requirements of these Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the current revised Section 105.03 of the Colorado Department of Transportation Standard Specifications.

SC-A-4 OSHA REQUIREMENTS: Observing the rules and regulations required by the Occupational Health and Safety Administration (OSHA) is the responsibility of the Contractor on this project.

SC-A-5 CITY HOLIDAYS: There shall be no construction during City observed holidays, which include: New Year's Day, Martin Luther King, Jr. Day, Presidents' Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving, Christmas Day.

SC-A-6 MINOR CONTRACT REVISIONS: Miscellaneous modifications in the work, ordered by the Project Engineer in the form of a field order, will be considered a minor contract revision. Payment for accepted work performed under this pay item "Minor Contract Revisions" will be made in accordance with Section 1121.05 of the Engineering Code of Standards and Specifications. The Minor Contract Revisions pay item shall be considered a force account item whose dollar amount shall be set by the Project Engineer prior to bidding.

If the contractor feels that a field order issued by the Engineer entitles the contractor to a change in the total contract price or time, or both, (i.e. the contractor feels that the field order involves costs over and above the amount available in the Minor Contract Revisions bid item) then the Contractor shall notify the Engineer, in writing, within 15 days after receipt of the field order. The Contractor shall not execute any such field order changes ordered by the Engineer pending the receipt of a written Change Order document executed either by the City Manager or Mayor authorizing an increase in the total contract price. Any such work completed by the contractor prior to receipt of an executed Change Order will be at the contractor's risk and be subject to removal should a Change Order not be approved and executed by the City Manager or Mayor for such work.

SC-A-7 SUBSIDIARY OBLIGATIONS: The following items shall be considered subsidiary obligations of the contract and will not be paid for separately, unless identified otherwise on the plans. The Contractor shall protect or remove and replace all shrubs, decorative rock, sod, underground sprinklers, signs, landscaping, fences, mailboxes, water meter pits, or other private or public improvements adjacent to the construction area. Disturbed areas shall be restored to a condition equal to or better than that which existed prior to construction. All sod shall be new unless approved by the municipal inspector to reuse existing sod. Asphalt pavement, concrete pavement, curb, gutter, sidewalk and crosspans, etc. along the trench shall be protected unless identified by the plans for removal and replacement. Any concrete not

scheduled for removal and replacement that is damaged by the Contractor shall be replaced by the Contractor at no cost to the City.

SC-A-8 PROJECT STATUS MEETINGS: Project status meetings will be held as necessary for scheduling, communication, and problem solving throughout the duration of the project. Contractor shall ensure that the project manager, superintendent or foreman is present and prepared to furnish the City with the schedule of work operations at each of these meetings as requested by the Engineer throughout the project.

SC-A-9 PRORATED PAYMENT ITEMS: The following payment items will be prorated throughout the project and paid based on Section 1100 of the Engineering Code of Standards and Specifications. In no case shall payment exceed 100% of the bid amount on each item.

Mobilization
Traffic Control
Stormwater Management and Erosion Control (BMPs)

Water Control, Street Sweeping and Site Cleanup, Community Notification, and Construction Survey shall be paid on the same basis as Mobilization.

SC-A-10 CHANGE OF METHOD: Any additional cost due to a change in construction method will be the responsibility of the Contractor.

SC-A-11 CDH OR CDOT SPECIFICATIONS: References made to CDH or CDOT Specifications on the plans or in the Special Contract Provisions shall mean the State of Colorado, Division of Highways, Standard Specifications for Road and Bridge Construction, adopted 1999 now known as the Colorado Department of Transportation and latest revisions.

SC-A-12 COMPACTION AND MATERIALS TESTING: Contractor will not be required to provide any materials testing or compaction testing on this project. All materials and compaction testing on this project will be performed by testing consultants hired directly by the City of Arvada.

SC-A-13 CONSTRUCTION SURVEY: Contractor shall provide construction survey and staking for the project, as performed by a Colorado licensed professional land surveyor. Construction limits shall be marked and offset stakes placed every 25 feet along stationing for proposed storm sewer lines and open drainageway improvements. Contractor will be responsible for verifying the proper elevation at each offset stake. All known survey monuments, benchmarks, and control points are shown in the construction plans.

Following the completion of construction, contractor shall also provide a red-lined set of plans to the City that depict as-built conditions, including but not limited to: changes in length, elevation, height, depth, material, and alignment of all project improvements.

SC-A-14 SUPERINTENDENTS AND COOPERATION OF CONTRACTOR: The Contractor shall, at his or her expense and within the contract price, keep on the work during its progress a competent project manager, foreman and/or superintendent and any necessary assistants, all satisfactory to the Engineer. The project manager, foreman and/or superintendent shall represent the Contractor in his or her absence and all directions given to him or her (either verbally or in writing) shall be binding as if given to the Contractor. Any person or subcontractor employed on the work who shall be deemed by the Engineer to be incompetent, careless, insubordinate, or otherwise objectionable by his or her acts, shall at once be removed from any of the work and shall not be allowed to perform any additional work on the project except by written permission from the Engineer.

SC-A-15 REQUIRED PERMITS:
Contractor shall be responsible for acquiring the following permits:

1. City of Arvada Site Disturbance Permit
 - a. Includes preparation of a Stormwater Management Plan (SWMP)
2. CDOT Special Use/Utility Permit (for Site H – 60th and Ward)

The City Project Engineer will apply for and acquire a City of Arvada CIP Permit.

Contractor shall keep a signed copy of the approved permit(s) on-site at all times.

Contractor shall be responsible for:

1. Maintaining an up-to-date municipal general contractor's license and bond to the City of Arvada Engineering Permits division.
2. Supplying the Project Engineer with Traffic Control Plans to be reviewed prior to permit approval.
3. Accessing the CIP and Site Disturbance Permits on the City of Arvada permit website (arvadapermits.org) and scheduling inspections for every day the Contractor is working.

SC-A-16 LOCATIONS AND PRIORITIES: Contractor shall prioritize **Site H – 60th and Ward** as the first site to begin work.

B. CONSTRUCTION CONSIDERATIONS

SC-B-1 MINIMIZING WORK ZONE DAMAGES: During all phases of construction including cleanup, Contractor shall operate all equipment and utilize personnel so as to minimize or prevent damages to public or private property. Contractor shall limit operation of heavy equipment to safe prudent speeds and minimize operation of equipment over concrete sidewalks, curbs and gutters. Contractors shall also conduct operations to avoid dings, nicks, gouges, scrapes, etc., on streets and concrete curb, gutter and sidewalks as well as other facilities in the construction area. Should Contractors' operations cause damages, Contractor shall be fully responsible for repairs at no cost to the City.

All public or private property damaged during the construction process must be repaired within two weeks of street and right-of-way clean-up. Should repair items not be completed within two weeks, City may initiate and complete the repair work; deducting costs to complete the work from total contract.

SC-B-2 TRAFFIC CONTROL AND STREET RESTRICTIONS: Traffic control methods shall conform to City of Arvada Engineering Code of Standards and Specifications and the FHA Manual for Uniform Traffic Control Devices and Colorado Supplement thereto. When working in State Highway right-of-way, traffic control methods shall meet the requirements of the Colorado Department of Transportation (CDOT). Contractor's traffic control plan is subject to CDOT approval prior to commencing work on State Highway right-of-way. No hand painted traffic control devices will be permitted. Traffic cones shall only be used during daytime hours. Barricading devices with lights shall be used for all work left barricaded overnight. After award of the contract and prior to the start of construction, Contractor shall submit traffic control plans for approval encompassing all locations of the project. The Contractor shall modify the installation to meet requirements of the City of Arvada Traffic Department, if so required.

"No Parking" signs shall be set by the Contractor in sufficient time, 24 hours minimum preceding work, to properly clear streets of parking interference. Care shall be taken to insure that "No Parking" signs are promptly removed after work is completed. The City will assist the Contractor in clearing parked vehicles in isolated cases where vehicles are in the way and owners fail to respond to "No Parking" signs. Access for local traffic must be maintained at all times on all streets within the project.

The Contractor shall notify the Project Engineer/Manager of all partial closures or the Traffic Division (720-898-7740) of all full closures of any public street, road, highway or alley per Section 700 of Arvada's Engineering Code of Standards and Specifications. Notification shall be made a minimum of 24 hours in advance of the actual closure; except on commercial, parkway, arterial, and collector streets, where a minimum five (5) day advance notice will be required.

SC-B-3 COORDINATION WITH UTILITIES: Utility lines indicated on the plans have been plotted using the best available information and do not necessarily reflect all utilities which may be encountered during construction or the exact location of all utilities which may be encountered during construction. The contractor shall be responsible for prompt repair of any damage caused to these or other utilities not shown on the plans. In no way will additional payment be made for time for the repair or relocation of utilities that are damaged during construction whether properly shown on the construction drawings and/or marked or unmarked in the field. Contract time only may be adjusted to account for delays due to utility repair or relocation. Should a delay in utility repair or relocation be significant enough that the Contractor decides to demobilize from the project site, no additional payment shall be made for remobilization to the project site once the utility has been repaired and/or relocated.

It shall be the Contractor's responsibility to make all arrangements with the utility owner(s) for utility relocations or adjustments if required to install the pipe and to coordinate the sequence of such work to eliminate possible conflict with construction progress. The Contractor shall provide any advance notice required by the utility owner(s) prior to commencing any work affecting said utility.

Should the Contractor desire and/or choose to perform any additional excavation work required for utility adjustments and/or repairs on behalf of the utility owner in order to expedite construction and minimize delays and down time, the City shall in no way be responsible for costs associated with this additional work done for the utility owner.

Work involving changes in, or interference with, utility service shall be done at such times and in such a manner that it will cause the least interference with the proper handling and delivery of the utility service to the receiving customers.

Should the Contractor desire to have any rearrangement made in any utility facility for his or her convenience in order to facilitate the construction operations, which rearrangement is in addition to, or different from the rearrangements indicated on the plans or in the special provisions, he or she shall make whatever arrangements are necessary with the owners of such utility for such rearrangement and bear all expenses in connection therewith.

Attention is directed to the possible existence of underground facilities not known to the City and therefore not shown on the plans or in a location different from that which is indicated on the plans or in the special provisions. The Contractor shall take reasonable steps to ascertain the exact location of all underground facilities prior to doing work that may damage such facilities or interfere with their service. If the Contractor discovers underground facilities not indicated on the plans, he or she shall immediately give the Engineer and the utility owner written notification of the existence of such facilities and coordinate the rearrangement of the facility as necessary.

No additional payment will be made for field verifying all utility locations whether shown or not shown on the plans, coordination with utility companies, utility relocations or down time due to utility relocations or repairs, but shall be considered a subsidiary obligation of the contract.

SC-B-4 **UTILITY PROTECTION:** In many locations existing gas mains, water service lines, power poles and other utilities are in close proximity to the construction work. The Contractor may be required to perform excavation with hand shovels and/or provide temporary utility line or pole support and/or reschedule construction so that utility owners can relocate their lines. The Contractor's costs to protect and/or support and/or coordinate construction with owners of existing utilities shall be considered a subsidiary obligation of the contract. No separate payment shall be made.

SC-B-5 **POTHOLING:** The Contractor shall be required to locate all utility crossings to Subsurface Quality Engineering (SUE) Quality Level A (QL-A) in accordance with ASCE C-I-38-02, Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.

MEASUREMENT AND PAYMENT: Potholes will be paid as lump sum. Payment to contractor is for verifying the vertical and horizontal locations of all wet and dry utilities. Potholing shall include scheduling and coordinating with the Utility Notification Center of Colorado, hand probing and hand digging adjacent to existing utilities, excavation, dewatering, trench stabilization, exposing utilities in a safe trench so they can be located, backfill, disposal of surplus materials, etc.

SC-B-6 **FIELD ENGINEERED CHANGES:** The City shall reserve the right to modify the construction plans including changing the slope and alignment of pipeline sections and appurtenances or modifying other improvements as necessary to accommodate construction around existing utilities.

City survey crews are available to assist the Contractor in verifying existing utility elevations as they are exposed by the Contractor.

No additional compensation shall be made for minor costs and inconveniences incurred while performing field engineered changes as directed by the Engineer. No additional compensation shall be made for any down time encountered while the Engineer determines what field engineered changes would be appropriate to accommodate construction around existing utilities. Reasonable time must be allowed for the Engineer to design field engineered changes. Any additional costs for performing field engineered construction changes to accommodate existing utilities and for also allowing the Engineer reasonable time to design field engineered changes as necessary to complete the work shall be considered a subsidiary obligation of the contract.

SC-B-7 **PROTECTION AND RESTORATION OF EXISTING SHRUBS, TREES, AND LANDSCAPING:** The Contractor is to protect or remove and replace all existing trees and shrubs shown on the drawings not scheduled for removal. The Contractor shall be responsible to pay the City for replacement of any trees or shrubs damaged during construction. The Contractor shall protect or remove and replace all shrubs, decorative rock, sod, underground sprinklers, signs, landscaping, fences, driveways or other private or public improvements within or adjacent to the construction area. Disturbed areas shall be restored to condition equal to or better than that which existed prior to construction. All sod shall be new unless approved by the inspector to reuse existing sod.

If branches of trees or shrubs will be in the path of the proposed construction, as verified by the City Inspector prior to construction, the Contractor shall prune these branches under the supervision of the City Forester.

MEASUREMENT AND PAYMENT: Protection and restoration of existing shrubs, trees and landscaping will be considered a subsidiary obligation of the contract and no separate measurement or payment will be made.

SC-B-8 MAINTAINING WATER AND SANITARY SERVICE: Water and sanitary service to all customers shall be a priority item of this work. Water service to schools, businesses, hospitals, medical centers and all other commercial enterprises and those other customers that indicate a need for uninterrupted water service shall not be interrupted during school or business hours. In certain instances, work may need to be done overnight in order to meet this requirement. No additional payment shall be made for work done during overnight hours to meet this requirement. Overnight work must be approved in writing by the City Manager prior to commencement. If necessary that an interruption be made or if an unintentional interruption occurs, contractor shall provide the necessary temporary piping, hoses, etc., to provide temporary water service to those customers. All water delivered shall meet CDOH and City drinking water standards. This work shall also be coordinated through the City's Water Utility Division.

This work shall be considered a subsidiary obligation of water main installation contract work. No separate payment shall be made for supplying temporary water service to any customer during this work or for completing work during overnight hours in order to maintain an uninterrupted water supply during school or business hours where necessary.

C. BEDDING, BACKFILL, TRENCH RESURFACING

SC-C-1 PIPE BEDDING AND BACKFILL: All excavation, bedding, backfill, etc. shall be performed in accordance with requirements of Section 300 of the City of Arvada Engineering Code Standards and Specifications.

SC-C-2 ASPHALT TRENCH REMOVAL AND RESURFACING: Asphalt shall be removed and disposed of within the trench limits as prescribed in Arvada Standard Detail 400-1. All asphalt edges shall be cut to a smooth, vertical and straight line with square corners. Any edges that do not hold up during installation of stormsewer and appurtenances shall be re-cut to smooth, vertical and straight lines with square corners by the contractor prior to permanent asphalt trench resurfacing. Sawcutting to provide a smooth square edge shall be considered a subsidiary obligation of the contract and no separate measurement or payment will be made.

Trenches shall be backfilled within two (2) inches of grade with select backfill material after installation of new stormsewer. The final two (2) inches shall be CDOT Class VI base course or asphalt rotomillings previously stockpiled. Placement of the CDOT Class VI base course or asphalt rotomillings shall be considered a subsidiary obligation of the contract and no separate measurement or payment will be made. During subsequent excavation to prepare for permanent asphalt re-surfacing, the top two (2) inches of backfill (consisting of the rotomillings and/or Class VI base course) shall be removed. This material may be re-used to top off another trench within the project. This surface shall be maintained free of chuckholes, ruts and loose rock by patrolling until permanent asphalt surfacing is placed.

The remaining four (4) inches of select backfill material previously placed shall be removed in order to place the asphalt patch and may be reused as select backfill material at other locations provided the material remains clean and within select backfill gradation specifications during handling. Any material that becomes overly contaminated with asphalt millings or asphalt chunks, native material, etc. shall be disposed of and shall not be reused as select backfill material.

All trenches shall be promptly resurfaced with permanent asphalt resurfacing in accordance with the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

Contractor shall place asphalt within the limits of the trench and shall have suitable labor and equipment to rake the asphalt surface and edges to ensure a smooth riding surface. All existing asphalt edges shall be cut to a smooth, vertical and straight line prior to asphalt placement. There shall be no asphalt placed outside the limits of the trench unless directed by the Municipal Inspector to feather into the adjacent surface.

Permanent asphalt trench resurfacing materials shall consist of a minimum of one lift of four (4) inch depth CDOT Grade S asphalt and one top lift of two (2) inch depth CDOT Grade SX asphalt (six (6) inch total depth). All trench patches shall be six (6) inch total depth or be equal to the existing asphalt depth, whichever is greater. Separate payment shall be made (based on the square yard – inch depth measurement above six (6) inch depth) for locations where the existing asphalt thickness is above six (6) inch and the Engineer determines that replacement

at the extra thickness is warranted. All lifts required below the top two (2) inch shall be Grade S. Lift thickness shall in no case be greater than four (4) inch. The top two (2) inch lift of Grade SX shall be placed during the same working day as the bottom lift(s). Trenches are not to be left down two (2) inch or more over night on any streets. Permanent asphalt trench surfacing shall be placed within fourteen (14) days of the final pipe and backfill installation at each location, weather permitting (in accordance with the "City of Arvada Engineering Code of Standards and Specifications").

Measurement: Measurement shall be computed on the basis of actual square yards of asphalt trench resurfaced up to a maximum trench width of Pipe O.D. plus three (3) feet and then only where necessary.

Payment: Accepted quantities of asphalt trench removal and resurfacing will be paid at the contract unit price bid for this item as it appears on the Bid Schedule. No separate payment will be made for excavation required to place the asphalt patch, sawcutting to provide a smooth square edge, or placement of the two (2) inch CDOT Class VI base course or asphalt rotomillings temporary surface.

SC-C-3 **CONCRETE REMOVAL:** Concrete required to be removed for utility or appurtenance installation shall be saw cut full depth before removal. Where curb, gutter, sidewalk, handicap ramps and crosspans are to be removed, asphalt shall be saw cut and removed 18 inches out and parallel to lip line or as directed by the Engineer.

PAYMENT: Removal and disposal of existing concrete shall be paid for at the contract unit price. Concrete removal shall include saw cutting, removal, and disposal of existing concrete and adjacent asphalt as called for on the construction drawings. Any concrete not scheduled for removal that is damaged by the Contractor shall be replaced at the Contractor's expense including adjacent asphalt. Asphalt replacement for any concrete damaged by the Contractor shall be the Contractor's responsibility along with replacement of the damaged concrete.

D. OBLIGATIONS TO THE PUBLIC

SC-D-1 **TRENCH MAINTENANCE AND PROJECT SITE CLEANUP:** Contractor shall coordinate the work and minimize inconveniences to citizens and affected property owners. Residents shall be notified by the Contractor 24 hours prior to the time that access must be denied to their driveway when driveway will be blocked for a period in excess of one (1) hour. Residents shall be provided access to their driveways at all times between 5:00 pm and 7:30 am, and at all times on weekends or City holidays or all other times when work is not proceeding.

No more than fifteen (15) feet of trench is to be left barricaded and opened overnight. Backfilled trenches are to be maintained free of surface ruts until they are permanently resurfaced. During inclement weather or when hot asphaltic concrete is unavailable, trenches shall be temporarily resurfaced at the direction of the Engineer and/or municipal inspector. Temporary resurfacing shall be placed immediately after backfill installation. It shall be maintained rut free and remain in place until weather permits the installation of hot plant mix.

Throughout all phases of construction, including suspension of work, and until final cleanup, the Contractor shall keep the work site clean and trench surfaces rut free. The Contractor shall abate mud and dust by daily sweeping, scraping mud off paved surfaces, removing excess mud from trenches and replacing with crushed rock, etc. Loose rock scattered beyond the trench limits shall be swept, picked-up and removed from the site.

SC-D-2 **SERVICE INTERRUPTION:** The Contractor shall notify all parties that will be affected, a minimum of twenty-four (24) hours prior to the time they will disconnect or interrupt known sewer or water service or immediately upon the interruption of a service not shown on the plans. All service interrupted or damaged shall be immediately repaired and service restored. No services shall be left inoperative overnight.

The City of Arvada Utilities Division will operate all existing valves, hydrants, blowoffs, and curb stops. No valve or other control on the existing system shall be operated for any purpose by the Contractor. The Contractor shall advise all water customers prior to interrupting flows, so they may make provisions to store sufficient water for their interim needs. Service termination periods shall not exceed four (4) hours. Interruption of service shall be limited to the hours between 8:30 am and 3:00 pm unless prior approval is received from the Engineer and/or municipal inspector.

SC-D-3 **COMMUNITY NOTIFICATION:** The contractor shall notify affected utility and non-city ROW owners impacted by construction. Xcel Energy shall be notified through their builders' hotline of any impacted gas lines and electric lines that will need to be relocated as part of the work.

The Contractor shall also notify property managers, owners, tenants, or responsible parties that work or dwell in buildings adjacent to the construction site, in writing, not less than seven (7) days prior to construction of the impending construction activity.

The Contractor shall prepare a written notification describing the method, location and likely duration of construction. It shall also include both a phone number, where a representative of the Contractor can be reached during normal business hours, and the name and telephone number of the City's Engineer and municipal inspector. The written notice shall be approved by the Engineer prior to distribution.

All of this work shall be paid for under bid item "Community Notification".

Some residents impacted by the construction have expressed interest in receiving quotes to replace their driveways. Contractor may solicit their services to impacted residents and provide quotes to residents that request said services. Any additional work that is gained from these solicitations shall be completed and paid for under a separate contract with the resident(s).

SC-D-4 BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER MANAGEMENT: This section provides a set of criteria and technical guidance for erosion and sediment control and material management at utility construction sites. Erosion control measures limit erosion of soil from disturbed areas including stockpiled material at the construction site. Sediment control measures prevent the transport of sediment off-site to downstream properties and stormwater conveyances. Materials management is the practice of containing and controlling all materials used in order to eliminate potential pollutants from leaving the site. Due to the fast paced nature of utility projects, the site's erosion and sediment controls and material management BMPs must be inspected and maintained by the Contractor daily.

- ✓ All paved surfaces, gutters and sidewalks affected by utility work must be cleaned at the end of each day.
- ✓ Where consistent with safety and space considerations, excavated material is to be placed on the uphill side of trenches.
- ✓ Trench dewatering discharges must be filtered and not allowed to come in contact with stockpiles or soils remaining on paved surfaces or in gutters. Site dewatering permits must be obtained from the Colorado Department of Public Health and Environment.
- ✓ Water main flushing discharges must be routed around disturbed areas and stockpiles. Water must not come in contact with soil stockpiles or soils remaining on paved surfaces or in gutters.
- ✓ All inlets within and downstream of work areas must be protected.
- ✓ Curb check dams must be installed at all locations downstream of work areas where stormwater flows may potentially come in contact with dirt and exit the work area.
- ✓ An area must be designated for construction material waste. All waste materials must be placed into waste containers and covered immediately.
- ✓ Portable toilets must be provided on site and an area designated for their placement.
- ✓ A portable concrete washout basin must be provided on site should any type of concrete work be conducted. If small amounts of concrete are to be prepared on site, containment is required.
- ✓ Staging areas must be designated and employ appropriate BMPs and be restored to original condition upon completion of the work (reseeding, sodding, etc.).
- ✓ Stockpiles must, at all times have a perimeter BMP installed at the downstream side and all material dragged from a stockpile during operations must be swept back into the pile at the end of each day.
- ✓ All erosion and sediment control practices shall be maintained and repaired by the Contractor during the construction phase as needed to assure continued performance of their intended function. All BMPs must be inspected, maintained and replaced daily if necessary.

After all work has been completed, including asphalt and re-vegetation, clean out and remove all temporary construction BMPs.

BID FORMS

The following pages contain forms to be completed and returned with bid submission.

BID BOND

We, the undersigned _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the City of Arvada, Colorado, in the penal sum of _____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

THE CONDITION of this obligation is such that whereas the Principal has submitted to the City of Arvada, Colorado the accompanying Bid Proposal, and hereby made a part hereof to enter into a Contract Agreement for the construction of City of Arvada Project No. _____.

WHEREAS, the City, as a condition for receiving said Bid Proposal, requires the Principal to deposit with the City a Bid Proposal Guaranty, equivalent to not less than 5 Percent of the amount of said Bid Proposal.

NOW THEREFORE,

- (A) If said Bid Proposal shall be rejected; or in the alternate,
- (B) If said Bid Proposal shall be accepted and the Principal shall execute and deliver a Contract Agreement (properly completed in accordance with said Bid Proposal) and shall furnish a Performance and Payment Bond upon the forms prescribed by the City for the faithful performance of said Contract; and for the payment of all persons performing labor or furnishing materials in connection therewith; and shall in all other respects perform the agreement created by the acceptance of said Bid Proposal;

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the City may accept such Bid and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, this ____ day of _____, 20__, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

PRINCIPAL

Name: _____

Address: _____

By: _____

Title: _____

SURETY

_____.

_____.

By: _____.

Title: _____.

Attorney-in-Fact:

(SEAL)

NOTE: Surety Companies executing bonds must be authorized to transact business in the State of Colorado and be acceptable to the City.

BID PROPOSAL

TO: City of Arvada, Colorado (hereinafter called "CITY").

FROM: _____ (hereinafter called "BIDDER"), organized and existing under the laws of the State of _____ doing business as (a corporation), (a partnership), (an individual).

The Bidder, in compliance with your Advertisement for Bids, hereby proposes to perform all Work in strict accordance with the Contract Documents, for the construction of City of Arvada Project No. _____ entitled _____ within the time set forth therein, and at the prices stated on the included Bid Schedule as totaled herein.

By submission of this Bid Proposal, each Bidder certifies, and in the case of a joint venture each party thereto certifies as to his/her own organization, that this Bid Proposal has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid Proposal with any other Bidder or with any competitor.

Bidder acknowledges receipt of **Addendum Nos.** Initials: _____

Bidder states that their:

Major Material Suppliers are:

Material They Will Supply

Major Subcontractors are:

Work They Will Perform

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **120** consecutive calendar days after the date to be specified in the Notice to Proceed. bidder shall agree to pay the owner the sum of **\$1,400** for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

Total from included Bid Schedule:

TOTAL BID \$ _____

SUBMITTED BY:

Company Name: _____

Contact Names: _____

Address: _____

Phone: (_____) _____ Email(s): _____

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Contractor;
- He/she has read all Terms and Conditions and technical specifications made available in conjunction with this solicitation and fully accept and acknowledge this bid is consistent with the specifications and terms and conditions.
- The bid is in all respects fair, without outside collusion or otherwise illegal action.

By: _____
Signature of Authorized Agent Date FEIN

Typed/Printed Name of Agent Title of Agent Agent email

PAYMENT TERMS: The City standard is net thirty (30) days but every effort is made to meet net fifteen (15) days after the approved partial payment date when the contractor is satisfactorily performing the contract. The final 5% of total payment will be paid once the contract is completed satisfactorily, advertisement for final settlement is complete, and the project is accepted by the City. Payment is the date of the check mailing or date of the credit card transaction.

REQUIRED CONTRACTOR SUBMITTAL FORM

SUBMITTAL CHECKLIST:

Bid Proposals shall be submitted in the order listed below with each section clearly identified. **Missing information or required documents may result in submission being deemed non-responsive.**

- ☐ Submit completed Bid Bond, Bid Proposal, Bid Schedule, Required Contractor Submittal, and any other attachments requested.
- ☐ Submit implementation timeline and warranties, if applicable.
- ☐ Attach Contractor's Licensing, if applicable.
- ☐ Insurance – Checking this box accepts that the insurance requirements listed by the City are acceptable.
- ☐ Variations: Checking this box indicates that the contractor has variations to this solicitation. Identify all variations and exceptions to this CSB on a separate sheet/s of paper. If variations are not stated in the contractor's Offer, it shall be agreed that the contractor's Offer fully complies with all conditions identified in this Solicitation. For each variation listed, reference the applicable section of the solicitation document, the page number, and the variance. Submittal of a vendor contract is considered excessive in variations and may be cause for determining that the Bid is non-responsive and ineligible for award.

REFERENCES:

- ☐ Check here if Contractor's standard reference sheet is attached, otherwise, use the space below.

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____



BID SCHEDULE

CSB 256-ENG-026

2024 Drainage Improvements

#	ITEM	Total Quantity	Unit	Unit Cost	Extension
General					
1	Mobilization	1	LS		\$0.00
2	Water Control	1	LS		\$0.00
3	Traffic Control	1	LS		\$0.00
4	Street Sweeping and Site Cleanup	1	LS		\$0.00
5	Stormwater Management and Erosion Control (BMP's)	1	LS		\$0.00
6	Community Notification	1	LS		\$0.00
7	Construction Survey	1	LS		\$0.00
Site A					
W. 64th Ave. and Urban St.					
8	Remove and Replace Asphalt, min. 6" thick	233	SY		\$0.00
9	Remove and Replace Curb and Gutter	103	LF		\$0.00
10	Nyloplast 12" Universal Inline Drain, 5-10 Foot Depth	1	EA		\$0.00
11	Nyloplast 8" Corrugated HDPE Pipe	7	LF		\$0.00
Site B					
W. 86th Pl. and Garrison St.					
12	Remove and Dispose Existing 18" FES	2	EA		\$0.00
13	Remove and Dispose Existing 24" FES	2	EA		\$0.00
14	Remove and Dispose Existing Inlet	2	EA		\$0.00
15	Remove and Replace Asphalt, min. 6" Thick	76	SY		\$0.00
16	18" FES with Trash Rack	3	EA		\$0.00
17	24" FES with Trash Rack	1	EA		\$0.00
18	RCP Class III, 18-Inch Diameter	116	LF		\$0.00
19	RCP Class III, 24-Inch Diameter	31	LF		\$0.00
20	Storm Inlet, Type 13, Single, 5-10 Foot Depth	5	EA		\$0.00
21	Type M Riprap with Bedding	14	CY		\$0.00
22	Concrete Cross Pan (Trickle Channel) 6" Thick	28	SY		\$0.00
Site C					
W. 80th Ave. and Allison Way					
23	Remove and Dispose Existing 24" FES	1	EA		\$0.00
24	Remove and Dispose Existing 48" FES	1	EA		\$0.00
25	Remove and Dispose Existing 12" PVC	25	LF		\$0.00
26	Remove and Replace Curb and Gutter	10	LF		\$0.00
27	24" FES with Trash Rack	1	EA		\$0.00
28	48" FES	1	EA		\$0.00
29	Concrete, Structural, Retaining Walls (Includes Cultured Stone)	1	LS		\$0.00
30	Type M Riprap with Bedding	54	CY		\$0.00
31	12" PVC Pipe	25	LF		\$0.00
32	Storm Inlet, Type R, Single, 5-10 Foot Depth	1	EA		\$0.00
33	Grading	554	SY		\$0.00
34	Seeding	395	SY		\$0.00
35	Erosion Control Blanket, Coir Mat 700	395	SY		\$0.00
36	4'x4' Steel Grate Manhole Cover	1	EA		\$0.00
37	Landscape and Irrigation Repairs	1	LS		\$0.00

Site D W. 69th Pl. and Pierce St.				
38	Remove and Replace Asphalt, min. 6" Thick	25	SY	\$0.00
39	Storm Inlet, Type R, Double, 5-10 Foot Depth	1	EA	\$0.00
40	RCP Class III, 18-Inch Diameter	34	LF	\$0.00
41	Relocate Existing Communications Line	1	LS	\$0.00
Site E W. 74th Pl. and Nile St.				
42	Remove and Replace Concrete Crossspan, 6" Thick	50	SY	\$0.00
43	Remove and Replace Curb Ramp and Sidewalk	43	SY	\$0.00
44	Remove and Replace Asphalt, min. 6" Thick	14	SY	\$0.00
Site F W. 53rd Ave. and Oak St.				
45	Remove and Replace Concrete Crossspan, 6" Thick	67	SY	\$0.00
46	Remove and Replace Curb Ramp and Sidewalk	38	SY	\$0.00
47	Remove and Replace Asphalt, min. 6" Thick	25	SY	\$0.00
Site H W. 60th Ave. and Ward Rd.				
48	Remove and Replace Curb, Gutter, and Sidewalk	126	SY	\$0.00
49	Remove and Replace Curb Ramp (at Ward Rd)	1	LS	\$0.00
50	Remove and Replace Asphalt, min. 6" Thick	160	SY	\$0.00
51	RCP Class III, 18-Inch Diameter	477	LF	\$0.00
52	5-Foot Diameter Slab Base Manhole	1	EA	\$0.00
53	Storm Inlet, Type 13, Single, 5-10 Foot Depth	3	EA	\$0.00
54	Waterline Lowering (6" PVC)	1	EA	\$0.00
Site I W. 74th Ave and W. 73rd Pl. at Kipling St.				
55	Remove and Replace Asphalt, min. 6" Thick	60	SY	\$0.00
56	5-Foot Diameter Slab Base Manhole	1	EA	\$0.00
57	RCP Class III, 15-Inch Diameter	53	LF	\$0.00
58	Nyloplast 12" Universal Inline Drain, 5-10 Foot Depth	1	EA	\$0.00
59	Plastic Pipe (HDPE), 8-Inch Diameter	68	LF	\$0.00
60	Storm Inlet, Type 13, Single, <5 Foot Depth	1	EA	\$0.00
61	Remove Concrete Driveway	55	SY	\$0.00
62	Concrete Driveway, 6" Thick	75	SY	\$0.00
63	Concrete Cross Pan (Trickle Channel) 6" Thick	89	SY	\$0.00
64	Waterline Lowering (8" PVC)	1	EA	\$0.00
Site J Pomona Dr. and Allison Ct.				
65	Remove and Dispose Existing Inlet	2	EA	\$0.00
66	Remove Asphalt	137	SY	\$0.00
67	Remove and Replace Concrete Sidewalk/Ramps	27	SY	\$0.00
68	Flow-fill Existing 24" CMP Storm Pipe	12	CY	\$0.00
69	Concrete Cross Pan, 6" Thick	78	SY	\$0.00
70	8-Foot Diameter Slab Base Manhole	2	EA	\$0.00
71	RCP Class III, 18-Inch Diameter	90	LF	\$0.00
72	Asphalt, min. 6" Thick	59	SY	\$0.00
73	Storm Inlet, Type R, Double, 5-10 Foot Depth	2	EA	\$0.00
As-Needed Items				
74	Minor Contract Revisions	1	FA	\$60,000.00

TOTAL BID

\$60,000.00

CONTRACT DOCUMENTS

The following pages contain documents used upon contract award. They are included here for reference and are subject to change.

PERFORMANCE AND PAYMENT BOND

Bond No. _____

(Firm) _____

(Address) _____

(an Individual), (a Partnership), (a Corporation), hereinafter called Principal; and

(Firm) _____

(Address) _____

hereinafter called Surety, are held and firmly bound unto the City of Arvada, a Colorado municipal corporation, 8101

Ralston Road, Arvada, Colorado 80002, hereinafter called the City, in the penal sum of _____, Dollars,

_____ , in lawful money of the United States, for the payment of such sum will and truly to be made, we bind ourselves, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that the Principal entered into a certain Contract with the City, dated the _____ day of _____, 2025, a copy of which is hereto attached and made a part hereof, for the performance of City of Arvada Project No.'s _____.

NOW THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said Contract during the original term thereof, and any extensions thereof which may be granted by the City, with or without Notice to the surety and during the life of the guaranty period, and if he shall satisfy all claims and demands incurred under such Contract, and shall fully indemnify and save harmless the City from all cost and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the City all outlay and expense which the City may incur in making good any default, and if he shall promptly make payment to all persons, firms, subcontractors and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such Contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, repairs on machinery, equipment and tools, consumed, rented or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in anyway affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three counterparts, each one of which shall be deemed an original, this the ____ day of _____, 2025.

IN PRESENCE OF:

PRINCIPAL _____

By _____

Address _____

(Corporate Seal)

OTHER PARTNERS

(Surety Seal)

SURETY _____

Attorney _____ in _____ Fact _____

Address _____

Note: If Contractor is Partnership, all partners should execute Bond.

Important: Surety Company must be authorized to transact business in the State of Colorado and be acceptable to the City.

NOTICE OF AWARD

Date _____

Company _____
Address _____
City, State Zip _____

RE: Project No. _____, _____

Dear Representative of _____:

The City of Arvada, Colorado (hereinafter called "City") has considered the Bid Proposals submitted for referenced work in response to its Advertisement for Bids dated _____ and Information for Bidders.

You are hereby notified that your Bid Proposal has been accepted, for items and prices stated in the Bid Schedule, in the amount of \$ _____.

You are required to execute the Contract, the Insurance Certificates and a Performance and Payment Bond within seven (7) days from the date of this Notice to you.

The Performance and Payment Bond needs to be filled out, returned (one original must be returned to the City), and accompanied by the Power of Attorney from your surety company. Also, please make sure that the insurance certificate is in the minimum amounts set forth in the Contract Documents and the City of Arvada is named as an additional insured for the specific Project Number and Title. An Additional Insured endorsement certificate should also be attached.

If you fail to execute said Contract and furnish the necessary Insurance Certificates and Bond within the time allotted from this date, the City will be entitled to consider all your rights arising out of the City's acceptance of your Bid Proposal as abandoned and as a forfeiture of your Bid Bond. The City will be entitled to such other rights as may be granted bylaw.

You are required to return an acknowledged copy of this Notice of Award and enclosures to the Project Engineer.

CITY OF ARVADA, COLORADO

City Engineer

BIDDER

Company _____

Receipt of above Notice of Award accompanied with a Performance and Payment Bond form and a copy of the Contract is hereby acknowledged.

This _____ day of _____, 20____.

By: _____

Name: _____

Title: _____

NOTICE TO PROCEED

Date

Company
Address
City, State Zip

RE: Project No. _____, _____

Dear Representative of _____:

You are hereby notified to commence work on referenced Project, in accordance with the Contract dated _____
on or before _____, and you are to complete the Work, including cleanup within _____ calendar days thereafter.

The date of completion of all Work is therefore _____.

CITY OF ARVADA, COLORADO

City Engineer

BIDDER

Receipt of this Notice to Proceed is hereby acknowledged this _____ day of _____, 20____.

Company

By: _____

Title: _____



CITY OF ARVADA

PURCHASING DIVISION
FACSIMILE: 720-898-7098 ▲ TDD: 720-898-7869
PHONE: 720-898-7099

REQUEST FOR BID- ADDENDUM No. 1

Proposal #: 25-ENG-031
Title: Drainage Improvements (24-DR-20)
Addendum #: **One**
Today's Date: 04/15/2025
Questions Deadline: 04/17/2025 **2:00 PM** MDT (NO CHANGE)
Proposals Due By: 04/24/2025 **2:00 PM** MDT (NO CHANGE)

Solicitation and all related addenda and communications are available at WWW.BIDNETDIRECT.COM

The following clarifications are provided to be incorporated into the CSB 25-ENG-031
All other information shall remain unchanged.

Attached to this Memo:

1. **Attendance Sheet for Mandatory Pre-bid Meeting. Bid will only be accepted by those contractors in attendance of the meeting.**
2. **Pre-Bid Agenda with discussed information**
3. **Questions/Answer from Prebid meeting and as of Today on BidNet**

CSB 25-ENG-031

24-DR-20 2024 Drainage Improvements

April 10, 2025

Pre-Bid Meeting Notes and Clarifications

1. Minimum Qualifications

- a. At least three (3) instances of lowering or relocating existing waterlines performed by contractor personnel within the past five (5) years.
- b. At least 1000 total linear feet of storm and/or sanitary sewer installation performed by contractor personnel within the past three (3) years.

2. Bid Process

- a. Council approval
- b. Notice to Proceed after council approval, all agreements signed, and all permits approved. Expect 10-12 weeks between Notice of Award and Notice to Proceed.

3. Permits

Contractor:

- a. City of Arvada Site Disturbance Permit (erosion and sediment control inspections)
 - i. Includes preparation of Stormwater Management Plan (SWMP). Template on City website
- b. CDOT ROW or Special Use/Utility permit for 60th/Ward site

City Engineer:

- c. CIP permit (ROW permit)
 - i. Contractor shall provide Traffic Control Plans to be reviewed as part of permit
 - ii. **After approval, contractor shall access CIP permit on Trakit website to schedule inspections for every day they plan to be working**

4. General Bid Items

- a. Water Control – provide necessary bypass/sump pumping in flood-prone areas. Be ready for inclement weather
- b. Street Sweeping and Site Cleanup – daily

ATTENDANCE SHEET: MANDATORY Pre-Bid meeting	
Project: 25. Eng - 831 Drainage Improv	Meeting Date/Time: 4/10/2025 - 9 am MT
Facilitator:	Location: CITY HALL - Anne Campbell Room

Company Name	Representative Name	Phone	E-Mail	Signature
Alex Underground	Kevin Flowers / M. Moffatt	720-215-1348	K. Flowers @ Alex Undergound.com M. Moffatt @ Alex Undergound.com	
Essential Contractors Inc	JAMU Castillo	(720) 492-5363	Castillo @ EssentialContractors.net	
Diamond Contracting Corp	Shane Hoerig	(303) 456-7666	DCCPIPE@yahoo.com	
TFW CONSTRUCTION	LEE FRANKEL / CHRIS ORLANDO	720.364.7717	LEE.F.TFWCONSTRUCTION@COMCAST.NET	
Nex Civil	Ish Kwofie	720 237 2462	Bids@Nexcivil.com	
KECI CIVIL	STEVE O'HANLON	303-791-3759	STEVE @KECICIVIL.COM	
Brannan Construction	Ryan Rosel	303-495-4772	rosel@brannan1.com	
RD PIPELINE	CHUCK CHEA	303-598-6795	chuckchea@rdpipeline.com	
HCG CONSTRUCTION CONSTRUCTION	CAMERON GREER	720-520-9699	ESTIMATING@HCGCON.COM	
Brock Lagarde-Loya Const.	Dennis Brock	719-205-3485	dennis@billconstruction.com	
Denver Dirt Works	Daragh Goode	303 257 0260	daragh@denverdirtworks.com	
West Fork Constr.	vlad Bocharov	303-502-0375	vlada@westforkconstruction.co	
Civil Specialties	Luis Macias	720-436-2398	luis@civilspecialties.com	

American West Const.	Mark Munk Chanel	720-619 1842	mmenke@trustawc.com mmenke@trustawc.com	
COA COA	CHERYL Dye	720-808- 7092		
COA	Sam Rogers pm			
COA	D. Beachy Inspector			
COA	S. Galland Inspector			

- c. **Community Notification – homeowner flyers, coordinating utility relocates with Xcel and others, coordinating with fire dept, water service interruptions, CDOT permit, etc.**
- d. Construction Survey – provide staking at appropriate stations for inspector/engineer to verify in the field. Bid item also includes as-built survey.

5. Specific Bid Items

- a. All incidentals shall be included in cost of installations, ie. bedding for pipe, base course for asphalt and concrete, etc. These are noted and shown in City specs and standard details.
- b. Waterline lowering – follow City of Arvada details and notification procedures. Coordinate closely w/ City inspector and water department
- c. CDOT standard details – curb ramps, storm inlets, flared end sections, manholes, some concrete crosspans

6. Material Testing

- a. Materials and subgrade testing will be performed by an independent consultant hired by the city. Contractor shall be responsible for keeping in close communication with the City inspector for required testing days so the inspector can provide enough notification; **min. 24 hour notice.**

7. Other

- a. **Site Priority: Start with Site H – 60th and Ward. See Special Provisions, SC-A-16**
- b. **Additional work requested by residents. See Special Provisions, SC-D-3.**



Questions & Answers - 1

Project 25-ENG-031 - Drainage Improvements
Buying Organization City of Arvada

No	Question/Answer	Question Date
Q1	Question: Start Date What is the anticipated start date for this project? Answer: 10-12 Weeks after Intent to award is posted, which will be issued by April 30, 2025	03/31/2025
Q2	Question: HP Storm Polypropylene Pipe Will the City of Arvada allow ADS HP Storm per AASHTO M330 (corrugated dual wall polypropylene storm pipe) to be bid as a value engineer alternate to the RCP storm sewer pipe that is specified on the plans? HP Storm polypropylene pipe is an approved material by the City of Arvada Engineering Code of Standards and Specs (Section 600 Storm Drainage Facilities). Answer: The ADS HP Storm Dual Wall Pipe is allowed as an approved equal to RCP.	04/05/2025
Q4	Question: Water Control - Pre-bid Question What is Required for Water Control Answer: The City will not direct on specific methods to provide water control. It is the contractor's responsibility to provide adequate water control so existing and proposed improvements are not impacted by flood flows during construction. It is also important that normal drainage flow paths are maintained as much as possible. Under no circumstances shall adjacent properties be impacted by construction drainage and stormwater due to contractor negligence.	04/15/2025
Q5	Question: Communication lines - Pre-Bid Question How should the contractor deal with communication line relocates? Answer: The contractor will be responsible for coordinating all utility impacts and relocations with the respective owners. It is recommended that coordination be started as soon as possible with outside agencies such as Comcast, CenturyLink, Quantum Fiber, Xcel, etc. The City can help to facilitate coordination if certain agencies are being unresponsive.	04/15/2025
Q6	Question: Multiple Working Sites - Pre- bid Meeting Question How many sites can the contractor work on at the same time? Answer: The contractor may work on multiple sites at a time, within reason and as approved by the Municipal Inspector beforehand. Please provide a detailed schedule to the city and keep in close communication with the inspector so they can make sure they are covering what they need to.	04/15/2025
Q7	Question: Completion time - Pre-Bid Meeting Question How Strict is the 120 Day Completion time? Answer: The 120 day completion time shall be strictly enforced.	04/15/2025

No	Question/Answer	Question Date
Q8	Question: potholing - Pre-bid Meeting Question Does the contractor need to pothole any existing utilities? Answer: Per General Note F and Subsurface Utility Engineering Note C on sheet 2 of the plans, it is strongly recommended that the contractor pothole any existing utilities that are in conflict with proposed improvements prior to construction. All potential conflicts were potholed during design to the best knowledge and practices available, and Pothole Data has been provided on sheet 3 of the plans. SUE notes are included at the top right corner on each site plan, and the contractor can use this data to evaluate expected risk. These notes state where the plans were not able to meet or exceed Quality Level B. The SUE law and requirements are intended to provide contractors with as much information as possible prior to bidding so they may evaluate risk and decide where they may plan to pothole to limit that risk. A bid item for potholing has not been included in the bid schedule or bid documents. Regardless, contractors will be required to call 811 for notifications prior to excavation.	04/15/2025



CITY OF ARVADA

PURCHASING DIVISION
FACSIMILE: 720-898-7098 ▲ TDD: 720-898-7869
PHONE: 720-898-7099

REQUEST FOR BID- ADDENDUM No. 2

Bid #: 25-ENG-031
Title: Drainage Improvements (24-DR-20)
Addendum #: **Two**
Today's Date: 04/15/2025
Questions Deadline: 04/17/2025 **2:00 PM** MDT (NO CHANGE)
Proposals Due By: **04/30/2025 2:00 PM** MDT (**CHANGED**)

Solicitation and all related addenda and communications are available at WWW.BIDNETDIRECT.COM

The following clarifications item 1 & 2 are provided to be incorporated into the CSB 25-ENG-031
All other information shall remain unchanged.

1. **Changed Bid Due Date to: 4/30/2025 – 2:00 PM MT**
2. Revised Bid Schedule
3. Partial Answers to Questions from BidNet.

The rest of answers are being received within a day and will be sent with Addendum 3.

REVISED BID SCHEDULE

2024 Drainage Improvements
CSB 25-ENG-031 (Project #24-DR-20)



COMPANY NAME: _____ DATE: _____

Items highlighted in yellow are for Addendum					Total	Unit	Cost	Extension
#	ITEM	Quantity	Unit					
General								
1	Mobilization	1	LS					\$0.00
2	Water Control	1	LS					\$0.00
3	Traffic Control	1	LS					\$0.00
4	Street Sweeping and Site Cleanup	1	LS					\$0.00
5	Stormwater Management and Erosion Control (BMP's)	1	LS					\$0.00
6	Community Notification	1	LS					\$0.00
7	Construction Survey	1	LS					\$0.00
Site A								
W. 64th Ave. and Urban St.								
8	Remove and Replace Asphalt, min. 6" thick	233	SY					\$0.00
9	Remove and Replace Curb and Gutter	103	LF					\$0.00
10	Nyloplast 12" Universal Inline Drain, 5-10 Foot Depth	1	EA					\$0.00
11	Nyloplast 8" Corrugated HDPE Pipe	7	LF					\$0.00
Site B								
W. 86th Pl. and Garrison St.								
12	Remove and Dispose Existing 18" FES	2	EA					\$0.00
13	Remove and Dispose Existing 24" FES	2	EA					\$0.00
14	Remove and Dispose Existing Inlet	2	EA					\$0.00
15	Remove and Replace Asphalt, min. 6" Thick	76	SY					\$0.00
16	18" FES with Trash Rack	3	EA					\$0.00
17	24" FES with Trash Rack	1	EA					\$0.00
18	RCP Class III, 18-Inch Diameter	85	LF					\$0.00
19	RCP Class III, 24-Inch Diameter	31	LF					\$0.00
20	Storm Inlet, Type 13, Single, 5-10 Foot Depth	5	EA					\$0.00
21	Type M Riprap with Bedding	11	CY					\$0.00
22	Concrete Cross Pan (Trickle Channel) 6" Thick	28	SY					\$0.00
Site C								
W. 80th Ave. and Allison Way								
23	Remove and Dispose Existing 24" FES	1	EA					\$0.00
24	Remove and Dispose Existing 48" FES	1	EA					\$0.00
25	Remove and Dispose Existing 12" PVC	25	LF					\$0.00
26	Remove and Replace Curb and Gutter	10	LF					\$0.00
27	24" FES with Trash Rack	1	EA					\$0.00
28	48" FES	1	EA					\$0.00
29	Concrete, Structural, Retaining Walls (Includes Cultured Stone)	1	LS					\$0.00
30	Type M Riprap with Bedding	54	CY					\$0.00
31	12" PVC Pipe	25	LF					\$0.00
32	Storm Inlet, Type R, Single, 5-10 Foot Depth	1	EA					\$0.00
33	Grading	554	SY					\$0.00
34	Seeding	395	SY					\$0.00
35	Erosion Control Blanket, Coir Mat 700	395	SY					\$0.00
36	4'x4' Steel Grate Manhole Cover	1	EA					\$0.00
37	Landscape and Irrigation Repairs	1	LS					\$0.00

Site D W. 69th Pl. and Pierce St.				
38	Remove and Replace Asphalt, min. 6" Thick	25	SY	\$0.00
39	Storm Inlet, Type R, Double, 5-10 Foot Depth	1	EA	\$0.00
40	RCP Class III, 18-Inch Diameter	34	LF	\$0.00
41	Relocate Existing Communications Line	1	LS	\$0.00
Site E W. 74th Pl. and Nile St.				
42	Remove and Replace Concrete Crossspan, 6" Thick	50	SY	\$0.00
43	Remove and Replace Curb Ramp and Sidewalk	43	SY	\$0.00
44	Remove and Replace Asphalt, min. 6" Thick	14	SY	\$0.00
Site F W. 53rd Ave. and Oak St.				
45	Remove and Replace Concrete Crossspan, 6" Thick	67	SY	\$0.00
46	Remove and Replace Curb Ramp and Sidewalk	38	SY	\$0.00
47	Remove and Replace Asphalt, min. 6" Thick	25	SY	\$0.00
Site H W. 60th Ave. and Ward Rd.				
48	Remove and Replace Curb, Gutter, and Sidewalk	126	SY	\$0.00
49	Remove and Replace Curb Ramp (at Ward Rd)	1	LS	\$0.00
50	Remove and Replace Asphalt, min. 6" Thick	160	SY	\$0.00
51	RCP Class III, 18-Inch Diameter	477	LF	\$0.00
52	5-Foot Diameter Slab Base Manhole	1	EA	\$0.00
53	Storm Inlet, Type 13, Single, 5-10 Foot Depth	3	EA	\$0.00
54	Waterline Lowering (6" PVC)	1	EA	\$0.00
Site I W. 74th Ave and W. 73rd Pl. at Kipling St.				
55	Remove and Replace Asphalt, min. 6" Thick	60	SY	\$0.00
56	5-Foot Diameter Slab Base Manhole	1	EA	\$0.00
57	RCP Class III, 15-Inch Diameter	53	LF	\$0.00
58	Nyloplast 12" Universal Inline Drain, 5-10 Foot Depth	1	EA	\$0.00
59	Plastic Pipe (HDPE), 8-Inch Diameter	68	LF	\$0.00
60	Storm Inlet, Type 13, Single, <5 Foot Depth	1	EA	\$0.00
61	Remove Concrete Driveway	55	SY	\$0.00
62	Concrete Driveway, 6" Thick	75	SY	\$0.00
63	Concrete Cross Pan (Trickle Channel) 6" Thick	89	SY	\$0.00
64	Waterline Lowering (8" PVC)	1	EA	\$0.00
Site J Pomona Dr. and Allison Ct.				
65	Remove and Dispose Existing Inlet	2	EA	\$0.00
66	Remove Asphalt	137	SY	\$0.00
67	Remove and Replace Concrete Sidewalk/Ramps	27	SY	\$0.00
68	Flow-fill Existing 24" CMP Storm Pipe	12	CY	\$0.00
69	Concrete Cross Pan, 6" Thick	78	SY	\$0.00
70	8-Foot Diameter Slab Base Manhole	2	EA	\$0.00
71	RCP Class III, 18-Inch Diameter	90	LF	\$0.00
72	Asphalt, min. 6" Thick	59	SY	\$0.00
73	Storm Inlet, Type R, Double, 5-10 Foot Depth	2	EA	\$0.00
As-Needed Items				
74	Minor Contract Revisions	1	FA	\$60,000.00

TOTAL BID \$60,000.00

QUESTIONS & ANSWERS

CSB 25-ENG-031 - Drainage Improvements

Number	Question	Answer
1	What is the anticipated start date for this project?	10-12 weeks after Notice of Award, which will be issued after April 30, 2025.
2	Will the City of Arvada allow ADS HP Storm per AASHTO M330 (corrugated dual wall polypropylene storm pipe) to be bid as a value engineer alternate to the RCP storm sewer pipe that is specified on the plans? HP Storm polypropylene pipe is an approved	The ADS HP Storm Dual Wall Pipe is allowed as an approved equal to RCP.
3	What is required for Water Control?	The City will not direct on specific methods to provide water control. It is the contractor's responsibility to provide adequate water control so existing and proposed improvements are not impacted by flood flows during construction. It is also important that normal drainage flow paths are maintained as much as possible. Under no circumstances shall adjacent properties be impacted by construction drainage and stormwater due to contractor negligence.
4	How should the contractor deal with communication line relocates?	The contractor will be responsible for coordinating all utility impacts and relocations with the respective owners. It is recommended that coordination be started as soon as possible with outside agencies such as Comcast, CenturyLink, Quantum Fiber, Xcel, etc. The City can help to facilitate coordination if certain agencies are being unresponsive.
5	How many sites can the contractor work on at the same time?	The contractor may work on multiple sites at a time, within reason and as approved by the Municipal Inspector beforehand. Please provide a detailed schedule to the city and keep in close communication with the inspector so they can make sure they are covering what they need to.
6	How strict is the 120 day completion time?	The 120 day completion time shall be strictly enforced.
7	Does the contractor need to pothole any existing utilities?	Per General Note F and Subsurface Utility Engineering Note C on sheet 2 of the plans, it is strongly recommended that the contractor pothole any existing utilities that are in conflict with proposed improvements prior to construction. All potential conflicts were potholed during design to the best knowledge and practices available, and Pothole Data has been provided on sheet 3 of the plans. SUE notes are included at the top right corner on each site plan, and the contractor can use this data to evaluate expected risk. These notes state where the plans were not able to meet or exceed Quality Level B. The SUE law and requirements are intended to provide contractors with as much information as possible prior to bidding so they may evaluate risk and decide where they may plan to pothole to limit that risk. A bid item for potholing has not been included in the bid schedule or bid documents. Regardless, contractors will be required to call 811 for notifications prior to excavation.
Q3 - 8	Bid Item #41 – Relocate Existing Communications Line: Typically, utility relocations are coordinated directly between the City and the utility owner. Could you please clarify what scope of work is included under this bid item?	The City will initiate coordination with impacted utility owners such as Xcel and Comcast for any conflicts. The contractor's scope of work for this bid item shall include: coordinating schedules with the utility owner once contact has been established and constructing and providing access to trenches and areas for utility owner to perform the relocation.

Q9	Please Clarify the Warranty period fo this Project	The Warranty period covers 2-years following substantial completion of the project.
Q10	Please define the size and material type to be used for the "landscape drain" as shown on drawing 17 for the lateral pipe going to the driveway and the area inlet.	See Note 3 on Sheet 17. Contractor shall disucss final design and layout of the smaller drain pipe, driveway, and driveway inlet with the homeowner prior to mobilizing on-site. This portion of the work shall be connected to the large drain pipe but paid for separately by the homeowner if they choose to proceed with the work.
Q11	Please clarify that the quantities for Site B of the 18" RCP Pipe and the Type M Riprap are correct, we are coming up with differences.	The 18" RCP and Type M Riprap quantities were incorrect, they should be 85 LF and 11 CY, respectively.
Q12	Please define any working hour restrictions for this project.	Working hours will be from 7:00am-7:00pm, Monday - Friday. No weekend or holiday work will be allowed, unless it is deemed an emergency.
Q13	Please clarify if the project will require any CLSM, Flowfill or Flashfill backfill for the utility trench backfill.	
Q14	Please clarify if any laydown or staging areas will be provided by the city for this program.	For liability purposes, the city will not provide any laydown yards or staging areas outside of the Limits of Disturbance already designated on the plans.
Q15	Please identify the location of the existing water line valves associated with the water line relocations at Site H & I in order to determine the amount of dewatering necessary.	
Q16	Please clarify the material type to be used for the waterline relocation items.	
Q17	How are the minimum qualifications to be submitted with the bid package the required contractor submittal form in the bid documents don't discuss, please clarify.	
Q18	Is pipe existing between Existing storm inlet and 36" connection in Garrison? If so, is the existing 36" as well?	On Sheet 7, Profile 2: There is currently an existing 36" RCP between Exst Gate 1 and Exst Gate 2. The western 31 LF of this existing 36" RCP will be removed and replaced with the proposed 24" RCP, and the Inlet 3 will be installed on the west side of Garrison. The rest of the existing 36" RCP shall be left as-is but connected to the new Inlet 3.
Q19	At the driveway to cross, plans do not indicate removal and replacement between the driveway transitions, will the Curb/Gutter and sidewalk at the drive be replaced?	
Q20	What is "Valve Excluded from bid table" referring?	
Q21	Is the existing waterline to be relocated 8",or 6", both are referenced on the profile	



CITY OF ARVADA

PURCHASING DIVISION
FACSIMILE: 720-898-7098 ▲ TDD: 720-898-7869
PHONE: 720-898-7099

REQUEST FOR BID- ADDENDUM No. 3

Bid #: 25-ENG-031
Title: Drainage Improvements (24-DR-20)
Addendum #: Three
Today's Date: 04/15/2025
Questions Deadline: 04/17/2025 **2:00 PM** MDT (NO CHANGE)
Proposals Due By: **04/30/2025 2:00 PM** MDT (**CHANGED**)

Solicitation and all related addenda and communications are available at WWW.BIDNETDIRECT.COM

The following clarifications and final Q&A are in this Addendum 3
All other information shall remain unchanged.

1. Attached here and in BidNet are final Q&A
Also includes Drawings and Hit water line valves

Questions & Answers - 2

Project 25-ENG-031 - Drainage Improvements
Buying Organization City of Arvada

No	Question/Answer	Question Date
Q12	Question: Project working hours Please define any working hour restrictions for this project. Answer: Working hours will be from 7:00am-7:00pm, Monday - Friday. No weekend or holiday work will be allowed, unless it is deemed an emergency.	04/16/2025
Q13	Question: CLSM, Flowfill trench backfill Please clarify if the project will require any CLSM, Flowfill or Flashfill backfill for the utility trench backfill. Answer: Per City standard spec 368.00, all new storm pipes shall be backfilled with flow-fill or flashfill that meets the requirements of MGPEC Section 19. Pipe bedding shall meet the requirements of standard spec 367.00.	04/16/2025
Q15	Question: Existing water valve locations Please identify the location of the existing water line valves associated with the water line relocations at Site H & I in order to determine the amount of dewatering necessary. Answer: Please see the attached PDFs of the existing valve locations at each site, circled in red.	04/16/2025
Q16	Question: Material type clarification Please clarify the material type to be used for the waterline relocation items. Answer: See City standard specs 420.00. Waterline pipe material shall be PVCO C-909 or PVC C-900. Fittings for the PVC shall be ductile iron in accordance with section 420.06. Also see detail drawings 400-12 and 400-13 for other requirements such as tracer wire, cathodic protection, insulation, etc. Joints for the storm pipe on both sides of the waterline crossing shall be concrete encased per section 417.05. A bored crossing will not be required since these areas will be in open cut	04/16/2025
Q17	Question: Minimum qualifications How are the minimum qualifications to be submitted with the bid package the required contractor submittal form in the bid documents don't discuss, please clarify. Answer: The contractor shall submit a brief summary of past projects that meet these minimum qualifications. The summary shall include a short description of the project, the approximate timeframe of construction (month/year), and the quantity of waterline lowerings and gravity sewer installations for each project. The minimum qualifications were originally only noted in the pre-bid notes and not included in the CSB.	04/16/2025

No	Question/Answer	Question Date
Q19	Question: Site H flatwork At the driveway to cross, plans do not indicate removal and replacement between the driveway transitions, will the Curb/Gutter and sidewalk at the drive be replaced? Answer: Yes, for Site H, the curb, gutter, sidewalk, and driveway transitions shall be replaced at the concrete and asphalt driveways on the east side of 5995 Ward Rd. The driveways themselves shall be left as-is. The c/g/s thru this section shall be restored back to existing as a driveway ramp. This replacement has been included in the total Bid Item 48 quantity for R&R of c/g/s.	04/17/2025
Q20	Question: Site H Water What is "Valve Excluded from bid table" referring? Answer: Installation of new valves is not required for the lowered waterlines.	04/17/2025
Q21	Question: Site I Waterline Is the existing waterline to be relocated 8", or 6", both are referenced on the profile? Answer: Site H is a 6" PVC waterline and Site I is a 8" PVC waterline. The note on Site I has been corrected to read as 8".	04/17/2025

GENERAL

- STREET

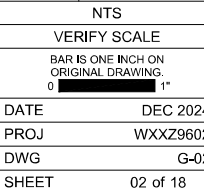
EROSION CONTROL

SUBSURFACE UTILITY ENGINEERING (SUE) NOTES

- FILENAME: 02_General Notes.dwg

PLOT DATE: December 9, 2024

PLOT TIME: 6:14:01 PM



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REUSE OF DOCUMENTS:

FINAL CONSTRUCTION DOCUMENTS

Section 2721

Engineered Surface Drainage Products

GENERAL

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

MATERIALS

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

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DRAWN BY CJA

MATERIAL

DATE 3-10-00

REVISÉ BY NMH

PROJECT NO./NAME	DATE	TIME	LOCATION	WIND DIRECTION	WIND SPEED	WAVE PERIOD	WAVE HEIGHT	WAVE LENGTH	WAVE DIRECTION	WAVE PERIOD	WAVE HEIGHT	WAVE LENGTH	WAVE DIRECTION
1	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
2	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
3	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
4	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
5	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
6	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
7	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
8	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
9	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
10	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
11	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
12	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
13	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
14	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
15	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
16	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
17	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
18	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
19	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
20	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
21	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
22	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
23	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
24	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
25	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
26	1/1/2018	10:00	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m
27	1/1/2018	10:00	100m	100m									

DATE 02-21-1

DWG SIZE	A
----------	---

SCALE

SHEET 1 OF 1



3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE

8 IN - 36 IN DRAIN BASIN SPECIFICATIONS

DWG NO.

7001-110-011

REV J

APPROVED:

Cell V
City Engineer

2/20/25
Date

24-DR-20
Job Number

NTS

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.

DATE	DEC 2024
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PROJ	WXXZ9602	
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DWG	G-04
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SHEET	04 of 18
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ARVADA, COLORADO 80002
PHONE 720-898-7640

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24-DR-20 DRAINAGE IMPROVEMENTS

NYLOPLAST

2024 DRAINAGE IMPROVEMENTS

ION DOCUMENTS

REVISIONS

FINAL CONSTRUCTION DOCUMENTS

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\$PWURL

SPWPATH

FILENAME: SITE A SHEET 1.dwg

PLOT DATE: January 22, 2025

PLOT TIME: 1:24:23 PM

SUE SHEET NOTES

- 1 UNABLE TO LOCATE SANITARY SEWER, RECORDS INDICATE A POTENTIAL CONNECTION TO MAIN IN W. 64TH ST. SHOWN AS QUALITY LEVEL D.
- 2 ALL OTHER UNLOCATABLE QUALITY LEVEL D UTILITIES ARE OUTSIDE THE PROJECT FOOTPRINT.



CIVIL SHEET NOTES

1. THESE ITEMS SHALL BE INCLUDED IN THE COST OF THE PIPE INSTALLATION:
 - CONNECTION TO EXISTING INLET
 - REMOVE AND REPLACE LANDSCAPING, WHICH INCLUDES SOIL, ROCK, MULCH, AND SHRUBS
 - REMOVE AND REPLACE FENCE
2. NO CONSTRUCTION ACTIVITIES SHALL BE ALLOWED ON SATURDAYS AND SUNDAYS. FULL SITE ACCESS MUST BE PROVIDED ON SATURDAYS AND SUNDAYS.
3. ALL NEW STORM INFRASTRUCTURE SHALL BE PRIVATELY OWNED AND MAINTAINED.

[illegible]

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FINAL CONSTRUCTION DOCUMENTS



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24-DR-20 DRAINAGE IMPROVEMENTS
2024 DRAINAGE IMPROVEMENTS
SITE A
W 64TH AVE AND URBAN ST
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
8101 RALSTON ROAD
ARVADA, COLORADO 80002
PHONE 720-898-7640

24-DR-20 DRAINAGE IMPROVEMENTS

SITE A
W 64TH AVE AND URBAN ST

4	2	1	FINAL CONSTRUCTION DOCUMENTS
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 $1'' = 10'$

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING

DATE	DEC 2024
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PROJ	WXXZ9602
------	----------

DWG	C-01
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SHEET 06 of 18

APPROVED:

City Engineer

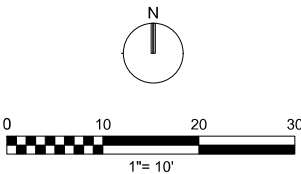
2/20/25

Date _____

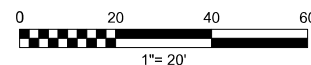
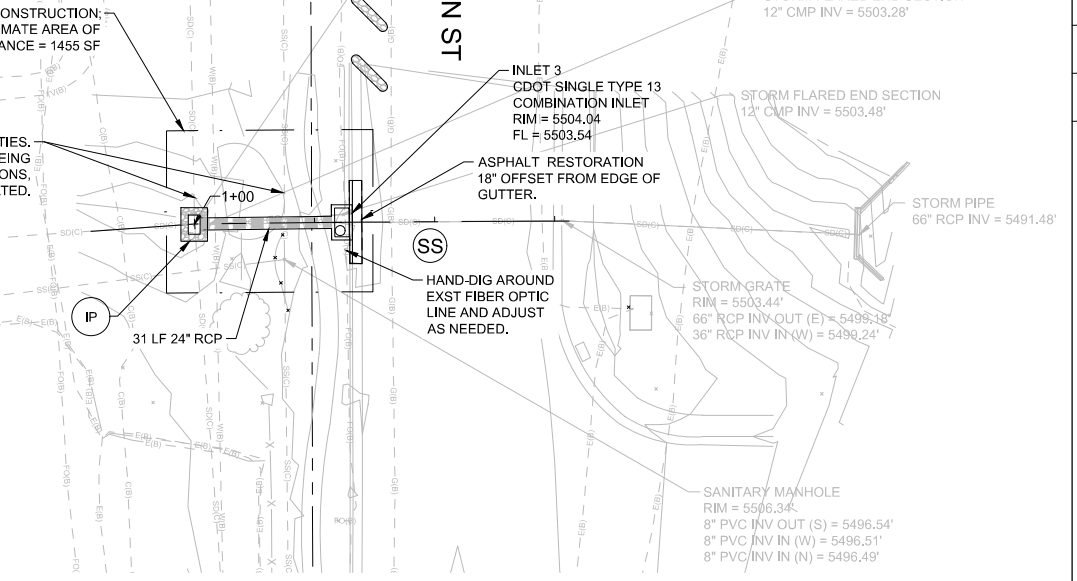
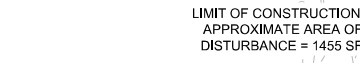
24-DR-20

Job Number

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PAYMENT FOR INSTALLATION OF CURB INLETS SHALL INCLUDE REMOVAL AND REPLACEMENT OF CURB, GUTTER, SIDEWALK, AND ADJACENT ASPHALT PER CITY OF ARVADA STANDARDS AND LIMITS SHOWN.



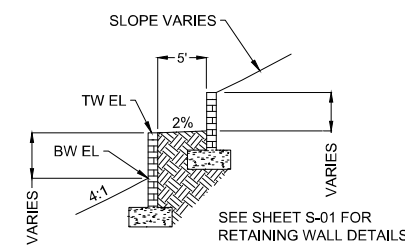
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2024 DRAINAGE IMPROVEMENTS SITE B - PLAN 1 W 86TH PL AND GARRISON ST	ENGINEERING DIVISION 8101 RALSTON ROAD ARVADA, COLORADO 80002 PHONE 720-898-7640	REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGN CONCEPTS CONTAINED HEREIN, ARE THE PROPERTY OF THE CITY OF ARVADA AND ARE NOT TO BE REPRODUCED OR USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE CITY OF ARVADA.
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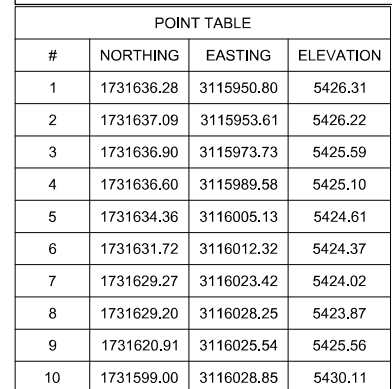
[illegible]

	02	04			PHONE 720-330-7070		JL	JP	ST	CB
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A CHANNEL SECTION
1" = 10'

B WALL SECTION
1" = 10'



SUE SHEET NOTES

1. UNABLE TO LOCATED CITY OF ARVADA WATERLINE
RUNNING SW-NE IN PROJECT AREA, LIMITED MAP
DATA AVAILABLE. SHOWN AS QUALITY LEVEL D.

2. ALL OTHER UNLOCATED QUALITY LEVEL D
UTILITIES AREA OUTSIDE THE PROJECT
FOOTPRINT.

CIVIL SHEET NOTES

 1. PROTECT IN PLACE ALL EXST UTILITIES, OR
RELOCATE AS NEEDED, AND EXERCISE CAUTION
DURING GRADING ACTIVITIES. RECOMMEND
STAKING OUT EXISTING UTILITIES PRIOR TO
OPERATIONS AND UTILIZE HAND GRADING AS
NEEDED.
 2. INSTALL 12" PVC PIPE BEFORE INSTALLATION
OF RETAINING WALL.

CIVIL SHEET NOTES

POINT TABLE			
#	NORTHING	EASTING	ELEVATION
1	1731636.28	3115950.80	5426.31
2	1731637.09	3115953.61	5426.22
3	1731636.90	3115973.73	5425.59
4	1731636.60	3115989.58	5425.10
5	1731634.36	3116005.13	5424.61
6	1731631.72	3116012.32	5424.37
7	1731629.27	3116023.42	5424.02
8	1731629.20	3116028.25	5423.87
9	1731620.91	3116025.54	5425.56
10	1731599.00	3116028.85	5430.11



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2024 DRAINAGE IMPROVEMENTS
SITE C
W 80TH AVE AND ALLISON WAY

FINAL CONSTRUCTION DOCUMENTS

 $1'' = 20'$

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.

DATE	DEC 2024
------	----------

DATE	DEC 2024
PROJ	WXY79602

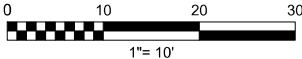
PROJ	WAAZ500Z
DWG	C 04

DWG	C-04
SHEET	00 of 18

SHEET 09 OF 18

APPROVED: CEL VJ 2/20/25 24-DR-20
City Engineer Date Job Number

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1" = 20'	
VERIFY SCALE	
BAR IS ONE INCH ON ORIGINAL DRAWING.	
0	1"
DATE	DEC 2
PROJ	WXXZ9
DWG	C
SHEET	10 of 18

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GENERAL NOTES

- STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH COLORADO DEPARTMENT OF TRANSPORTATION 2019 STANDARD PLANS M-206-1 FOR CAST-IN-PLACE RETAINING WALLS.
- ALL REINFORCING STEEL SHALL BE NON-EPOXY COATED UNLESS OTHERWISE NOTED.
- GRADE 60 REINFORCING STEEL IS REQUIRED.
- ALL CONCRETE SHALL BE CLASS D IN ACCORDANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION 2022 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 3/4".
- ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE LATEST EDITION OF THE CURRENT DRAWINGS AND STANDARDS AS SPECIFIED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. ANY DISCREPANCIES AND/OR INCONSISTENCIES SHALL BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE ORDERING OR FABRICATING ANY MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION.
- WEAKENED PLANES TO EXTEND ALONG THE FULL HEIGHT OF THE STEM WALL. DO NOT EXTEND WEAKENED PLANES THROUGH THE FOOTING.

DESIGN DATA

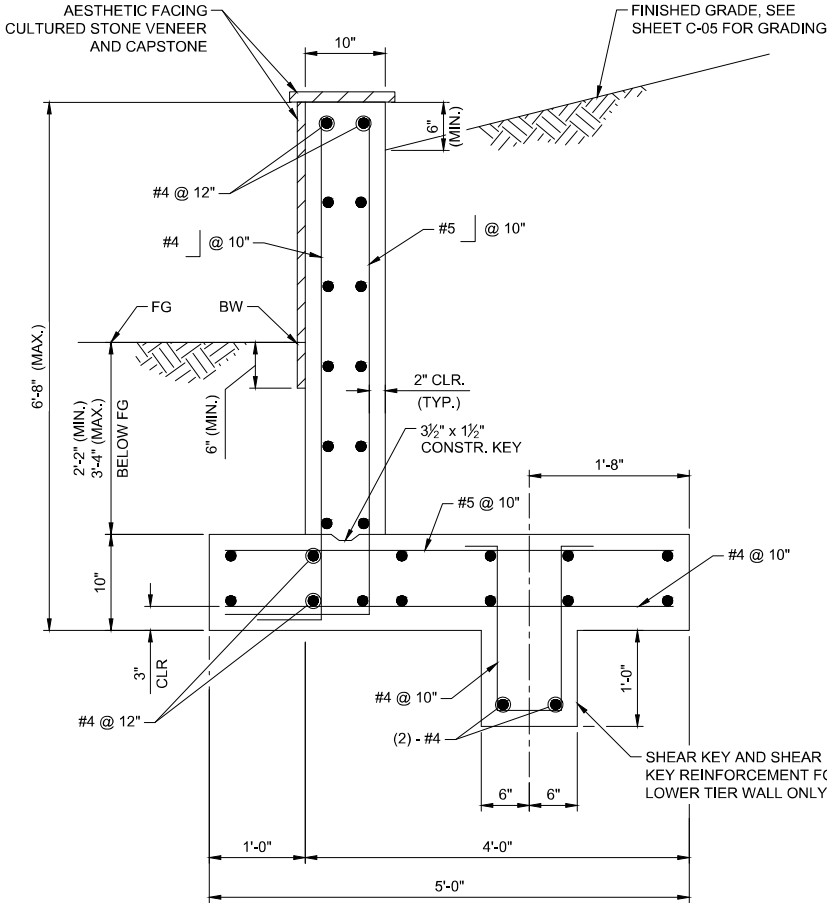
AASHTO, NINTH EDITION LRFD, 2020

DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN

REINFORCED CONCRETE:

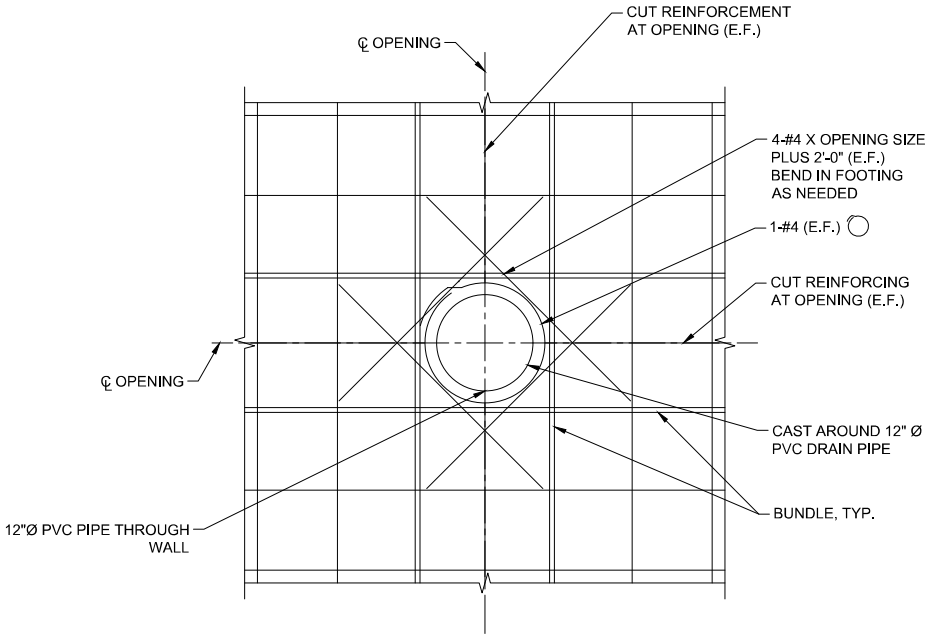
CLASS D CONCRETE $f_c = 4,500$ PSI
REINFORCING STEEL $f_y = 60,000$ PSI

SOIL PROPERTIES: BACKFILL (CLASS 1)
 $\phi = 34^\circ$
 UNIT WEIGHT OF SOIL = 125 PCF
 NOMINAL BEARING PRESSURE = 4,000 PCF



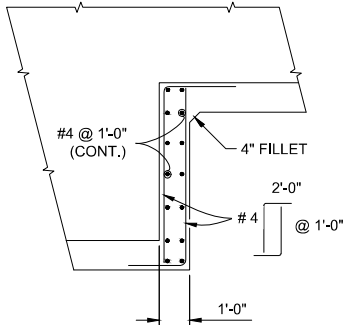
RETAINING WALL TYPICAL SECTION

NTS



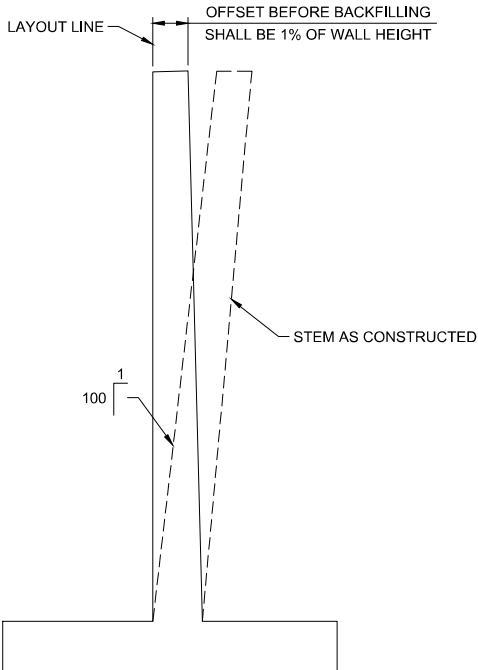
PIPE PENETRATION DETAIL

NTS



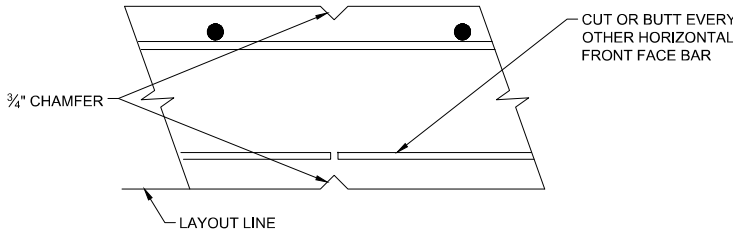
FOOTING STEP ELEVATION

NTS
(OPTIONAL)



WALL OFFSETS

NTS



WEAKENED PLANE

@ 22'-0" MAX
(SEE NOTE 9)

APPROVED: *[Signature]* 2/20/25 24-DR-20
City Engineer Date Job Number

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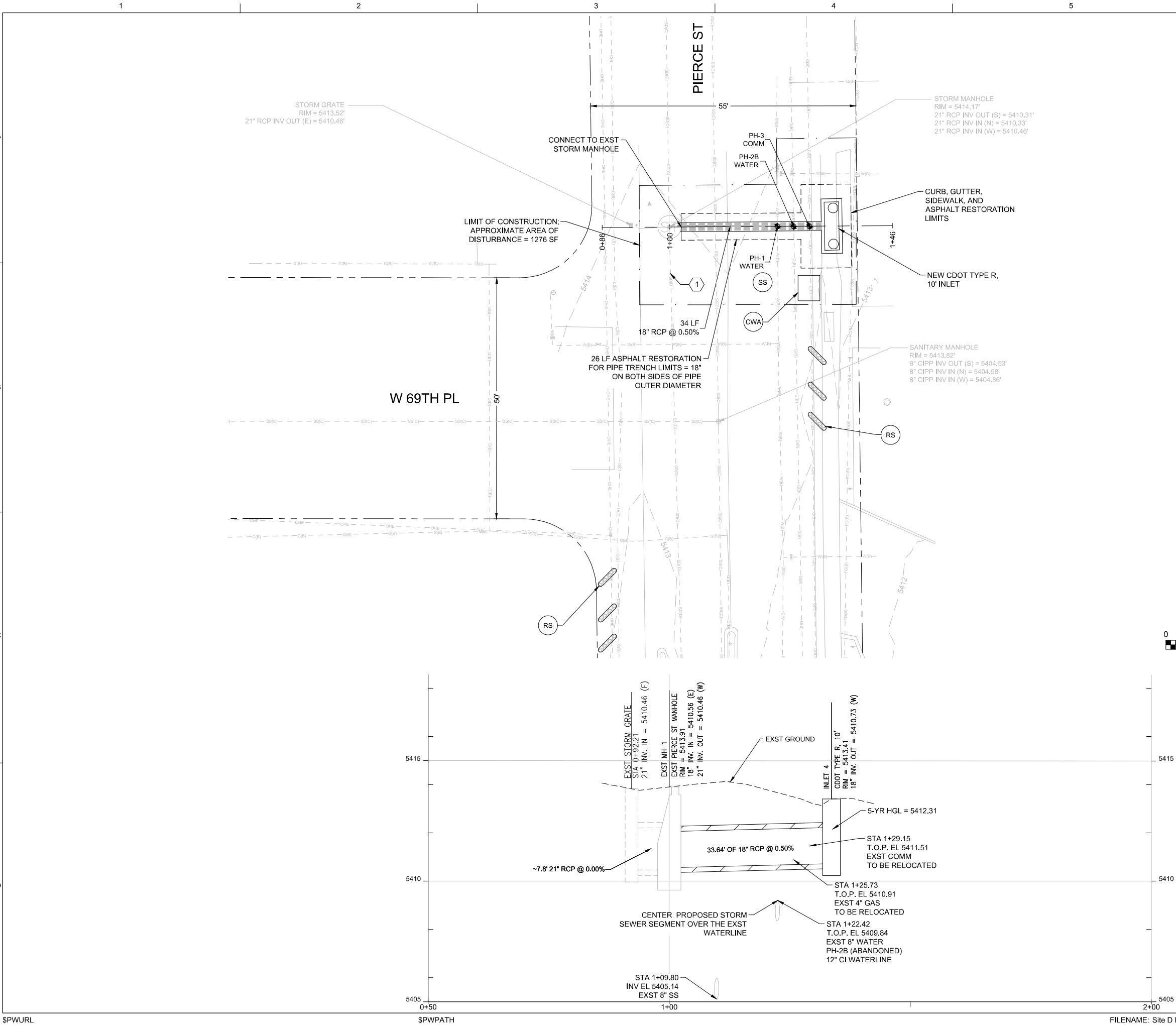


NO.	DATE	DR	SS	CHK	APVD	TMB
6						
5						
4						
3						
2						
1						

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24-DR-20 DRAINAGE IMPROVEMENTS
SITE C
RETAINING WALL DETAILS

DATE	DEC 2024
PROJ	WXXZ9602
DWG	S-01
SHEET	11 of 18



SUE SHEET NOTES

1 THE 21" RCP EXTENDS TO THE SOUTH. THE SUBSEQUENT MANHOLE WAS OUTSIDE THE LIMITS OF INVESTIGATION AND THE LINE IS SHOWN AS QUALITY LEVEL D.

CIVIL SHEETS NOTES

PAYMENT FOR INSTALLATION OF CURB INLETS SHALL INCLUDE REMOVAL AND REPLACEMENT OF CURB, GUTTER, SIDEWALK, AND ADJACENT ASPHALT PER CITY OF ARVADA STANDARDS AND LIMITS SHOWN.



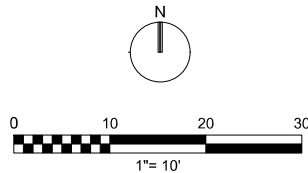
NO.	DATE	DR	CHK	APVD	CB
1					
2					
3					
4					
5					
6					



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24-DR-20 DRAINAGE IMPROVEMENTS
SITE D
W 69TH PL AND PIERCE ST

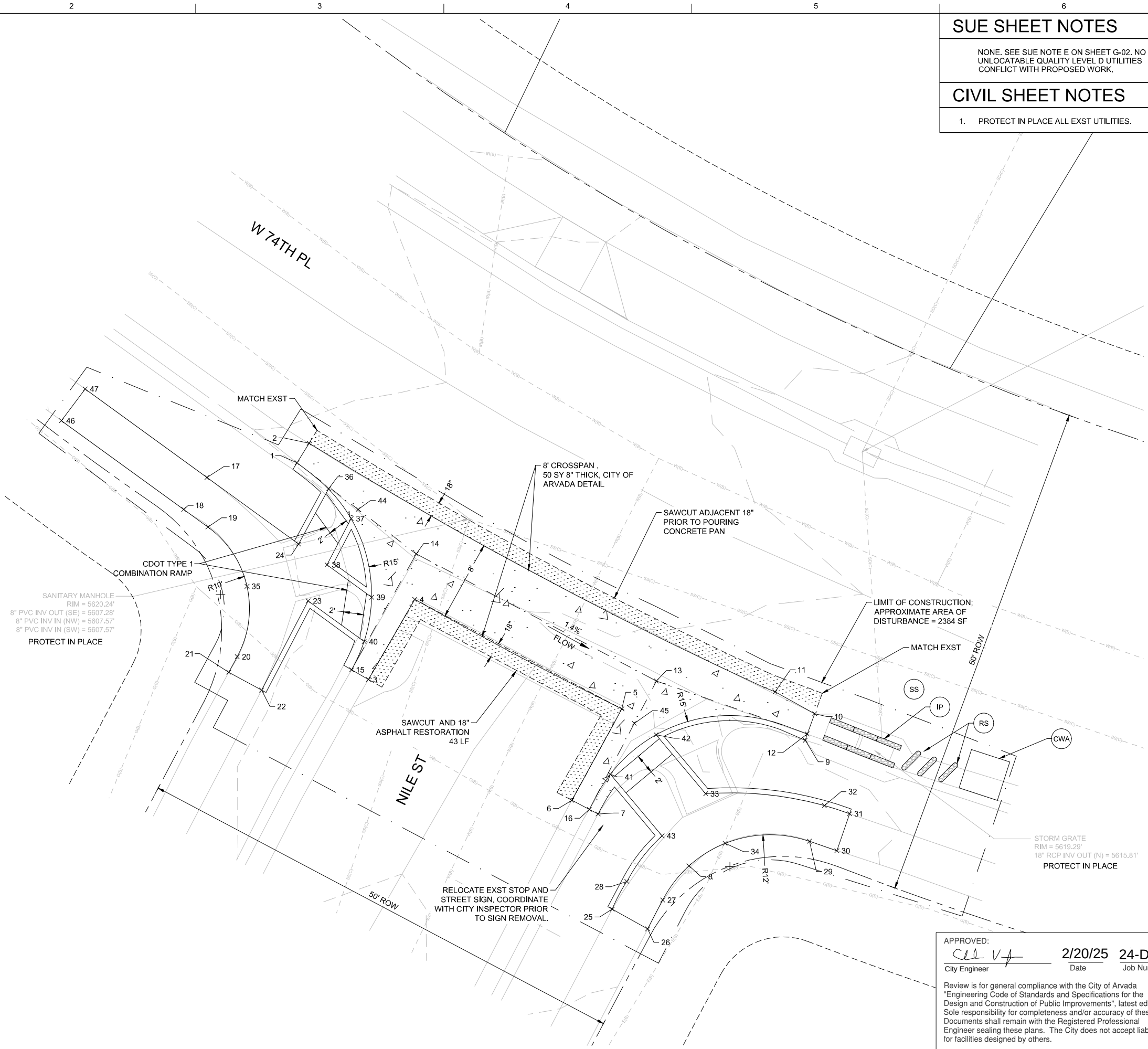
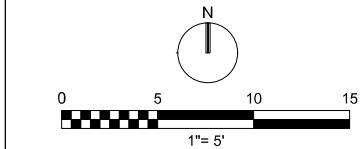


APPROVED: *[Signature]* 2/20/25 24-DR-20
City Engineer Date Job Number

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DATE	DEC 2024
PROJ	WXXZ9602
DWG	C-06
SHEET	12 of 18

POINT TABLE				
#	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1727890.80	3090576.27	5620.81	PAN
2	1727892.74	3090577.47	5620.90	PAN
3	1727869.29	3090583.36	5620.31	PAN
4	1727877.24	3090587.96	5620.27	PAN
5	1727866.37	3090608.52	5620.12	PAN
6	1727857.30	3090603.56	5620.41	PAN
7	1727855.94	3090606.17	5620.58	PAN
8	1727850.80	3090615.19	5620.70	RAMP
9	1727863.26	3090626.73	5619.91	PAN
10	1727865.89	3090627.67	5619.59	PAN
11	1727868.06	3090623.73	5619.70	PAN
12	1727863.89	3090626.93	5619.33	FL
13	1727869.14	3090611.95	5619.76	FL
14	1727881.75	3090588.11	5620.09	FL
15	1727870.26	3090581.70	5620.22	FL
16	1727856.40	3090605.29	5620.27	FL
17	1727889.34	3090567.33	5621.18	SW
18	1727886.17	3090565.03	5621.24	SW
19	1727884.43	3090567.43	5621.10	SW
20	1727871.55	3090570.34	5621.07	SW
21	1727870.01	3090569.50	5621.15	SW
22	1727868.23	3090572.76	5621.09	SW
23	1727877.09	3090577.38	5620.66	SW
24	1727882.73	3090576.43	5620.66	SW
25	1727846.50	3090607.57	5620.76	SW
26	1727844.53	3090611.08	5620.85	SW
27	1727847.40	3090612.57	5620.78	SW
28	1727849.24	3090609.02	5620.72	SW
29	1727853.23	3090627.14	5620.46	SW
30	1727852.29	3090629.87	5620.40	SW
31	1727855.96	3090631.14	5620.30	SW
32	1727856.77	3090628.63	5620.35	SW
33	1727857.95	3090616.84	5620.55	SW
34	1727853.03	3090618.77	5620.63	SW
35	1727878.54	3090571.31	5620.76	SW
36	1727888.22	3090579.41	5620.62	RAMP
37	1727885.27	3090581.66	5620.57	RAMP
38	1727880.68	3090579.26	5620.69	RAMP
39	1727877.46	3090583.69	5620.17	RAMP
40	1727873.05	3090582.94	5620.20	RAMP
41	1727859.89	3090607.38	5620.09	RAMP
42	1727863.81	3090611.92	5620.00	RAMP
43	1727853.77	3090612.51	5620.64	RAMP
44	1727886.17	3090582.34	5620.57	PAN
45	1727864.94	3090609.76	5620.08	PAN
46	1727894.98	3090552.89	5621.96	SW
47	1727898.13	3090555.24	5621.88	SW



SUE SHEET NOTES

NONE. SEE SUE NOTE E ON SHEET G-02. NO UNLOCATABLE QUALITY LEVEL D UTILITIES CONFLICT WITH PROPOSED WORK.

CIVIL SHEET NOTES

1. PROTECT IN PLACE ALL EXST UTILITIES.

6

5

4

3

2

1

NO.

DATE

REVISION

1

JAN 2025

REVISED FOR BID SET

DB

BY

APVD

CB

ST

CB

CITY OF ARVADA

PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
8101 RALSTON ROAD
ARVADA, COLORADO 80002
PHONE 720-898-7640

24-DR-20 DRAINAGE IMPROVEMENTS

SITE E

W 74TH PL AND NILE ST

1" = 10'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 1"

DATE DEC 2024

PROJ WXXZ9602

DWG C-07

SHEET 13 of 18

FINAL CONSTRUCTION DOCUMENTS

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SPWURL

SPWPATH

FILENAME: Site E Plan Sheet.dwg

PLOT DATE: January 23, 2025

PLOT TIME: 5:35:58 PM

CIVIL SHEET NOTES

1. PROTECT IN PLACE OR RELOCATE AS NEEDED, EXST UTILITIES.
2. RELOCATION OF EXISTING UTILITIES SHALL BE INCLUDED IN THE COST OF THE STORMSEWER INSTALLATION, WITH THE EXCEPTION OF THE WATERLINE, WHICH SHALL BE CONSIDERED A SEPARATE BID ITEM.
3. CONTRACTOR SHALL COORDINATE WITH RESIDENTS ON TIMING OF DRIVEWAY CLOSURE DURING STORMSEWER INSTALLATION AND PROVIDE A MINIMUM 7-DAY ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES AND CLOSURES. CLOSURE TIMEFRAME SHALL BE MINIMIZED TO THE GREATEST EXTENT FEASIBLE.

SUE SHEET NOTES

1. UNABLE TO LOCATE GAS SERVICE. SHOWN AS QUALITY LEVEL D.
2. UNABLE TO LOCATE 1 1/4" GAS LINE RUNNING S-N BETWEEN XENON ST AND WRIGHT ST, SHOWN AS QUALITY LEVEL D.
3. UNABLE TO LOCATE GAS SERVICE RUNNING S-N WHERE INDICATED VIA SURFACE GEOPHYSICAL TECHNIQUES. HOWEVER A POTHOLE EXPLORATION IDENTIFIED THE SERVICE LINE IN PH-7. SERVICE LINE REMAINS AS QUALITY LEVEL D.
4. UNABLE TO LOCATE GAS SERVICE RUNNING N-S WHERE INDICATED VIA SURFACE GEOPHYSICAL TECHNIQUES. AN EXISTING SERVICE IS NOTED IN THIS VICINITY PER XCEL ENERGY MAPS.



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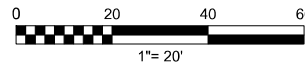


JACOBS

24-DR-20 DRAINAGE IMPROVEMENTS
2024 DRAINAGE IMPROVEMENTS
SITE H
W 60TH AVE AND WARD RD

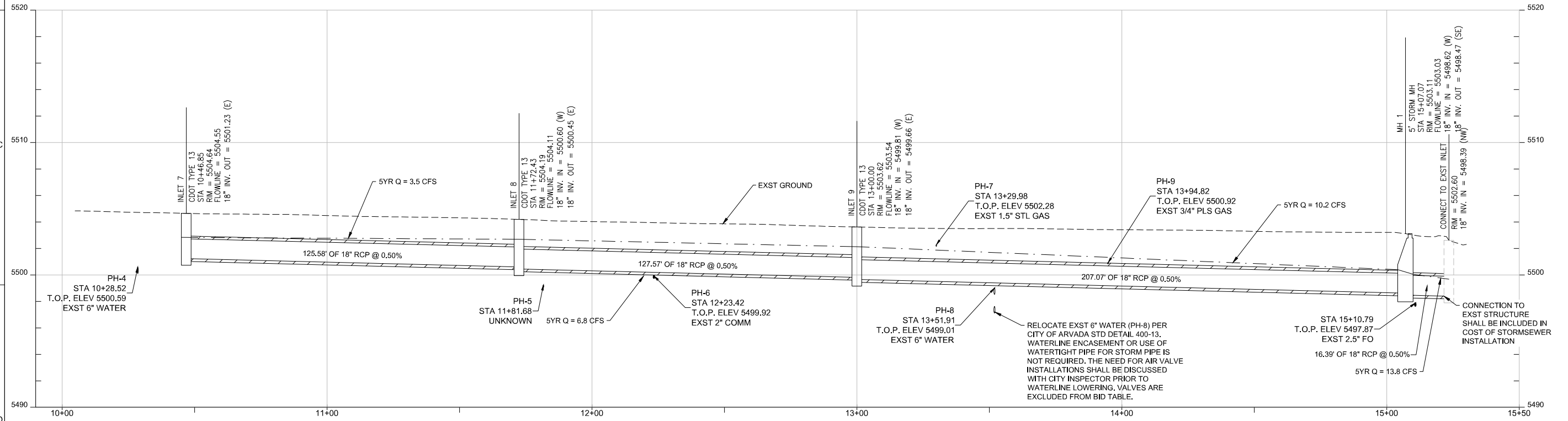
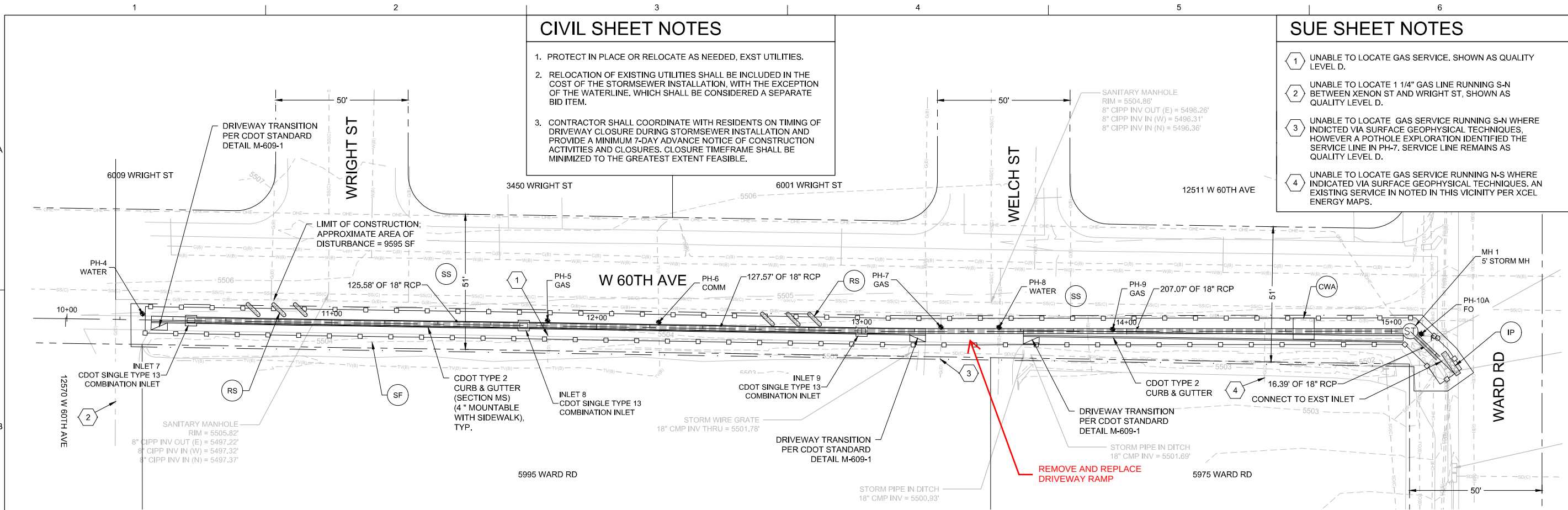
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ARVADA, COLORADO 80002
PHONE 720-898-7640

1" = 20'
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
DATE DEC 2024
PROJ WXXZ9602
DWG C-09
SHEET 15 of 18



APPROVED: *[Signature]* 2/20/25 24-DR-20
City Engineer Date Job Number

Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.



SPWURL

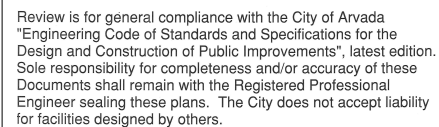
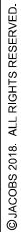
SPWPATH

FILENAME: Site H Plan Sheet.dwg

PLOT DATE: January 22, 2025

PLOT TIME: 5:22:23 PM

PAYMENT FOR INSTALLATION OF MANHOLE, STORM PIPE, AND INLET SHALL INCLUDE REMOVAL AND REPLACEMENT OF CURB, GUTTER, SIDEWALK, LANDSCAPING AND ADJACENT ASPHALT PER THE CITY OF ARVADA STANDARDS AND LIMITS SHOWN.



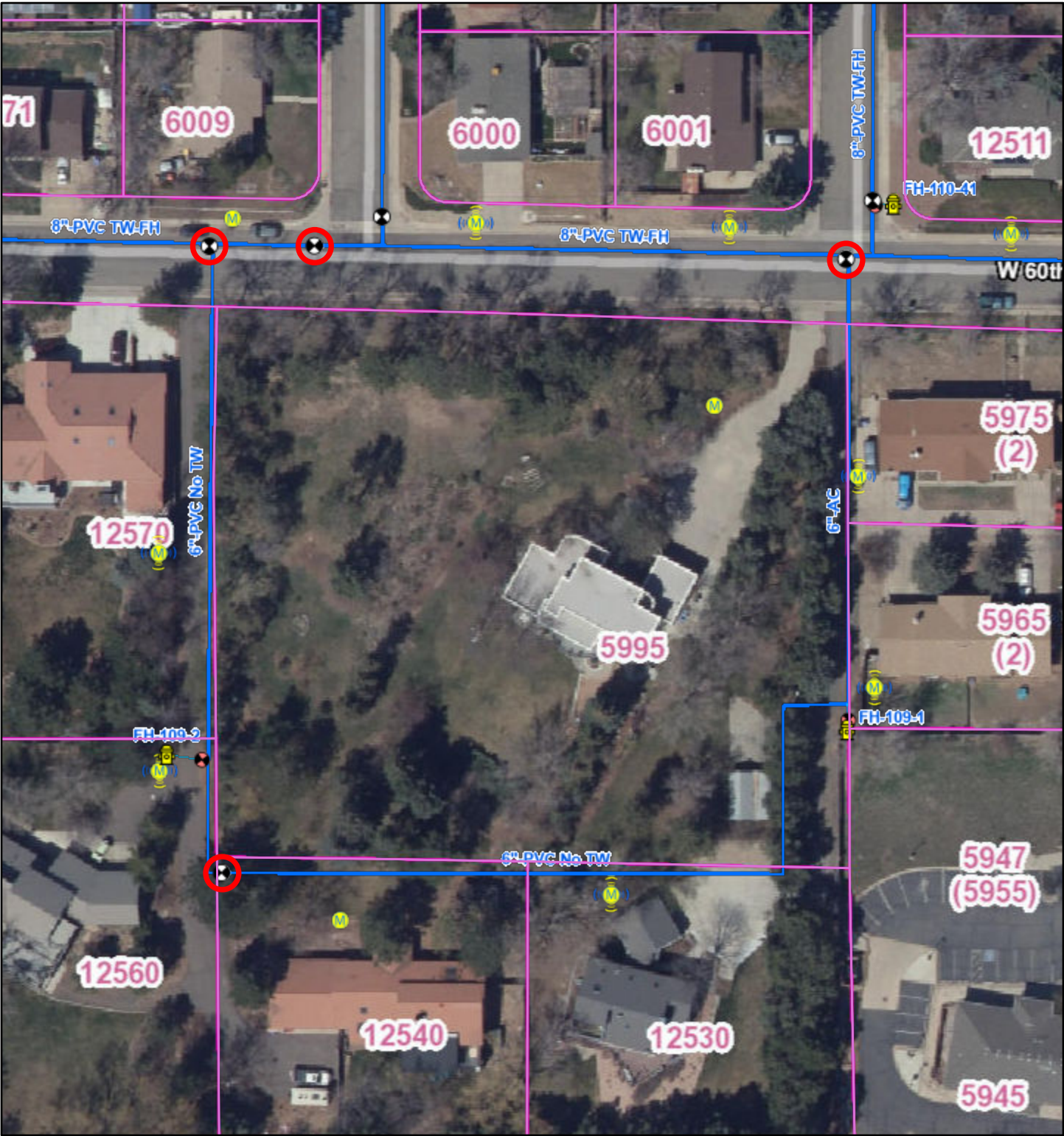
Jacobs

2024 DRAINAGE IMPROVEMENTS
SITE I- PLAN 1
W 74TH AVE AT KIPLING ST

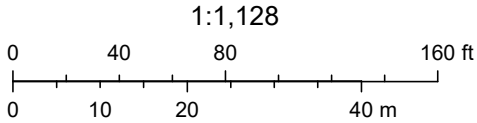
24-DR-20 DRAINAGE IMPROVEMENTS

FINAL CONSTRUCTION DOCUMENTS

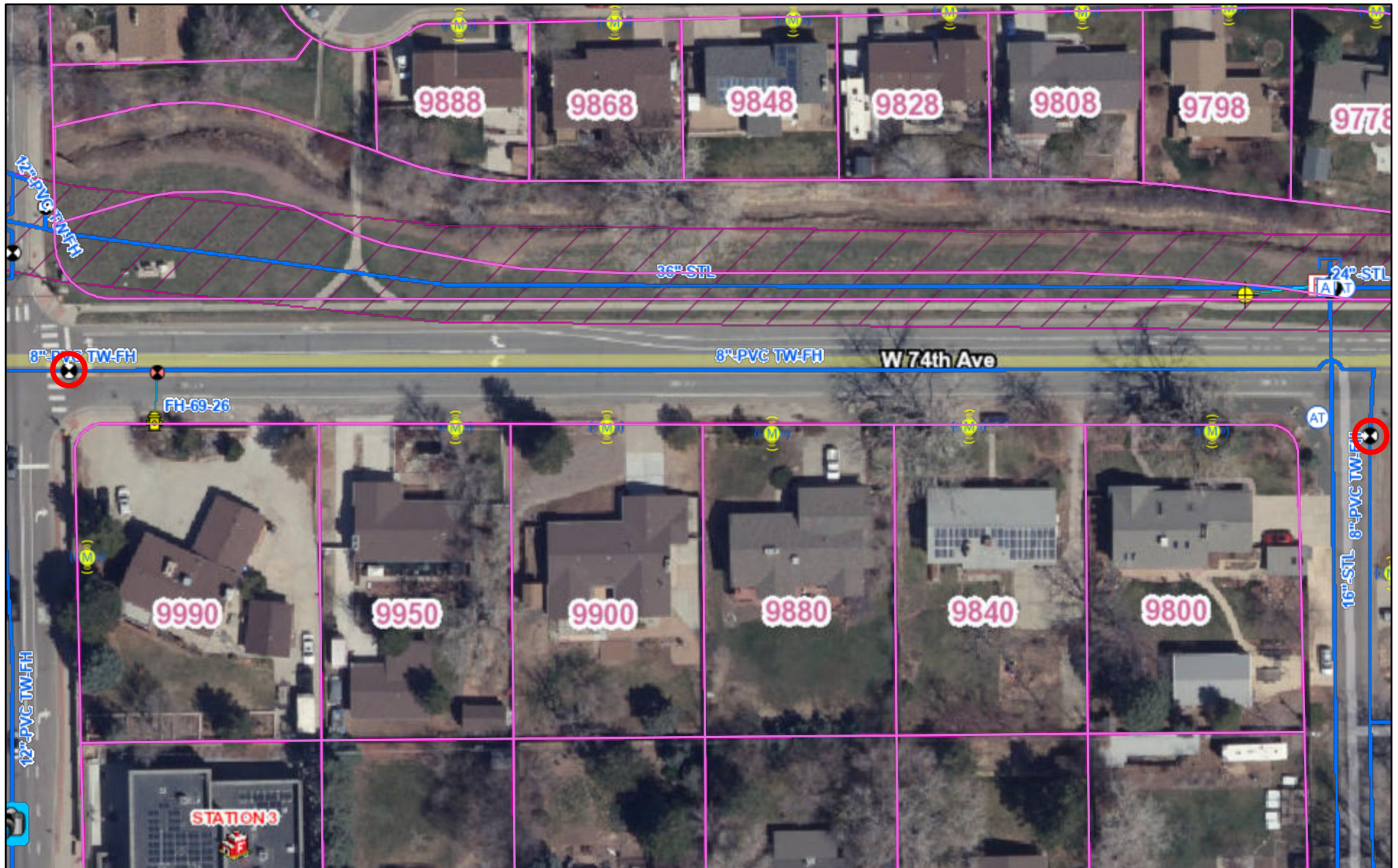
Site H Water Line Valves



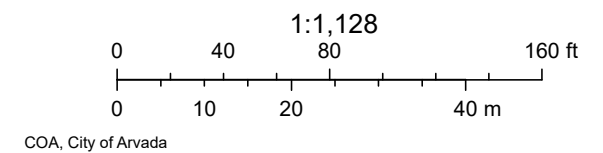
4/22/2025, 10:49:15 AM



Site I - Plan 1 Water Line Valves



4/22/2025, 11:54:32 AM



COA, City of Arvada

City of Arvada
City of Arvada

Contractor's Response Exhibit

An Agreement by and Between the City of Arvada and Nexcivil
Engineering and Construction LLC for 2024 Drainage
Improvements, CSB 25-ENG-031, in an Amount not to Exceed
\$598,924.68



Conforms with The American Institute of Architects,
A.I.A. Document A310 (2010 Edition)

Bid Bond

CONTRACTOR:

(Name, legal status and address)

NexCivil Engineering and Construction
3190 S Vaughn Way Suite 550
Aurora, CO 80014

SURETY:

(Name, legal status and principal place
of business)

Old Republic Surety Company
18500 W Corporate Drive, Suite 170
Brookfield, WI 53045

OWNER:

(Name, legal status and address)

City of Arvada, 8101 Ralston Road Arvada, CO 80002

BOND AMOUNT:

\$600,000

PROJECT:

(Name, location or address, and Project number, if any)

Installation of water line, sanitary line, storm systems and grading - Arvada, CO

This document has important legal
consequences. Consultation with
an attorney is encouraged with
respect to its completion or
modification.

Any singular reference to
Contractor, Surety, Owner or
other party shall be considered
plural where applicable.

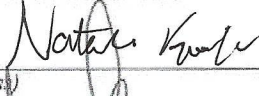
The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

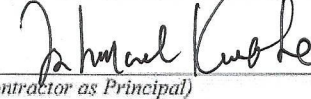
When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 28th

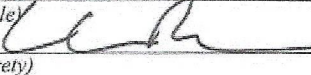
day of April, 2025


(Witness)


(Witness)


(Contractor as Principal)

(Seal)


(Surety)

Attorney in Fact
(Title)

(Seal)



BID PROPOSAL

TO: City of Arvada, Colorado (hereinafter called "CITY").

FROM: NexCivil Engineering and Construction LLC (hereinafter called "BIDDER"), organized and existing under the laws of the State of Colorado doing business as (a corporation) (a partnership), (an individual).

The Bidder, in compliance with your Advertisement for Bids, hereby proposes to perform all Work in strict accordance with the Contract Documents, for the construction of City of Arvada Project No. 25-ENG-031 entitled Drainage Improvements within the time set forth therein, and at the prices stated on the included Bid Schedule as totaled herein.

By submission of this Bid Proposal, each Bidder certifies, and in the case of a joint venture each party thereto certifies as to his/her own organization, that this Bid Proposal has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid Proposal with any other Bidder or with any competitor.

Bidder acknowledges receipt of **Addendum Nos.** 1,2,3 Initials: IK IK IK

Bidder states that their:

Major Material Suppliers are:

Oldcastle Infrastructure
Ferguson Water works
SRM Concrete

Material They Will Supply

Precast Structures
Waterline
Concrete

Major Subcontractors are:

Diversified Underground
Workzone Traffic Control

Work They Will Perform

Potholing
Workzone Traffic Control

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **120** consecutive calendar days after the date to be specified in the Notice to Proceed. bidder shall agree to pay the owner the sum of **\$1,400** for each calendar day that the work exceeds the allotted contract time. Contract time may be adjusted by Change Order.

Total from included Bid Schedule:

TOTAL BID \$ 598,924.68

SUBMITTED BY:

Company Name: NexCivil Engineering and Construction LLC

Contact Names: Ishmael Kwofie

Address: 3190 S Vaughn Way Ste 550, Aurora CO 80014

Phone: (720-) 237-2462 Email(s): bids@nexcivil.com, Ish@nexcivil.com, nexcivilec@gmail.com

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Contractor;
- He/she has read all Terms and Conditions and technical specifications made available in conjunction with this solicitation and fully accept and acknowledge this bid is consistent with the specifications and terms and conditions.
- The bid is in all respects fair, without outside collusion or otherwise illegal action.

By: Ishmael Kwofie 4/29/2025 99-2540008
Signature of Authorized Agent Date FEIN
Ishmael Kwofie President ish@nexcivil.com
Typed/Printed Name of Agent Title of Agent Agent email

PAYMENT TERMS: The City standard is net thirty (30) days but every effort is made to meet net fifteen (15) days after the approved partial payment date when the contractor is satisfactorily performing the contract. The final 5% of total payment will be paid once the contract is completed satisfactorily, advertisement for final settlement is complete, and the project is accepted by the City. Payment is the date of the check mailing or date of the credit card transaction.

REQUIRED CONTRACTOR SUBMITTAL FORM

SUBMITTAL CHECKLIST:

Bid Proposals shall be submitted in the order listed below with each section clearly identified. **Missing information or required documents may result in submission being deemed non-responsive.**

- ☒ Submit completed Bid Bond, Bid Proposal, Bid Schedule, Required Contractor Submittal, and any other attachments requested.
- ☒ Submit implementation timeline and warranties, if applicable.
- ☒ Attach Contractor's Licensing, if applicable. [See the attached We have attached City of Aurora ROW license and we also Pre approved CDOT List](#)
- ☒ Insurance – Checking this box accepts that the insurance requirements listed by the City are acceptable.
- ☒ Variations: Checking this box indicates that the contractor has variations to this solicitation. Identify all variations and exceptions to this CSB on a separate sheet/s of paper. If variations are not stated in the contractor's Offer, it shall be agreed that the contractor's Offer fully complies with all conditions identified in this Solicitation. For each variation listed, reference the applicable section of the solicitation document, the page number, and the variance. Submittal of a vendor contract is considered excessive in variations and may be cause for determining that the Bid is non-responsive and ineligible for award.

REFERENCES:

- ☐ Check here if Contractor's standard reference sheet is attached, otherwise, use the space below.

Name: Bergman Construction Contact Person: Jim Lindquist
Address: 2850 Saturn Street, Brea CA 92821

Telephone No: 714-831-7379 Email: jlindquist@bergmankprs.com

Describe type of work/service performed or items supplied: General Contractor

Name: Kiewit Contact Person: Dan Loene
Address: 1055 Trainstation Cir, LOne Tree CO 80124

Telephone No: 719 491 3881 Email: _____

Describe type of work/service performed or items supplied: General Contractor

Name: Mortenson Construction Contact Person: Abdul Yusif
Address: 1621 18th suite 400 Denver CO 80202

Telephone No: 973-752-7446 Email: _____

Describe type of work/service performed or items supplied: General Contractor

REVISED BID SCHEDULE

2024 Drainage Improvements

CSB 25-ENG-031 (Project #24-DR-20)

CITY OF
ARVADA

COMPANY NAME: NexCivil Engineering and Construction LLC

DATE: 4/29/2025

Items highlighted in yellow are for Addendum

Items highlighted in yellow are for Addendum		Total		Unit	
#	ITEM	Quantity	Unit	Cost	Extension
General					
1	Mobilization	1	LS	\$20,627.11	\$20,627.11
2	Water Control	1	LS	\$6,649.40	\$6,649.40
3	Traffic Control	1	LS	\$26,997.87	\$26,997.87
4	Street Sweeping and Site Cleanup	1	LS	\$4,449.69	\$4,449.69
5	Stormwater Management and Erosion Control (BMP's)	1	LS	\$6,649.40	\$6,649.40
6	Community Notification	1	LS	\$2,049.00	\$2,049.00
7	Construction Survey	1	LS	\$30,497.51	\$30,497.51
Site A					
W. 64th Ave. and Urban St.					
8	Remove and Replace Asphalt, min. 6" thick	233	SY	\$62.50	\$14,562.50
9	Remove and Replace Curb and Gutter	103	LF	\$59.21	\$6,098.63
10	Nyloplast 12" Universal Inline Drain, 5-10 Foot Depth	1	EA	\$5,853.63	\$5,853.63
11	Nyloplast 8" Corrugated HDPE Pipe	7	LF	\$55.04	\$385.28
Site B					
W. 86th Pl. and Garrison St.					
12	Remove and Dispose Existing 18" FES	2	EA	\$395.77	\$791.54
13	Remove and Dispose Existing 24" FES	2	EA	\$401.47	\$802.94
14	Remove and Dispose Existing Inlet	2	EA	\$1,267.36	\$2,534.72
15	Remove and Replace Asphalt, min. 6" Thick	76	SY	\$62.50	\$4,750.00
16	18" FES with Trash Rack	3	EA	\$2,074.90	\$6,224.70
17	24" FES with Trash Rack	1	EA	\$3,534.41	\$3,534.41
18	RCP Class III, 18-Inch Diameter	85	LF	\$115.00	\$9,775.00
19	RCP Class III, 24-Inch Diameter	31	LF	\$150.00	\$4,650.00
20	Storm Inlet, Type 13, Single, 5-10 Foot Depth	5	EA	\$8,041.45	\$40,207.25
21	Type M Riprap with Bedding	11	CY	\$293.24	\$3,225.64
22	Concrete Cross Pan (Trickle Channel) 6" Thick	28	SY	\$140.00	\$3,920.00
Site C					
W. 80th Ave. and Allison Way					
23	Remove and Dispose Existing 24" FES	1	EA	\$401.47	\$401.47
24	Remove and Dispose Existing 48" FES	1	EA	\$667.45	\$667.45
25	Remove and Dispose Existing 12" PVC	25	LF	\$34.54	\$863.50
26	Remove and Replace Curb and Gutter	10	LF	\$59.19	\$591.90
27	24" FES with Trash Rack	1	EA	\$3,637.00	\$3,637.00
28	48" FES	1	EA	\$4,371.52	\$4,371.52
29	Concrete, Structural, Retaining Walls (Includes Cultured Stone)	1	LS	\$20,091.06	\$20,091.06
30	Type M Riprap with Bedding	54	CY	\$235.10	\$12,695.40
31	12" PVC Pipe	25	LF	\$63.98	\$1,599.50
32	Storm Inlet, Type R, Single, 5-10 Foot Depth	1	EA	\$6,041.45	\$6,041.45
33	Grading	554	SY	\$3.39	\$1,878.06
34	Seeding	395	SY	\$9.00	\$3,555.00
35	Erosion Control Blanket, Coir Mat 700	395	SY	\$4.50	\$1,777.50
36	4'x4' Steel Grate Manhole Cover	1	EA	\$844.67	\$844.67
37	Landscape and Irrigation Repairs	1	LS	\$678.91	\$678.91

Site D W. 69th Pl. and Pierce St.					
38	Remove and Replace Asphalt, min. 6" Thick	25	SY	\$62.50	\$1,562.50
39	Storm Inlet, Type R, Double, 5-10 Foot Depth	1	EA	\$8,041.45	\$8,041.45
40	RCP Class III, 18-Inch Diameter	34	LF	\$115.00	\$3,910.00
41	Relocate Existing Communications Line	1	LS	\$5,649.40	\$5,649.40
Site E W. 74th Pl. and Nile St.					
42	Remove and Replace Concrete Crossspan, 6" Thick	50	SY	\$86.88	\$4,344.00
43	Remove and Replace Curb Ramp and Sidewalk	43	SY	\$82.38	\$3,542.34
44	Remove and Replace Asphalt, min. 6" Thick	14	SY	\$62.50	\$875.00
Site F W. 53rd Ave. and Oak St.					
45	Remove and Replace Concrete Crossspan, 6" Thick	67	SY	\$86.88	\$5,820.96
46	Remove and Replace Curb Ramp and Sidewalk	38	SY	\$82.38	\$3,130.44
47	Remove and Replace Asphalt, min. 6" Thick	25	SY	\$62.50	\$1,562.50
Site H W. 60th Ave. and Ward Rd.					
48	Remove and Replace Curb, Gutter, and Sidewalk	126	SY	\$82.38	\$10,379.88
49	Remove and Replace Curb Ramp (at Ward Rd)	1	LS	\$3,500.00	\$3,500.00
50	Remove and Replace Asphalt, min. 6" Thick	160	SY	\$62.50	\$10,000.00
51	RCP Class III, 18-Inch Diameter	477	LF	\$115.00	\$54,855.00
52	5-Foot Diameter Slab Base Manhole	1	EA	\$6,764.87	\$6,764.87
53	Storm Inlet, Type 13, Single, 5-10 Foot Depth	3	EA	\$8,041.45	\$24,124.35
54	Waterline Lowering (6" PVC)	1	EA	\$4,224.77	\$4,224.77
Site I W. 74th Ave and W. 73rd Pl. at Kipling St.					
55	Remove and Replace Asphalt, min. 6" Thick	60	SY	\$62.50	\$3,750.00
56	5-Foot Diameter Slab Base Manhole	1	EA	\$6,764.87	\$6,764.87
57	RCP Class III, 15-Inch Diameter	53	LF	\$98.00	\$5,194.00
58	Nyloplast 12" Universal Inline Drain, 5-10 Foot Depth	1	EA	\$5,853.63	\$5,853.63
59	Plastic Pipe (HDPE), 8-Inch Diameter	68	LF	\$56.56	\$3,846.08
60	Storm Inlet, Type 13, Single, <5 Foot Depth	1	EA	\$7,041.45	\$7,041.45
61	Remove Concrete Driveway	55	SY	\$28.05	\$1,542.75
62	Concrete Driveway, 6" Thick	75	SY	\$77.99	\$5,849.25
63	Concrete Cross Pan (Trickle Channel) 6" Thick	89	SY	\$140.00	\$12,460.00
64	Waterline Lowering (8" PVC)	1	EA	\$5,279.84	\$5,279.84
Site J Pomona Dr. and Allison Ct.					
65	Remove and Dispose Existing Inlet	2	EA	\$1,259.26	\$2,518.52
66	Remove Asphalt	137	SY	\$30.00	\$4,110.00
67	Remove and Replace Concrete Sidewalk/Ramps	27	SY	\$166.54	\$4,496.58
68	Flow-fill Existing 24" CMP Storm Pipe	12	CY	\$224.98	\$2,699.76
69	Concrete Cross Pan, 6" Thick	78	SY	\$74.99	\$5,849.22
70	8-Foot Diameter Slab Base Manhole	2	EA	\$7,519.13	\$15,038.26
71	RCP Class III, 18-Inch Diameter	90	LF	\$115.00	\$10,350.00
72	Asphalt, min. 6" Thick	59	SY	\$50.50	\$2,979.50
73	Storm Inlet, Type R, Double, 5-10 Foot Depth	2	EA	\$8,041.45	\$16,082.90
As-Needed Items					
74	Minor Contract Revisions	1	FA	\$60,000.00	\$60,000.00

TOTAL BID \$598,924.68



NexCivil
Engineering & Construction
DBE Certified

NexCivil
3190 S Vaughn Way Ste 550
Aurora CO
bids@nexcivil.com
720-237-2462
4/29/2025

City of Arvada
Public Works
8101 Ralston Road
Arvada, CO 8002

Subject: Response to Minimum Contractor Requirements for Project Number 25-ENG-031- Drainage Improvements

Dear Sir/Madam

I am writing to respond to the minimum contractor requirements specified in the bid for Project Number 25-ENG-03 entitled "Drainage Improvements."

NexCivil Construction has successfully completed the following key tasks:

Project Name: Loves Travel Stop – Brighton CO

Contract Time: November 2024 to April 2025

Value: 3.5million

Scope

1. Installation of 12" PVC DR14 Pipe: Our crew has installed 5,200 linear feet (LF) of 12" PVC DR14 in the City of Brighton right-of-way. This installation includes six different waterline lowering to accommodate existing and proposed utilities, ensuring compliance with project specifications.

2. Gravity Sewer Line and Storm Drain Systems: As part of the same project scope, the crew/personnel have completed an additional 1,800 LF of 12" gravity sewer line and 2500 LF of storm drain of various pipes sizes.

These accomplishments demonstrate our commitment to meeting the project requirements effectively. NexCivil Construction is dedicated to delivering high-quality work on time and within budget.

If you require any further information or documentation to support our bid, please feel free to contact me directly.

NexCivil
(720)-237-2462
Email: nexcivilec@gmail.com
Bids@nexcivil.com



NexCivil
Engineering & Construction
DBE Certified

Thank you for considering our qualifications for this project. We look forward to the opportunity to work with the City of Arvada on these important infrastructure improvements.

Sincerely,

Ishmael Kwofie, PE, PMP

President

NexCivil

NexCivil
(720)-237-2462
Email: nexcivilec@gmail.com
Bids@nexcivil.com

Implementation Timeline		
Site	Site St Name	Construction Duration (Days)
Site A	W. 64th Ave. and Urban St.	6
Site B	W. 86th Pl. and Garrison St.	18
Site C	W. 80th Ave. and Allison Way	17
Site D	W. 69th Pl. and Pierce St.	5
Site E	W. 74th Pl. and Nile St.	2
Site F	W. 53rd Ave. and Oak St.	3
Site H	W. 60th Ave. and Ward Rd.	26
Site I	W. 74th Ave and W. 73rd Pl. at Kipling St.	13
Site J	Pomona Dr. and Allison Ct.	16
Total Construction Days		107

**Preliminary timeline .A detailed schedule will be provided when if successfully



**Public Works
Building Division
15151 E. Alameda Pky
Aurora, CO 80012
303-739-7420**

1824150

CONTRACTOR LICENSE

Date of Issue: 07/29/2024

Date of Expiration: 08/01/2025

License Number: 2024 2456570 00 CL

Contractor Name: NEXCIVIL ENGINEERING AND CONSTRUCTION LLC

Type of License: Right Of Way Contractor

Permits Online User

LICENSING OFFICIAL

It is the licensee's responsibility to be familiar with the City of Aurora Building Codes Division **Chapter 22 Building and Building Regulations, Article III Contractors Division 22-61 through 22-102** for contractor and supervisor licensee responsibilities.

NEXCIVIL ENGINEERING AND CONSTRUCTION LLC
941 N VANDRIVER WAY
AURORA CO 80018

Cut along perforated line

Wallet

Duplicate



Public Works Building Division
15151 E. Alameda Parkway
AURORA, CO 80012
PHONE NO. (303) 739-7420

Valid through: 08/01/2025



Public Works Building Division
15151 E. Alameda Parkway
AURORA, CO 80012
PHONE NO. (303) 739-7420

Valid through: 08/01/2025

Contractor: NEXCIVIL ENGINEERING AND
CONSTRUCTION LLC

Contractor: NEXCIVIL ENGINEERING AND
CONSTRUCTION LLC

Type of License: Right Of Way Contractor

Type of License: Right Of Way Contractor

License #: 2024 2456570 00 CL

License #: 2024 2456570 00 CL

A signed license by license official should be
maintained in your files.

A signed license by license official should be
maintained in your files.



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.A.2.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: R25-053, A Resolution Authorizing an Agreement Between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground in an Amount not to Exceed \$565,915.00

Report in Brief

Presenter: Darin DeLay, Parks & Urban Design Manager, Vibrant Community & Neighborhoods

The City team has recently received construction bids through solicitation CSB 25-VCN-034 for the construction of the Danny Kendrick Park East Playground Replacement, located at 11960 W 70th Way, Arvada, CO 80004. Richdell Construction has been selected for the construction project. The City is financing the renovations of Danny Kendrick Park East for a contract amount of \$565,915.00.

The renovation design efforts were paid for and led by the City of Arvada. Wenk Associates Inc. is the lead design consultant and the Architect of Record. Staff landscape architects from the City's Parks & Urban Design (PUD) division are providing support throughout the design, planning review, and construction process.

The Arvada team recommends that the City Council approve R25-053, A Resolution Authorizing an Agreement between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground for an Amount Not to Exceed \$565,915.00.

Financial Impact

The City has previously funded the design and preparation of construction documents for the Danny Kendrick Park East Playground Renovations. The City of Arvada is also funding the construction of the Danny Kendrick Park East Playground Renovations. Funding for the park improvements came from two sources: \$400,000.00 was appropriated previously to the project from the Utilities department as coordination for prioritization of the removal and replacement of the playground, in alignment with the Ralston Trunk Sewer Improvement project and the remaining funds came from Park Development Fees.

Bids were received as part of CSB 25-VCN-034 Danny Kendrick Park East Playground Improvements bid solicitation. On May 2, 2025, seven (7) bids were received from AD Miller, Arrow J Landscape & Design, Colorado Designsapes Inc., Elite Industries Inc., JL Melton Construction, Richdell Construction, and SaBells Civil & Landscape. JL Melton was the apparent low-bid with a total base bid in the amount of \$564,971.75, but did not meet the City requirement of self-performing at least 50% of the project scope. Richdell Construction was the next lowest bidder with a total base bid and award amount of \$565,915.00 per the CSB scope of work.

Background

Danny Kendrick Park East is located at 11960 West 70th Way along Ralston Creek in central Arvada. The existing playground needed to be relocated so that the City of Arvada could install a new sanitary sewer associated with the Ralston Trunk Sewer Improvement project. The new playground will be constructed to the northwest of its current location to prevent conflicts with the existing and proposed underground utilities. The playground replacement project began with a community survey that was shared in August 2023, where community members provided their preferences for playground themes and equipment. After the

survey closed, the City's Parks and Urban design reviewed the survey results and Wenk Associates provided design options for the new playground that were informed by community feedback.

Discussion

Planned improvements to Danny Kendrick Park East include: a new playground system that includes play equipment, concrete play pit walls and curbing, improved drainage, compliant fall zone materials, site furnishing, concrete walkways connecting the new playground with the existing Ralston Creek Trail and West 70th Way, and improved landscaping with irrigation improvements.

Not constructing the planned improvements would leave Danny Kendrick Park East without critical sidewalk and trail connections, as well as without a playground that fits within the goals of community connections identified within the 2016 Parks, Trails and Open Space Master Plan.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

Strategic Alignment

This park was identified as a priority project for playground improvements as a result of the existing playground equipment removal associated with the Ralston Trunk Sewer Improvements project. The project was coordinated with the City's Utilities department, and is in alignment with the City's Taking Lasting Care (TLC) Program for playground improvements. Playground renovations at Danny Kendrick Park East achieve the goals of activating parks, trails and open spaces; providing new parks and improvements to existing parks; and encouraging access to healthy living for all.

Alternative Courses of Action

Alternative No. 1: Approve R25-053, A Resolution Authorizing an Agreement between the City of Arvada and Richdell Construction, Inc. for the replacement of the Danny Kendrick Park East playground in the amount not to exceed \$565,915.00.

Alternative No. 2: Do not approve R25-053, A Resolution Authorizing an Agreement between the City of Arvada and Richdell Construction, Inc. for the replacement of the Danny Kendrick Park East playground in the amount not to exceed \$565,915.00.

Recommendation for Action

The Arvada team recommends that the City Council approve Alternative No. 1:

Alternative No. 1: Approve R25-053, A Resolution Authorizing an Agreement between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground in the Amount Not to Exceed \$565,915.00.

Suggested Motion:

I move that R25-053, A Resolution Authorizing an Agreement between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground in the Amount Not to Exceed \$565,915.00, be (approved) (rejected).

Prepared by:

SUBJECT: R25-053, A Resolution Authorizing an Agreement Between the City of Arvada and Richdell Construction, Inc. for the Replacement of the Danny Kendrick Park East Playground in an Amount not to Exceed \$565,915.00

PAGE: 3
ITEM: 8.A.2.

Gail Walker, Legal Specialist-Contracts

Reviewed by:

Approved by:

Derrick Kuhl, Deputy Director VCN	5/23/2025
Bryan Archer, Director of Finance	5/27/2025
Gail Walker, Legal Specialist-Contracts	5/27/2025
Janelle Miller, Assistant City Attorney	5/27/2025
Rachel Morris, City Attorney	6/3/2025
Linda Haley, Deputy City Manager	6/3/2025
Don Wick, City Manager	6/3/2025

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R25-053

A RESOLUTION AUTHORIZING AN AGREEMENT BETWEEN THE CITY OF ARVADA
AND RICHELLE CONSTRUCTION, INC. FOR THE REPLACEMENT OF THE DANNY
KENDRICK PARK EAST PLAYGROUND IN AN AMOUNT NOT TO EXCEED \$565,915.00

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, an Agreement that is in substantially the same form as that attached hereto.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 17th day of June, 2025.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

**AN AGREEMENT BY AND BETWEEN THE CITY OF ARVADA AND
RICHDELL CONSTRUCTION, INC. FOR THE REPLACEMENT OF THE
DANNY KENDRICK PARK EAST PLAYGROUND, PROJECT NO. 25-VCN-
034, IN AN AMOUNT NOT TO EXCEED \$565,915.00**

This Agreement made this ____ day of _____, 2025, by and between the City of Arvada, a home rule municipal corporation (“Arvada” and/or “City”) and Richdell Construction, Inc. (“Contractor”).

WITNESSETH: That for and in consideration of the covenants, promises, and payments hereinafter mentioned:

WITNESSETH:

WHEREAS, Arvada solicited bids from interested construction professionals for the provision of construction services related to Arvada’s replacement of the Danny Kendrick Park East playground as described in the Contract Documents (the “Project” or the “Work”); and

WHEREAS, based on Contractor’s bid, Arvada has selected Contractor for the Project; and

WHEREAS, Arvada and Contractor desire to enter into this Agreement regarding the construction of the Project.

NOW, THEREFORE, for and in consideration of the covenants, promises, and payments hereinafter mentioned, the parties agree as follows:

ARTICLE 1. GENERAL DESCRIPTION OF SERVICES

- 1.1. **The Services.** Contractor agrees to furnish or arrange for the construction services set forth in the Contract Documents and required for the completion of the Project within the timeframe provided in the Contract Documents. Contractor represents that it is thoroughly familiar with, and understands, the requirements of the Project’s scope and is experienced in the construction of projects of the type and scope contemplated by the Contract Documents. Contractor represents to Arvada that Contractor has all necessary education, skill, knowledge, expertise and experience required for construction of the Project, and will maintain, at all times during the term of this Agreement, such personnel on its staff to provide the services contemplated hereby within the time periods required hereby. In addition, Contractor represents that it or Arvada-approved subcontractors or subconsultants performing services under this Agreement have all applicable licenses required by the State of Colorado to perform such services and all required insurance coverage as required by this Agreement and by law.
- 1.2. **Cooperation.** The Contractor shall endeavor to develop, implement and maintain, a spirit of cooperation, collegiality, and open communication with Arvada, Arvada’s Consultants, and Arvada’s residents so that the goals and objectives of each are clearly

understood, potential problems are resolved promptly, and upon completion, the Project is deemed a success by all interested parties.

- 1.3. **Preparation/Sufficiency of Site.** Before commencing the Project, the Contractor shall (i) visit and thoroughly inspect the Project Site and any structure(s) or other man-made features to be modified and become familiar with local conditions under which the Project will be constructed and operated; (ii) familiarize itself with the survey, including the location of all existing buildings, utilities, conditions, streets, equipment, components and other attributes having or likely to have an impact on the Project; (iii) familiarize itself with Arvada's engineering and design requirements, design objectives, and budget for the Project; (iv) familiarize itself with pertinent Project dates and programming needs, including the Project schedule; (v) review and analyze all Project geotechnical, environmental, and construction materials tests, investigations and recommendations, (vi) review all specifications; and (vii) gather any other information necessary for a thorough understanding of the Project. Claims by Contractor resulting from Contractor's failure to familiarize itself with the Site or pertinent documents shall be deemed waived.
- 1.4. **Contract Documents.** The Contract Documents are incorporated herein by reference. The term "Contract Documents" means and includes the following:
- A. Arvada's solicitation entitled CSB 25-VCN-034: Danny Kendrick Park East Playground Replacement ("CSB"), including all exhibits and addenda;
 - B. Contractor's Response to CSB 25-VCN-034, Advertisement for Bid, Bid Proposal, Bid Proposal Clarification Email, Bid Schedule, Bid Bond ("Contractor's Response");
 - C. Notice of Award (if any);
 - D. Performance and Payment Bond;
 - E. Notice(s) to Proceed (if any);
 - F. Change Orders (if any);
 - G. City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements dated October 23, 2023 (not attached due to length but incorporated herein); and
 - H. Requests for Information and Responses (if any).
- 1.5. **Interpretation of Contract Documents.** In the event of conflicts or discrepancies among the Contract Documents, the documents shall govern in the following order: (1) the Agreement; (2) Arvada's solicitation CSB 25-VCN-034; (3) City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements; (4) Contractor's Response; (5) Change Orders; (6) Requests for Information and Response.

ARTICLE 2. ARVADA'S DUTIES, OBLIGATIONS AND RESPONSIBILITIES

- 2.1. **Project Information.** Contractor acknowledges that Arvada has provided Contractor with information regarding Arvada's requirements for the Project as set forth in the Contract Documents, including Project Specifications.

- 2.2. **Arvada's Budget.** Arvada has established, and will update, an overall budget for the Project, including amounts allocated for construction, Arvada's other costs, and reasonable contingencies related to these costs as appropriate.
- 2.3. **Arvada's Representative.** Arvada will designate a representative authorized to act on Arvada's behalf with respect to the Project.
- 2.4. **Purpose of Arvada's Review.** Arvada's review, inspection, or approval of any work, Testing Documents, Applications for Payment, or other submittals shall be solely for the purpose of determining whether the same are generally consistent with Arvada's standards, policies and requirements. No review, inspection, or approval by Arvada of such work or documents shall relieve Contractor of its responsibility for the performance of its obligations under the Agreement or the accuracy, adequacy, fitness, suitability, or coordination of its construction services. Approval by any governmental or other regulatory agency or other governing body of any work, Testing Document, or the Construction Documents shall not relieve Contractor of responsibility for the performance of its obligations under this Agreement. Payment by Arvada pursuant to the Agreement shall not constitute waiver of any of Arvada's rights under the Agreement or at law, and Contractor expressly accepts the risk that defects in its performance, if any, may not be discovered until after payment, including final payment, is made by Arvada. Notwithstanding the foregoing, reasonable notice shall be given by Arvada to the Contractor if Arvada becomes aware of any fault or defect in the Project or non-conformance with the Contract Documents.

ARTICLE 3. CONSTRUCTION SERVICES REQUIREMENTS AND STANDARDS

- 3.1. **Quality of Construction Services.** Contractor shall be responsible for the quality, completeness, accuracy, and coordination of the Work. Contractor shall provide construction services that meet all industry standards, including all environmental and regulatory requirements. Arvada will provide and be responsible for all material testing and all other testing if needed.
- 3.2. **Arvada's Right to Carry Out the Work.** If the Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven calendar day period after written notice from Arvada to commence and continue correction of such default or neglect with diligence and promptness, Arvada may after such seven-day period, without prejudice to other remedies Arvada may have, correct such deficiencies. In such a case, an appropriate Change Order shall be issued deducting from payments then or thereafter due the Contractor the cost of correcting such deficiencies, including compensation for any consultant's additional services and expenses made necessary by such default, neglect or failure. If payments then or thereafter due the Contractor are not sufficient to cover such amounts, the Contractor shall pay the difference to Arvada within ten days of receipt of an invoice for such amounts from Arvada.

- 3.3. **Legal Standard.** Contractor shall furnish construction services in accordance with industry standards currently practiced by construction professionals on projects similar in size, complexity and cost to the Project.
- 3.4. **Construction Standards.** Contractor shall perform all services in accordance with requirements of governmental agencies having jurisdiction over the Project, City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, and the requirements set forth in the Contract Documents. In addition, the Contractor's work shall comply with all applicable building codes, accessibility laws and regulations, environmental regulations, and other applicable legal requirements in effect at the time of the work. To the extent Arvada's standards exceed applicable legal requirements, such standards shall be met unless Contractor obtains a variance from Arvada in writing.
- 3.5. **Permits.** Contractor shall be responsible for obtaining all necessary permits and other governmental approvals necessary for the development of the Project and shall obtain the same at the times necessary to meet the Project schedule. Contractor's responsibility includes providing environmental services and permitting coordination as further described in the Contract Documents.
- 3.6. **Notice of Non-Compliance.** Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Arvada, and shall at once report to Arvada any errors, inconsistencies or omissions discovered as well as any foreseeable constructability issues arising from the project specifications and/or site conditions. If the Contractor performs any construction activity knowing or should have known it involves an error, inconsistent, omission or constructability issue in the Contract Documents without such notice to Arvada, the Contractor shall assume full responsibility for such performance and shall bear the full costs for correction, including reimbursement for any delay caused to the Project.

ARTICLE 4. CHANGES TO THE WORK

- 4.1. **Minor Contract Revisions.** Miscellaneous modifications in the Work, ordered by Arvada in the form of a Field Order, will be considered a Minor Contract Revision. Payment for accepted work performed under this pay item "Minor Contract Revision" will be made in accordance with SP-24 of Exhibit A.
- 4.2. **Field Orders.** An authorized representative of the Contractor shall acknowledge receipt of Field Orders by promptly signing all written field orders delivered to the job site. Verbal field orders given by Arvada will be recorded in writing in the municipal inspector's daily report that is to be signed by the Contractor's authorized representative.
- 4.3. **Field Engineered Changes.** Arvada may modify the construction plans including changing the slope and alignment of flow lines and appurtenances or modifying other improvements as necessary to accommodate construction around existing utilities or other field conditions. No additional compensation shall be made for minor costs and

inconveniences incurred while performing field engineering changes as directed by Arvada or its Consultant. No additional compensation shall be made for any down time encountered while Arvada determines what field engineered changes would be appropriate to accommodate construction around existing utilities or other field conditions. Reasonable time must be allowed for Arvada or its Consultant to design field engineered changes. Any additional costs for performing field engineered construction changes to accommodate existing utilities or other field conditions and for also allowing Arvada reasonable time to design field engineered changes as necessary to complete the work shall be considered a subsidiary obligation of the contract.

- 4.4. **Pre-Construction Meetings.** Contractor agrees to assist in the preparation for and to participate in any pre-construction meetings with Arvada.
- 4.5. **Arvada Change Orders.** Arvada may, by written order signed by Arvada, at any time, and without notice to any surety, and subject to all appropriate adjustments, make changes within the general scope of this Contract in any one or more of the following: (a) changes in scope of services; (b) completion date; (c) contract amount; (d) any applicable material modifications; and, (e) any other matters that the parties deem necessary.
- 4.6. **Contractor Requested Change Orders.** The Contractor may request a Change in the Work ("Requested Change Order"), including one or more of the following: (a) changes in scope of services; (b) completion date; (c) contract amount; (d) any applicable material modifications; and, (e) any other matters that the parties deem necessary.
- 4.7. **Change Order Contents.** Any Requested Change Order shall include (a) a detailed description of the requested change to the original contract; (b) itemized documentation of any subcontractor costs; (c) the total costs associated with the proposed change; (d) the impact on the project completion date, if any, associated with the proposed change; and (e) a statement of the contractual basis for the requested change.
- 4.8. **Basis for Change Order Requests.** The following may be considered a valid basis for requesting a Change Order: (a) Contract Document error or omission; (b) Arvada induced enhancement; (c) unforeseeable constructability issue; (d) unforeseeable geotechnical issue. The following will not be considered a valid basis for requesting a Change Order absent extraordinary circumstances: (a) utility relocation; (b) utility conflicts; (c) foreseeable geotechnical issue; (d) foreseeable constructability issue; (e) defective construction.
- 4.9. **Written Authorization Required.** The Contractor shall not proceed with any change in the Work without the appropriate written authorization.

ARTICLE 5. SUPERVISION AND CONSTRUCTION PROCEDURES

- 5.1. **Supervision.** The Contractor shall supervise and direct the Work using the Contractor's best skill and attention. The Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for

coordinating all portions of the Work under this Contract, unless Contract Documents give other specific instructions concerning these matters.

- 5.2. **Acts and Omissions of Subcontractors and Agents.** The Contractor shall be responsible to Arvada for acts and omission of the Contractor's employees, Subcontractors, and their agents and employees, and other persons performing portions of the Work under a contract with the Contractor
- 5.3. **Inspection and Subsequent Work.** The Contractor shall be responsible for inspection or portions of Work already performed under this Contract to determine that such portions are in proper condition to receive subsequent Work.

ARTICLE 6. COMPENSATION.

- 6.1. **Completion of Services.** Contractor will furnish all material, supplies, tools, equipment, labor, and other services necessary for the completion of the Work within Arvada's timeframe and monetary limitations set forth below:
- 6.1.1. Contractor shall commence the Work required by the Contract Documents within seven calendar days after the date of the Notice to Proceed unless otherwise mutually agreed-upon by the Parties in writing;
- 6.1.2. Contractor shall complete the Work required by the Contract Documents no later than 120 days from the date the Notice to Proceed is issued, unless the period for completion is extended otherwise by the Contract Documents; and
- 6.1.3. Contractor agrees to perform the Work for an amount not to exceed **\$565,915.00**.
- 6.2. **Term.** The term of the Agreement shall be for three years from Arvada's execution of the Agreement, unless otherwise agreed to in writing by the parties, subject to availability of funds, or Arvada's termination for convenience under the Contract Documents. This term includes the time reserved for completion of the Work for the Project as stated in Sec. 6.1.2, and a two-year warranty period in which Contractor shall guarantee its Work.
- 6.3. **Additional Services.** While Arvada has listed its major requirements for its solicitation in the Contract Documents, Arvada may, during the term of this Agreement, wish to purchase other related services identified and offered by Contractor, based upon the Bid Schedule amounts contained in Contract Documents. Arvada reserves the right to award these ancillary items to Contractor. This option, if exercised, in no way obligates Arvada to pursue additional services with Contractor.
- 6.4. **Payment for Services.** At least twenty calendar days before the date established for each monthly progress payment, the Contractor shall submit to Arvada an itemized Application for Payment for construction completed in accordance with the Bid Schedule. Such application shall be support by such data substantiating the Contractor's right to payment as Arvada may require, such as copies of invoices or requisitions from

subcontractors and material suppliers and reflecting retainage. Arvada shall pay NET 30 for services performed in accordance with the Bid Schedule and with this Agreement, but in no event shall the total Contract Amount exceed \$565,915.00 absent a properly executed Change Order. Measurement of the work performed and monthly payment shall be made in accordance with requirements of the Measurement and Payment Section in the Contract Documents unless otherwise specifically provided herein.

- 6.5. **Non-Conforming Materials or Construction.** Where materials installed or the finished product fails to meet minimum requirements of the Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the applicable Colorado Department of Transportation Standard Specifications.
- 6.6. **Retainage Requirements.** Contractor agrees to submit monthly invoices together with any retainage requirements as prescribed by Colorado state statutes (*see e.g., C.R.S. § 24-91-101 et seq.*). Payment from Arvada will be paid NET 30 days. Invoices will accurately reflect actual work completed by Contractor and its subconsultants or subcontractors.

ARTICLE 7. MISCELLANEOUS.

- 7.1. **Waiver.** No provision of this Agreement may be waived except by written agreement of the parties. A waiver of any provision on one occasion shall not be deemed a waiver of that provision on any subsequent occasion, unless specifically stated in writing. A waiver of any provision shall not affect or alter the remaining provisions of this Agreement.
- 7.2. **Strict Compliance.** No failure of Arvada to insist upon strict compliance by the Contractor with any provision of the Contract Documents shall operate to release, discharge, modify, change or affect any of the Contractor's obligations.
- 7.3. **Successors and Assigns.** Arvada and Contractor, respectively, bind themselves, their partners, successors, assigns and legal representatives to the other party to this Agreement and to the partners, successors and assigns of such other parties with respect to all covenants of this Agreement. Contractor shall not assign (whether partially or wholly) this Agreement whether by operation of law or otherwise, without the written consent of Arvada. If Contractor makes an assignment in accordance with this provision, Contractor shall nevertheless remain legally responsible for all obligations arising under the Agreement, unless otherwise agreed in writing by Arvada.
- 7.4. **Additional Documents.** The parties agree to execute any additional documents and to take any additional action that is necessary to carry out this Agreement.
- 7.5. **Binding Effect.** This Agreement shall inure to the benefit of, and be binding upon, the parties, their respective legal representatives, successors, heirs, and assigns; provided, however, that nothing in this paragraph shall be construed to permit the assignment of this Agreement except as otherwise expressly authorized herein. All provisions of this Agreement which contain continuing obligations shall survive its expiration or termination.

- 7.6. **Paragraph Captions.** The paragraph captions in this Agreement are set forth only for the convenience and reference of the parties and are not intended in any way to define, limit, or describe the scope or intent of this Agreement.
- 7.7. **Integration, Amendment, and Severability.** This Agreement represents the entire agreement between the parties, and there are no oral or collateral agreements or understandings. This Agreement may be amended only by an instrument in writing signed by the parties. If any other provision of this Agreement is held invalid or unenforceable, no other provision shall be affected by such holding, and all of the remaining provisions of this Agreement shall continue in full force and effect if the essential terms and conditions of this Agreement for both parties remain valid, legal, and enforceable.
- 7.8. **Notices.** Any notice or notification required or permitted by the Agreement shall be in writing and shall be deemed to have been sufficiently given for all purposes if sent electronically, or by certified mail or registered mail, postage and fees prepaid, addressed to the party to whom such notice is to be given at the address set forth on the signature page below, or at such other address as has been previously furnished in writing, to the other party or parties. Such notice or notification shall be deemed to have been given when electronically sent or when deposited in the United States mail.
- 7.9. **Binding Authority.** Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation. This Agreement may be executed in counterpart(s), each of which shall be deemed to be an original, and all of which, taken together, shall constitute one instrument.
- 7.10. **Preferences in Employment of Colorado Labor.** To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:
- 7.10.1. Colorado labor shall be employed to perform eighty percent (80%) of the work.
- 7.10.2. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.
- 7.11. **No Third-Party Beneficiaries.** The Parties understand and agree that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties, and nothing contained in this Agreement shall give or allow any such claim or right of action to any other third party on this Agreement. It is the intention of the Parties that any person other than the Parties

receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement which shall be deemed an original on the date first above written.

[signatures on next page]

CITY OF ARVADA, a Colorado home
rule municipal corporation

Lauren Simpson
Mayor
8101 Ralston Road
Arvada, CO 80002

ATTEST:

City Clerk

APPROVED AS TO FORM:

Rachel A. Morris, City Attorney

By: _____

RICHELLE CONSTRUCTION, INC. a
Colorado corporation

Scott Riddell
President
7905 W. 120th Avenue
Broomfield, CO 80020

Exhibit A

AN AGREEMENT BY AND BETWEEN THE CITY OF
ARVADA AND
RICHDELL CONSTRUCTION, INC. FOR THE
REPLACEMENT OF THE DANNY KENDRICK PARK
EAST PLAYGROUND, PROJECT NO. 25-VCN-034, IN
AN AMOUNT NOT TO EXCEED \$565,915.00



COMPETITIVE SEALED BID

BID #: 25-VCN-034

Title: Danny Kendrick Park East Playground Replacement

Issue Date: 4/7/2025

Pre-bid Meeting: 4/17/2025 - 1:00 pm MT
Location: Danny Kendrick Park East, 11960 West 70th Way, Arvada CO 80004

Questions Deadline: 4/24/2025 - 2:00 pm MT
Questions must be submitted through BidnetDirect.com. Responses will be posted on Bidnet via addendum.

Bid Due Date: 4/30/2025 2:00 pm MT

Virtual Opening Information Join Zoom Meeting: <https://arvadaco-gov.zoom.us/j/82628390230?pwd=A0J3bslpe4ihsTQ7vBcSArQh2aNrbR.1>
Join by Phone: +1 719 359 4580 US
Meeting ID: 826 2839 0230 Passcode: 118275

Bid Delivery address: Electronic Submissions must be submitted online at BidNetDirect.com by the above date and time.
Submit bid as one (1) PDF file. Company name must start the file name.
Late responses will not be considered for award.

For additional administrative information not related to the project, contact: Dawn Krank, dkrank@arvada.org
Contact with the requesting department may result in vendor disqualification.

ARVADA'S VISION MISSION AND VALUES

VISION: We dream big and deliver.

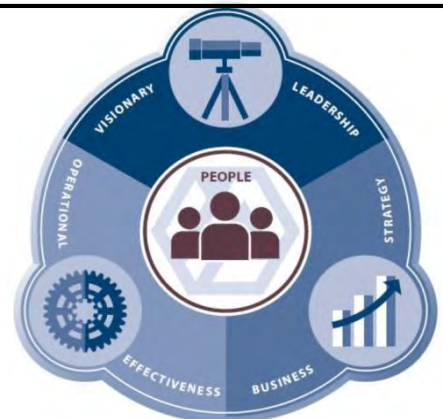
MISSION: We are dedicated to delivering superior services to enhance the lives of everyone in our community.

VALUES:

Innovation – We excel in creativity, flexibility and the use of best practices while valuing diverse backgrounds, ideas and perspectives.

Passion – We are a high performing, inclusive team inspiring each other to pursue excellence.

Opportunity – We value our diversity, embrace possibilities, face challenges, persevere and take action to deliver quality results.



Documents included in this Request:

Cover Page	page 1
Advertisement for Bidders	page 3
General Terms and Conditions	page 4
Special Terms and Conditions for Bidders	page 6
Insurance Requirements	page 8
Project Special Provisions	page 10
Submittal Forms to be completed and returned	
• Bid Bond	page 15
• Bid Proposal	page 16
• Bid Schedule	page 17
• Required Contractor Submittal Form	page 18
Preview of Documents if Awarded	page 19
Attachments	
A. Stormwater Management Plan – Danny Kendrick Park Playground	
B. Geotechnical Evaluation Danny Kendrick Park East Improvements, Arvada, Colorado	
C. DKPE Park Sign Shop Drawings for Reference	
D. Danny Kendrick Park East Playground Replacement 100% Construction Plan Set	

ADVERTISEMENT FOR BIDS

Submit bids electronically on Bidnetdirect.com for the construction of City of Arvada, Project No. CIP Parks 94965

Project Title: Danny Kendrick Park East Playground Replacement

The BID DOCUMENTS, consisting of Advertisement for Bids, General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, Addendum when issued, Bid Bond, Bid Proposal, Bid Schedule, Performance and Payment Bond, Submittal Checklist and References, Sample documents, and the Project Drawings may be examined at the following location: www.bidnetdirect.com

No cost bid documents may be obtained at www.bidnetdirect.com on or after April 7, 2025.

ESTIMATED QUANTITIES OF THE MAJOR ITEMS OF WORKARE:

Mobilization & General Conditions	1	LS
Traffic Control	1	LS
Erosion Control & Stormwater Management	1	LS
Construction Surveying & Staking	1	LS
Site Demolition & Removal	1	LS
Construction Fencing	660	LF
Tree Protection Fencing	205	LF
Site Grading & Earthwork	1	LS
Strip, Stockpile, & Place Topsoil	1	LS
Concrete Sidewalks	1,975	SF
Concrete Walls	40	LF
Concrete Seating Area & Steps	14	CY
Concrete Playground Curb, Plinth, & Misc. Flatwork	465	SF
Concrete Curb & Gutter	40	LF
Concrete Edger	20	LF
Aggregate Base Course	120	CY
Concrete Footers for Relocated Park Sign	1	LS
Reinstall Park Sign	1	LS
Poured-in-Place Playground Surfacing	3,880	SF
Playground Subdrain and Outlet Structure	1	LS
6"-9" Rounded Cobble for Outlet's Energy Dissipation	160	SF
Play Equipment	1	LS
Relocate Existing Boulders on Site	5	EA
Trash Receptacle	2	EA
Bike Rack	3	EA
Bluegrass Sod & Soil Preparation	13,500	SF
Planting Bed Preparation	415	SF
Shredded Cedar Wood Mulch	60	SF
Colorado Red Rock Mulch	355	SF
Trees	3	EA
Shrubs/Ornamental Grasses	33	EA
Irrigation System	1	LS

See Bid Schedule for full list and description of items.

Bidders, subcontractors and suppliers must be familiar with the current City of Arvada Engineering Code of Standards and Specifications, dated October 2, 2023, which will be combined with the Bid Documents to form the Contract Documents for the Project. A copy of the Standards may be obtained from the office of the City Engineer upon a non-refundable payment of \$50.00. Holders will be notified when supplemental revisions and additions are available as they are adopted. The Standards are also available at no cost on the City's web site at <https://www.arvadaco.gov/167/Engineering-Code>. Holders are responsible for keeping current their City of Arvada Engineering Code of Standards and Specifications.

Date: 4-7-2025

CITY OF ARVADA



Ryan Stevenson
Director
Department of Vibrant Community & Neighborhoods
8101 Ralston Road, Arvada, Colorado 80002

GENERAL TERMS AND CONDITIONS

1. PAYMENTS TO CONSTITUTE CURRENT EXPENDITURES. Financial obligations of the City of Arvada, if any, after the current fiscal year are contingent on funds for that purpose being appropriated, budgeted and otherwise made available by the City Council for the City of Arvada. The City of Arvada's obligations under the Agreement shall be from year to year only and shall not constitute a multiple-fiscal year direct or indirect debt or other financial obligation of the City of Arvada within the meaning of Article X, Section 20 of the Colorado Constitution.

2. TAXES. The City of Arvada is not subject to taxation. Contractor shall not invoice Arvada for any state, federal or local taxes whatsoever. Upon written notification by the City of Arvada, Contractor shall reimburse the City of Arvada in a timely manner for any taxes erroneously paid by the City of Arvada. The Colorado Department of Revenue, Certification of Exemption for Colorado State Sales/Use Tax account number for the City of Arvada is 98-01789-0000. An exemption certificate will be provided, where applicable, upon request.

3. NO INDEMNIFICATION BY ARVADA. The City of Arvada is prohibited by Article XI, Section 1, Colorado Constitution, from indemnifying anyone. Therefore, notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, the City of Arvada does not indemnify Contractor or anyone else under this Agreement.

4. INDEMNIFICATION OF CITY.

A. Contractor: Notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, Contractor agrees to investigate, defend, indemnify and hold harmless Arvada, its elected officials, officers, employees, agents, insurers, and representatives from and against any claims, costs, losses, expenses, demands, actions, or causes of action, including reasonable attorney fees and other costs and expenses of litigation, which may be asserted against or incurred by Arvada or for which Arvada may be liable, arising from the negligence, willful misconduct, or other fault of Contractor or its employees, agents, or subcontractors in performance of the Agreement. Nothing herein is intended to constitute a covenant, promise, or agreement to indemnify and hold harmless Arvada from any liability or damages directly caused by or attributable to Arvada's own negligence. Nothing herein intended to be nor may be construed as a waiver of the immunities, protections, or limitations on damages provided to Arvada by the Colorado Governmental Immunity Act, C.R.S. §§ 24-10-101 *et seq.*, as it may from time to time be amended.

(or)

B. Architect, Engineer, Surveyor Services for Public Works Construction: Contractor agrees to hold harmless and indemnify Arvada, its officers and employees, from and against any liability or any claims, suits, or actions arising out of, made, or asserted for any damage to persons or property resulting from errors, omissions or fault of Contractor in connection with the performance by Contractor of obligations under this solicitation and any subsequent Agreement with Arvada. Nothing herein is intended to constitute a covenant, promise, or agreement to indemnify and hold harmless Arvada from any liability or damages directly caused by or attributable to Arvada's own negligence. Nothing herein is intended to be nor construed as a waiver of the immunities, protections, or limitations on damages provided to Arvada by the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 *et seq.*, as it may from time to time be amended.

5. NO OPINION OF COUNSEL LETTERS. Pursuant to Section 8.1 of the Arvada City Charter, the City Attorney provides advice to the City Council and City Officials in matters relating to their official powers and duties, and will perform such other duties as City Council may prescribe by ordinance or resolution. The City Attorney will not issue opinion of counsel letters, memoranda or statements to third parties, including, but not limited to that any contract or lease is binding on the public entity, enforceable, etc.

6. CONFIDENTIAL DOCUMENTS. Contractors may designate specific pages or sections within their submission as trade secret or confidential commercial information or as otherwise protected by law ("Confidential Information"). Documents and data that are considered Confidential Information shall be clearly marked as such and separated from the rest of the solicitation submission documents. Comingling is not acceptable. The City does not favor blanket assertions of Confidential Information. Please note that blanket assertions that merely classify and/or broadly claim information is confidential are insufficient as a matter of law. See, *International Brotherhood of Electrical Workers Local 68 v. Denver Metropolitan Major League Baseball Stadium District*, 880 P.2d 160 (Colo. App. 1994). Any information that will be included in any resulting contract cannot be considered Confidential. Under no circumstances may submission pricing information be considered Confidential. In the event a formal contract is entered into with the City and a portion of the Proposal/Response carries a designation indicating the Contractor believes it is Confidential Information, then the City agrees that it will use its best efforts to forward any request for the disclosure of the Confidential Information to the Contractor. By its submission of the Proposal/Response, Contractor agrees to promptly respond to the request for disclosure with any objections and reasons therefor in accordance with the Colorado Open Records Act C.R.S. §§24-72-101 *et seq.* and any other applicable law. Further, Contractor agrees to assume the obligation to defend, hold harmless, and indemnify the City in any legal proceeding that arises from non-disclosure of documents or data pursuant to the Contractor's objection.

7. OWNERSHIP OF WORK PRODUCT. The originals of all plans, reports, studies, data, or other materials or information relating to the Work that are produced by Contractor shall be delivered to and become the property of Arvada. Contractor may retain copies of any originals; however, no plans, reports, studies, data, or other materials or information relating to the Work shall be released to any person or entity without the prior written consent of Arvada. Nothing in this clause is intended to affect Contractor's right to use generic know-how learned in the course of providing services under the Agreement for the future benefit of the City of Arvada or others.

8. ASSIGNMENT. Contractor shall not assign the Agreement without the prior written consent of the City of Arvada, which will not be unreasonably withheld, conditioned, or delayed. Contractor may assign the Agreement to any successor to the business of the party by merger, consolidation, or sale of assets. No assignment shall be permitted that enlarges any duty, responsibility or obligation of the City of Arvada, or that limits, curtails, or diminishes any right or privilege of the City of Arvada without the City of Arvada's express written consent.

9. NO THIRD PARTY BENEFICIARIES. It is expressly understood and agreed that enforcement of the terms and conditions of the Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to Arvada and Contractor and nothing contained in the Agreement shall give or allow any such claim or right of action to any other third party on the Agreement. It is the express intention of Arvada and Contractor that any person other than Arvada or Contractor receiving services or benefits under the Agreement shall be deemed to be an incidental beneficiary only.

10. INDEPENDENT CONTRACTOR. Contractor and Arvada hereby represent that Contractor is an independent contractor for all purposes hereunder. As such, Contractor is not covered by any worker's compensation insurance or any other insurance maintained by Arvada except as would apply to members of the general public. Contractor shall not create any indebtedness on behalf of Arvada.

11. SUBCONTRACTING. Contractor shall not award work to subcontractor(s) in excess of fifty percent of the total contract price without Arvada's prior written approval. Contractor shall be responsible for any failure by any subcontractor or subcontractor personnel to perform in accordance with the Agreement or to comply with any duties or obligations imposed on Contractor under the Agreement to the same extent as if such failure to perform or comply was committed by Contractor or Contractor's personnel. Contractor shall be Arvada's sole point of contact regarding the services, including with respect to payment.

12. NO WAIVER OF GOVERNMENTAL IMMUNITY. Nothing contained in this or any of the exhibits attached thereto shall be construed as a waiver of any of the immunities, limitations, privileges, rights, procedures, or requirements contained in the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 *et seq.*

13. RIGHT TO TERMINATE. The City of Arvada shall have the right to terminate, without cause, the Agreement. Any such termination shall not be considered a breach of the Agreement or any extension thereof. In the event of termination by the City of Arvada for convenience, Contractor will be paid for requested work performed up until the time of termination by the City of Arvada, not to exceed the total amount of the contract price agreed upon by the parties.

14. COMPLIANCE WITH ALL LAWS. All of the services performed under this Agreement by Contractor shall comply with all applicable laws, rules, regulations and codes of the United States and State of Colorado, and with the charter, ordinances, rules and regulations of the City of Arvada.

15. WAIVER OF BREACH. A waiver by any party to the Agreement or the breach of any term or provision of the Agreement shall not operate or be construed as a waiver of any subsequent breach by either party.

16. GOVERNING LAW AND VENUE. Notwithstanding any provision in the response to solicitation or proposed contract, lease, escrow agreement or any other type of agreement to the contrary, the Agreement shall be governed by the laws of the State of Colorado. Venue for any action arising under the Agreement or for the enforcement of the Agreement shall be in the appropriate court for Jefferson County, Colorado.

17. FORCE MAJEURE. Any delays in or failure of performance by any party of its obligations under the Agreement shall be excused if such delays or failure are a result of acts of God, fires, floods, strikes, labor disputes, accidents, regulations or orders of civil or military authorities, shortages of labor or materials, or other causes, similar or dissimilar, which are beyond the control of such party.

18. BINDING ARBITRATION PROHIBITED. The City of Arvada does not agree to binding arbitration by any extra-judicial body or person. Any provision to the contrary in response to the solicitation, or incorporated by reference, shall be null and void.

19. EQUAL EMPLOYMENT OPPORTUNITY. Contractor shall not refuse to hire, discharge, promote or demote, or discriminate in matters of compensation against any person otherwise qualified solely because of race, creed, sex, color, national origin or ancestry, religion, disability, age, sexual orientation, gender identity, veteran status, or any other basis prohibited by federal, state, or local law.

20. BINDING AUTHORITY. Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, has been properly acknowledged by attestation, notary acknowledgment, or both, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation.

21. PREFERENCES IN EMPLOYMENT OF COLORADO LABOR. To the extent that obligations and responsibilities may be established by C.R.S. § 8-17-101 *et seq.*, as amended, with respect to certain public entities and those contracting therewith as to the procurement of services:

- a. Colorado labor shall be employed to perform eighty percent (80%) of the work.
- b. Any waiver of this requirement must comply with C.R.S. § 8-17-101 *et seq.*, as amended.

22. RETAINAGE REQUIREMENTS. Contractor agrees to submit monthly invoices together with any retainage requirements as prescribed by Colorado state statutes (see e.g., C.R.S. §§24-91-101 *et seq.*). Payment from Arvada will traditionally be paid NET (15) days but no later than NET thirty (30) days. Invoices will accurately reflect actual work completed by Contractor.

23. ACCESSIBILITY COMPLIANCE.

- 23.1 Arvada is obligated to comply with the Colorado Anti-Discrimination Act (C.R.S. §§24-34-300 *et seq.*) ("CADA"), which requires all digital and online platform and content providers to comply with the minimum *Accessibility Standards for Individuals with a Disability*, adopted by the Colorado Office of Information Technology ("OIT") under C.R.S. §24-85-103(2.5). Contractor has been advised to familiarize itself with CADA.
- 23.2 To the extent the Work or any of Contractor's services provided under the Agreement involves digital, technological components, including but not limited to software, websites, applications, digital documents (the "Material"), all Material shall comply with the OIT's currently adopted minimum *Accessibility Standards for Individuals with a Disability* at all times.
- 23.3 Contractor shall indemnify, save, and hold harmless Arvada, its employees, agents and assignees (the "Indemnified Parties") against any and all costs, expenses, claims, damages, liabilities, court awards and other amounts (including attorneys' fees and related costs) incurred by any of the Indemnified Parties in relationship to Contractor's failure to comply with Section (23.2) above.
- 23.4 Upon Arvada's request, Contractor shall certify to Arvada that its service(s) and digital documents are compliant with Section (23.2) above. Arvada may require Contractor's compliance to the OIT's currently adopted minimum standards of accessibility to be determined by a third party selected by Arvada to attest to Contractor's compliance.

SPECIAL TERMS AND CONDITIONS FOR BIDDERS

1. RECEIPT AND OPENING OF BIDS. Bids submitted electronically on the BidnetDirect.com website only become available to the City of Arvada after the bid closes. Bidder shall assume full responsibility for timely upload of bid to the BidnetDirect website. The City reserves the right, where its best interest will be served, to accept or reject any conditional or qualified bid.

2. QUANTITY AND NATURE OF THE WORK. Bidders must satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule by examination of the site and a review of the drawings and specifications including Addendum. After Bids have been submitted the Bidder shall not assert that there was a misunderstanding concerning the quantities of work or of the nature of the work to be done.

3. CONTENTS OF BID. Contractors are required to submit Bids with the following conditions:

- 1) Contractors shall make all investigations necessary to inform themselves of the sites affected and the work required by the Solicitation.
- 2) Any official interpretation of the Solicitation may only be issued by an authorized agent of the City. The City shall not be responsible for other interpretations offered by employees not authorized.
- 3) The City shall issue Addenda if substantial changes are required which may impact the content and submission of Bids. A copy of such addenda will be publicly posted with the original CSB posting.
- 4) The apparent silence or omissions within this Solicitation regarding a detailed description of the materials or services shall be interpreted to mean that only the best commercial practices are to prevail and that only materials and workmanship of first quality are to be provided.

4. BID SECURITY. Each Bid must be accompanied by a PHOTO of the Bid Bond, on the form attached to these contract documents, payable to the City for five (5) percent of the total amount of the Bid. As soon as the bid Prices have been compared, the City will issue intent to award on the Bidnetdirect.com web site. The vendor who is named as the intent to award Contractor must submit the physical Bid Bond within 10 days or the intent to award may be revoked. The Bid Bond of the successful Bidder will be retained until the Payment and Performance Bond has been executed and approved after which it will be returned. A certified check may be used in lieu of a Bid Bond.

5. POWER OF ATTORNEY. Attorneys-in-fact who sign Bid Bonds or Payment and Performance Bonds must file with each bond a certified and effective dated copy of their power of attorney.

6. QUALIFICATION OF BIDDER. The City may make such investigation as it deems necessary to determine the ability of the Bidder to perform the work. The City reserves the right to reject any Bid if the evidence submitted by, or investigation of, such Bidder fails to satisfy the City that such Bidder is properly qualified to carry out the obligation of the Contract Agreement and to complete the work contemplated therein. The City reserves the right, before awarding the contract, to require a Contractor to submit evidence of its qualifications including, but not limited to, financial, technical, and other qualifications, as well as past performance with the City, for consideration in making the award in the best interest of the City.

7. AWARD OF CONTRACT. A contract/s shall be awarded to the lowest-priced responsible and most responsive bidder/s whose bid meets the requirements and criteria set forth in the CSB within the limits of funds available and that best serves the City's interest. The City, within seven (7) calendar days of receipt of acceptable Contract Security and the Contract Agreement, signed by the Bidder to

whom the Contract was awarded, shall sign the Contract Agreement and return to the Bidder an executed copy of the Contract Agreement. Should the City not execute the Contract Agreement within such period, the Bidder may, by written notice, withdraw their signed Contract Agreement. Such notice of withdrawal shall be effective upon receipt of the written notice by the City.

8. NOTICE OF AWARD AND FAILURE TO ENTER INTO CONTRACT. The party to whom the Contract is to be awarded will be required to execute the Contract Agreement, obtain Certificates of Insurance and a Performance and Payment Bond, as Contract security, within five (5) calendar days from the date the Notice of Award is delivered to the Bidder. The Notice of Award shall be accompanied by the Contract Agreement and the necessary Performance and Payment Bond forms. In case of failure of the bidder to execute the Contract Agreement and provide satisfactory Insurance and Contract Security, the City may at its option, consider the Bidder in default, in which case the Bid Bond accompanying the Proposal shall become the property of the City.

9. CONTRACT DOCUMENTS. The Contract Documents consisting of the Bid Documents, which include the Advertisement for Bids, Information for Bidders, General Terms and Conditions, Special Terms and Conditions, Insurance Requirements, Project Special Provisions, Addendum, Bid Bond, Bid Proposal, Bid Schedule, Vendor Submittal Form, Construction Drawings, Supplemental Specifications and the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", dated October 2, 2023, which include the Measurement and Payment specifications, and the attached Notice of Award form, Contract Agreement form, Performance and Payment Bond form, Notice to Proceed form, and Change Order form, when combined, contain the provisions required for the construction of the Project. Information obtained from an agent or employee of the City or any other person shall not affect the risks or obligations assumed by the Contractor or relieve him from fulfilling any of the conditions of the contract.

10. TERM OF CONTRACT. This contract shall commence on the date of the purchase order or contract execution and shall remain in effect until such time as the commodities, equipment and/or services acquired in conjunction with this Bid have been accepted by the City's authorized representative. Any required warranty period which exceeds this term shall remain in full force for the duration of the warranty period.

11. PRICING SHALL BE FIXED AND FIRM. The prices offered by the Contractor shall remain fixed and firm for at least 90 ninety days. No changes in the Bid shall be allowed after the date and time of the Bid deadline due to error by the Contractor.

12. CONTRACT SECURITY. A Performance and Payment Bond, on the form attached to these contract documents, in the amount of 100% of the Contract price, with a corporate surety approved by the City, will be required for the faithful performance of the Contract.

13. NOTICE TO PROCEED. The Notice to Proceed shall be issued within seven (7) calendar days of the execution of the Contract Agreement by the City. Should there be reason why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the City and the Contractor. In the event the Notice to Proceed has not been issued within the seven day period or within the period mutually agreed upon the Contractor may terminate the Contract Agreement without further liability on the part of either party.

14. MODIFICATION OR WITHDRAWAL OF BIDS BY CONTRACTOR.

Modifications to Bids- Changes to the Bid after the submission deadline shall be allowed only when the Contractor can show convincing evidence that an unintentional factual mistake was made. Modification requests must be made in writing. Any modification submitted to the City must have the Contractor's name, address, Solicitation Number and title included.

Withdrawal of Bids- If a Bid is withdrawn by Contractor after the Bid Opening, the City may, at its option, suspend the Contractor for a six (6) month period following the withdrawal. Withdrawal of the Bid after the Bid Opening will result in the Contractor forfeiting the provided Bid Bond.

15. REJECTION OF OFFERS BY CITY.

- A. The City may reject a Bid, in whole or in part, for reasons including, but not be limited to:
 - 1) The Contractor misstates or conceals any material fact in its Bid;
 - 2) The Contractor's Bid does not strictly conform to the law or requirements of the Solicitation;
 - 3) The Bid expressly requires or implies a conditional award that conflicts with the method of award stipulated in the Special Conditions;
 - 4) The Bid does not include documents which are required for submission with the Bid; or
 - 5) The Bid has not been executed by the Contractor through an authorized signature.
- B. The City may, at its sole and absolute discretion:
 - 1) Reject all or parts of Bids submitted by prospective Contractors;
 - 2) Re-advertise this Solicitation;
 - 3) Postpone or cancel the Solicitation;
 - 4) A Bid may not be accepted from, nor any contract be awarded to, any person or firm which
 - a) is in arrears to the City for any debt or Contract, or is a defaulter as surety for any obligation to the City.
 - b) has failed to perform faithfully any previous contract with the City, State or Federal government for a minimum period of one (1) year after this previous Contract was terminated for cause.
 - c) has pending litigation against the City on the date and time that the Solicitation is due.

16. CLARIFICATION AND MODIFICATIONS. The contract resulting from this solicitation will be subject to the Solicitation materials, City Ordinance, State and Federal Statutes. When conflicts occur, the highest authority shall prevail. Contractors are required to indicate any variances to the terms, conditions, requirements and specifications of this Solicitation; no matter how slight. If variations are not stated in the Contractor's Bid, it shall be agreed that the Contractor's Bid fully complies with all conditions identified in this Solicitation.

17. ELECTRONIC PAYMENT METHODS - CITY OF ARVADA SINGLE USE ACCOUNT.

Contractors are encouraged to consider the following method of payment.

Single Use Account: The City incorporates the use of Single User Accounts as an option to seamlessly process payment of larger dollar purchase orders and contracts to vendors/contractors/providers. A secure, one-time payment transaction account processes to pay invoices via the Contractor's merchant bank. Invoice payments have an enhanced speed-of-pay cycle that can significantly benefit cash flow.

18. CONDITIONS OF WORK AND OBLIGATION OF BIDDER. Each Bidder is responsible for independently inspecting the site and for reading and being thoroughly familiar with the Contract Documents and for providing the names of major suppliers and sub-contractors in the space provided on the Bid Proposal form. The failure or omission of any Bidder to do any of the foregoing shall in no way relieve the Bidder from any obligation in respect to their Bid Proposal.

19. CONTRACTOR LICENSE. The Contractor to whom the contract is awarded and any subcontractors employed by the Contractor must have or acquire the appropriate Contractor's license issued by the City of Arvada Engineering Division, including submittal of license bond, necessary insurance certificate, and license fee before initiating any work. The Contractor and any subcontractors will also be required to obtain a no charge Public Improvements Permit from the City of Arvada Engineering Division prior to initiating any and all work on this project.

20. PERFORMANCE MEASUREMENTS FOR SERVICES MORE THAN \$15,000.

The City has incorporated Performance Management into its organizational culture. The City will monitor and report on the following performance measures. These measures will determine, in part, renewals and eligibility for future awards. Measures include: (a) safety as defined by observation and OSHA reportable injuries, (b) quality of contracted work, (c) work completed within required schedule, (d) administration and coordination of estimates, RFIs, ASIs, change orders, pay requests and close out documents, (e) fair and justifiable change orders, (f) responsiveness and follow through on requests.

SERVICES means: the furnishing of labor, time, effort, maintenance, etc., by a vendor/contractor/consultant, with an initial contract amount of more than \$15,000.

21. PREPARATION AND SUBMISSION.

Bids will be prepared as follow:

- 1) A blank shall be construed as "No Bid/not offered". Where there is a discrepancy between the unit price and the extension of prices, the unit price shall prevail.
- 2) Contractors will not knowingly participate in solicitations where there exists a conflict of interest with their firm and a member of City staff or their immediate family.
- 3) The only authorized version of this Bid is posted on WWW.BIDNETDIRECT.COM. Registration is available to receive email notification of new solicitations, addenda, and communications.

INSURANCE REQUIREMENTS

The following listed insurance requirements shall be carried by the selected Contractor for the entirety of the contract. Applicable requirements for this solicitation are identified by completed check boxes.

1. ☒ **Commercial General Liability**, written on an occurrence form, for limits not less than \$1,000,000 for bodily injury and property damage for each occurrence and not less than \$2,000,000 aggregate. Coverage shall include premises and operations liability, blanket contractual, broad form property damage, products and completed operations and personal injury endorsements.
2. ☒ **Workers' Compensation and Employers Liability** as required by statute. Employers Liability coverage is to be carried for a minimum limit of \$1,000,000 each accident/disease and \$2,000,000 aggregate.
3. ☒ **Automobile Liability** for limits not less than \$1,000,000 combined single limit for bodily injury and property damage for each occurrence. Coverage shall include owned, non-owned and hired automobiles.
4. ☐ **Umbrella Liability** of \$, following form to the Commercial General Liability.
5. ☐ **Builders Risk or Course of Construction** Purchased by contractor to cover physical damage to property in construction or rehab. Contractors will ensure that City and subcontractors will be covered as additional insureds, excluding their own machinery, tools and equipment.

6. ☐ **Professional Liability** Professional Liability insurance in an amount of not less than \$1,000,000 per occurrence, covering the professional work contemplated under this proposal. The coverage shall have an extended reporting period of three (3) years following the date of substantial completion of the work for reporting of claims.
7. ☐ **Pollution Legal Liability Insurance** for limits not less than \$1,000,000 per occurrence (or claims made) and not less than \$1,000,000 aggregate for bodily Injury, personal Injury and property Damage.
8. ☐ **Privacy/Network/Cyber Liability Insurance** for limits not less than \$1,000,000 for any firm providing product or services associated with IT, software, communication, or network.

Additional Insurance Requirements:

- Contractor will be required to, at its own expense, keep in full force and effect during the term of the Agreement, and during the term of any extension or amendment of the Agreement, insurance reasonably sufficient to insure against the liability assumed by Contractor pursuant to the provisions of the solicitation sent by the City of Arvada or as determined by the City of Arvada Risk Manager.
- All coverage must be written with carriers holding a minimum A.M. Best rating of A-:VII, and authorized to do business in Colorado. Coverage shall be primary, and any insurance held by the City of Arvada is excess and non-contributory.
- Issuance of a Purchase Order/Contract is contingent upon the receipt of the insurance documents. Work shall not commence before this requirement is met. If the Contractor fails to submit the required insurance documents within 15 calendar days after notice to submit such policies is given to the Contractor by a City representative, the Contractor may be in default of the Award.
- Except for Workers Compensation, Employer's Liability insurance, Automobile Liability and Professional Liability insurance, the City of Arvada must be endorsed as an additional insured on a Certificate of Insurance.
- The City, through its Risk Manager, reserves the right to require additional insurance coverage and other requirements.

SPECIAL PROVISIONS

City of Arvada Project No. CIP Parks 94965, Project Title: Danny Kendrick Park East Playground Replacement

Conditions peculiar, but essential, to the successful performance and acceptance of the work on this project are itemized below. As such, they shall take precedence over the City of Arvada Engineering Code of Standards and Specifications, dated October 2, 2023.

SP-1 MEASUREMENT AND PAYMENT: Measurement of the work performed and payment, at the unit or lump sum price quoted in the Bid Schedule, shall be made in accordance with requirements of the Measurement and Payment Section of the Contract Documents or as hereinafter stated in the Special Provisions.

SP-2 SERVICE INTERRUPTION:

The Contractor shall notify all parties that will be affected, two hours prior to the time he will disconnect or interrupt known sewer or water service or immediately upon the interruption of a service not shown on the plans. All service so interrupted or damaged shall be immediately repaired and service restored. No service shall be left inoperative overnight.

SP-3 NON-CONFORMITY OF MATERIAL OR FINISHED PRODUCT: Where materials installed or the finished product fails to meet the minimum requirements of these Contract Documents, the basis of determining final payment to the Contractor shall be determined in accordance with the current revised Section 105.03 of the Colorado Department of Transportation Standard Specifications.

SP-4 OSHA REQUIREMENTS: Observing the rules and regulations required by the Occupational Health and Safety Administration (OSHA) is the responsibility of the Contractor on this project.

SP-5 CITY HOLIDAYS: The Contractor, when performing work on a city holiday, Saturday, Sunday, or in excess of ten (10) hours on a weekday, in accordance with Section 27-174(b)(2) of the Code of the City of Arvada, agrees to reimburse the Owner for the inspector's time at the following rate:

First 2 hours, or fraction thereof: \$100.00

Each additional 2 hours or fraction thereof: \$100.00

Payment shall be made payable to the City of Arvada within ten days of the date of invoice from the Owner.

SP-6 PRE-BID CONFERENCE:

An optional Pre-Bid Conference will be held at **Danny Kendrick Park East, 11960 West 70th Way, Arvada CO 80004** on 4/17/25 at 1:00 pm (MT) for the purpose of disseminating additional information and clarifying existing information about the project.

SP-7 PRE-CONSTRUCTION MEETING:

Within two weeks following the date of the Notice of Award, a Pre-Construction Conference will be held per the Project Manager's instructions, to review the Contractor's Construction Schedule. The Contractor and all available subcontractors will attend.

SP-8 PROJECT MANAGER/OWNER'S REPRESENTATIVE:

The Project Manager or Owner's Representative is the authorized representative of the Owner assigned to the project site or any part thereof. Project Manager will be interchanged for Project Engineer in the City Standard Specifications.

SP-9 PROTECTION:

See Section "016600 Storage and Protection".

SWMP: Contractor to follow all requirements set out in the storm water management plan and as agreed to when obtaining permit with no exceptions unless approved by Owner.

SP-10 LOSSES FROM NATURAL CAUSES:

All loss and damage arising out of the nature of the work to be done, or from the action of the elements or from floods or overflows, or from ground water or from unusual obstruction or difficulties, which may be encountered in the prosecution of the said work, shall be sustained and borne by the Contractor at his own expense.

SP-11 ESTIMATED QUANTITIES:

The Contractor agrees that the quantities of work as stated in his/her proposal and bid, or indicated on the plans, are only approximate, and that during the progress of the work the Owner may find it advisable and shall have the right to omit portions of the work and to increase or decrease the quantities; and the Owner reserves the right to add to or subtract from any items as may be deemed necessary or desirable. Under no circumstances or conditions will the Contractor be paid anything on account of anticipated profits upon the work or any portion thereof covered by this contract, which is not actually performed, and which has not actually entered into the construction of said improvement.

SP-12 TAXES:

The Contractor will pay all applicable sales, use and other similar taxes required by the laws of the State of Colorado. Notwithstanding the above, the Contractor shall obtain from the Department of Revenue a Certificate of Exemption indicating, where applicable, that the Contractor's purchase of construction or building materials is for use in the building erection, alteration or repair of public works owned and used by the City of Arvada, in its governmental capacity. Where a transaction is exempt from such tax, the amount of such tax shall not be included in any bid proposal.

Where taxes are required 30-days or more before the date set forth for final payment, the Contractor shall furnish the Project Manager, in triplicate, and on City of Arvada Engineering Department Form ED-A-76 and ED-5-76, certified receipts of sales, use and other similar taxes, required by law, paid on all materials and equipment incorporated in or used in the performance of the work.

SP-13 STORAGE:

A storage trailer and/or construction staging area will be allowed on the site. This facility will only be allowed during the period of active construction by the General Contractor and his/her subcontractors. The location of the trailers and/or construction yards must be approved by the Project Manager prior to the contractor moving onto the site.

SP-14 SUPERVISION & EXPEDITING:

Unless noted otherwise, all Contractors shall place orders for materials and equipment immediately upon receipt of contracts, and follow-up vigorously to insure adequate and timely supply to the work and shall perform all tracing and expediting operations. The General Contractor shall arrange to have all subcontractors on the job at the proper times to avoid delays and they shall attend any scheduled job meetings.

SP-15 SIGNS:

The General Contractor shall maintain the premises free from advertising and see that no signs are erected except those mandated by Federal or State agencies. The Owner reserves the right to put up such signs or notices as deemed proper.

SP-16 FINAL CLEANING:

The Contractor shall remove all marks, stains, fingerprints, and other soil or dirt from all painted, decorated, and stained work. Contractor shall remove all temporary protections and shall clean and polish all resilient surfaces at completion. All concrete surfaces are to be left clean and free of any tire marks or rubbings. All site furniture, playground equipment, site structures, and site signage shall be cleaned and free of any marks, stains, graffiti, scuffing, and blemishes.

SP-17 ROUGH GRADING:

The following requirements are to be considered as supplementary to City of Arvada Standard Specifications: Excavation and Grading.

General Site Grading: All designated areas are to be graded to true and even surfaces, to uniform slopes between grade elevations given. No excess material will exist from excavations and grading.

Compaction: Soil under all concrete pavements is to be compacted to 95% Standard Proctor Density unless noted otherwise and in open park areas to 85% Standard Proctor Density with 2% of optimum moisture content.

The Contractor will mow and remove the top 8" of existing grasses from the site. Any remaining grasses may be buried in approved non-structural fill section, minimum 12" cover. Stockpile topsoil on the project site in area approved by Owner. After all structural elements (e.g. walls, paving, edging, etc.) have been installed, the first priority for this soil will be the planting beds. The Contractor will be required to remove any debris encountered interfering with construction, if encountered. All excess dirt removed during construction will be disposed of at the contractors' expense on-site and included in the Rough Grading bid item.

The Contractor shall place stockpiled topsoil back over the site upon grading of subgrade to approximate grades and after installation of structural elements. Topsoil shall be spread evenly and uniformly to final rough grade.

All areas are to be raked by hand or mechanical means after soil improvement, to smooth and uniform conditions, free from bumps, rocks and clods over 2" in diameter. Puddling or negative drainage occurring up to one year after the date of acceptance must be promptly adjusted by Contractor, at no additional cost. Final rough grade will be within 1/10th of a foot of proposed contours as shown on plans. Grades under proposed hard surfaces will be $\pm .05$ of a foot. Surfaces shall be left smooth, clean and even, graded to drain and to fit into any undisturbed surrounding terrain. All trash and debris shall be removed from site by the Contractor at the Contractor's expense. Earth that has been rendered unfit to receive planting due to concrete, water, mortar, limewater, or other deleterious substances dumped on it, shall be removed and replaced with clean topsoil at the Contractor's expense.

SP-18 FINISH/FINE GRADING:

The following requirements are to be considered as supplementary to City of Arvada Standard Specifications: Excavation and Grading.

General Site Grading: All designated areas are to be graded to true and even surfaces, to uniform slopes between grade elevations given. No excess material will exist from excavations and grading.

Any areas upon completion of grading that contain weeds or undesired grasses will be tilled to eliminate all vegetation prior to fine grading and seeding.

Fine grading is considered to be preparation for installation of seed or shrub planting in beds after the rough grading and soil preparation is completed. The Contractor will complete the topsoil installation, spread the topsoil (rough grading), install the irrigation system, install soil amendments and till (see soil amendment and bed preparation). The Contractor will then rake to grade and remove rocks over 1" in diameter from the soil mix.

All areas are to be raked by hand or mechanical means after trenching and soil improvement, to smooth and uniform conditions, free from bumps, rocks and clods over 1" in diameter. Puddling or negative drainage occurring up to one year after the date of acceptance must be promptly adjusted by Contractor, at no additional cost. Finish grade will conform to the proposed contours and elevations as shown on plans. Surfaces will be left smooth, clean and even, graded to drain and to fit into any undisturbed surrounding terrain. All trash and debris shall be removed daily from all work areas within the right-of-way by Contractor at his/her own expense. All irregularities in the ground surface shall be removed. Sticks, stones, debris and other similar material more than 1" in diameter shall be removed. Any objectionable depressions or other variances from a smooth grade shall be corrected.

Earth that has been rendered unfit to receive planting due to concrete, water, mortar, limewater, or other deleterious substances dumped on it, shall be removed and replaced with clean topsoil at the Contractor's expense.

SP-19 SOIL PREPARATION:

Separate areas are identified on the plans for specific soil amendment treatments and fine grading procedures. These procedures and materials area as follows:

MATERIALS:

Soil Amendments:

Submit laboratory affirmation on any soil amendments specified.

Compost:

A-1 Organics Compost, BIO Comp-Class 1, available from A-1 Compost, Eaton, Colorado, (303) 454-2213. Submit analysis for approval prior to delivery.

Gravel Backfill:

Clean washed 1" – 1½" crushed rock backfill.

Preparation of Shrub Bed Areas:

1. All bed areas will be over-excavated and will receive a minimum of 6" of on-site topsoil mixed with the specified soil amendments as specified. (Refer to landscape plan.)
2. Loosen subgrade of lawn areas to a minimum, depth of 6" by rototilling. Remove stones over 1" in any dimension, sticks, roots, rubbish and other extraneous matter. Limit preparation to areas which will be planted immediately.
3. For planting areas, apply "Roundup" or equal short-term herbicide to inhibit unwanted plant growth prior to topsoil distribution. Apply in accordance with manufacturer's recommendations for this purpose and sufficiently in advance of planting to avoid damage to new lawns.
4. Spread compost at a rate of 5 CY per 1000 SF in turf and shrub beds and 3 CY per 1000 SF in native areas (per code 1022.01) after topsoil is spread, till in thoroughly to a depth of 6", and bring to minimum depth required to meet lines, grades and elevations shown after natural settlement.
5. Where topsoil is required, add soil amendments and place approximately one-half of total amount of topsoil required. Work into top of loosened subgrade to create a transition layer and then place remainder.

SP-20 SITE FURNISHINGS:

The Contractor shall provide the following site furniture. Since location is not shown on construction plans, Project Manager will review proposed locations at the Pre-Construction meeting. Contractor to locate all furniture on site for review by the Project Manager prior to installation.

- A. **Bike Rack:** Shall be one solid piece made of steel, inverted 'U' shape, surface mounted, sixteen inches (16") in width and thirty-four inches (34") in height, color shall be powder coated.
 1. Product: SITESCAPES, Apex Inverted U, AP2-02-SM or approved equal.
 2. Color: RAL 9005 Jet Black.
 3. Quantity: 3
 4. Installation: Surface mount per manufacturer's specifications.
- B. **Trash Receptacle:** Shall be one solid piece made of steel, top opening can with covered enclosure, forty inches (40") in height, with a volume of forty gallons (40).
 1. Product: SITESCAPES, City View Top Opening, CV2-1001 or approved equal.
 2. Color: RAL 9005 Jet Black.
 3. Quantity: 2
 4. Installation: Surface mount per manufacturer's specifications on 4" thick concrete pad that is 36"x36" in size.

SP-21 IRRIGATION CONTROL WIRE / EXTRA WIRE:

The Contractor will furnish and install a #14 copper UF red common control wire to each automatic control valve location on the drawings, a #12 UF white control wire continuous from the controller to each automatic valve location. The Contractor to furnish four (4) black #14 Copper UF spare control wires and two (2) Yellow #12 Copper UF spare common wires (Total of 6 spares) from the controller to the

end of each capped main. (See irrigation specifications for further detail.) Master valve wires shall be run sub grade, in continuous PVC schedule 40, 1.25 inch conduit, from irrigation controller pad to backflow/master valve assembly pad.

SP-22 IRRIGATION CONTROLLERS, FLOW SENSORS, R.P.B.P.:

An electric irrigation controller (or "clock") will be supplied, installed and operated by the Contractor during construction and until any contract-related turf/landscape is established and approved by the city. Upon completion and city acceptance of the project, the Contractor will remove the installed electric controller and install the city's Motorola controller(s), unless otherwise specified. The Motorola irrigation controller(s) will be purchased by the City out of the project budget and supplied to the contractor to install at project completion.

The Contractor will provide all materials and labor including, but not limited to, install of city-furnished controller, all electrical connections, foundation pads, conduit and necessary installation (and materials) wiring connections, etc. to provide a fully operational irrigation controller. The Contractor will install the city-provided Hydrometer/Master Valve with (2) Blue #14 UF, (2) Green #14 UF, and (2) Orange #14 UF control wires. Contractor will also install four (4) black #14 Copper UF spare control wires and two (2) Yellow #12 Copper UF spare common wires (Total of 6 spares) throughout the system for future additions. The Contractor is responsible for all winterization and spring start-up procedures, if applicable. (Refer to the drawings and specifications for further detail.)

SP-23 NEW SLEEVE CONSTRUCTION:

The Contractor will furnish and install new sleeving where shown on the drawings. All sleeves will be schedule Class 200, laterals to be CL 200 and mainline after R.P.B.P. to be CL 200 PVC. The sleeves will be installed to the pipe diameter and depth shown on the drawings and specifications prior to installation of new flatwork. Each new sleeve will extend eighteen inches past each edge of the new surface. Each sleeve location will be marked by a one-inch deep, two-inch long notch in the concrete (Consult irrigation section for additional detail.) The Contractor is responsible for locating all utilities. The Contractor will adhere to all specifications in Section 40 titled "Irrigation Systems" in the "City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements."

SP-24 MINOR CONTRACT REVISIONS:

Miscellaneous modifications in the work, ordered by the Project Manager in the form of a field order, will be considered a minor contract revision. Payment for accepted work performed under this item will be made in accordance with General Condition 2.16 and 2.17 of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

SP-25 COMPLETION OF SERVICES:

The date of beginning and the time for completion of the work on City projects are essential conditions of the contract documents and the work embraced shall be commenced on the date specified in the Notice to Proceed.

The Contractor will proceed with the work at such rate of progress to ensure full completion within the contract time. It is expressly understood and agreed, by and between the Contractor and the Owner, that the contract time for the completion of the work described in the contract documents is a reasonable time, taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the work.

A daily charge will be made against the Contractor for each calendar day, including free time that any work remains uncompleted after the expiration of contract time. This daily charge, determined by the original contract amount for the project from the table herein below, will be deducted from any money due the Contractor. This deduction will be considered liquidated damages, not a penalty.

The general schedule of liquidated damages set forth below is an amount, agreed to by the Contractor and the Owner, as reasonably representing additional construction engineering costs incurred by the Owner if the Contractor fails to complete performance within the contract time on City or Arvada projects. Final determination of Liquidated Damages shall be determined by the Owner's Project Manager and will reside within the executed contract documents.

Liquidated Damages Schedule

Original Contract Amount		Daily Charge
From More Than	To and Including	
\$0	\$150,000	\$500
150,001	250,000	600
250,001	500,000	800
500,001	1,000,000	1,400
1,000,001	2,000,000	2,000
2,000,001	4,000,000	3,300
4,000,001	10,000,000	3,900

Over \$10,000,000 - daily charge will increase by \$300 increments for each \$1,000,000 over \$10,000,000.

Permitting the Contractor to continue and finish the work or any part thereof after elapse of contract time will not operate as a waiver on the part of the Owner of any of its rights under the contract.

Any deduction assessed as liquidated damages under this section shall not relieve the Contractor from liability for any damages or costs resulting from delays to other Contractors on the project or other projects caused by a failure of the assessed Contractor to complete the work according to contract times.

The Contractor shall not be charged with liquidated damages or any excess cost when a change in contract time is approved as outlined in Section 1121.07 - Time for Completion and Liquidated Damages, of the Engineering Code of Standards and Specifications, dated October 2, 2023.

The Owner shall have the right to deduct the amount of liquidated damages from any monies due or to become due to the Contractor, or to sue for and recover compensation for damages for non-performance of the work, from the Contractor and his surety, as stipulated in the contract documents.

The rest of this page is intentionally left blank.

BID BOND

We, the undersigned _____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the City of Arvada, Colorado, in the penal sum of _____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

THE CONDITION of this obligation is such that whereas the Principal has submitted to the City of Arvada, Colorado the accompanying Bid Proposal, and hereby made a part hereof to enter into a Contract Agreement for the construction of City of Arvada Project No. _____.

WHEREAS, the City, as a condition for receiving said Bid Proposal, requires the Principal to deposit with the City a Bid Proposal Guaranty, equivalent to not less than 5 Percent of the amount of said Bid Proposal.

NOW THEREFORE,

- (A) If said Bid Proposal shall be rejected; or in the alternate,
- (B) If said Bid Proposal shall be accepted and the Principal shall execute and deliver a Contract Agreement (properly completed in accordance with said Bid Proposal) and shall furnish a Performance and Payment Bond upon the forms prescribed by the City for the faithful performance of said Contract; and for the payment of all persons performing labor or furnishing materials in connection therewith; and shall in all other respects perform the agreement created by the acceptance of said Bid Proposal;

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the City may accept such Bid and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, this ____ day of _____, 20__, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

PRINCIPAL

Name: _____

Address: _____

By: _____

Title: _____

SURETY

_____.

_____.

By: _____.

Title: _____.

Attorney-in-Fact:

(SEAL)

NOTE: Surety Companies executing bonds must be authorized to transact business in the State of Colorado and be acceptable to the City.

BID PROPOSAL

TO: City of Arvada, Colorado (hereinafter called "CITY").

FROM: _____ (hereinafter called "BIDDER"), organized and existing under the laws of the State of _____ doing business as (a corporation), (a partnership), (an individual).

The Bidder, in compliance with your Advertisement for Bids, hereby proposes to perform all Work in strict accordance with the Contract Documents, for the construction of City of Arvada Project No. **CIP PARKS 94965** entitled **Danny Kendrick Park East Playground Replacement** within the time set forth therein, and at the prices stated on the included Bid Schedule as totaled herein.

By submission of this Bid Proposal, each Bidder certifies, and in the case of a joint venture each party thereto certifies as to his/her own organization, that this Bid Proposal has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid Proposal with any other Bidder or with any competitor.

Bidder acknowledges receipt of **Addendum Nos.** Initials: _____

Bidder states that their:

Major Material Suppliers are:

Material They Will Supply

Major Subcontractors are:

Work They Will Perform

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **120 working days** after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about May 23, 2025. The bidder shall agree to pay the owner the sum as identified in Section 1121.07 on the Engineering Code of Standards & Specifications dated October 2, 2023, for each calendar day that the work exceeds the executed contract time. Contract time may be adjusted by Change Order as approved by the Project Manager.

Total from included Bid Schedule:

TOTAL BID \$ _____

SUBMITTED BY:

Company Name: _____

Contact Names: _____

Address: _____

Phone: (_____) _____ Email(s): _____

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Contractor;
- He/she has read all Terms and Conditions and technical specifications made available in conjunction with this solicitation and fully accept and acknowledge this bid is consistent with the specifications and terms and conditions.
- The bid is in all respects fair, without outside collusion or otherwise illegal action.

By: _____
Signature of Authorized Agent Date FEIN

Typed/Printed Name of Agent Title of Agent Agent email

PAYMENT TERMS: The City standard is net thirty (30) days but every effort is made to meet net fifteen (15) days after the approved partial payment date when the contractor is satisfactorily performing the contract. The final 5% of total payment will be paid once the contract is completed satisfactorily, advertisement for final settlement is complete, and the project is accepted by the City. Payment is the date of the check mailing or date of the credit card transaction.

BID SCHEDULE



CSB 25-VCN-034

Danny Kendrick Park East Playground Replacement

Use the Excel file included
in Bidnet post to complete
this Bid Schedule

Contractor _____

Bid Prepared By _____

Date _____

ITEM NO.	DESCRIPTION	EST. QUANTITY	UNITS	UNIT PRICE	EXTENSION
1	Mobilization & General Conditions	1	LS		\$ -
2	Traffic Control	1	LS		\$ -
3	Erosion Control & Stormwater Management	1	LS		\$ -
4	Construction Surveying & Staking	1	LS		\$ -
5	Site Demolition & Removal (includes footers of old sign)	1	LS		\$ -
6	Construction Fence (6' tall chain-link fence)	660	LF		\$ -
7	Tree Protection Fence (6' tall chain-link fence)	205	LF		\$ -
8	Site Grading & Earthwork	1	LS		\$ -
9	Strip, Stockpile, & Place Topsoil	1	LS		\$ -
10	Weed Control	1	LS		\$ -
11	Concrete Sidewalks (6" depth)	1975	SF		\$ -
12	Concrete Walls	40	LF		\$ -
13	Concrete Seating Area & Steps	14	CY		\$ -
14	Concrete Playground Curb, Plinth, & Misc. Flatwork	465	SF		\$ -
15	Concrete Curb & Gutter	40	LF		\$ -
16	Concrete Edger (ribbon curb)	20	LF		\$ -
17	Aggregate Base Course	120	CY		\$ -
18	Concrete Footers for Relocated Park Sign	1	LS		\$ -
19	Reinstall Park Sign	1	LS		\$ -
20	Poured-in-Place Playground Surfacing	3880	SF		\$ -
21	Playground Subdrain and Outlet Structure	1	LS		\$ -
22	6"-9" Rounded Cobble for Outlet's Energy Dissipation	160	SF		\$ -
23	Play Equipment	1	LS		\$ -
24	Relocate Existing Boulders on Site	5	EA		\$ -
25	Trash Receptacle	2	EA		\$ -
26	Bike Rack	3	EA		\$ -
27	Bluegrass Sod & Soil Preparation	13500	SF		\$ -
28	Planting Bed Preparation	415	SF		\$ -
29	Colorado Red Rock Mulch (1.5" size, 3" depth)	355	SF		\$ -
30	Shredded Cedar Wood Mulch (3" depth tree rings)	60	SF		\$ -
31	Trees (2" caliper)	3	EA		\$ -
32	Shrubs (5 gallon)	28	EA		\$ -
33	Ornamental Grasses (5 gallon)	5	EA		\$ -
34	Irrigation System	1	LS		\$ -

Payment will be based on actual quantities performed

TOTAL BID \$ -

Total Bid Written: _____

REQUIRED CONTRACTOR SUBMITTAL FORM

SUBMITTAL CHECKLIST:

Bid Proposals shall be submitted in the order listed below with each section clearly identified. **Missing information or required documents may result in submission being deemed non-responsive.**

- ☐ Submit completed Bid Bond, Bid Proposal, Bid Schedule, Required Contractor Submittal, and any other attachments requested.
- ☐ Submit implementation timeline and warranties, if applicable.
- ☐ Attach Contractor's Licensing, if applicable.
- ☐ Insurance – Checking this box accepts that the insurance requirements listed by the City are acceptable.
- ☐ Variations: Checking this box indicates that the contractor has variations to this solicitation. Identify all variations and exceptions to this CSB on a separate sheet/s of paper. If variations are not stated in the contractor's Offer, it shall be agreed that the contractor's Offer fully complies with all conditions identified in this Solicitation. For each variation listed, reference the applicable section of the solicitation document, the page number, and the variance. Submittal of a vendor contract is considered excessive in variations and may be cause for determining that the Bid is non-responsive and ineligible for award.

REFERENCES:

- ☐ Check here if Contractor's standard reference sheet is attached, otherwise, use the space below.

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

CONTRACT DOCUMENTS

The following pages contain documents used upon contract award. They are included here for reference and are subject to change.

PERFORMANCE AND PAYMENT BOND

Bond No. _____

(Firm) _____

(Address) _____

(an Individual), (a Partnership), (a Corporation), hereinafter called Principal; and

(Firm) _____

(Address) _____

hereinafter called Surety, are held and firmly bound unto the City of Arvada, a Colorado municipal corporation, 8101 Ralston Road, Arvada, Colorado 80002, hereinafter called the City, in the penal sum of _____ Dollars, _____, in lawful money of the United States, for the payment of such sum will and truly to be made, we bind ourselves, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that the Principal entered into a certain Contract with the City, dated the _____ day of _____, 20__, a copy of which is hereto attached and made a part hereof, for the performance of City of Arvada Project No.'s _____.

NOW THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions and agreements of said Contract during the original term thereof, and any extensions thereof which may be granted by the City, with or without Notice to the surety and during the life of the guaranty period, and if he shall satisfy all claims and demands incurred under such Contract, and shall fully indemnify and save harmless the City from all cost and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the City all outlay and expense which the City may incur in making good any default, and if he shall promptly make payment to all persons, firms, subcontractors and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such Contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, repairs on machinery, equipment and tools, consumed, rented or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in anyway affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between City and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20__.

IN PRESENCE OF:

PRINCIPAL _____

By _____

Address _____

(Corporate Seal)

OTHER PARTNERS

(Surety Seal)

SURETY _____

Attorney _____ in _____ Fact _____

Address _____

Note: If Contractor is Partnership, all partners should execute Bond.

Important: Surety Company must be authorized to transact business in the State of Colorado and be acceptable to the City.

NOTICE OF AWARD

Date _____

Company _____
Address _____
City, State Zip _____

RE: Project No. _____, _____

Dear Representative of _____:

The City of Arvada, Colorado (hereinafter called "City") has considered the Bid Proposals submitted for referenced work in response to its Advertisement for Bids dated _____ and Information for Bidders.

You are hereby notified that your Bid Proposal has been accepted, for items and prices stated in the Bid Schedule, in the amount of \$ _____.

You are required to execute the Contract, the Insurance Certificates and a Performance and Payment Bond within seven (7) days from the date of this Notice to you.

The Performance and Payment Bond needs to be filled out, returned (one original must be returned to the City), and accompanied by the Power of Attorney from your surety company. Also, please make sure that the insurance certificate is in the minimum amounts set forth in the Contract Documents and the City of Arvada is named as an additional insured for the specific Project Number and Title. An Additional Insured endorsement certificate should also be attached.

If you fail to execute said Contract and furnish the necessary Insurance Certificates and Bond within the time allotted from this date, the City will be entitled to consider all your rights arising out of the City's acceptance of your Bid Proposal as abandoned and as a forfeiture of your Bid Bond. The City will be entitled to such other rights as may be granted bylaw.

You are required to return an acknowledged copy of this Notice of Award and enclosures to the Project Engineer.

CITY OF ARVADA, COLORADO

City Engineer

BIDDER

Company _____

Receipt of above Notice of Award accompanied with a Performance and Payment Bond form and a copy of the Contract is hereby acknowledged.

This _____ day of _____, 20____.

By: _____

Name: _____

Title: _____

NOTICE TO PROCEED

Date

Company
Address
City, State Zip

RE: Project No. _____, _____

Dear Representative of _____:

You are hereby notified to commence work on referenced Project, in accordance with the Contract dated _____
on or before _____, and you are to complete the Work, including cleanup within _____ calendar days thereafter.

The date of completion of all Work is therefore _____.

CITY OF ARVADA, COLORADO

City Engineer

BIDDER

Receipt of this Notice to Proceed is hereby acknowledged this _____ day of ____, 20____.

Company

By: _____

Title: _____

ATTACHMENTS



STORMWATER MANAGEMENT PLAN

Danny Kendrick Park Playground

Date of Preparation: December 6, 2024

Arvada Site Disturbance Permit: (SITE##-####)

CDPS Number If Applicable: N/A

Property Owner:

City of Arvada

Chad Hollingsworth

720-898-7392/chollingsworth@arvada.org

Property Operator:

Contact Information

SWMP Preparer:

City of Arvada

Jake Moyer, CSI

720-898-7812/jmoyer@arvada.org

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1.0 INTRODUCTION

This SWMP identifies possible pollutant sources at this construction site that may contribute pollutants to stormwater, and identifies control measures that, when implemented in accordance with good engineering, hydrologic, and pollution control practices, will reduce or eliminate any possible water quality impacts. A copy of this SWMP will be available onsite or will be easily accessible via an electronic format. This SWMP will be revised, as necessary, when site conditions change.

This SWMP was prepared in accordance with good engineering, hydrologic and pollution control practices. Changes or additions may be required to address changes in conditions at the project. If such changes are made, this SWMP will be updated accordingly. This SWMP will be implemented as written and updated from commencement of construction activity until final stabilization is achieved. This SWMP was developed to meet the Colorado Discharge Permit System (CDPS) General Permit for Stormwater Discharges Associated with Construction Activity (Permit No. COR400000, effective April 1, 2024) authorizing stormwater discharges from construction activities that result in a total land disturbance of one acre or greater or construction activities that will individually disturb less than an acre but part of a larger common plan of development. This SWMP was also developed to meet the City of Arvada's requirements. The City regulates stormwater through its Site Development Permit (SDP). The City is a Qualifying Local Program, meaning that sites of less than five (5) acres are automatically covered under COR400000 by virtue of obtaining an SDP. A copy of the SDP and the CDPS Construction Permit for this project, if applicable, is included in Appendix A.

2.0 SITE CONTACT INFORMATION

Owner:

Name: Chad Hollingsworth

Title: Senior Landscape Architect

Address: 8101 Ralston Rd.

Phone: 720-898-7392

Email: chollingsworth@arvada.org

Operator

Name:

Title:

Address:

Phone:

Email:

Project Manager/Site Supervisor:

Name:

Title:

Address:

Phone:

Email:

Qualified Stormwater Manager:

Name:

Title:

Address:

Phone:

Email:

Duplicate as needed if more than one qualified stormwater manager is designated.

Control Measure Contractor:

Name:

Title:

Address:

Phone:

Email:

Other:

Name:

Title:

Address:

Phone:

Email:

3.0 PERMITS

[Describe any applicable CDPS permits, and low-risk discharge guidance documents associated with the permitted site, including the COR400000 general permit. If the site does not have a certification due to automatic coverage via Arvada's status as a Qualifying Local Program, state this. If the site has a certification, list the certification number below. List any applicable US Army Corps of Engineers Section 404 permits. Include a copy of the COR400000 general permit, permit certification if applicable, and any applicable low-risk discharge guidance documents in Appendix A.]

4.0 PROJECT LOCATION AND DESCRIPTION

This section provides a description of key information about the project.

4.1 Nature of the Construction Activity

This project includes the construction of a new playground, pedestrian trail connection, irrigation lines and park amenities located at Danny Kendrick Park within the City of Arvada. Construction activities include clearing and grubbing, overlot grading, concrete installation, trenching for irrigation line installation and final stabilization.

4.2 Proposed Schedule and Control Measure Sequencing

Project Phase	Estimated Period	Control Measures to be Implemented
Pre-Disturbance/Site Preparation	XXXX - XXXX	Vehicle tracking control (VTC), construction fencing, perimeter controls (sediment control log), rock socks, stabilized staging area, inlet protection, concrete washout area, portable toilets.
Construction (clearing and grubbing, grading, excavating, utilities, playground construction)	XXXX - XXXX	Vehicle tracking control (VTC), construction fencing, perimeter controls (sediment control log), rock socks, stabilized staging area, inlet protection, concrete washout area, portable toilets.
Final Stabilization	XXXX - XXXX	Permanent seeding, Erosion control blanket, perimeter controls.

4.3 Area Calculations

Total Area Within Construction Limits: **0.82 Acres**

Total Area Within Disturbance Limits: **0.82 Acres**

4.4 Soils Information

Site conditions of existing soil data include 78% Englewood Clay Loam with 0 to 2% slopes and Wann fine sandy loam with 0 - 2% slopes within the area of interest. A copy of the soils report is included in **Appendix C**.

4.5 Pre-existing Vegetation

The surrounding area of Danny Kendrick Park (playground) and residential homes consist of concrete sidewalks/paths, trees, shrubs and grasses. There is a mix of native and non-native plants along Ralston Creek with Cottonwood trees, bluegrass, reed canary grass and a narrow band of wetland vegetation growing alongside the creek. Due to the recent reconstruction of sanitary sewer within the project area, it is estimated that there is less than 2% of this vegetative coverage using the method of aerial imagery within the project limits of construction.

4.6 Non-stormwater Discharges

Source of Non-stormwater Discharge	Anticipated at Project	Description of Activities and Control Measures Used
Discharges from uncontaminated springs that do not originate from an area of land disturbance.	N	Not applicable for this site. If these activities are added, then the SWMP will be amended.
Discharges to the ground of concrete or masonry washout water associated with the washing of concrete or masonry tools and concrete or masonry mixer chutes. Discharges of concrete or masonry washout water must not leave the site as surface runoff or reach receiving waters as defined by COR400000. The addition of soaps, solvents, and detergents is prohibited. Wash water that may reach groundwater must flow through soil that has sufficient buffering capacity prior to reaching the groundwater. Concrete or masonry washouts must not be located in an area where shallow groundwater may be present and would result in potentially insufficient buffering.	Y	A concrete wash-out area will be utilized to capture wastewater and waste products resulting from the cleaning of concrete and masonry equipment.
Discharges of landscape irrigation return flow.	N	Not applicable for this site. If these activities are added, then the SWMP will be amended.

Discharges from emergency fire-fighting activities during the active emergency response.	Y (possible)	To the extent allowed by the circumstances at the scene and without compromising the health and safety of personnel or the public, emergency firefighting activities should be performed in a manner that avoids or minimizes discharges to the MS4. If possible, avoid directing firefighting flows directly on erodible surfaces if runoff will enter Receiving Waters or MS4 facilities. If possible, apply fire-fighting flows so that runoff will flow over vegetated areas.
Discharges from diversions of state waters within the permitted site.	N	No temporary stream diversions are proposed within this project. If these activities are added, then the SWMP will be amended.
Dewatering activities meeting a low-risk discharge guidance.	Y	Limited groundwater dewatering will be needed during construction and the dewatered groundwater is expected to be managed in accordance with the low-risk discharge guidance document on groundwater discharges back to groundwater.
Discharges covered under other CDPS discharge permits.	N	A short-term dewatering permit will be used to cover discharges of groundwater that requires dewatering during construction. A copy of this permit is included in Appendix A. Dewatered groundwater will be passed through a rock-packed sump and a weir tank prior to discharge to minimize suspended solids in the discharge. The location of the pumped groundwater and the applicable control measures are shown on the site maps.

4.7 Immediate and Ultimate Receiving Waters

The site slopes from 70th Way to Ralston Creek and any stormwater associated will sheet flow from north to south prior to the existing Ralston Trail running adjacent to the creek. No stormwater infrastructure is proposed with this project with the permanent condition utilizing runoff reduction from the surrounding landscape. The immediate receiving water is Ralston Creek approximately 60 feet from the project boundary to the south. The ultimate receiving water is Clear Creek.

4.8 Stream Crossings

No stream crossings are planned for the project.

4.9 Alternate Temporary Stabilization Schedule

[If the proposed temporary stabilization schedule varies from the requirements listed in COR400000, describe it here and state that the locations where the schedule applies are shown on the site map or will be added to the site map in the field, or note that this section is not applicable if the standard 14-day stabilization schedule is feasible throughout the site.]

4.10 Alternate Diversion Criteria

This section does not apply.

4.11 Infeasible Effluent Limitations

This section does not apply.

4.12 Vegetative Buffers

It will be feasible for the project to maintain roughly 10-20 feet of existing vegetation between construction activities and the receiving water. However, recent activity related to a sanitary sewer replacement has left the vegetative buffer temporarily stabilized while the vegetation becomes established. Emphasis will be placed on perimeter controls on the southern boundary of the project including straw waddle and silt fence.

Are there anticipated wetland impacts? If yes, discuss below.

☐ Yes

X No

Are there anticipated impacts to a water of the state? If yes, discuss below.

X Yes

☐ No

The project is located within 100 feet to a waters of the state and flows will generally sheet flow from north to south with Ralston Creek being the immediate receiving water.

A copy of the flood insurance rate map(s) (FIRMs) for this site are included in Appendix C.

5.0 EROSION AND SEDIMENT CONTROL PLAN

The Erosion and Sediment Control Plan is included in Appendix D and must include all of the following at a minimum, if applicable to the project:

1. Construction site boundaries.
2. Flow arrows that depict stormwater flow directions on and off site.
3. All areas of ground disturbance, including areas of borrow and fill, and areas of vehicle access within soft surfaces.
4. Areas used for storage of soil.
5. Locations of all waste accumulation areas, including areas for liquid, concrete, masonry, and asphalt.
6. Locations of dedicated asphalt/concrete batch plants, and masonry mixing stations.
7. Locations of other potential sources of pollution not listed in 3-6.
8. Locations of all structural control measures.
9. Locations of all non-structural control measures (e.g. temporary stabilization).
10. Locations and names of springs, streams, wetlands, diversions, and other state waters within or bordering the site, including areas that require pre-existing vegetation to be maintained within 50 feet of a receiving water, where determined feasible.
11. Locations of all stream crossings located within the construction site boundary.
12. Locations where alternative temporary stabilization schedules apply.

6.0 POTENTIAL POLLUTANT SOURCES

[Indicate if the potential pollutant exists on the project. Provide a description of the activity or activities involving the pollutant, location where that activity will occur, and identify any control measures that will be used to manage the potential pollutant. Add rows as needed for any potential pollutants not listed. Example responses are included, review and edit as necessary.]

Potential Source of Pollution	Potential at the Site	Activities Associated and Control Measures Used
Disturbed and stored soils	Y	Potential during all phases of construction activities, including but not limited to excavating, grading, cutting, filling, landscaping, etc. Potential pollutants include disturbed eroded sediment entering state waterways. Control Measures - Sediment control and stockpile containment may include usage of silt fence, rock socks, sediment control logs, and inlet protection as outlined in the SWMP narratives.

		Erosion control may include mulch/mulch tackifier application, seeding/ mulching, and vegetative protection. Administrative CMs include site management and limiting the number and location of stockpiles. Phased construction to reduce the amount of open area at any given time.
Vehicle tracking of sediments	Y	Potential while vehicles are accessing between disturbed and paved surfaces. Control Measures - Sediment control including vehicle tracking pads, street sweeping, and inlet protection. Minimize the number of entry and exit points, add construction fence to define construction entries/exits and establish perimeter control, and require equipment to be cleaned prior to arrival on site.
On-site waste management practices (waste piles, liquid waste, dumpsters)	Y	All activities including clearing and grubbing, grading activities, playground construction, etc. Control Measures – Trash receptacles will be placed on site and garbage disposed of when full. Public trash will be routinely picked up around the site (daily) and disposed of in proper containers. Waste piles shall be placed a minimum of 50 feet from state waters, contained by erosion logs, and landforms. Waste piles shall be placed in areas where stormwater runoff would not result in contamination of state waters. Liquid wastes, including wash water will be directed into a leak-proof container or pit designed to prevent discharges to ground or surface water and removed from site and properly disposed of by the subcontractors/contractor generating wastes in accordance with the Spill Prevention and Response Plan (Section 8).
Management of contaminated soils (address soils that already exist)	N	No known contaminated soils are expected to be encountered during this project. If contaminated soils/water are encountered, all activity shall be stopped until the situation can

and soils that may result from leaks or spills)		be assessed. The owner will be contacted. Soils that become contaminated as a result of a leak or spill will be cleaned up in accordance with the Spill Prevention and Response Plan found in Section 8.
Loading and unloading operations	Y	Potential during delivery and staging of materials, equipment, soil, debris, etc. Control Measures - Loading and unloading operations shall occur within the disturbance limits of the project using designated vehicle tracking pads. Loading and unloading will be limited to designated materials staging areas where feasible to concentrate the risk of spills in an area receiving lots of visual observation. A spill kit will be located in the material staging area.
Outdoor storage activities (erodible building materials, fertilizers, chemicals, etc.)	Y	Potential during all phases of construction activities including delivery, staging/storage and use of various materials. Control Measures – Containment of the storage or staging areas using temporary berms or plastic/metal containment structures. Use of secondary containment device for storage of chemicals and petroleum products. Chemicals shall not be used, stored or stockpiled within 50 feet of state waters. Exposure of fertilizers, pesticides, and herbicides to stormwater during storage will be minimized by storing these materials under a tarp. Fertilizers, pesticides, and herbicides will also be stored in accordance with the manufacturer's directions. Administrative controls including site management to ensure limited amounts of materials are stored on site and are placed in proper designated areas.
Vehicle and equipment maintenance and fueling	Y	Fueling of equipment or vehicles and equipment or vehicle repair activities may occur during all phases of construction activity. Control Measures – Limit areas where fueling occurs (no less than 50 feet from any state

		water, inlet, flow line). Ensure that a spill kit is accessible where fueling is taking place. Use plastic sheeting, drip pans, dirt berms and other measures to contain fluids. Immediately clean up and dispose of spoils as detailed in the Spill Prevention and Response Plan (Section 8). Secondary containment will be provided for containers with a volume of 55 gallons or greater. Administrative controls include site management to limit equipment and vehicle maintenance that occurs on site.
Significant dust or particulate generating processes such as saw cutting	Y	Potential during clearing and grubbing, cut/fill activities, saw cutting/sanding work and final stabilization. Control Measures – A water truck may be kept on site for use as needed to minimize dust production. Wet saw cutting methods with a vacuum will be used to minimize dust and ensure that saw cut slurry is contained and appropriately disposed of.
Routine maintenance activities involving fertilizers, pesticides, herbicides, detergents, fuels, solvents, oils, etc.	Y	Routine maintenance involving detergents, fuels, solvents, and oils may occur throughout all phases of construction. Wherever feasible, these activities will be completed at the staging area, where a spill kit will be stored. Routine maintenance using fertilizers, pesticides, and herbicides will occur almost exclusively during the final phase of construction while landscaping activities are occurring. The primary control measure for these materials is non-structural: landscaping contractors bring these materials to the site for use and remove them at the end of their use during the day. If any of these materials were to spill, the Spill Prevention and Response Plan in Section 8 would be followed.
Concrete/masonry truck and equipment washing, including	Y	Activities associated with this pollution source are concrete pours and masonry work. Control Measures – Dedicated concrete/masonry washout areas that are clearly marked and maintained. Shallow

washing of concrete truck chute and associated equipment		groundwater is found at the site, so a prefabricated, leak-proof concrete washout area will be used.
External building washing	Y	Limited external building washing is expected to occur near the end of the vertical construction period. Washing will follow the terms and conditions outlined in the Low-Risk Discharge Guidance Policy for Discharges from Surface Cosmetic Power Washing Operations to Land. A copy of the guidance document is included in Appendix A.
Dedicated asphalt and concrete batch plants, and masonry mixing stations	N	Not applicable for this site. If these activities are added, then the SWMP will be amended.
Non-industrial waste sources such as worker trash and portable toilets	Y	Potential throughout construction. Control Measures – See onsite waste management. Cleanup of trash will occur daily. A dumpster will be placed on site, at the office trailer. This will be emptied on a weekly basis, and more often, if waste amounts warrant extra pick-ups. Portable toilets will be located a minimum of 50 feet from state waters. They shall be adequately staked and cleaned on a weekly basis. They will be inspected daily for spills. Administrative controls will include site management practices to ensure workers are placing trash in the appropriate dumpsters, monitoring to ensure trash dumpsters are removed from the site when full, and monitoring to ensure portable toilets are cleaned as needed, and repaired or removed if found to be leaking.
Reclaimed water approved for use in construction dust suppression.	X	The activity associated with this potential pollutant is the application of dust suppression water along haul roads, stockpiles, and other disturbed areas.

		Control Measures- Dust suppression will be conducted in a manner that prevents offsite discharges of the dust suppression water and in accordance with the requirements of Regulation 84.
Stormwater and groundwater dewatering	N	Groundwater dewatering is not expected to be needed.
Firefighting water remaining on site after the active emergency response is complete	Y	Emergency firefighting activities may occur at the site, though this definitionally cannot be known ahead of time. If emergency firefighting occurs and water associated with these activities remains at the site after the emergency response is complete, the water will be evaluated to determine if it contains pollutants. If it does, it will be treated or removed from the site and appropriately disposed of, if feasible.
Other potential pollutants [add rows as needed, or delete this row if not needed]	X	

7.0 MATERIALS HANDLING

This section includes the narrative description of how all significant materials other than sediment that will be managed to minimize pollution of stormwater runoff. Significant materials include but are not limited to raw materials, paints, fuels, solvents, detergents, plastic pellets, exposed storage of building materials, hazardous substances designated under section 101(14) of CERCLA, chemicals that the permittee is required to report under section 313, Title III of the Superfund Amendments and Reauthorization Act, fertilizers, pesticides, and waste products that have the potential to be released with stormwater discharges, sanitary waste, and equipment maintenance/fueling procedures.

[Provide a line for each type of significant material or waste material that is anticipated for the project. Example responses provided below. Please review and edit as necessary, including adding lines if appropriate.]

Material	Description, Intended Use, and Associated Control Measure(s)	Phase of Construction
----------	--	-----------------------

Concrete curing compounds	Used for concrete work. Containers will be kept intact with no leakage and in an area with good housekeeping practices to avoid spills. Waste curing compound, including water used for washing application and storage tools, will be directed to a leak-proof container and ultimately appropriately disposed of offsite. See next section for discussion of spill prevention and response.	During concrete pouring activities
Diesel and gasoline	Used to fuel equipment. Containers will be kept intact with no leakage and in an area with good housekeeping practices to avoid spills. See next section for discussion of spill prevention and response.	All phases when heavy equipment is in use
Diesel engine antifreeze coolant	Used in equipment. Containers will be kept intact with no leakage and in an area with good housekeeping practices to avoid spills. See next section for discussion of spill prevention and response.	All phases when heavy equipment is in use
Hydraulic oil and motor oil	Used in equipment. Containers will be kept intact with no leakage and in an area with good housekeeping practices to avoid spills. See next section for discussion of spill prevention and response.	All phases when heavy equipment is in use
Unleaded gasoline	Used to fuel equipment. Containers will be kept intact with no leakage and in an area with good housekeeping practices to avoid spills. See next section for discussion of spill prevention and response.	All phases when heavy equipment is in use
Others		

8.0 SPILL PREVENTION AND RESPONSE PLAN

● Spill Prevention

All parties on site will take all measures necessary to prevent spills that could negatively impact stormwater quality. The following general spill prevention and response methods will be used on site:

- Proper storage of all materials.
- Proper maintenance of all containers.

- Bulk storage, 55 gallons or greater, for petroleum products and other liquid chemicals will have secondary containment or equivalent.
- Loading and unloading of chemicals should be observed by on site personnel at all times.
- Store chemicals at least 50 feet away from receiving waters, project boundaries, or storm sewer inlets wherever feasible.
- Ensure that all chemicals stored on-site are properly labeled.
- Keep an accessible copy of the material safety data sheet (MSDS) for all chemicals kept at the site.
- Train employees in spill prevention and cleanup.
- Designate responsible individuals to oversee and enforce control measure installation and maintenance.
- All spills must be documented and properly cleaned up immediately.

Environmentally-sensitive Areas

[Provide information on any particularly environmentally-sensitive areas within or immediately adjacent to the site and what procedures are in place to protect these areas. If this does not apply, state "There are no environmentally-sensitive areas in the work area." Examples of environmentally-sensitive areas may include but are not limited to waters of the state, ditches, and wetlands.]

Spill Reporting and Cleanup Contacts

Agency	Name and Title	Phone Number
Emergency Local Fire, Police, & Ambulance	N/A	911
EPA National Response Center	N/A	1-800-424-8802
CDPHE Spill Reporting Hotline	N/A	1-877-518-5608
Primary Contact for Spills	XXX	XXX
Secondary Contact for Spills	XXX	XXX
On-Site Spill Responder	XXX	XXX
Arvada Stormwater Team	Jake Moyer, Stormwater Administrator	720-898-7812

Location of Spill Kits

[Provide the location of any spill kits kept at the site.]

Minor Spill Response Procedure

Minor spills are spills which do not enter state waters and are under the state and federal reporting limits for the chemical of concern.

- Ensure the safety of all personnel. If the scene is unsafe, move to a safe location and contact emergency services.
- Once the scene is safe, stop the source of the spill if the spill is continuing.
- Contain the spill using booms, berms, or similar.
- Cover and protect the spill from contacting stormwater run-on during rainfall to the extent that it doesn't compromise cleanup activities.
- Use absorbent materials on small spills to impervious areas.
- If the spill was on a pervious surface such as gravel or soil or to water that is contained on-site, remove the contaminated substrate, place it in appropriate containers, and dispose of it offsite at a suitable landfill.
- Do not allow water used for cleaning and decontamination to enter storm drains or waterways.
- Dispose of used clean up materials, contaminated materials, and recovered spill material properly.
- Complete any required reporting. Discharges to the storm sewer system must be reported to the owner of the storm sewer system.

Major Spill Response Procedure

Major spills are spills which enter state waters and/or are over the state and federal reporting limits for the chemical of concern.

- Ensure the safety of all personnel. If the scene is unsafe, move to a safe location and contact emergency services.
- Once the scene is safe, stop the source of the spill if the spill is continuing.
- Contain the spill using booms, berms, or similar wherever feasible.
- Cover and protect the spill from contacting stormwater run-on during rainfall to the extent that it doesn't compromise cleanup activities. If the spill was to a waterway that receives only periodic flows, consider if a diversion, coffer dam, or similar can and should be implemented to keep clean water from contacting the spill during the cleanup.
- Use absorbent materials on spills to impervious areas.
- If the spill was on a pervious surface such as gravel or soil or to water that is contained on-site, remove the contaminated substrate, place it in appropriate containers, and dispose of it offsite at a suitable landfill.
- Do not allow water used for cleaning and decontamination to enter storm drains or waterways.
- Dispose of used clean up materials, contaminated materials, and recovered spill material properly.
- Complete the required reporting. The CDPHE requires an initial report within 24 hours of discovering the spill and a follow-up report within five business days. See section below for more information.

Notifications

For non-hazardous materials which may endanger health or the environment; spills or discharge of hazardous substance or oil, which may cause pollution of the waters of the state; the following measures shall be implemented:

- Contact the CDPHE Environmental Emergency Spill Reporting Line (1-877-518-5608) within 24 hours of the spill event. Submit a written follow-up report to the CDPHE within 5 days.
- Contact the Colorado State Patrol 24-hour hotline (1-303-239-4501) if the spill is on a state highway.
- If spilled material spreads to an Arvada storm drain or a waterway, report the spill to the City of Arvada at 720-898-7812.

For spills involving hazardous materials, the following measures shall be implemented:

- Contact the local emergency response team by dialing 911.
- Contact the CDPHE Environmental Emergency Spill Reporting Line (1-877-518-5608) within 24 hours of the spill event. Submit a written follow-up report to the CDPHE within 5 days.
- Contact the Colorado State Patrol 24-hour hotline (1-303-239-4501) if the spill is on a state highway.
- If spilled material spreads to an Arvada storm drain or a waterway, report the spill to the City of Arvada at 720-898-7812.

Spill Prevention and Response Training

Prior to commencing construction activities at the site, construction personnel will be trained on the spill prevention and response plan components outlined in Section 8.

9.0 CONTROL MEASURE NARRATIVES

This section includes the narrative description of appropriate control measures that will be implemented before, during and after construction activities. Both structural and non-structural control measures are described. Control measure installation and maintenance details that compliment these narratives can be found in Appendix E.

[Complete the following tables using one row per control measure planned for the project. The first line is filled in as an example. Be sure to include a control measure detail for each control measure in Appendix E.]

Structural Control Measures

Control Measure Name	Description	Phase(s) of Construction
Silt fence	Silt fence consists of a geotextile fabric that has been trenched into the	Installed during initial phase,

	ground. The geotextile is then attached to stakes spaced at a regular interval (typically every four feet) and pulled taut. This installation forms a barrier that will detain stormwater runoff so that some suspended sediment can settle out of the stormwater prior to discharge. Silt fence will be used at the boundary between disturbed and stabilized areas as a sediment control measure.	maintained during interim phase. Removed after vegetation has been established in the final phase.
Pre-Fabricated Concrete Washout Area	Designated and properly managing a specific area of the construction site as a concrete washout area. Designed to receive wash water from washing of tools and concrete mixer chutes, liquid concrete waste from dump trucks, mobile batch mixers, or pump trucks. <u>Surface discharges of concrete washout water from construction sites are prohibited.</u>	Active construction
Construction Fencing	Restricts site access to designated entrances and exits, delineates construction site boundaries, and keeps construction out of sensitive areas such as natural areas to be preserved as open space, wetlands and riparian areas.	All phases
Good Housekeeping	Prevents pollution associated with solid, liquid and hazardous construction-related materials and wastes	Clearing, grubbing and play area construction
Rock socks	Used either as a perimeter control or as part of inlet protection. Traps sediment from stormwater runoff that flows onto roadways as a result of construction activities. Constructed of gravel that has been wrapped by wire mesh or geotextile to form an elongated cylindrical filter	Clearing, grubbing and play area construction

Sediment Control Log	A linear roll made of natural materials such as straw, coconut fiber, or other fibrous material trenched into the ground and held with a wooden stake. They are used as a sediment barrier to intercept sheet flow runoff from disturbed areas	Clearing, grubbing and play area construction
Seeding and Mulching	Seeding is used to stabilize disturbed areas that will be inactive for an extended period or at final grade that will not be otherwise stabilized. Effective seeding includes preparation of a seedbed, selection of an appropriate seed mixture, proper planting techniques, and protection of the seeded area with mulch, geotextiles, or other appropriate measures. Mulching consists of evenly applying straw, hay, shredded wood mulch, rock, bark or compost to disturbed soils and securing the mulch by crimping, tackifiers, netting or other measures. Reduces erosion by protecting bare soil from rainfall impact, increases infiltration and reducing runoff.	Final stabilization
Stabilized Staging Area (includes portable toilets)	A clearly designated area where construction equipment and vehicles, stockpiles, waste bins, portable toilets, and other construction related materials are stored. The contractor's office trailer may also be located in this area. Shall be located 50 feet away from any Storm Sewer system inlets and waterways.	Clearing, grubbing and play area construction
Stickpile Management	Minimizes erosion and sediment transport from soil stockpiles. Should be used when soils or other erodible materials are stored at the construction site. Special attention should be given to stockpiles in close	Clearing and grubbing and play area construction

	proximity to natural or manmade storm systems	
Pre-fabricated Vehicle Tracking Control	Provides stabilized construction access where vehicles exit the site onto paved roads. Helps remove sediment (mud or dirt) from vehicles, reducing tracking onto the paved surface. Constructed from angular rock or other proprietary materials	Clearing, grubbing and play area construction

Non-structural Control Measures

Control Measure Name	Description	Phase(s) of Construction
Street sweeping	Street sweeping consists of removing sediment from streets or other impervious areas that connect to the storm sewer system. Sweeping may be accomplished by hand or using mechanical equipment like skid steer attachments or commercial street sweeping vehicles.	Implemented throughout the period in which vehicles are driving between paved and pervious surfaces.
Tree Protection	Used to maintain a stable surface cover as part of construction phasing, or provide protection in areas designated to remain in natural conditions under post-development conditions. Includes installation of a construction fence around the area requiring protection. Where upgradient areas are disturbed, it may also be necessary to install perimeter controls to minimize sediment loading to sensitive areas	All phases

10.0 DOCUMENTED USE AGREEMENT

A documented use agreement is not applicable for this project.

11.0 TEMPORARY STABILIZATION, FINAL STABILIZATION, AND LONG-TERM STORMWATER MANAGEMENT

Temporary stabilization must be implemented for earth disturbing activities on any portion of the site where ground disturbing construction activity has permanently ceased, or temporarily ceased for more than 14 calendar days. Temporary stabilization methods may include, but are not limited to, surface roughening, tarps, soil tackifier, and hydroseed and although not specifically outlined in the permit may also include temporary hard surfaces. During the seasons when seeding does not produce vegetative cover, temporary stabilization will occur. The permittee may exceed the 14-day schedule when either the function of the specific area of the site requires it to remain disturbed, or, physical characteristics of the terrain and climate prevent stabilization. The SWMP must document the constraints necessitating the alternative schedule, provide the alternate stabilization schedule (Section 4), and identify all locations where the alternative schedule is applicable on the site map (Section 5).

11.1 Lots Covered Under Sale of Residence to Homeowner

Lots that meet the following requirements may be removed from permit coverage:

- a. The residential lot has been sold to the homeowner for private residential use.
- b. A certificate of occupancy or equivalent is maintained on-site or electronically and is available during inspections by the City or the division.
- c. The lot is less than one acre of disturbance.
- d. All construction activity conducted on the lot by the permittee is complete, including the installation of sediment or erosion control measures that minimize sediment discharge from the lot, or the installation of temporary stabilization on remaining disturbances where the permittee is not responsible for final stabilization, such as backyards.
- e. The permittee is not responsible for final stabilization of the lot.
- f. The SWMP has been modified to indicate that the lot is no longer part of the construction activity.

This clause does not apply to this project

11.2 Final Stabilization Measures

Final stabilization is reached when all ground disturbing activities at the construction site are complete, permanent stabilization methods are complete, and temporary control measures have been removed. Areas being stabilized with a vegetative cover must have evenly-distributed, perennial vegetation. The vegetation coverage must be, at a minimum, equal to 70 percent of what would have been provided by native vegetation in a local, undisturbed area or adequate reference site. See Section 4.5. All final stabilization methods shall also be in accordance with Section 1000 of the City of Arvada's Engineering Standards and Specifications.

The SWMP must clearly describe the practices used to achieve final stabilization of all disturbed areas at the site, and any planned practices to control pollutants in stormwater discharges that will occur after construction operations have been completed at the site.

Unless infeasible, topsoil shall be preserved for those areas of a site that will utilize vegetative final stabilization. Unless infeasible, compaction will be minimized in all areas of the site to be restabilized with vegetation. If compaction cannot be avoided, decompaction will be utilized, as described below.

Final stabilization practices for obtaining a vegetative cover should include, as appropriate: seed mix selection and application methods; soil preparation and amendments; soil stabilization practices (e.g., crimped straw, hydro mulch or rolled erosion control products); and appropriate sediment control measures as needed until final stabilization is achieved; etc.

[Include a description of final stabilization measures and methods i.e. asphalt, seed application, landscaping sod, etc.]

Describe the seeding and sod installation proposed onsite, including:

- Areas of irrigated turf.
- Areas of sod.
- Areas of seed.
- Subsoil preparation (decompaction).
- Topsoil reapplication.
- Soil amendment(s) – types and quantities.
- Seed mix(es) and application rate(s).
- Seeding application method(s).
- Mulching application - describe and quantify mulching application to areas seeded and identify the content of the mulching material.
- Any areas to be returned to cropland use.
- Temporary control measures to be installed or left in place while seed is germinating and growing in.
- Removal of any temporary, non-biodegradable control measures prior to permit termination.]

12.0 PERMANENT STORMWATER CONTROL MEASURES

The project does not require a permanent stormwater control measure; it is under one acre and will be returned to pre-construction vegetated conditions. However, receiving pervious areas and infiltration techniques are utilized with the proposed conditions to treat and provide runoff reduction for the impervious areas.

13.0 OTHER EFFLUENT LIMITATIONS

- Detention Basins and Impoundments - This does not apply to the project due to the total area of disturbance and site constraints.
- Minimize Disturbances – Disturbances will be minimized to the extent feasible especially on steep slopes.
-
- Stormwater Discharge Rate and Volume - Stormwater discharge peak flow rates and volumes will be managed during construction to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points. This

will be done utilizing perimeter controls and temporary/final stabilization measures throughout the project.

Construction activities will be limited to those areas within the limits of disturbance as shown on the plans. The limits of disturbance were developed to only include what is necessary to complete the construction activity. Construction activities in addition to normal construction procedures will include the on-site parking of vehicles or equipment, on-site staging, on-site batch plants, haul roads or work access and any other action which would disturb existing conditions. Off-road staging areas or stockpiles must be pre-approved by the City of Arvada. Disturbances beyond these limits will be restored to original condition.

Other controls related to final stabilization, bulk storage, spill prevention, dust management, and protection of vegetation within 50 feet of receiving waters are covered in other sections of this SWMP.

14.0 CONTROL MEASURE MAINTENANCE

All control measures will be maintained in effective operating condition. Control measures that are not adequately maintained in accordance with good engineering, hydrologic, and pollution control practices, including removal of collected sediment outside the acceptable tolerances of the control measures are considered to be no longer operating effectively and must be addressed.

Assessment of control measures will be performed as part of the comprehensive inspection. Where site assessment results in the determination that new or replacement control measures are necessary, the control measures must be installed to ensure ongoing compliance with this SWMP. Where control measures have failed or are otherwise non-compliant, they must be addressed immediately or an alternative schedule with rationale for the delay will be supplied in the inspection corrective action log. See control measures details and specifications for specific maintenance information.

15.0 INSPECTIONS

During construction the site will be inspected by a Qualified Stormwater Manager at one of the following frequencies approved by the CDPHE:

- At least one inspection every 7 calendar days.
- At least one inspection every 14 calendar days with post-storm inspections performed within 24 hours* of a storm that causes surface erosion. Post-storm inspections may be used to fulfill the 14-day routine inspection requirement.
- At an alternative frequency that has been approved by the CDPHE.

* Where post-storm inspections are being conducted and no construction activities will occur following a storm event, the post-storm inspection must be conducted prior to recommencing construction activities and no later than 72 hours after the end of any precipitation or snowmelt event that causes surface erosion. If the site qualifies for this variance, the delay must be documented in the inspection record.

The frequency in use at this site is: [state which frequency is in use. Delete the following statement if it does not apply: A copy of the approved alternative frequency is provided in Appendix F.

The following locations will be inspected for evidence of, or the potential for, pollutants leaving the construction site boundaries, entering the stormwater drainage system, or discharging to state waters:

- Construction site perimeter.
- All disturbed areas, including areas that are temporarily stabilized.
- Locations of installed control measures.
- Designated haul routes.
- Material and waste storage areas exposed to precipitation.
- Locations of pumped stormwater.
- Locations where stormwater has the potential to discharge offsite, including visible erosion and sedimentation.
- Locations where vehicles exit the site.

Inspections will accomplish the following:

- Visually verify whether all implemented control measures are in effective operational condition and are working as designed in their specifications to minimize pollutant discharges. For pumped stormwater, indicators may include a sediment plume, suspended solids, unusual color, decreased clarity, the presence of odor or foam, or other deviations from how clean water would typically present.
- Determine if there are new potential sources of pollutants.
- Assess the adequacy of control measures at the site to identify areas requiring new or modified control measures to minimize pollutant discharges.
- Identify all areas of non-compliance with the permit requirements and, if necessary, implement corrective actions immediately, unless infeasible. If infeasible, the reason for the delay and the proposed alternative schedule must be documented in the SWMP.

A reduced frequency inspection schedule may be followed with approval from the City of Arvada on sites where construction is complete and the site is awaiting final stabilization. In order to request this frequency, the following conditions must first be met:

- All construction activities resulting in ground disturbance are complete.
- All activities required for final stabilization have been completed, with the exception of the application of sod or seed that has not occurred due to seasonal conditions or the necessity for additional seed application to augment previous efforts.

The SWMP must be updated to reflect the new inspection frequency once the reduced schedule is granted.

The inspection form provided by the CDPHE, or an equivalent form providing, at minimum, all of the same information will be used to record each inspection. The form to be used is included in Appendix G. Completed inspection forms will be kept onsite or in an easily-accessible electronic format.

- **APPENDIX A – APPLICABLE PERMITS AND LOW-RISK DISCHARGE GUIDANCE DOCUMENTS**

- **APPENDIX B – SUPPORTING CALCULATIONS**

- **APPENDIX C – FLOOD INSURANCE RATE MAPS**

- **APPENDIX D – SITE MAP**

- **APPENDIX E – CONTROL MEASURE DETAILS**

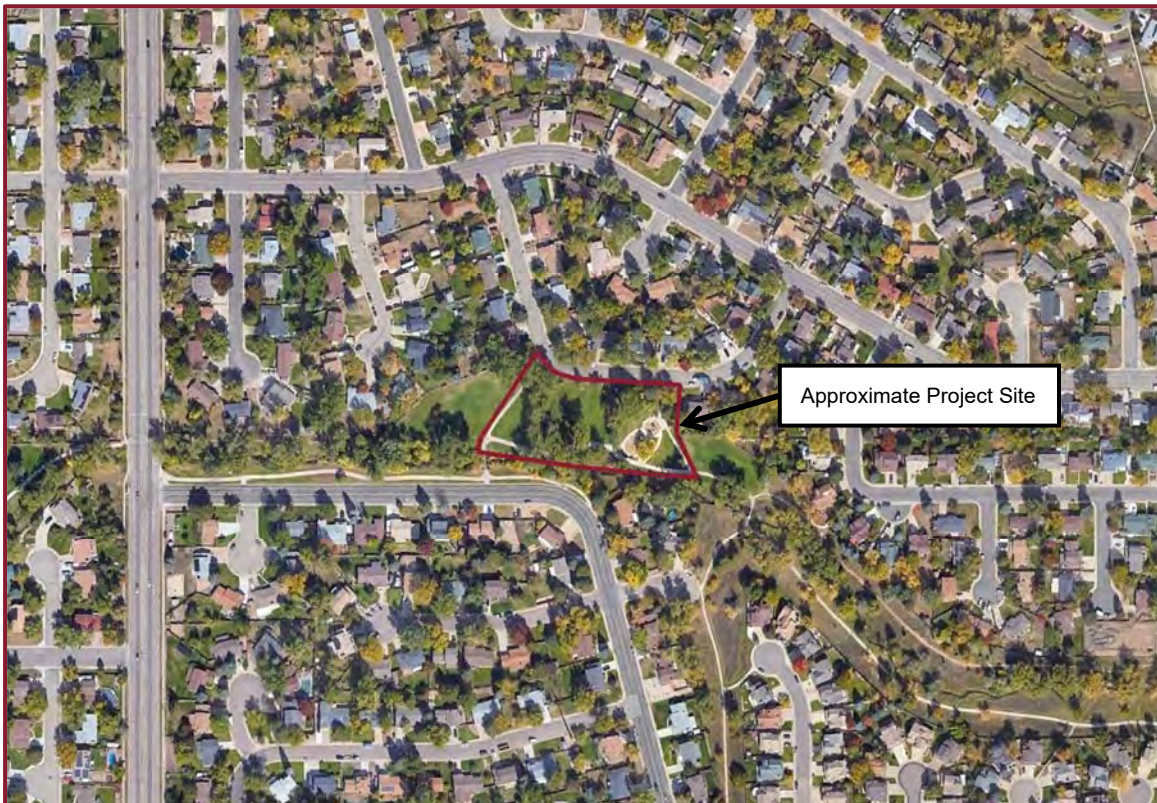
- **APPENDIX F – MISCELLANEOUS**

- **APPENDIX G – INSPECTIONS**

GROUND

ENGINEERING

Geotechnical Evaluation Danny Kendrick Park East Improvements Arvada, Colorado



Prepared For:

Studio CPG

**438 Tennyson Street #1A
Denver, Colorado 80212**

Attention: Mr. Pille

Job Number: 23-3053

December 5, 2023

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**Danny Kendrick Park East Improvements
Arvada, Colorado**

PURPOSE AND SCOPE OF STUDY

This report presents the results of a geotechnical evaluation performed by GROUND Engineering Consultants, Inc. (GROUND) in support of design and construction of the proposed improvements to Danny Kendrick Park East located at 11960 West 70th Way in Arvada, Colorado. Our study was conducted in general accordance with GROUND's Proposal Number 2310-2018 dated October 5, 2023, to Studio CPG.

A field exploration program was conducted to obtain information on the subsurface conditions. Material samples obtained during the subsurface exploration were tested in the laboratory to provide data on the classification and engineering characteristics of the on-site soils. The results of the field exploration and laboratory testing are presented herein.

This report has been prepared to summarize the data obtained and to present our findings and conclusions based on the proposed development/improvements and the subsurface conditions encountered. Design parameters and a discussion of engineering considerations related to the proposed improvements are included herein. This report should be understood and utilized in its entirety; specific sections of the text, drawings, graphs, tables, and other information contained within this report are intended to be understood in the context of the entire report. This includes the *Closure* section of the report which outlines important limitations on the information contained herein.

This report was prepared for design purposes of Studio CPG, based on our understanding of the project at the time of preparation of this report. The data, conclusions, opinions, and geotechnical parameters provided herein should not be construed to be sufficient for other purposes, including the use by contractors, or any other parties for any reason not specifically related to the design of the project. Furthermore, the information provided in this report was based on the exploration and testing methods described below. Deviations between what was reported herein and the actual surface and/or subsurface conditions may exist, and in some cases those deviations may be significant.

PROPOSED CONSTRUCTION

Based on correspondence with the client, we understand that present plans call for the removal of the existing playground in the eastern part of the park and the construction of new playground equipment in the western part of the park. Other improvements such as new flatwork and landscaping also may be included. Grading plans were not provided to GROUND by the time of report preparation. However, based on the existing topography, we anticipate that project cuts and fills will be relatively limited, on the order of 2 to 3 feet or less. Similarly, we understand that no retaining walls are planned at this time.

If our described understanding/interpretation of the proposed project is incorrect or project elements differ in any way from that expressed above, including changes to improvement locations, dimensions, orientations, loading conditions, elevations/grades, etc., and/or additional buildings/structures/site improvements are incorporated into this project, either after the original information was provided to us or after the date of this report, GROUND or another geotechnical engineer must be retained to reevaluate the conclusions and parameters presented herein.

Performance Expectations Based on our experience with other, similar projects, we understand that post-construction, structure foundation movements on the order of 1 to 3 inches are acceptable to, and anticipated by Studio CPG and the owner as are the resultant distress and maintenance measures. Similarly, we anticipate that movements of somewhat greater magnitude (2 to 4 inches) are acceptable and anticipated for flatwork, although movement estimates closer to 1 inch may be preferable near structures. GROUND will be available to discuss the risks and remedial approaches outlined in this report, as well as other potential approaches, upon request if post-construction movements of these magnitudes are not acceptable and anticipated.

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SITE CONDITIONS

At the time of our subsurface exploration, the project site was developed as the Danny Kendrick East Park at 11960 West 70th Way in Arvada, Colorado. The park was bordered by single-family residences and a reach of West 70th Way to the north, single-family residences to the east, south, and west, and by a reach of West 70th Avenue to the south. Residential development, consisting primarily of single-family homes, further surrounded the site.



Improvements at the park included playground equipment and associated flatwork and sidewalks in the eastern part of the park. Benches and other landscaping improvements were also observed. Much of the park was covered with grasses; mature trees were observed throughout the park. Additionally, a channelized reach of Ralston Creek was observed near the southern margin of the park along with a pedestrian bridge. Based on our cursory observations of these improvements, they generally appeared to be performing in a relatively satisfactory manner given their apparent ages.

Review of historical Google Earth® aerial imagery indicated the site has been used as a park since the late 1990s (earliest available images). Several generations of improvements appear to have been constructed since then, with the park entering its current configuration between 2010 and 2011.

SUBSURFACE EXPLORATION

Subsurface exploration for the project was conducted in October 2023. Three test holes were drilled with a conventional, track-mounted drill rig advancing 4-inch diameter, solid stem auger to evaluate the subsurface conditions and retrieve samples for laboratory testing. The test holes were drilled near the proposed playground equipment footprints to depths of approximately 23, 29, and 40 feet below existing grade, corresponding to elevations of approximately 5,416 feet, 5,412 feet, and 5,403 feet, respectively. Site

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topographic information was provided by Studio CPG and was used by GROUND to approximate the test hole elevations. A GROUND professional directed the subsurface exploration, logged the test holes in the field, and prepared the samples for transport to our laboratory.

Samples of the subsurface materials were retrieved with a 2-inch inner diameter California liner sampler and a 1 $\frac{3}{8}$ -inch inner diameter Standard Penetration Test sampler. The sampler was driven into the substrata with blows from a 140-pound hammer falling 30 inches, in general accordance with (in the case of the 1 $\frac{3}{8}$ -inch sampler) the Standard Penetration Test described by ASTM Method D1586.



Penetration resistance values, when properly evaluated, indicate the relative density or consistency of soils. Depths at which the samples were obtained and associated penetration resistance values are shown on the test hole logs.

The approximate location of the test hole is shown in Figure 1. Detailed logs of the test holes are presented in Figure 2. A legend and notes are provided in Figure 3.

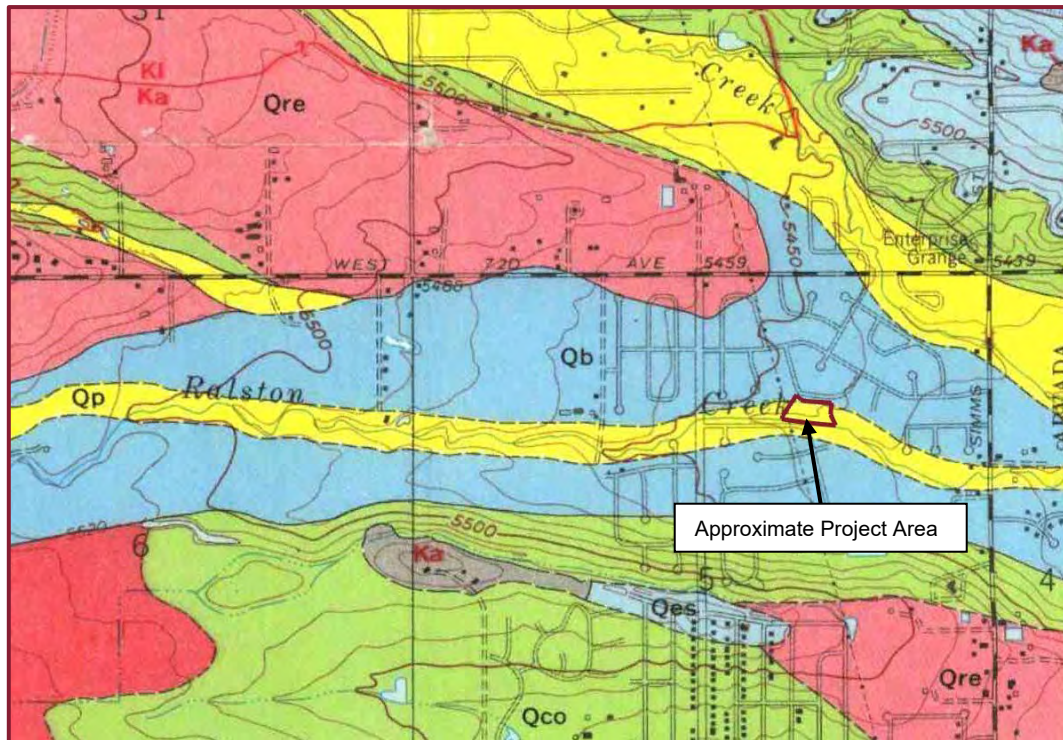
LABORATORY TESTING

Samples retrieved from the test holes were examined and visually classified in the laboratory by the project engineer. Laboratory testing of soil samples included standard property tests, such as natural moisture contents, dry unit weights, grain size analyses, and Atterberg limits. Swell–consolidation, water-soluble sulfate content, unconfined compressive strength, and a suite of corrosivity tests were completed on selected samples, as well. Laboratory tests were performed in general accordance with applicable ASTM protocols. Results of the laboratory testing program are summarized in Tables 1 and 2. Gradation plots are provided in Figures 4 and 5.

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SUBSURFACE CONDITIONS

Geologic Setting Published geologic maps, e.g., Bryant, Miller, and Scott (1973),¹ depict the site as underlain by the Holocene Piney Creek Alluvium and (**Qp**) and by Pleistocene Broadway Alluvium (**Qb**). These surficial deposits are mapped as being underlain by the Upper Cretaceous Arapahoe Formation (**Ka**). A portion of the that map is reproduced below.



The Piney Creek and Broadway Alluviums, in the project area, generally consist of fine to coarse sands and gravels with varying fractions of silts and clays. Cobbles and boulders are present locally. Some of the larger clasts in these deposits may not be suitable for reuse in all project fills.

The Arapahoe Formation, in the project area, typically consists of sandstones, siltstones, and claystones that are interbedded on various scales. The formation includes well-

¹ Bryant, Bruce, Miller, R.D., and Scott, G.R. (1973) *Geologic map of the Indian Hills quadrangle, Jefferson County, Colorado*. U.S. Geological Survey. Geologic Quadrangle Map GQ-1073, 1:24,000.

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cemented beds with significant lateral extents that can be very hard and difficult to excavate. These materials, if encountered, make take significant effort to process and handle, should they be selected for use in project fills. Additionally, the claystones and siltstones in the Arapahoe Formation can be moderately to highly expansive.

Local Conditions In general, the test holes penetrated a surficial layer of 3 to 4 inches topsoil.² Undocumented fill soils were recognized in the test holes to depths of about 3 to 6 feet below existing grade corresponding to elevations of about 5,437 feet, 5,437 feet, and 5,436 feet at Test Holes 1, 2, and 3 respectively. Beneath the undocumented fill, native silts and clays were penetrated to depths of 6 to 10 feet below existing grades, corresponding to depths of approximately 5,433 feet, 5,434 feet, and 5,433 feet at Test Holes 1, 2, and 3 respectively. Beneath the silts and clays, a layer of sands and gravels were recognized to depths of 17 to 19 feet, corresponding to depths of approximately 5,424 feet, 5,424 feet, and 5,421 feet at Test Holes 1, 2, and 3 respectively. Below the sands and gravels, claystone and siltstone bedrock was encountered to the depths explored.

We interpret the fill soils to be materials placed during prior grading activities in the area. (See the *Site Conditions* section of this report.) The native silts and clays and sands and gravels are interpreted to be alluvial deposits. The weathered claystone and claystone bedrock are interpreted to be Arapahoe Formation materials.

Fill materials were recognized in the test holes and likely are present elsewhere at the site given its prior development. (See the *Site Conditions* section of this report.) These fill soils may contain coarse gravels and cobbles, as well as similarly sized pieces of construction debris even though these items were not recognized in the test holes. Delineation of the complete lateral and vertical extents of the fills at the site and their compositions was beyond our present scope of services. If more detailed information regarding fill extents and compositions at the site are of significance, they should be evaluated using test pits.

² "Topsoil" as used herein is defined geotechnically. The materials so described may or may not be suitable for landscaping or as a growth medium for plants that may be proposed for the project.

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Similarly, coarse gravel and larger clasts are not well represented in the small diameter liner samples collected from the test holes. Therefore, such materials may be present even where not called out in the material descriptions herein.

Fill consisted of silts and clays with fine sands. It was slightly moist, moderately plastic, stiff, and brown in color.

Silts and Clays consisted of silts and clays with fine sands. It was moist, non- to slightly plastic, loose or stiff, and brown to dark brown to red brown in color. Iron staining was noted locally.

Sands and Gravels consisted of fine to coarse sands and gravels. It was slightly moist to wet, non-plastic, medium dense to very hard, and light brown to brown in color. Iron staining was noted locally.

Claystone and Siltstone Bedrock consisted of claystones and siltstones with varying fractions of sands and trace gravels. It was slightly moist to very moist, moderately to highly plastic, medium hard to very hard, and gray in color.

Groundwater At the time of drilling, groundwater was encountered in the test holes at 12, 10, and 9 feet below existing grades, corresponding to elevations of 5,431; 5,431; and 5,430 feet at Test Holes 1, 2, and 3, respectively. The test holes were backfilled upon drilling completion per Code of Colorado Regulations (2 CCR 402-2), and additional depth to groundwater measurements were not made.

The groundwater observations performed during our exploration must be interpreted carefully as they are short-term and do not constitute a groundwater study. In the event Studio CPG desires additional/repeated groundwater level observations, GROUND should be contacted to provide a cost estimate for this additional geotechnical evaluation.

Groundwater levels can be expected to fluctuate, however, in response to annual and longer-term cycles of precipitation, irrigation, surface drainage, nearby rivers and creeks, land use, and the development of transient, perched water conditions. We anticipate that groundwater levels, in the project area, may fluctuate in conjunction with the stage of Ralston Creek and local, perched groundwater may be present after large precipitation events.

Swell-Consolidation Testing of selected samples of site soils recovered from the test holes indicated a swell of 0.2 and a consolidation of 0.5 percent against surcharge pressures approximating overburden loads. (See Table 1.)

ENGINEERING SEISMICITY

Based on extrapolation of available data to depth and our experience in the project area, we consider the area of the proposed addition likely to meet the criteria for a Seismic Site Classification of **C** according to the ASCE 7-16 (Table 20.3-1). (Exploration and/or shear wave velocity testing to a depth of 100 feet or more was not part of our present scope of services.) If, however, a quantitative assessment of the site seismic properties is desired, then shear wave velocity testing should be performed. GROUND can provide a fee estimate for shear wave velocity testing upon request. We consider the likelihood of achieving a Site Class B to be low.

Using longitude and latitude coordinates obtained from Google Earth and the ASCE 7 Hazard Tool (<https://asce7hazardtool.online>), the project area is indicated to possess an S_{DS} value of **0.197** and an S_{D1} value of **0.060** for the site latitude and longitude and a Site Class of C.

GEOTECHNICAL CONSIDERATIONS FOR DESIGN

The conclusions and parameters provided in this report were based on the data presented herein, our experience in the general project area with similar structures, and our engineering judgment with regard to the applicability of the data and methods of forecasting future performance. A variety of engineering parameters were considered as indicators of potential future soil movements.

Our parameters and conclusions were based on our judgment of “likely movement potentials,” (i.e., the amount of movement likely to be realized if site drainage is generally effective, estimated to a reasonable degree of engineering certainty) as well as our assumptions about the owner’s willingness to accept geotechnical risk. “Maximum possible” movement estimates necessarily will be larger than those presented herein. They also have a significantly lower likelihood of being realized, in our opinion, and generally require more expensive measures to address.

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We encourage Studio CPG, upon receipt of this report, to discuss the risks and the geotechnical information presented in this report with us. In addition to the risks and remedial approaches presented in this report, Studio CPG, also must understand the risk-cost trade-offs addressed by the civil and structural engineering disciplines in order to direct their design team to the portion of the Higher Cost / Lower Risk – Lower Cost / Higher Risk spectrum in which this project should be designed. If Studio CPG does not understand these risks, it is critical that additional information or clarification be requested so that the owner's expectations reasonably can be met.

General Geotechnical Risk In GROUND's opinion, the primary source of geotechnical risk at the site is the presence of undocumented fill soils, which were encountered to depths of up to about 6 feet below existing grades. Although some of the fills at the site may have been placed in a controlled manner, records of the fill placement were not available for our review at the time of report preparation. Therefore, these fills are considered to be undocumented fill soils. Additionally, the proposed location for the new playground is in an existing landscaped area, and, in our experience, fills placed in landscaped areas sometimes are not placed to the same standards as fills intended to support new structures. Furthermore, fill soils were observed in the test holes, and based on previous site development, is likely present elsewhere on site.

Undocumented fill soils are considered to be geotechnically unsuitable to support new construction given their unknown composition and consistency. Improvements bearing directly on undocumented fills have experienced significant, damaging post-construction movements. Similarly, if significant changes to the moisture content of the site fill soils occurs, swelling and resultant heave of the fill and site improvements could occur, as discussed below.

Additionally portions of the site appear to be within the Ralston Creek flood plain. Due to the nature of this development, we understand that this may not be a design concern. Flooding risk should be evaluated by a civil engineer, where appropriate.

Likely Post-construction Movements Based on the data developed for this study and our experience in the project area, we estimate that post-construction movements on the order of 1½ to 2½ inches are likely with differential movements of similar magnitudes, where improvements are supported directly on the existing site fill soils. The underlying

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native soils, however, appear suitable to support the new improvements without excessive settlements.

Approaches that can reduce the estimates of post-construction movements are presented below.

Building Foundation and Floor Types In GROUND's opinion, supporting the proposed structure on drilled pier or driven pile foundation systems will provide the lowest estimates of likely post-construction foundation movement (about ½ inch, with similar differential movements over spans of about 40 feet) and will provide the least risk of excessive foundation movements. However, deep foundation systems may not be practical because they are not needed to support the structural loads. Geotechnical parameters for drilled pier or driven pile foundations can be provided upon request.

As an alternative to drilled piers, helical pier foundation systems, or other similar, proprietary systems, such as micropiles could be used. These systems likely will yield similar performance to drilled piers and we anticipate that they may be more economical. These proprietary systems are designed and installed by a specialty contractor. GROUND can provide additional discussion of these systems upon request.

As a higher risk but commonly used alternative, a shallow foundation consisting of spread footings may be used. In order to reduce estimates of post-construction movements to about 1 inch, a uniform fill section that extends to an elevation of approximately 5,437 feet, or a depth of about 6 feet below existing grade near Test Hole 1, would be needed. Such a fill section likely would remove and replace all of the undocumented fill soils beneath and beyond the foundation element as well, but if undocumented fill soils are present to greater depths, the remedial fill section should be extended to remove and replace all of the undocumented fill soils. Alternatively, if grades are lowered sufficiently, site improvement could be bear on firm, native soils.

As an even higher risk option, where improvements are more tolerant of post-construction movements, i.e., tolerant of movements on the order of 1½ to 2½ inches, the improvements could bear directly on the existing undocumented fill soils. If this option is selected, it should be noted that there will exist a risk that post-construction movements could be realized of greater magnitude than the estimate above. Some

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structural/aesthetic damage requiring repairs may result. The risk of this happening is difficult to quantify given the nature of undocumented fill soils.

Based on the data obtained from our test holes, we anticipate that most of the existing fill soils likely will be suitable for reuse. However, materials not suitable for reuse may be encountered in the site fill soils, even though such unsuitable materials were not recognized in the test hole.

Flatwork close to the structure for which performance like the shade structure is desired should be underlain by the same fill section. More detailed geotechnical parameters for design of shallow foundations are provided in subsequent sections of this report.

FOUNDATION SYSTEMS

The foundation parameters and considerations provided below were developed based on the performance expectations, geotechnical risks, and site conditions discussed in the prior sections of this report. The foundation systems used and bearing condition selected should be based on the owner's tolerance of post-construction movements and the associated cost-risk trade-offs. The use of these parameters assumes that the above discussed risks and post-construction movement estimates are acceptable for the project.

Shallow Foundations The geotechnical parameters below may be used for design of foundations for the proposed building.

Geotechnical Parameters for Shallow Foundation Design

- 1) Footings should bear on firm existing fill soils or a section of properly compacted fill soils as selected based on the discussion in the *Geotechnical Considerations for Design* section of this report.

A fill section, if selected, should extend at full thickness across the foundation footprint and laterally beyond the footing margins a distance equal to its depth below the foundation bearing elevation. (For a fill section extending 6 feet below the bottom of a footing, the fill section should extend laterally a distance of 6 feet.)

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The fill section beneath the structure should be laterally consistent and of uniform depth to reduce differential, post-construction foundation movements. A differential fill section will tend to increase differential movements. Considerations for fill placement and compaction are provided in the *Project Earthwork* section of this report.

The contractor should provide survey data of the excavation beneath each building indicating the depth and lateral extents of the remedial excavation.

- 2) Footings bearing on a properly placed and compacted fill section or on native soils may be designed for an allowable soil bearing pressure of **2,000 psf** for footings up to **8 feet in width**.

Footings bearing on existing fill soils may be designed for an allowable soil bearing pressure of **1,500 psf** for footings up to **6 feet in width**.

This value may be increased by $\frac{1}{3}$ for transient loads such as wind or seismic loading. For larger footings, a lower allowable bearing pressure may be appropriate.

Immediate compression of the bearing soils as the footings are loaded to the provided allowable bearing pressure is estimated to be about $\frac{1}{2}$ inch, based on an assumption of drained foundation conditions. If foundation soils are subjected to an increase/fluctuation in moisture content, however, the effective bearing capacity will be reduced and greater post-construction movements than those estimated above may result.

This estimate of foundation movement from immediate compression of the foundation soils is a component of the total, likely, post-construction movement estimated for the buildings at this site. It is in addition to movements from post-construction volume change in the native soils underlying the site and from densification of the fill section constructed beneath the building, as discussed above.

To reduce differential settlements across a foundation, footing loads should be as uniform as possible. Differentially loaded footings will settle differentially.

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- 3) Foundations should have a minimum lateral dimension of **24 or more inches**. Actual footing dimensions should be determined by the structural engineer.
- 4) Footings should bear at an elevation **3 or more feet** below the lowest adjacent exterior finish grades to have adequate soil cover for frost protection.
- 5) Geotechnical parameters for lateral resistance to foundation loads are provided in the *Lateral Loads* section of this report.
- 6) Connections of all types must be flexible and/or adjustable to accommodate the anticipated, post-construction movements of the structure.

Shallow Foundation Construction

- 7) The contractor should take adequate care when making excavations not to compromise the bearing or lateral support for nearby improvements.
- 8) Care should be taken when excavating the foundations to avoid disturbing the supporting materials particularly in excavating the last few inches.
- 9) Foundation excavation bottoms may expose loose, organic, or otherwise deleterious materials, including debris. Firm materials may become disturbed by the excavation process. All such unsuitable materials should be excavated and replaced with properly compacted fill or the foundation deepened.
- 10) Foundation-supporting soils may be disturbed or deform excessively under the wheel loads of heavy construction vehicles as the excavations approach footing bearing levels. Construction equipment should be as light as possible to limit development of this condition. The movement of vehicles over proposed foundation areas should be restricted.
- 11) All foundation subgrade should be compacted prior to placement of concrete.
- 12) Fill placed against the sides of the footings should be properly compacted in accordance with the *Project Earthwork* section of this report.

LATERAL LOADS

Values for equivalent fluid pressures and the coefficient for frictional resistance to sliding are provided below. These values were based on moist unit weight (γ') of 120 pcf and an angle of internal friction (ϕ) of 26 degrees for site soils reworked as properly compacted fill and are unfactored. Appropriate factors of safety should be included in design calculations.

Shallow Elements Resisting Lateral Loads A friction coefficient of **0.33** between a foundation element and the site soils may be used for design of shallow foundations and thrust blocks resisting lateral loads.

Passive soil pressure at this site may be estimated using an equivalent fluid pressure of **270 pcf** for drained conditions, to a **maximum of 2,700 psf**.

The upper 1 foot of embedment should be neglected for passive resistance, however. Where passive soil pressure is used to resist lateral loads, it should be understood that significant lateral strains will be required to mobilize the full value indicated above, likely 1 inch or more. A reduced passive pressure can be used for reduced anticipated strains, however.

At-Rest and Active Lateral Earth Pressures Site soils placed as backfill against a structure in an **at-rest** condition may be considered to exert an equivalent fluid unit weight of **68 pcf** for the drained condition.

Site soils placed as backfill where the full, **active** earth pressure condition applies may be considered to exert an equivalent fluid unit weight of **47 pcf** for the drained condition may be used.

WATER-SOLUBLE SULFATES

The concentration of water-soluble sulfates measured in a selected sample of site soils was approximately 0.11 percent by weight. (See Table 2.) Such a concentration of soluble sulfates represents a **moderate** environment for sulfate attack on concrete exposed to these materials. Degrees of attack are based on the scale of “negligible,” “moderate,” “severe,” and “very severe” as described in the “Design and Control of Concrete Mixtures,”

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published by the Portland Cement Association (PCA). The Colorado Department of Transportation (CDOT) utilizes a corresponding scale with four classes of severity of sulfate exposure (Class 0 to Class 3) as described in the table below.

REQUIREMENTS TO PROTECT AGAINST DAMAGE TO
CONCRETE BY SULFATE ATTACK FROM EXTERNAL SOURCES OF SULFATE

Severity of Sulfate Exposure	Water-Soluble Sulfate (SO₄²⁻) In Dry Soil (%)	Sulfate (SO₄) In Water (ppm)	Water Cementitious Ratio (maximum)	Cementitious Material Requirements
Class 0	0.00 to 0.10	0 to 150	0.45	Class 0
Class 1	0.11 to 0.20	151 to 1500	0.45	Class 1
Class 2	0.21 to 2.00	1501 to 10,000	0.45	Class 2
Class 3	2.01 or greater	10,001 or greater	0.40	Class 3

Based on our test results, PCA guidelines, and CDOT guidelines, the use of cement in all concrete exposed to site soils conforming to one of the following Class 1 requirements appears appropriate:

Class 1 (Moderate)

- 1) ASTM C150 Type II or V.
- 2) ASTM C595 Type IP(MS) or IP(HS).
- 3) ASTM C150 Type III. Type III shall have no more than 8 percent C3A.
- 4) ASTM C595 Type IL(MS), IL(HS), IT(MS), or (HS).

Class C fly ash shall not be substituted for cement.

In addition, all concrete used shall have a minimum compressive strength of 4,000 psi.

SOIL CORROSIVITY

Data were obtained to support an initial assessment of the potential for corrosion of ferrous metals in contact with earth materials at the site, based on the conditions at the time of GROUND's evaluation. The test results are summarized in Table 2.

Reduction-Oxidation testing indicated a red-ox potential of approximately -77 millivolts. Such a low potential typically creates a more corrosive environment.

Sulfide Reactivity testing indicated a "positive" result in the local soils. The presence of sulfides in the soils suggests a more corrosive environment.

Soil Resistivity In order to assess the "worst case" for mitigation planning, samples of materials retrieved from the test holes were tested for resistivity in the laboratory, after being saturated with water, rather than in the field. Resistivity also varies inversely with temperature. Therefore, the laboratory measurements were made at a controlled temperature. Measurement of electrical resistivity indicated a value of approximately 8,202 ohm-centimeters in a sample of site soils.

pH Where pH is less than 4.0, soil serves as an electrolyte; the pH range of about 6.5 to 7.5 indicates soil conditions that are optimum for sulfate reduction. In the pH range above 8.5, soils are generally high in dissolved salts, yielding a low soil resistivity.³ Our testing indicated a pH value of about 8.6.

Corrosivity Assessment The American Water Works Association (AWWA) has developed a point system scale used to predict corrosivity. The scale is intended for protection of ductile iron pipe but is valuable for project steel selection. When the scale equals 10 points or higher, protective measures for ductile iron pipe are indicated. The AWWA scale is presented below.

³ American Water Works Association ANSI/AWWA C105/A21.5-05 Standard.

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Table A.1 Soil-Test Evaluation

<u>Soil Characteristic / Value</u>	<u>Points</u>
Redox Potential	
< 0 (negative values)	5
0 to +50 mV	4
+50 to +100 mV	3½
> +100 mV	0
Sulfide Reactivity	
Positive	3½
Trace	2
Negative	0
Soil Resistivity	
<1,500 ohm-cm	10
1,500 to 1,800 ohm-cm	8
1,800 to 2,100 ohm-cm	5
2,100 to 2,500 ohm-cm	2
2,500 to 3,000 ohm-cm	1
>3,000 ohm-cm	0
pH	
0 to 2.0	5
2.0 to 4.0	3
4.0 to 6.5	0
6.5 to 7.5	0 *
7.5 to 8.5	0
>8.5	3
Moisture	
Poor drainage, continuously wet	2
Fair drainage, generally moist	1
Good drainage, generally dry	0

* If sulfides are present and low or negative redox-potential results (< 50 mV) are obtained, add three (3) points for this range.

The soil characteristics refer to the conditions at and above pipe installation depth. We anticipate that drainage at the site after construction will be effective. Nevertheless, based on the values obtained for the soil parameters, the fill and native soils appear to comprise a severely corrosive environment for ferrous metals (11½ points).

If additional information or evaluation is needed regarding soil corrosivity, then the American Water Works Association or a corrosion engineer should be contacted. It should be noted, however, that changes to the site conditions during construction, such as the

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import of other soils, or the intended or unintended introduction of off-site water, might alter corrosion potentials significantly.

PROJECT EARTHWORK

The earthwork criteria below are based on our interpretation of the geotechnical conditions encountered in the test holes. Where these criteria differ from applicable municipal specifications, e.g., for trench backfill compaction along a public utility line, the latter should be considered to take precedence.

General Considerations Project grading should be performed as early as possible in the construction sequence to allow settlement of fills and surcharged ground to be realized to the greatest extent possible prior to subsequent construction.

Prior to earthwork construction, existing construction debris, vegetation, and other deleterious materials should be removed and disposed of off-site. Relic underground utilities should be abandoned in accordance with applicable regulations, removed as necessary, and properly capped.

Topsoil and other organic materials present at the site should not be incorporated into ordinary fills. Instead, topsoil should be stockpiled during initial grading operations for placement in areas to be landscaped or for other approved uses. These materials should be removed and replaced where fill will be placed above them or where they will be beneath a proposed improvement.

Use of Existing Fill Soils Fill materials were recognized in the test holes are likely are present elsewhere on the site, given the apparent grading and development. (See the *Site Conditions* section of this report.) We anticipate that the majority of the existing fill soils will be suitable geotechnically for reuse as properly compacted fill. However, because not all the fill soils were sampled and tested, it is possible that some of the fill soils may not be suitable for reuse as compacted fill, due to the presence of deleterious materials such as trash, organic material, coarse cobbles and boulders, or construction debris. Therefore, excavated fill materials should be evaluated and tested, as appropriate, with regard to reuse.

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Use of Existing Native Soils and Bedrock Based on the samples retrieved from the test holes, we anticipate that the existing native site soils and bedrock that are free of organic materials, coarse cobbles, boulders, or other deleterious materials will be suitable, in general, for reuse as compacted fill.

Fragments of rock and cobbles, (as well as inert construction debris, e.g., concrete or asphalt) up to **3 inches** in maximum dimension may be included in project fills, in general. Such materials should be evaluated on a case-by-case basis, where identified during earthwork.

Imported Fill Materials Materials imported to the site as (common) fill should be free of organic material, and other deleterious materials. Imported material should exhibit **45 percent or less** passing the No. 200 Sieve and a plasticity index of **10 or less**. Materials proposed for import should be approved prior to transport to the site.

Fill Platform Preparation Prior to filling, the top **12 inches** of in-place materials on which fill soils will be placed (except for utility trench bottoms where bedding will be placed) should be scarified, moisture conditioned and properly compacted in accordance with the criteria below to provide a uniform base for fill placement.

If surfaces to receive fill expose loose, wet, soft, or otherwise deleterious material, additional material should be excavated, or other measures taken to establish a firm platform for filling. A surface to receive fill must be effectively stable prior to placement of fill, including trench bottoms prior to placement of bedding.

General Considerations for Fill Placement Fill soils should be thoroughly mixed to achieve a uniform moisture content, placed in uniform lifts not exceeding **8 inches** in loose thickness, and properly compacted.

No fill materials should be placed, worked, rolled while they are frozen, thawing, or during poor/inclement weather conditions.

Where soils on which foundation elements will be placed are exposed to freezing temperatures or repeated freeze–thaw cycling during construction—commonly due to water ponding in foundation excavations—bearing capacity typically is reduced and/or settlements increased due to the loss of density in the supporting soils. After periods of

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freezing conditions, the contractor should rework areas affected by the formation of ice to reestablish adequate bearing support.

Care should be taken with regard to achieving and maintaining proper moisture contents during placement and compaction. Materials that are not properly moisture conditioned may exhibit significant pumping, rutting, and deflection at moisture contents near optimum and above. The contractor should be prepared to handle soils of this type, including the use of chemical stabilization, if necessary.

Compaction areas should be kept separate, and no lift should be covered by another until relative compaction and moisture content within the specified ranges are obtained.

When a given remedial approach has been selected, the contractor should construct a test section to evaluate the effectiveness of the approach prior to use over a larger area.

Compaction Criteria Soils that classify as **GP, GW, GM, GC, SP, SW, SM, or SC** in accordance with the USCS classification system (granular materials) should be compacted to **95 or more percent** of the maximum dry density at moisture contents **within 2 percent** of the optimum moisture content as determined by ASTM D1557, the modified Proctor.

Soils that classify as **ML, MH, CL, or CH** should be compacted to **at least 95 percent** of the maximum dry density at moisture contents between **1 percent below and 3 percent above** the optimum moisture content as determined by ASTM D698, the standard Proctor.

Silty Soils Portions of the site soils are silty. Such materials commonly require greater than typical efforts to place as compacted fill because they can become unstable and difficult to compact at moisture contents near or above the optimum. Stable and compacted soils can become unstable if allowed to become wetted. The contractor should be prepared to work in these materials, or to export and replace them.

Use of Squeegee Relatively uniformly graded fine gravel or coarse sand, i.e., "squeegee," or similar materials commonly are proposed for backfilling foundation excavations, utility trenches (excluding approved pipe bedding), and other areas where employing compaction equipment is difficult. In general, this procedure should not be followed for the following reasons.

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Although commonly considered “self-compacting,” uniformly graded granular materials require densification after placement, typically by vibration. The equipment to densify these materials is not available on many job-sites.

Even when properly densified, uniformly graded granular materials are permeable and allow water to reach and collect in the lower portions of the excavations backfilled with those materials. This leads to wetting of the underlying soils and resultant potential loss of bearing support as well as increased local heave or settlement.

Wherever possible, excavations should be backfilled with approved, on-site soils placed as properly compacted fill. Where achieving adequate compaction is difficult, then Controlled Low Strength Material” (CLSM), i.e., a lean, sand-cement slurry (“flowable fill”) or a similar material should be used for backfilling.

Where “squeegee” or similar materials are proposed for use by the contractor, the design team should be notified by means of a Request for Information (RFI), so that the proposed use can be considered on a case-by-case basis. Where “squeegee” meets the project requirements for pipe bedding material, however, it is acceptable for that use.

Settlements Settlements will occur in newly filled ground, typically on the order of 1 to 2 percent of the fill depth. This is separate from settlement of the existing soils left in place. For a 6-foot fill, for example, that corresponds to a total settlement of about 1 inch. If fill placement is performed properly and is tightly controlled, in GROUND’s experience the majority (on the order of 60 to 80 percent) of that settlement typically will take place during earthwork construction, provided the contractor achieves the compaction levels indicated herein. The remaining potential settlements likely will take several months or longer to be realized, and may be exacerbated if these fills are subjected to changes in moisture content.

Cut and Filled Slopes Permanent, unretained, graded slopes supported by local soils up to **10 feet** in height should be constructed no steeper than **3 : 1** (horizontal : vertical). Minor raveling or surficial sloughing should be anticipated on slopes cut at this angle until vegetation is well reestablished. Surface drainage should be designed to direct water away from slope faces into designed drainage pathways or structures.

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Steeper slope angles and heights may be possible but will require detailed slope stability analysis based on final proposed grading plans. A geotechnical engineer should be retained to evaluate this on a case-by-case basis.

EXCAVATION CONSIDERATIONS

Excavation Difficulty The test hole for the subsurface exploration was advanced to the depth indicated on the test hole log by means of conventional, track-mounted, geotechnical drilling equipment. Therefore, in general, we anticipate no unusual excavation difficulties in these materials for the proposed construction with conventional, heavy duty, excavating equipment.

However, given the inherent nature of undocumented fill soils, materials that may be awkward or otherwise difficult to handle (e.g., relatively large pieces of construction debris, relic foundation elements, etc.) may be encountered the undocumented fill soils, even though such materials were not recognized in the test hole. Very coarse cobbles and boulders that may require special handling and processing could be encountered in undocumented fill, as well.

Temporary Excavations and Personnel Safety Excavations in which personnel will be working must comply with all applicable OSHA Standards and Regulations, particularly CFR 29 Part 1926, OSHA Standards-Excavations, adopted March 5, 1990. The contractor's "responsible person" should evaluate the soil exposed in the excavations as part of the contractor's safety procedures. GROUND has provided the information in this report solely as a service to Studio CPG, and is not assuming responsibility for construction site safety or the contractor's activities.

Some surface sloughing may occur on the slope faces at these angles. Should site constraints prohibit the use of sloped excavation walls, temporary shoring should be used. GROUND is available to provide shoring design upon request. Stockpiling of materials should not be permitted closer to the tops of temporary slopes than **5 feet** or **a distance equal to the depth of the excavation**, whichever is greater.

The contractor should take care when making excavations not to compromise the bearing or lateral support for any adjacent, existing improvements.

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Groundwater Groundwater was encountered within the test holes at depth as shallow as 5,431 feet in Test Hole 1. Therefore, based on conditions at the time of this subsurface exploration, project excavations as shallow as 5,435 feet may encounter groundwater or saturated soils. Relatively limited volumes of perched groundwater may be encountered at shallower depths and are more likely to be encountered after periods of significant precipitation or snow melt.

Groundwater levels can be expected to fluctuate, however, in response to annual and longer-term cycles of precipitation, irrigation, surface drainage, land use, and the development of transient, perched water conditions. The groundwater observations performed during our exploration must be interpreted carefully as they are short-term and do not comprise a groundwater study. In the event the Client desires additional/repeated groundwater level observations, GROUND should be contacted; additional exploration and fees will be necessary in this regard.

It is likely that groundwater may be encountered in project excavations at depths both shallower and deeper than those indicated above. The contractor should be prepared to dewater the excavation during construction. Pumps adequate to discharge water and/or well points to draw down the water level may be appropriate methods. Other methods may also be necessary. The dewatering approach should ultimately be determined by the contractor based on their means and methods experience.

Should seepage or flowing groundwater be encountered in project excavations, the slopes should be flattened as necessary to maintain stability or a geotechnical engineer should be retained to evaluate the conditions. The risk of slope instability will be significantly increased in areas of seepage along excavation slopes.

Surface Water The contractor should take pro-active measures to control surface waters during construction and maintain good surface drainage conditions to direct waters away from excavations and into appropriate drainage structures. A properly designed drainage swale should be provided at the tops of the excavation slopes. In no case should water be allowed to pond near project excavations.

Temporary slopes should also be protected against erosion. Erosion along the slopes will result in sloughing and could lead to a slope failure.

SURFACE DRAINAGE

The following drainage measures should be followed both for during construction and as part of project design. However, we understand that given the nature of the proposed improvements and their location, a park, some of these measures may not be practical to implement. Where they are not implemented, there exists a risk of the post-construction movement estimates listed in this report being exceeded.

Regardless, the facility should be observed periodically to evaluate the surface drainage and identify areas where drainage is ineffective. Routine maintenance of site drainage should be undertaken throughout the design life of the proposed facility. Maintenance may include removal and replacement of sidewalk stones, curb and gutter, etc., to restore effective drainage. If these measures are not implemented and maintained effectively, the movement estimates provided in this report could be exceeded.

- 1) Wetting or drying of underslab areas should be avoided during and after construction. Permitting increases/variations in moisture to the adjacent or supporting soils may result in increased total and/or differential movements.
- 2) Measures for positive surface drainage away from the building should be provided and maintained to reduce water infiltration into foundation soils. Underdrains should not be relied upon in surface drainage design to collect and discharge surface waters.

A minimum slope of **12 inches in the first 10 feet** in the areas not covered with pavement or concrete slabs should be established. For areas covered with asphalt pavement or concrete slabs, slopes **should comply with ADA requirements where required**. Increasing slopes to **a minimum of 3 percent in the first 10 feet** in the areas covered with pavement or concrete slabs will reduce, but not eliminate, the potential for moisture infiltration and subsequent volume change of the underling soils.

In no case should water be allowed to pond near or adjacent to foundation elements, hardscaping, etc.

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- 3) Drainage also should be established and maintained to direct water away from sidewalks and other hardscaping as well as utility trench alignments which are not tolerant of increased post-construction movements.

The ground surface near foundation elements should be able to convey water away readily. Cobbles or other materials that tend to act as baffles and restrict surface flow should not be used to cover the ground surface near the foundations.

Where the ground surface does not convey water away readily, additional post-construction movements and distress should be anticipated.

- 4) In GROUND's experience, it is common during construction that in areas of partially completed paving or hardscaping, bare soil behind curbs and gutters, and utility trenches, water is allowed to pond after rain or snow-melt events. Wetting of the subgrade can result in loss of subgrade support and increased settlements. By the time final grading has been completed, significant volumes of water can already have entered the subgrade, leading to subsequent distress and failures. The contractor should maintain effective site drainage throughout construction so that water is directed into appropriate drainage structures.
- 5) In no case should water be permitted to pond adjacent to or on sidewalks, hardscaping, or other improvements as well as utility trench alignments, which are likely to be adversely affected by moisture-volume changes in the underlying soils or flow of infiltrating water.
- 6) Roof downspouts and drains, if used, should discharge well beyond the perimeter of the structure foundation, or be provided with positive conveyance off-site for collected waters. Downspouts should not be routed to discharge into an underdrain system.

If roof downspouts and drains are not used, then surface drainage design should anticipate concentrated volumes of water adjacent to the buildings.

SUBSURFACE DRAINAGE

As a component of project civil design, properly functioning, subsurface drain systems (underdrains) can be beneficial for collecting and discharging saturated subsurface waters. Underdrains will not collect water infiltrating under unsaturated (vadose) conditions, or moving via capillarity, however. In addition, if not properly constructed and maintained, underdrains can transfer water into foundation soils, rather than remove it. This will tend to induce heave or settlement of the subsurface soils, and may result in distress. Underdrains can, however, provide an added level of protection against relatively severe post-construction movements by draining saturated conditions near individual structures should they arise, and limiting the volume of wetted soil. If an underdrain system is considered for this project, GROUND can provide parameters for such as system upon request.

EXTERIOR FLATWORK

We anticipate that portions of the site will be provided with concrete flatwork. Like other site improvements, flatwork will experience post-construction movements as soil moisture contents increase after construction and distress likely will result. The following measures will help to reduce damages to these improvements, but will not prevent all movements. Critical flatwork, such as flatwork at entrances and exits, should be constructed as a slab-on-grade floor as discussed in the *Geotechnical Considerations for Design* section of this report. Such areas should be identified by the owner.

- 1) Based on the plasticity of the soils and CDOT guidelines, the flatwork should be constructed on a section of properly moisture-conditioned and compacted to a depth of **at least 24 inches or a depth that removes and replaces all existing fill soils, whichever is greater**. This section assumes that district will be tolerant of significant total and differential flatwork post-construction movements (on the order of several inches) and the associated maintenance costs that that are necessary to reestablish effective drainage, replace distressed flatwork, etc.

We understand, however, that it may not be practical remove and replace all the undocumented fill soils or soft, yielding, or otherwise deleterious soils. Therefore, if the owner opts to reduce the fill section beneath the flatwork, additional post-

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construction movements, and additional maintenance should be anticipated. We suggest remedial earthwork should be performed to no less than 12 inches in such a case. Similarly, where existing utility lines or other site constraints limit the depth to which remedial earthwork can be accomplished, additional maintenance should be anticipated.

In general, increasing the depth of fill beneath the flatwork will decrease the risk of post-construction movements.

Subgrade preparation of the selected depth should extend the full width of the flatwork.

Geotechnical criteria for fill placement and compaction are provided in the *Project Earthwork* section of this report. The contractor should be prepared to either dry the subgrade materials or moisten them, as needed, prior to compaction.

- 2) Prior to placement of flatwork, a proof roll should be performed to identify areas that exhibit instability and deflection. The deleterious soils in these areas should be removed and replaced with properly compacted fill. The contractor should take care to achieve and maintain compaction behind curbs to reduce differential sidewalk settlements. Passing a proof roll is an additional requirement to placing and compacting the subgrade fill soils within the specified ranges of moisture content and relative compaction in the *Project Earthwork* section of this report. Subgrade stabilization may be cost-effective in this regard.
- 3) Flatwork should be provided with control joints extending to an effective depth and spaced no more than **10 feet** apart, both ways. Narrow flatwork, such as sidewalks, likely will require more closely spaced joints.
- 4) In no case should exterior flatwork extend to under any portion of a structure where there is less than **2 inches** of vertical clearance between the flatwork and any element of the building. Exterior flatwork in contact with brick, rock facades, or any other element of the building can cause damage to the structure if the flatwork experiences movements.

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Concrete Scaling Climatic conditions in the project area including relatively low humidity, large temperature changes and repeated freeze-thaw cycles, make it likely that project sidewalks and other exterior concrete will experience surficial scaling or spalling. The likelihood of concrete scaling can be increased by poor workmanship during construction, such as “over-finishing” the surfaces. In addition, the use of de-icing salts on exterior concrete flatwork, particularly during the first winter after construction, will increase the likelihood of scaling. Even use of de-icing salts on nearby roadways, from where vehicle traffic can transfer them to newly placed concrete, can be sufficient to induce scaling. Typical quality control / quality assurance tests that are performed during construction for concrete strength, air content, etc., do not provide information with regard to the properties and conditions that give rise to scaling.

We understand that some municipalities require removal and replacement of concrete that exhibits scaling, even if the material was within specification and placed correctly. The contractor should be aware of the local requirements and be prepared to take measures to reduce the potential for scaling and/or replace concrete that scales.

In GROUND’s experience, the measures below can be beneficial for reducing the likelihood of concrete scaling. Which measures, if any, used should be based on cost and the owner’s tolerance for risk and maintenance. It must be understood, however, that because of the other factors involved, including weather conditions and workmanship, surface damage to concrete can develop, even where all of these measures were followed. Also, the mix design criteria should be coordinated with other project requirements including criteria for sulfate resistance presented in the *Water-Soluble Sulfates* section of this report.

- 1) Maintaining a maximum water/cement ratio of 0.45 by weight for exterior concrete mixes.
- 2) Include Type F fly ash in exterior concrete mixes as 20 percent of the cementitious material.
- 3) Specify a minimum, 28-day, compressive strength of 4,500 psi for all exterior concrete.

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- 4) Including “fibermesh” in the concrete mix also may be beneficial for reducing surficial scaling.
- 5) Cure the concrete effectively at uniform temperature and humidity. This commonly will require fogging, blanketing and/or tenting, depending on the weather conditions. As long as 3 to 4 weeks of curing may be required, and possibly more.
- 6) Avoid placement of concrete during cold weather so that it is not exposed to freeze-thaw cycling before it is fully cured.
- 7) Avoid the use of de-icing salts on given reaches of flatwork through the first winter after construction.

We understand that sometimes it is not practical to implement some of these measures for reducing scaling due to safety considerations, project scheduling, etc. In such cases, where these measures are not implemented, additional costs for flatwork maintenance or reconstruction should be incorporated into project budgets.

Frost and Ice Considerations Nearly all soils other than relatively coarse, clean, granular materials are susceptible to loss of density if allowed to become saturated and exposed to freezing temperatures and repeated freeze–thaw cycling. The formation of ice in the underlying soils can result in heaving of pavements, flatwork, and other hardscaping (“ice jacking”) in sustained cold weather up to 2 inches or more. This heaving can develop relatively rapidly. A portion of this movement typically is recovered when the soils thaw, but due to loss of soil density, some degree of displacement will remain. This can result even where the subgrade soils were prepared properly.

Where hardscape movements are a design concern, replacement of the subgrade soils with 3 or more feet of clean, coarse sand or gravel should be considered or supporting the element on foundations similar to the building and spanning over a void. Detailed guidance in this regard can be provided upon request. It should be noted that where such open graded granular soils are placed, water can infiltrate and accumulate in the subsurface relatively easily, which can lead to increased settlement or heave from factors unrelated to ice formation. Therefore, where a section of open graded granular soils is

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placed, a local underdrain system should be provided to discharge collected water. GROUND will be available to discuss these concerns upon request.

CLOSURE

Geotechnical Review The author of this report or a GROUND principal should be retained to review project plans and specifications to evaluate whether they comply with the intent of the measures discussed in this report. The review should be requested in writing.

The geotechnical conclusions and parameters presented in this report are contingent upon observation and testing of project earthworks by representatives of GROUND. If another geotechnical consultant is selected to provide materials testing, then that consultant must assume all responsibility for the geotechnical aspects of the project by concurring in writing with the parameters in this report, or by providing alternative parameters.

Materials Testing Studio CPG should consider retaining a geotechnical engineer to perform materials testing during construction. The performance of such testing or lack thereof, however, in no way alleviates the burden of the contractor or subcontractor from constructing in a manner that conforms to applicable project documents and industry standards. The contractor or pertinent subcontractor is ultimately responsible for managing the quality of his work; furthermore, testing by the geotechnical engineer does not preclude the contractor from obtaining or providing whatever services that he deems necessary to complete the project in accordance with applicable documents.

Limitations This report has been prepared for Studio CPG as it pertains to design and construction of the proposed park improvements as described herein. It may not contain sufficient information for other parties or other purposes.

In addition, GROUND has assumed that project construction will commence by spring 2024. Any changes in project plans or schedule should be brought to the attention of a geotechnical engineer, in order that the geotechnical conclusions in this report may be re-evaluated and, as necessary, modified. **If our described understanding / interpretation of the proposed project is incorrect or project elements differ in any way from that expressed herein, including changes to improvement locations, dimensions,**

orientations, loading conditions, elevations/grades, etc., and/or additional buildings/structures/site improvements are incorporated into this project, either after the original information was provided to us or after the date of this report, GROUND or another geotechnical engineer must be retained to reevaluate the conclusions and parameters presented herein.

The geotechnical conclusions in this report relied upon subsurface exploration at a limited number of exploration points, as shown in Figure 1, as well as the means and methods described herein. Subsurface conditions were interpolated between and extrapolated beyond these locations. It is not possible to guarantee the subsurface conditions are as indicated in this report. Actual conditions exposed during construction may differ from those encountered during site exploration. Design modifications may be necessary by the project team; this may result in an increase in project costs and schedule delays.

If during construction, surface, soil, bedrock, or groundwater conditions appear to be at variance with those described herein, a geotechnical engineer should be retained at once, so that reevaluation of the conclusions for this site may be made in a timely manner. In addition, a contractor who obtains information from this report for development of his scope of work or cost estimates may find the geotechnical information in this report to be inadequate for his purposes or find the geotechnical conditions described herein to be at variance with his experience in the greater project area. The contractor is responsible for obtaining the additional geotechnical information that is necessary to develop his workscope and cost estimates with sufficient precision. This includes current depths to groundwater, etc.

ALL DEVELOPMENT CONTAINS INHERENT RISKS. It is important that ALL aspects of this report, as well as the estimated performance (and limitations with any such estimations) of proposed improvements are understood by Studio CPG. Utilizing these criteria and measures herein for planning, design, and/or construction constitutes understanding and acceptance of the conclusions with regard to risk and other information provided herein, associated improvement performance, as well as the limitations inherent within such estimates.

Ensuring correct interpretation of the contents of this report by others is not the responsibility of GROUND. If any information referred to herein is not well understood,

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then Studio CPG or other members of the design team, should contact the author or a GROUND principal immediately. We will be available to meet to discuss the risks and remedial approaches presented in this report, as well as other potential approaches, upon request.

GROUND makes no warranties, either expressed or implied, as to the professional data, opinions or conclusions contained herein. This document, together with the concepts and conclusions presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of, or improper reliance on this document without written authorization and adaption by GROUND Engineering Consultants, Inc., shall be without liability to GROUND Engineering Consultants, Inc.

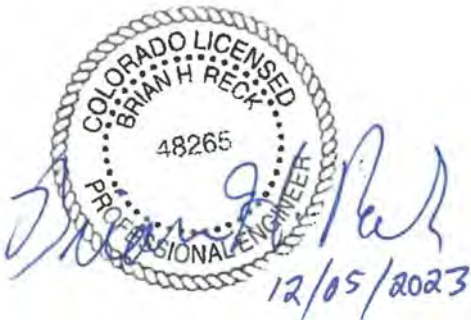
GROUND appreciates the opportunity to complete this portion of the project and welcomes the opportunity to provide Studio CPG or the owner with a proposal for construction observation and materials testing.

Sincerely,

GROUND Engineering Consultants, Inc.



Ben Fellbaum, P.G., E.I.



Reviewed by Brian H. Reck, P.G., C.E.G., P.E.



Indicates test hole numbers and approximate locations.



NOT TO SCALE

GOOGLE EARTH AERIAL IMAGE (10/02/2022)
SITE PLAN PROVIDED BY CLIENT

GROUND
ENGINEERING

JOB NO.: 23-3053

FIGURE: 1

LOCATION OF TEST HOLES

PROJECT: Danny Kendrick Park East Improvements

JOB NO: 23-3053

CLIENT: Studio CPG

SITE LOCATION: Arvada, CO

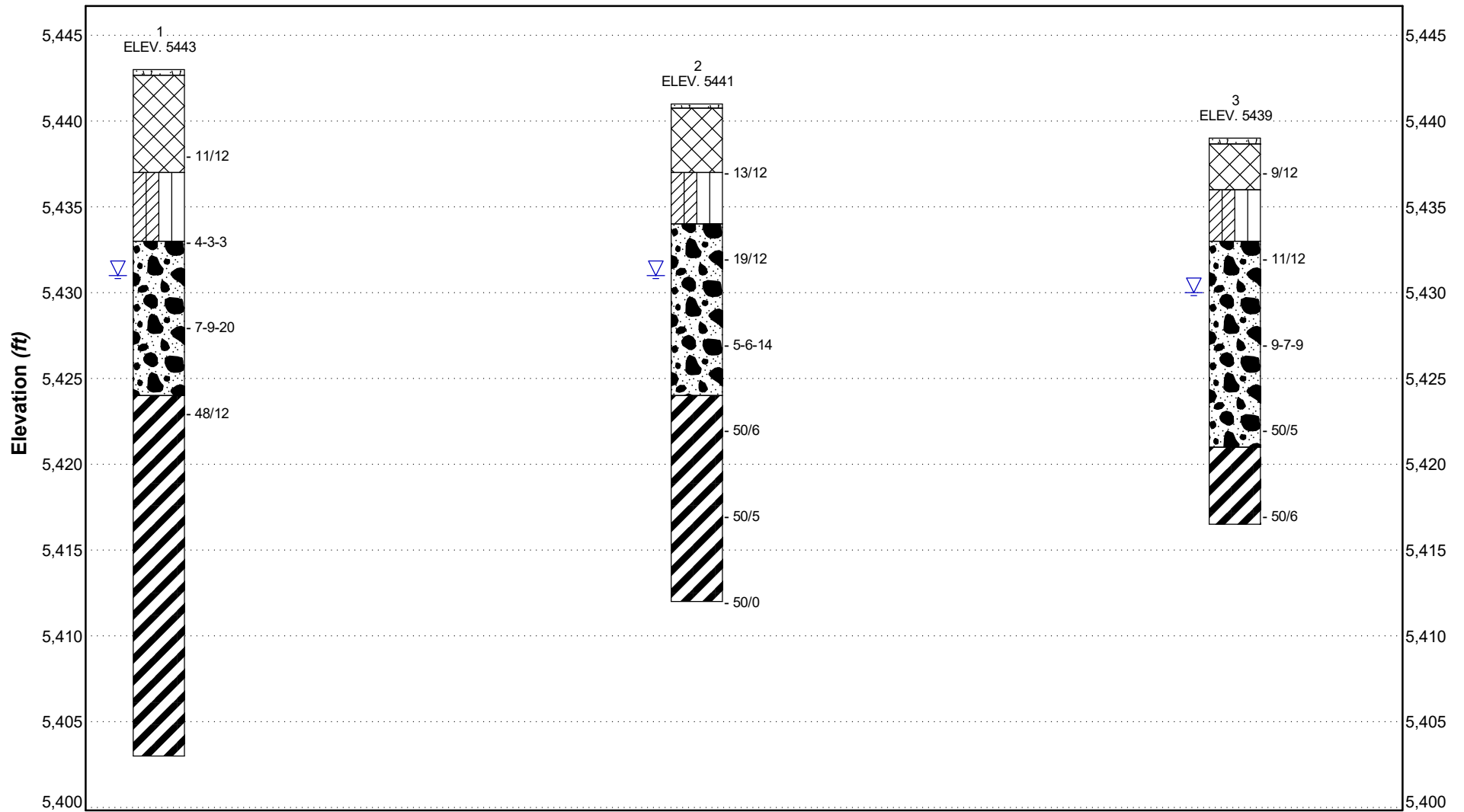


Figure 2

PROJECT: Danny Kendrick Park East Improvements

JOB NO: 23-3053

CLIENT: Studio CPG

SITE LOCATION: Arvada, CO

MATERIAL SYMBOLS



TOPSOIL



FILL



SAND and GRAVEL



SILT and CLAY



SILTSTONE and CLAYSTONE BEDROCK

SAMPLER SYMBOLS



Modified California Liner Sampler

23 / 12 Drive sample blow count indicates 23 blows of a 140 pound hammer falling 30 inches were required to drive the sampler 12 inches.



No Recovery



Standard Penetration Test Sampler

20-25-30 Drive sample blow count, indicates 20, 25, and 30 blows of a 140 pound hammer falling 30 inches were required to drive the sampler 18 inches in three 6 inch increments.

NOTES

1. Test holes were drilled on 10/23/2023 with 4" solid stem auger.
2. Locations of the test holes were determined in the field using a hand held GPS device by GROUND.
3. Elevations of test holes were estimated from client provided documents and the logs of test holes are hung to elevation.
4. The test hole locations and elevations should be considered accurate only to the degree implied by the method used.
5. The lines between materials shown on the test hole logs represent the approximate boundaries between material types and the transitions may be gradual.
6. Groundwater level readings shown on the logs were made at the time and under the conditions indicated. Fluctuations in the water level may occur with time.
7. The material descriptions on these logs are for general classification purposes only. See full text of this report for descriptions of the site materials & related information.
8. All test holes were immediately backfilled upon completion of drilling, unless otherwise specified in this report.

NOTE: See Detailed Logs for Material descriptions.

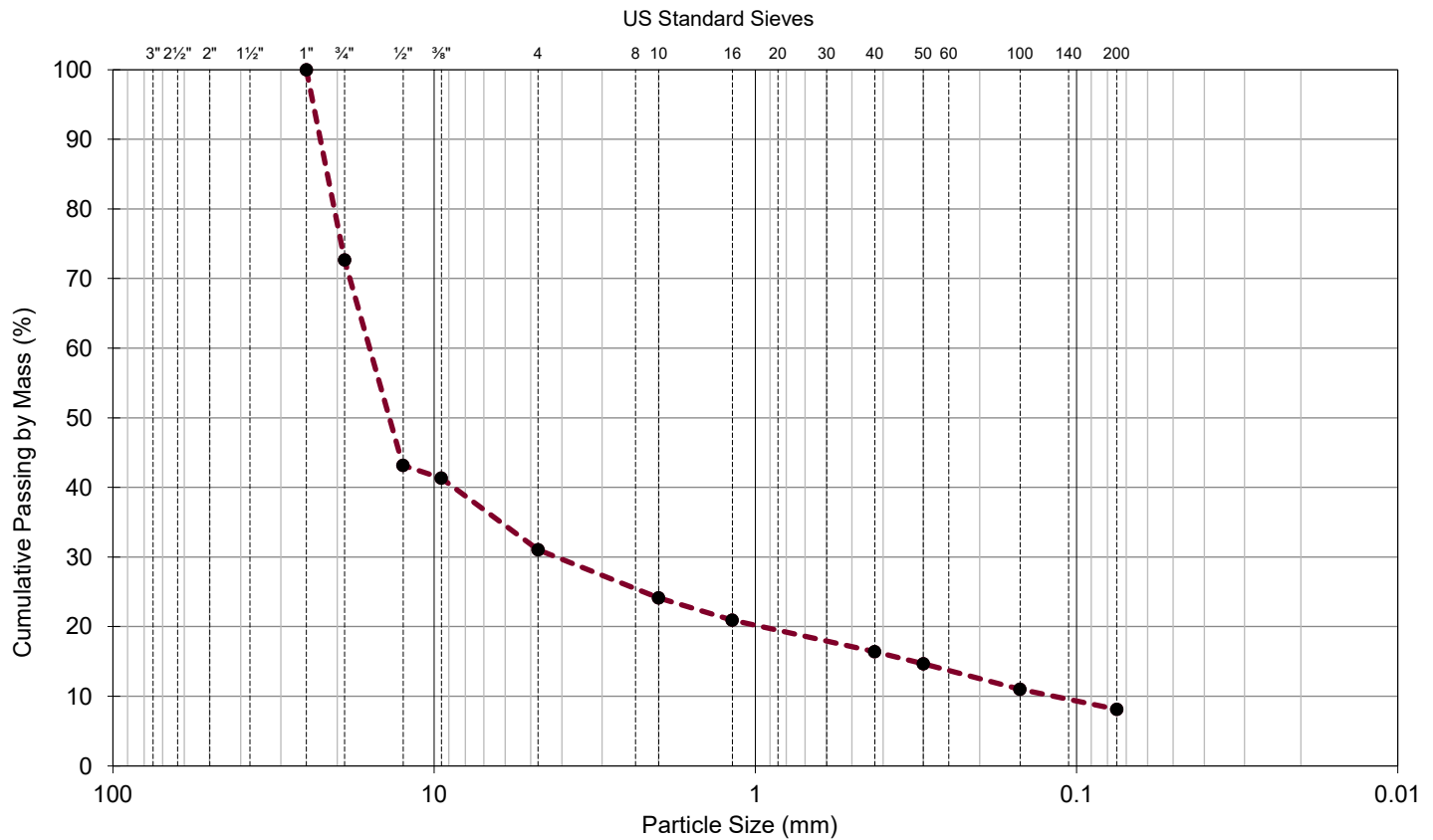
ABBREVIATIONS

- ▼ Water Level at Time of Drilling, or as Shown
- ▼ Water Level at End of Drilling, or as Shown
- ▼ Water Level After 24 Hours, or as Shown

NV No Value
NP Non-Plastic

Danny Kendrick Park East Improvements

Gradation (ASTM D422-63[2007])



Coarse Gradation			Fine Gradation			Grading	
US Standard Sieve	Particle Size (mm)	Passing by Mass (%)	US Standard Sieve	Particle Size (mm)	Passing by Mass (%)	Coefficient	Value
6 in	150	-	No. 4	4.75	31	D90	22.612
5 in	125	-	No. 8	2.36	-	D85	21.504
4 in	100	-	No. 10	2.00	24	D80	20.451
3 in	75	-	No. 16	1.18	21	D60	15.872
2.5 in	63	-	No. 20	0.85	-	D50	13.771
2 in	50	-	No. 30	0.60	-	D40	8.690
1.5 in	37.5	-	No. 40	0.425	16	D30	4.166
1 in	25.0	100	No. 50	0.300	15	D15	0.319
3/4 in	19.0	73	No. 60	0.250	-	D10	0.117
1/2 in	12.5	43	No. 100	0.150	11	D05	-
3/8 in	9.5	41	No. 140	0.106	-	Cu	135.347
No. 4	4.75	31	No. 200	0.075	8.1	Cc	9.323

Location: 3 at 12 feet
Description: GRAVEL with Sand

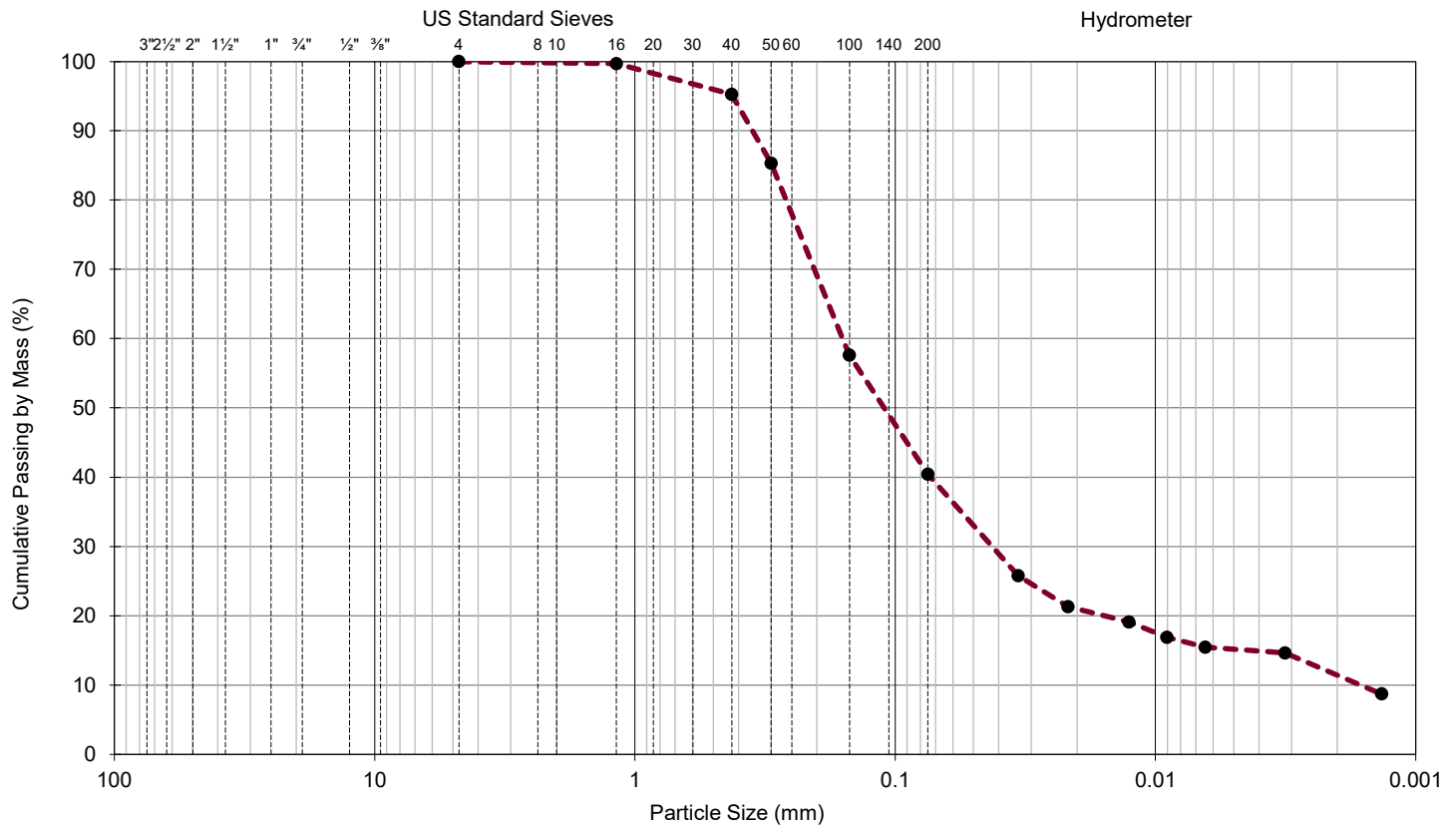
Classification: (GP-GC)s / A-2-4 (0)
Liquid Limit: 25
Plasticity Index: 8

Gravel (%): 69
Sand (%): 23
Silt/Clay (%): 8

Results apply only to the specific items and locations referenced and at the time of testing. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

Danny Kendrick Park East Improvements

Gradation and Hydrometer (ASTM D422-63[2007])



Coarse Gradation			Fine Gradation			Hydrometer		Grading	
US Standard Sieve	Particle Size (mm)	Passing by Mass (%)	US Standard Sieve	Particle Size (mm)	Passing by Mass (%)	Particle Size (mm)	Passing by Mass (%)	Coefficient	Value
6 in	150	-	No. 4	4.75	100	0.034	26	D90	0.353
5 in	125	-	No. 8	2.36	-	0.022	21	D85	0.298
4 in	100	-	No. 10	2.00	-	0.013	19	D80	0.263
3 in	75	-	No. 16	1.18	100	0.009	17	D60	0.159
2.5 in	63	-	No. 20	0.85	-	0.006	15	D50	0.110
2 in	50	-	No. 30	0.60	-	0.003	15	D40	-
1.5 in	37.5	-	No. 40	0.425	95	0.001	9	D30	-
1 in	25.0	-	No. 50	0.300	85	-	-	D15	-
3/4 in	19.0	-	No. 60	0.250	-	-	-	D10	-
1/2 in	12.5	-	No. 100	0.150	58	-	-	D05	-
3/8 in	9.5	-	No. 140	0.106	-	-	-	Cu	-
No. 4	4.75	100	No. 200	0.075	40.4	-	-	Cc	-

Location: 1 at 10 feet
Description: Clayey SAND

Classification: SC-SM / A-4 (0)
Liquid Limit: 22
Plasticity Index: 5
Activity: 0.4

Gravel (%): 0
Sand (%): 60
Silt/Clay (%): 40
< .002 mm (%): 11

Results apply only to the specific items and locations referenced and at the time of testing. For the hydrometer portion of the test, a composite temperature correction and meniscus correction were applied to each reading. This report should not be reproduced, except in full, without the written permission of GROUND Engineering Consultants, Inc.

Danny Kendrick Park East Improvements

TABLE 1: SUMMARY OF LABORATORY TEST RESULTS

Sample Location		Natural Moisture Content (%)	Natural Dry Density (pcf)	Gradation			Atterberg Limits		Swell/Consolidation		Unconfined Compressive Strength		USCS Equivalent Classification	AASHTO Equivalent Classification (Group Index)	Sample Description
Test Hole No.	Depth (feet)			Gravel (%)	Sand (%)	Fines (%)	Liquid Limit	Plasticity Index	Volume Change (%)	Surcharge Pressure (psf)	(psi)	(ksf)			
1	5	10.6	116.0	0	57	42.8	26	7	-0.5	600	-	-	SC-SM	A-4 (0)	FILL: Clayey Sand
1	10	13.8	100.7	0	60	40.4	22	5	-	-	-	-	SC-SM	A-4 (0)	Clayey SAND
1	20	19.8	106.9	0	47	52.6	42	12	-	-	58.7	8.45	s(ML)	A-7-5 (4)	Sandy SILTSTONE
2	4	13.7	110.2	0	37	63.2	25	6	-	-	-	-	s(CL-ML)	A-4 (2)	Sandy CLAY
3	2	19.3	93.1	0	29	71.0	36	11	0.2	250	-	-	(ML)s	A-6 (7)	FILL: Silt with Sand
3	12	9.5	-	69	23	8.1	25	8	-	-	-	-	(GP-GC)s	A-2-4 (0)	GRAVEL with Sand

Job No. 23-3053



Danny Kendrick Park East Improvements

TABLE 2: SUMMARY OF SOIL CORROSION TEST RESULTS

Sample Location		Water Soluble Sulfates (%)	pH	Redox Potential (mv)	Sulfide Reactivity	Resistivity (ohm-cm)	USCS Equivalent Classification	AASHTO Equivalent Classification (Group Index)	Sample Description
Test Hole No.	Depth (feet)								
2	4	0.11	8.6	- 77	Positive	8,212	s(CL-ML)	A-4 (2)	Sandy CLAY

Job No. 23-3053

Appendix A

Detailed Logs of the Test Holes

PROJECT: Danny Kendrick Park East Improvements

JOB NO: 23-3053

CLIENT: Studio CPG

SITE LOCATION: Arvada, CO

Elevation (ft)	Depth (ft)	Graphic Log	Material Descriptions and Drilling Notes	Sample Type	Blow Count	Natural Moisture Content (%)	Natural Dry Density (pcf)	Percent Passing No. 200 Sieve	Atterberg Limits		Swell/Consolidation (%) at Surcharge Pressure (psf)	Unconfined Compressive Strength (ksf)	USCS Equivalent Classification
									Liquid Limit	Plasticity Index			
5443	0		TOPSOIL: Approximately 4 inches of topsoil.										
			FILL: Silts and clays with fine sands. It was slightly moist, moderately plastic, stiff, and brown in color.										
5438	5			✖	11/12	10.6	116	43	26	7	-0.5 (600)		SC-SM
			SILTS and CLAYS: Silts and clays with fine sands. It was moist, non- to slightly plastic, loose or stiff, and brown to dark brown to red brown in color. Iron staining was noted locally.										
5433	10			✖	4-3-3	13.8	100.7	40	22	5			SC-SM
			SANDS and GRAVELS: Fine to coarse sands and gravels. It was slightly moist to wet, non-plastic, medium dense to very hard, and light brown to brown in color. Iron staining was noted locally.										
			Groundwater encountered at 12 feet at the time of drilling.										
5428	15			✖	7-9-20								
5423	20		CLAYSTONE and SILTSTONE BEDROCK: Claystones and siltstones with varying fractions of sands and trace gravels. It was slightly moist to very moist, moderately to highly plastic, medium hard to very hard, and gray in color.	✖	48/12	19.8	106.9	53	42	12		8.45	s(ML)
5418	25												
5413	30												
5408	35												
5403	40												

Bottom of test hole at approx. 40 feet.

PROJECT: Danny Kendrick Park East Improvements

JOB NO: 23-3053

CLIENT: Studio CPG

SITE LOCATION: Arvada, CO

Elevation (ft)	Depth (ft)	Graphic Log	Material Descriptions and Drilling Notes	Sample Type	Blow Count	Natural Moisture Content (%)	Natural Dry Density (pcf)	Percent Passing No. 200 Sieve	Atterberg Limits		Swell/Consolidation (%) at Surcharge Pressure (psf)	Unconfined Compressive Strength (ksf)	USCS Equivalent Classification
									Liquid Limit	Plasticity Index			
5441	0		TOPSOIL: Approximately 3 inches of topsoil.										
			FILL: Silts and clays with fine sands. It was slightly moist, moderately plastic, stiff, and brown in color.										
5436	5		SILTS and CLAYS: Silts and clays with fine sands. It was moist, non- to slightly plastic, loose or stiff, and brown to dark brown to red brown in color. Iron staining was noted locally.	13/12	13.7	110.2	63	25	6				s(CL-ML)
			SANDS and GRAVELS: Fine to coarse sands and gravels. It was slightly moist to wet, non-plastic, medium dense to very hard, and light brown to brown in color. Iron staining was noted locally.	19/12									
5431	10		Groundwater encountered at 10 feet at the time of drilling.										
5426	15			5-6-14									
5421	20		CLAYSTONE and SILTSTONE BEDROCK: Claystones and siltstones with varying fractions of sands and trace gravels. It was slightly moist to very moist, moderately to highly plastic, medium hard to very hard, and gray in color.	50/6									
5416	25			50/5									

Bottom of test hole at approx. 29 feet.

50/0

PROJECT: Danny Kendrick Park East Improvements

JOB NO: 23-3053

CLIENT: Studio CPG

SITE LOCATION: Arvada, CO

Elevation (ft)	Depth (ft)	Graphic Log	Material Descriptions and Drilling Notes	Sample Type	Blow Count	Natural Moisture Content (%)	Natural Dry Density (pcf)	Percent Passing No. 200 Sieve	Atterberg Limits		Swell/Consolidation (%) at Surcharge Pressure (psf)	Unconfined Compressive Strength (ksf)	USCS Equivalent Classification
									Liquid Limit	Plasticity Index			
5439	0		TOPSOIL: Approximately 3 inches of topsoil.										
			FILL: Silts and clays with fine sands. It was slightly moist, moderately plastic, stiff, and brown in color.	✖	9/12	19.3	93.1	71	36	11	0.2 (250)		(ML)s
5434	5		SILTS and CLAYS: Silts and clays with fine sands. It was moist, non- to slightly plastic, loose or stiff, and brown to dark brown to red brown in color. Iron staining was noted locally.										
			SANDS and GRAVELS: Fine to coarse sands and gravels. It was slightly moist to wet, non-plastic, medium dense to very hard, and light brown to brown in color. Iron staining was noted locally.	✖	11/12								
5429	10		Groundwater encountered at 9 feet at the time of drilling.										
				✖	9-7-9	9.5		8	25	8			(GP-GC)s
5424	15												
				✖	50/5								
5419	20		CLAYSTONE and SILTSTONE BEDROCK: Claystones and siltstones with varying fractions of sands and trace gravels. It was slightly moist to very moist, moderately to highly plastic, medium hard to very hard, and gray in color.										
				✖	50/6								

Bottom of test hole at approx. 22.5 feet.

SIGN SPECIFICATIONS

- A** 1/4" ALUMINUM SIGN FACES, WITH POWDER-COAT FINISH. ALL GRAPHICS ARE OPAQUE WHITE 3M FILM OVERLAYS. PANEL TO BE MOUNTED TO 1-1/2" ALUMINUM ANGLE TOP/BOTTOM, WITH APPOSING 1" ANGLE ATTACHED TO CABINET. THIS APPOSING ANGLE INSTALLATION WILL MAKE CHANGING OF THE PANEL POSSIBLE BY REMOVING TOP AND BOTTOM SCREWS ATTACHING ANGLES.
- B** 1/8" ALUMINUM FACES OVER 2"x2" U-CHANNEL FRAME, POWDER-COATED APPROVED COLOR.
- C** 3/8" STEEL ARCH CAP, FINISHED APPROVED COLOR.
- D** 1/4" FLAT CUT ALUMINUM LOGO, WITH POWDER-COAT FINISH; BLIND STUD MOUNTED FLUSH TO CABINET.
- E** 6" STEEL SUPPORT POSTS PIPES, WITH PAINTED FINISH. BOTTOM TO BE WELDED TO MOUNTED PLATE AND INSTALLED ONTO CONCRETE CAISSON WITH J-BOLTS.

NOTE:
SHOP DRAWINGS AND SPECIFICATIONS FROM DAVINCI SIGN SYSTEMS ARE PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND CONNECTIONS OF EXISTING SIGN COMPONENTS PRIOR TO REMOVAL. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE NEW CONCRETE FOOTERS, MOUNTING HARDWARE, AND RE-INSTALLATION OF PARK SIGN AS SHOWN ON THE DANNY KENDRICK PARK EAST PLAYGROUND PLANS. THE CITY OF ARVADA'S VCN (PARKS) DEPARTMENT WILL BE RESPONSIBLE FOR THE REPAINTING OF THE SIGN AND WILL PROVIDE THE REFURBISHED PANEL TO THE CONTRACTOR FOR INSTALLATION AT THE CONSTRUCTION SITE.



A	SIGN TYPE	JOB TYPE	QTY	SCALE
	PARK ENTRY SIGN	MANUFACTURE AND INSTALL	1 D/F	3/4"=1'-0"



4496 Bents Dr., Unit A
Windsor, CO 80550
www.davincisign.com
Ft. Collins (970) 203-9292
Cheyenne (307) 220-4316
Denver (303) 573-7446
Greeley (970) 353-8446

SALESPERSON: RODNEY EATON

DESIGN: J. VALASEK PROD. DESIGN:

Job Name
CITY OF ARVADA PARKS
Address

Approvals

Paint & Finish Colors	Film & Print Colors
P1 POWDER-COAT 'RUST 23-9192' MORTON	F1 7725-10 WHITE
P2 POWDER-COAT TO MATCH PMS 540C	F2
P3 PTM PMS 404C GREY	F3
P4 BLACK	F4
P5 ANODIZED SILVER	F5

Revisions
R1
R2
R3
R4
R5

DESIGN #	REV.#	DATE
1116		3.8
PAGE	OF:	
1	2	

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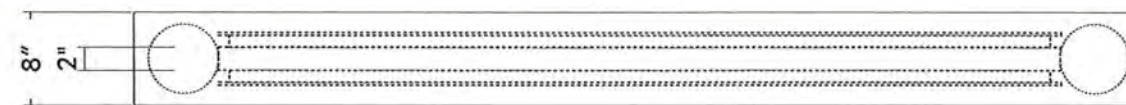
THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRIC SIGN CODE. THE LOCATION OF THE DISCONNECT SWITCH AFTER INSTALLATION SHALL COMPLY WITH ARTICLE 600.6(A) (1) OF THE NATIONAL ELECTRIC SIGN CODE.



ALL SIGNAGE WILL REQUIRE 120V ELECTRICAL SERVICE OR AS INDICATED ON DRAWING.

FABRICATION DETAILS

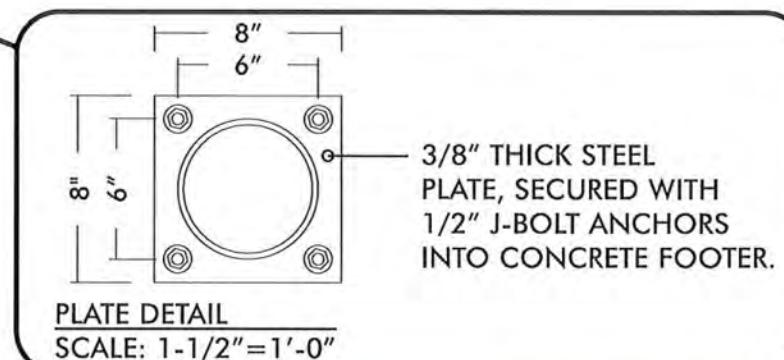
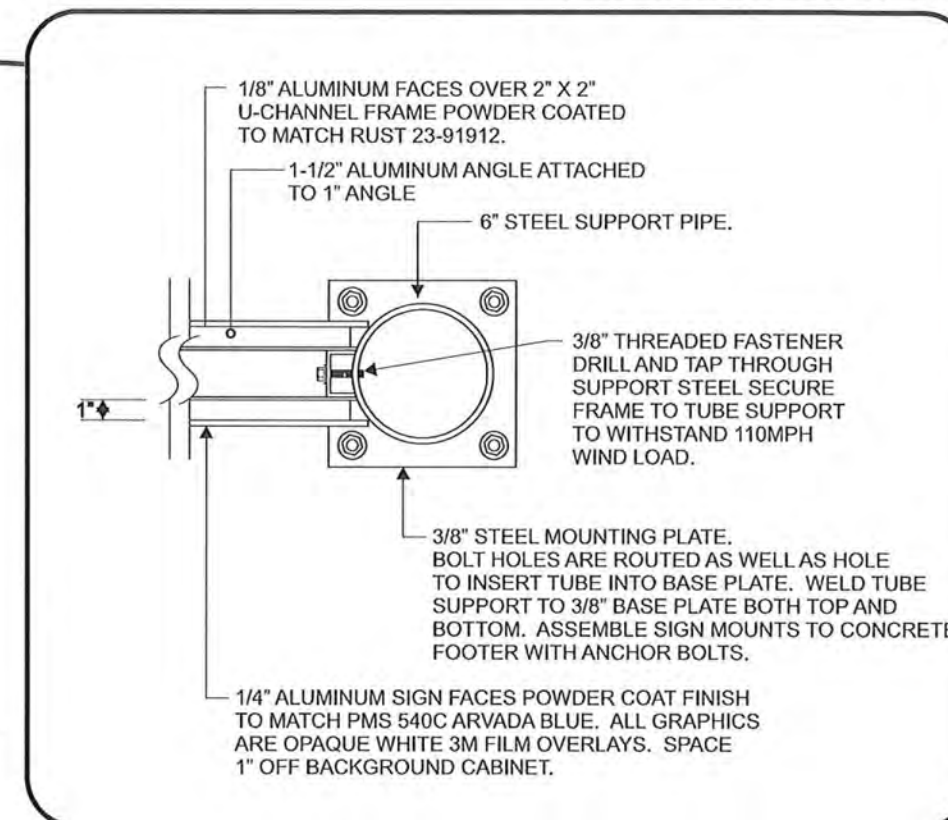
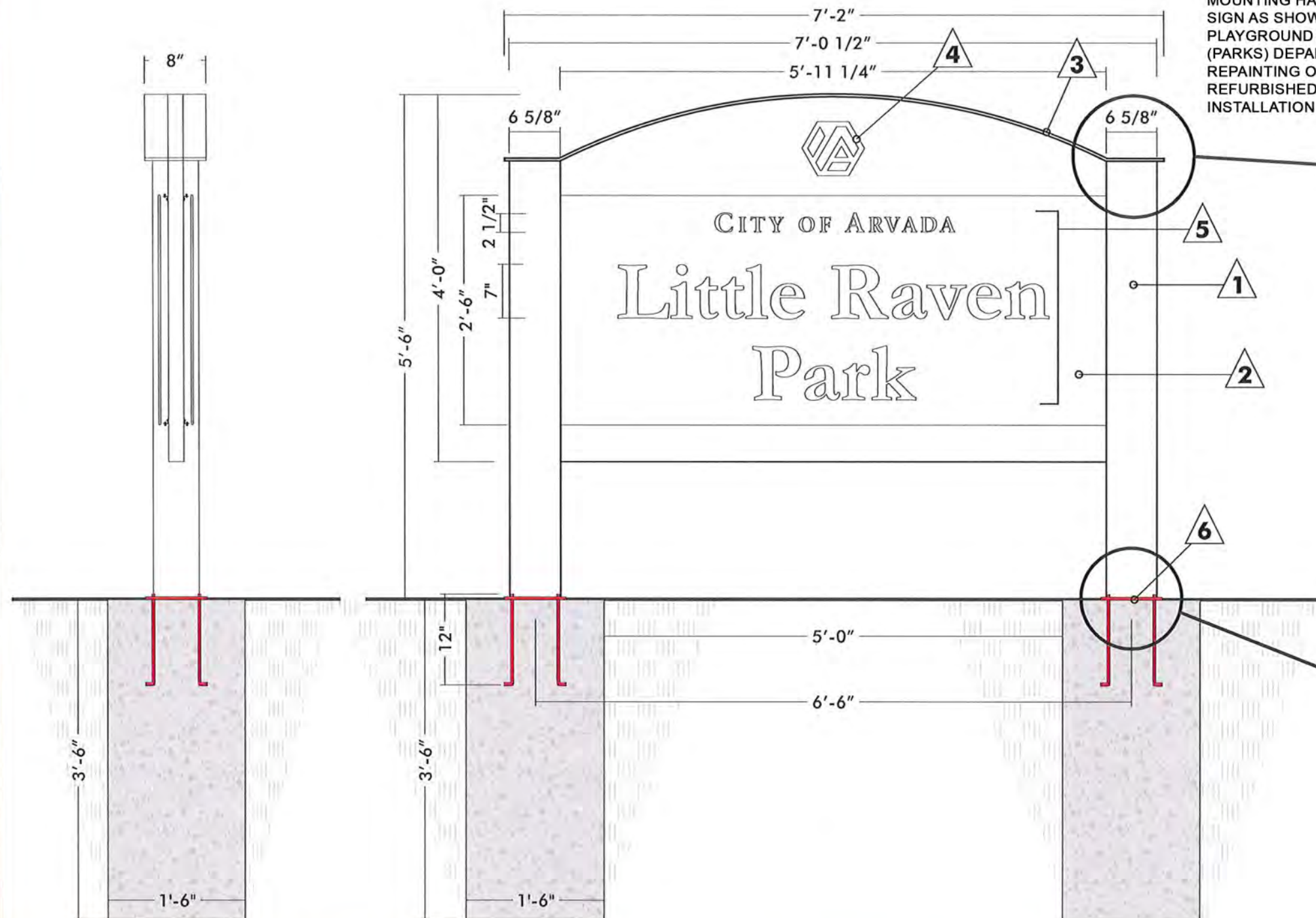
SCALE: 3/4"=1'-0"



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MATERIALS

- 1 6" STEEL PIPE.
- 2 1/4" ALUMINUM PANEL CONSTRUCTION ON ALUMINUM ANGLE FRAME.
- 3 3/8" STEEL CAP.
- 4 1/4" ALUMINUM LOGO, ANODIZED FINISH.
- 5 FILM GRAPHICS.
- 6 3/8" STEEL MOUNTING PLATE, AND 1/2" J-BOLTS SET INTO CONCRETE FOUNDATION.



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Cheyenne (307) 220-4316
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Greeley (970) 353-8446

SALESPERSON: RODNEY EATON

DESIGN: J. VALASEK PROD. DESIGN:

Job Name
CITY OF ARVADA PARKS

Address

Approvals

Paint & Finish Colors

P1	POWDER-COAT 'RUST 23-9192' MORTON	F1	7725-10 WHITE
P2	POWDER-COAT TO MATCH PMS 540C	F2	
P3	PTM PMS 404C GREY	F3	
P4	BLACK	F4	
P5	ANODIZED SILVER	F5	

Film & Print Colors

F1	7725-10 WHITE
F2	
F3	
F4	
F5	

Revisions

R1	
R2	
R3	
R4	
R5	

DESIGN # REV.# DATE

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OF:

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THIS SIGN IS INTENDED TO BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 600 OF THE NATIONAL ELECTRIC SIGN CODE. THE LOCATION OF THE DISCONNECT SWITCH AFTER INSTALLATION SHALL COMPLY WITH ARTICLE 600.6(A) (1) OF THE NATIONAL ELECTRIC SIGN CODE.



ALL SIGNAGE WILL REQUIRE 120V ELECTRICAL SERVICE OR AS INDICATED ON DRAWING.

CITY OF ARVADA RESPONSIBILITY STATEMENT

The City of Arvada is not responsible for the accuracy and adequacy of the design or dimensions and elevations on the plan. The City of Arvada's review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements." The City of Arvada, through acceptance of the accuracy of the construction plan or drainage report, assumes no responsibility for the completeness and/or accuracy of the construction plan or drainage report. The city does not accept liability for facilities designed by others.

STATEMENT OF COMPLIANCE

Plans comply with 2023 Engineering Code of Standards and Specifications.

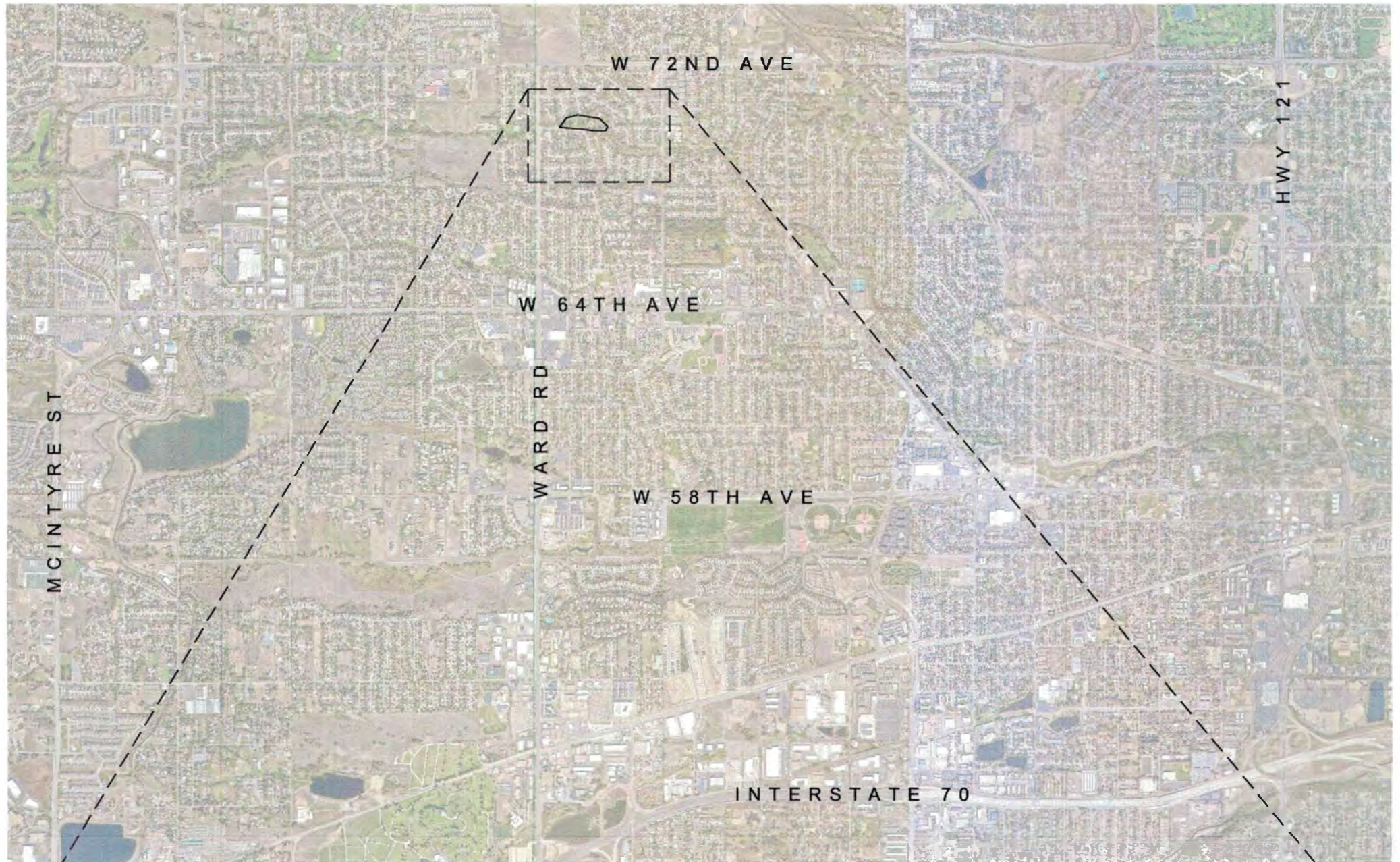
SHEET LIST TABLE			
#	SHEET NO.	SHEET TITLE	DEPT.
01	C-01	COVER SHEET	PW
02	C-02	GENERAL NOTES	PW
03	C-03	GENERAL NOTES	VCN
04	SU-01	SITE SURVEY	PW
05	EX-01	EXISTING SITE CONDITIONS	VCN
06	EC-01	EROSION CONTROL PLAN - INITIAL	PW
07	EC-02	EROSION CONTROL PLAN - INTERIM	PW
08	EC-03	EROSION CONTROL PLAN - FINAL	PW
09	EC-04	EROSION CONTROL DETAILS	PW
10	EC-05	EROSION CONTROL DETAILS	PW
11	EC-06	EROSION CONTROL DETAILS	PW
12	DE-01	DEMOLITION PLAN	PW
13	DE-02	TREE PROTECTION DETAILS	VCN
14	GR-01	OVERALL GRADING PLAN	PW
15	GR-02	ENLARGED GRADING PLAN	PW
16	GR-03	SUBDRAIN PLAN	PW
17	MA-01	OVERALL MATERIALS PLAN	PW
18	MA-02	ENLARGED MATERIALS PLAN	PW
19	LA-01	OVERALL LAYOUT PLAN	VCN
20	LA-02	ENLARGED LAYOUT PLAN	VCN
21	LA-03	PLAYGROUND EQUIPMENT LAYOUT PLAN	VCN
22	LD-01	LANDSCAPE DETAILS	PW
23	LD-02	LANDSCAPE DETAILS	PW
24	LD-03	LANDSCAPE DETAILS	PW
25	LD-04	PLAYGROUND ELEMENTS	VCN
26	LD-05	PLAYGROUND ELEMENTS	VCN
27	LD-06	SITE SECTIONS	VCN
28	PL-01	PLANTING PLAN	VCN
29	IR-01	IRRIGATION NOTES AND SCHEDULE	VCN
30	IR-02	IRRIGATION PLAN, PHASE 1, FOR REF.	VCN
31	IR-02	IRRIGATION PLAN, PHASE 2	VCN
32	IR-03	IRRIGATION DETAILS	VCN
33	IR-04	IRRIGATION DETAILS	VCN

MATERIALS TABLE			
#	MATERIAL	QUANT.	UNIT
01	RIGHT-OF-WAY: CONCRETE SIDEWALK, CURB, & GUTTER	280	SF
02	CONCRETE PAVING (6" DEPTH) SIDEWALKS	1,700	SF
03	CONCRETE PAVING, WALLS	202	LF
04	CONCRETE PAVING, SEATING	28	CY
05	PLAY EQUIPMENT	22	EA
06	POURED-IN-PLACE SURFACING, PLAYPITS	3,450	SF
07	POURED-IN-PLACE SURFACING, EMBANKMENT	220	SF
08	AGGREGATE BASE COURSE, CLASS 6	64	CY
09	SOIL PREP	12,900	SF
10	TOPSOIL	47	CY
11	SODDING	12,750	SF
12	DECIDUOUS TREE, 2" CAL.	4	EA
13	DECIDUOUS SHRUB, 5 GAL.	33	EA

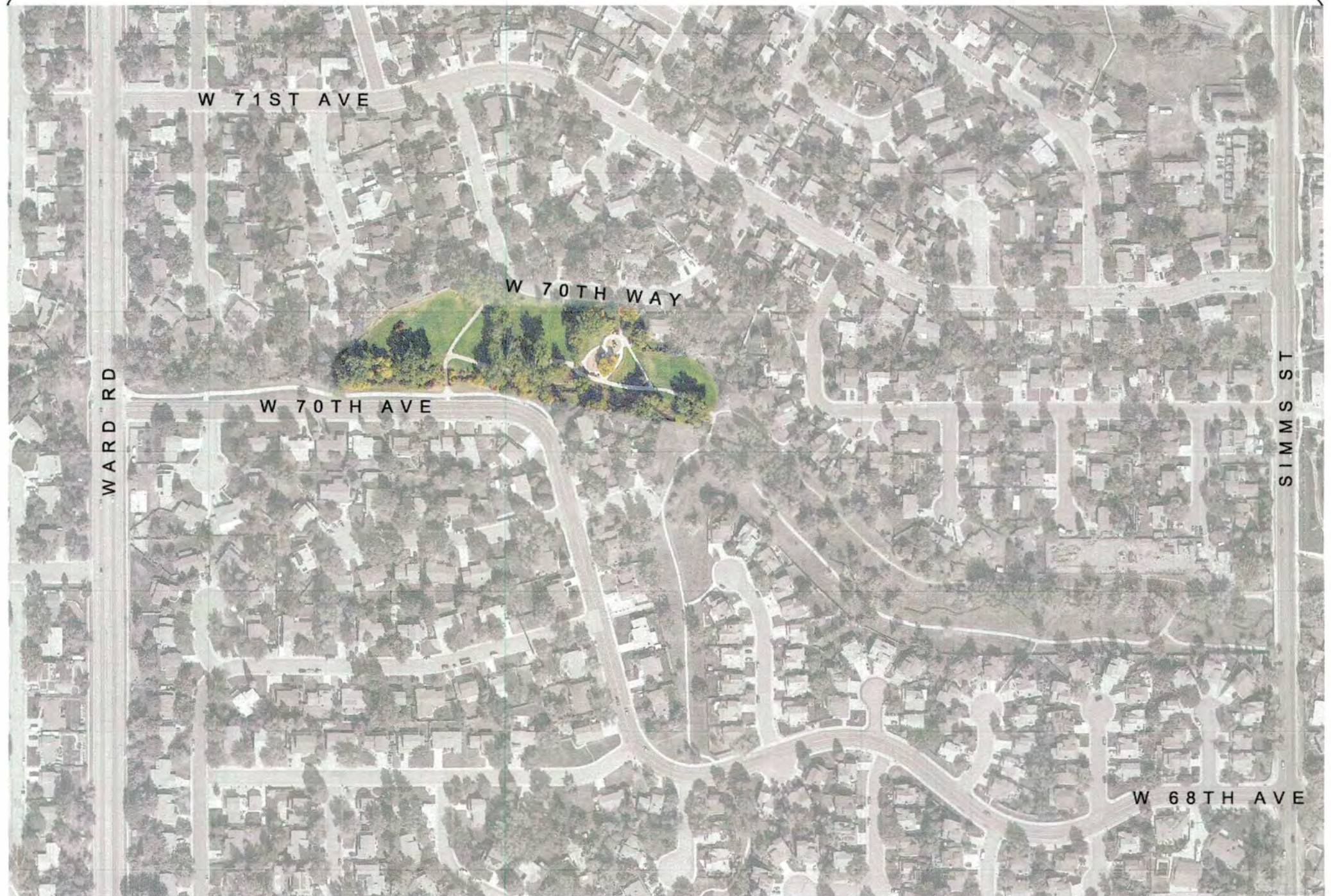
DANNY KENDRICK PARK EAST PLAYGROUND REPLACEMENT

100% CONSTRUCTION DOCUMENTS
NOVEMBER 2024
PROJECT: CIP PARKS 94965

VICINITY MAP



LOCATION MAP



PROJECT DESCRIPTION

THE FOLLOWING WORK ITEMS ARE INCLUDED IN THESE CONTRACT DOCUMENTS: SITE PREPARATION AND EROSION CONTROL; INSTALLATION OF NEW PLAYGROUND INCLUDING ALL EQUIPMENT, ANCHORING, SUBDRAINAGE SYSTEM, AND PLAY SURFACES; CONCRETE FLATWORK, WALLS, AND CURBS; IRRIGATION MODIFICATIONS, SODDING, AND PLANTING.

Control Point List

Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
Arvada BM67	1725689.14	3102532.05	5442.81'	Chiseled Mark in Top Back of Curb (Site Benchmark)
KR7	1725250.22	3102730.40	5440.10'	Nail and Tag in Asphalt
CP1	1725158.68	3102399.35	5440.86'	2" Aluminum Cap
CP2	1725070.01	3102988.77	5437.76'	2" Aluminum Cap

Survey Notes:

- Site Benchmark is Arvada Benchmark 67, chiseled mark on the top back of curb on the southeast side of the intersection of Urban Way and W 71st Ave, with an assumed NAVD88 elevation of 5442.81'. All directions, distances and dimensions are based on grid coordinates from the Colorado coordinate system of 1983 central zone (C.R.S. 38-52-102).
- This survey is located in an area determined to be in floodplain Zone AE Regulatory Floodway, Zone AE and Zone X, as shown hereon, according to the National Flood Insurance Rate map number 08059C0184G dated December 20, 2019. The National Flood Hazard Layer (NFHL) FIRM and associated GIS data were obtained from the FEMA NFHL on October 12, 2023.
- This plan was prepared for the purpose of a topographic survey and is not a boundary survey. This survey does not constitute a title search by this surveyor of the property shown and described hereon to determine:
 - ownership of the tract of land.
 - compatibility of this description with those of adjacent tracts of land.
 - rights of way, easements and encumbrances of record affecting this tract of land.
- Property lines shown hereon are provided by Jefferson County Parcel GIS (Accessed March 2024).
- All easements and encumbrances shown hereon were placed utilizing Jefferson County Parcel GIS in reference to Woodland Valley Filing No.1, Rec. No. 68277499 and Woodland Valley Filing No. 2, Rec. No. 69322203, as recorded in the Jefferson County Records office. No record information or boundary evidence was researched, recovered, nor reviewed by a Colorado licensed professional surveyor as part of this deliverable. All property lines, easements and encumbrances shown are for reference only and should not be relied upon for the establishment of fence, building, or other future improvements.
- Underground utilities as shown hereon are based on located utilities by Diversified Underground, Inc. Div. Job #23L-82989ZA in September 2023, as well as best physical evidence as found in the field and may not be accurate or complete. All utilities are to be field located and verified by the proper entity.
- This survey was conducted during the month of September 2023.
- According to Colorado Law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.
- Any person who knowingly removes, alters or defaces any public land survey monument or land boundary monument or accessory commits a Class Two (2) Misdemeanor pursuant to State Statute 18-4-508, C.R.S.

CONTACT INFORMATION

OWNER	LANDSCAPE ARCHITECT	SURVEY
City of Arvada 11960 W 70th Way Arvada, CO 80004 Contact: Chad Hollingsworth chollingsworth@arvada.org	StudioCPG 303.455.3779 Contact: Brian Pille, PLA brian@studiocpg.com	Topographic, Inc. 303.349.3081 Contact: Eric Purcell, PLS eric.purcell@topographic.com
CIVIL ENGINEER	IRRIGATION CONSULTANT	
Topographic, Inc. 303.666.0379 Contact: Joe Prinster joseph.prinster@topographic.com	HydroSystems-KDI, Inc. 303.980.5327 Contact: Ken DiPaolo kend@hydrosystemskdi.com	

CERTIFICATION STATEMENTS

These landscape architecture plans for the Danny Kendrick Park East Project were prepared by me (or under my direct supervision) in accordance with the requirements of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

Name: Brian A. Pille
Firm: StudioCPG

These irrigation design plans for the Danny Kendrick Park East Project were prepared by me (or under my direct supervision) in accordance with the requirements of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

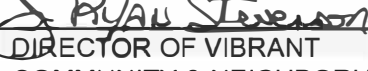
Name: Amber Clark
Firm: HydroSystems-KDI, Inc.

These survey plans for the Danny Kendrick Park East Project were prepared by me (or under my direct supervision) in accordance with the requirements of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

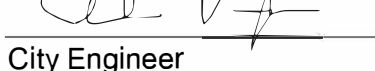
Name: Eric Purcell, PLS 38850
Firm: Topographic, Inc.

These civil engineering plans for the Danny Kendrick Park East Project were prepared by me (or under my direct supervision) in accordance with the requirements of the City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements.

Name: Joseph C. Prinster, PE, CFM
PE #: 19292 (1982)
Firm: Topographic, Inc.

APPROVED:  1-13-2025 DA2024-0034
DIRECTOR OF VIBRANT COMMUNITY & NEIGHBORHOODS DATE JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

APPROVED:  12/27/2024 DA2024-0034
City Engineer Date Job Number

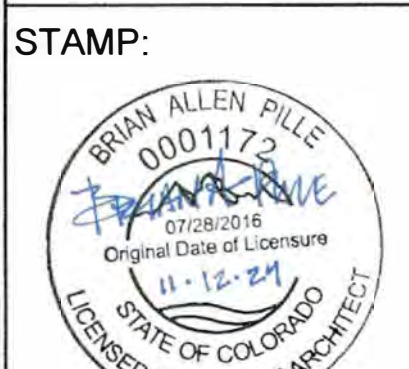
Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.



Landscape Architecture & Planning

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SHEET TITLE:

COVER

CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST

11960 W 70TH WAY
ARVADA, CO 80004

SCALE:

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
C-01



Know what's below.
Call before you dig.



UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

CITY OF ARVADA, GENERAL NOTES

- A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ARVADA ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION, UNLESS OTHERWISE SPECIFIED HEREIN.
- B. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE LICENSED WITH THE CITY OF ARVADA ENGINEERING DIVISION.
- C. ALL WORK WILL REQUIRE A CITY OF ARVADA ENGINEERING DIVISION PUBLIC IMPROVEMENT PERMIT PRIOR TO THE START OF CONSTRUCTION. ALL CONTRACTORS AND SUBCONTRACTORS MUST OBTAIN A SEPARATE PERMIT FOR THE WORK BEING COMPLETED BY THE PARTICULAR CONTRACTOR OR SUBCONTRACTOR. ANY CONSTRUCTION WITHIN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) RIGHT-OF-WAY WILL REQUIRE A CDOT CONSTRUCTION PERMIT PRIOR TO ANY WORK IN THEIR RIGHT-OF-WAY.
- D. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED DRAWINGS SIGNED BY THE CITY ENGINEER OR DESIGNEE AND A PRINTED COPY OF THE CURRENT CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS" ON SITE AT ALL TIMES.
- E. THE CITY OF ARVADA ENGINEERING DIVISION SHALL BE NOTIFIED (PHONE # 720-898-7640) A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- F. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION.
- G. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY INCLUDING, BUT NOT LIMITED TO, TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL AND SECURITY.
- H. BENCHMARK LOCATION, ELEVATION AND DATUM ARE AS NOTED.
- I. AS-BUILT DRAWINGS SHOWING ALL CHANGES FROM THE APPROVED CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE CITY ENGINEER OR DESIGNEE PRIOR TO INITIATION OF THE REQUIRED TWO YEAR WARRANTY PERIOD. UTILITY AS-BUILTS SHALL INCLUDE STATIONING OF ALL FITTINGS, SERVICES AND PERTINENT ELEVATIONS. CERTIFICATES OF OCCUPANCY FOR ANY BUILDINGS OR STRUCTURES WITHIN THE DEVELOPMENT WILL NOT BE ISSUED UNTIL THE AS-BUILTS HAVE BEEN RECEIVED, REVIEWED AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION.
- J. A CITY OF ARVADA TAX CERTIFICATION FORM MUST BE COMPLETED BY ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT. THIS FORM DETAILS ALL MATERIALS WHICH HAVE BEEN INCLUDED IN THE WORK BY CONTRACTORS AND SUBCONTRACTORS. COPIES OF ALL PAID INVOICES FOR MATERIALS SHALL BE ATTACHED TO THE FORM. CERTIFICATES OF OCCUPANCY FOR ANY BUILDINGS OR STRUCTURES WITHIN THE DEVELOPMENT WILL NOT BE ISSUED UNTIL THIS FORM HAS BEEN RECEIVED, REVIEWED AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION.
- K. OWNER/DEVELOPER SHALL OBTAIN A STORMWATER CONSTRUCTION PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PRIOR TO CLEARING, GRADING, OR EXCAVATING A SITE OF ONE (1) ACRE OR MORE OR LESS THAN ONE ACRE AND PART OF A LARGER DEVELOPMENT. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO THE START OF CLEARING, GRADING OR EXCAVATING OF THE SITE. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- L. CONTRACTOR SHALL OBTAIN A COLORADO STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT FOR ALL AREAS WHERE DEWATERING IS REQUIRED FROM AN EXCAVATION AND WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO THE START OF ANY DEWATERING. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- M. ALL CURB RAMPS SHALL COMPLY WITH THE LATEST ADA STANDARD. CONTRACTOR TO CHECK WITH THE CITY OF ARVADA ENGINEERING DIVISION TO VERIFY THE LATEST CURB RAMP STANDARD PRIOR TO CONSTRUCTION OF ANY RAMP.
- N. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF ARVADA ENGINEERING DIVISION. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS".
- O. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE CITY OF ARVADA ENGINEERING DIVISION FOR ACCEPTANCE WITH THE PUBLIC IMPROVEMENTS PERMIT APPLICATION. A PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL ON EXISTING ROADS DURING CONSTRUCTION.

CITY OF ARVADA, UTILITIES NOTES

- A. CONTRACTOR SHALL NOTIFY ALL AFFECTED PARTIES, CITY OF ARVADA UTILITY AND ENGINEERING DIVISIONS, A MINIMUM OF 24 HOURS PRIOR TO ANY WATER OR SEWER SERVICE INTERRUPTION.
- B. CONTRACTOR IS TO COORDINATE THE OPERATION OF ALL WATER VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES WITH THE CITY'S WATER OPERATIONS DIVISION THROUGH THE CITY'S ENGINEERING INSPECTOR.
- C. ALL FIRE HYDRANT BRANCH PIPE SHALL BE CLASS 200 DR-14 PVC OR CLASS 150 DR-18 PVC. ALL FIRE LINES TO BUILDINGS WITH INTERIOR SPRINKLER SYSTEMS SHALL BE CLASS 200 DR-14 PVC PIPE OR CLASS 200 DR-18 PVC PIPE ONLY.
- D. ALL METALLIC FITTINGS SHALL BE WRAPPED WITH MINIMUM 8 MIL THICKNESS POLYETHYLENE ENCASEMENT.
- E. ALL PVC WATER MAINS SHALL BE INSTALLED WITH WHITE #12 TYPE UF OR USE CABLE SINGLE COPPER CONDUCTOR AS A TRACER WIRE SPIRALLY WRAPPED AROUND THE PIPE. TRACER WIRE TO EXTEND FROM MAIN TO A CATHODIC PROTECTION BOX LOCATED ON THE RIGHT SIDE OF ALL FIRE HYDRANTS. TRACER WIRE SHALL BE CONNECTED TO EXISTING TRACER WIRE WHERE POSSIBLE. WHERE NO TRACER WIRE EXISTS, ENDS OF TRACER WIRE SHALL BE STRIPPED AND GROUNDED INTO NATIVE SOIL A MINIMUM OF 12" DEEP.
- F. ALL METER PITS SHALL BE 24 INCH DIAMETER CONCRETE OR PLASTIC IN ACCORDANCE WITH SECTION 30 OF THE CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS".
- G. STORM, SANITARY AND WATER MANHOLE COVERS SHALL SAY "CITY OF ARVADA STORM, WATER OR SANITARY" WHERE APPLICABLE IN ACCORDANCE WITH THE CITY'S STANDARD LID DETAIL.
- H. BLOW-OFFS, BOTH PERMANENT AND TEMPORARY, SHALL BE IN ACCORDANCE WITH CITY OF ARVADA STANDARD DETAIL DRAWINGS.
- I. I. ALL SANITARY SEWER MAINS INSTALLED SHALL BE HIGH PRESSURE JET CLEANED AFTER COMPLETION OF THE FINAL LIFT OF ASPHALT PLACEMENT AND PRIOR TO REQUIRED TELEVISION INSPECTION BY THE CITY'S WASTEWATER DIVISION.

CITY OF ARVADA, EROSION CONTROL NOTES

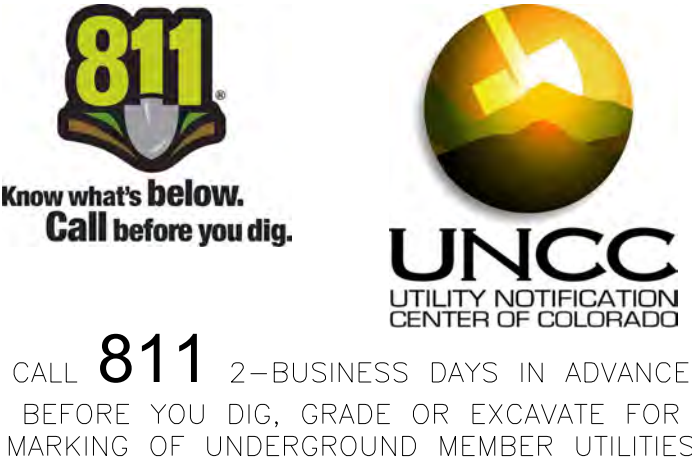
- A. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE MET ON SITE AND PROVIDED WITH A STORMWATER MANAGEMENT PLAN AFTER INSTALLATION OF TEMPORARY BEST MANAGEMENT PRACTICES (BMPS), BUT BEFORE CONSTRUCTION OR GRADING BEGINS.
- B. THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED IN THE ACCEPTED PLANS.
- C. ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
- D. AT ALL TIMES DURING CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WINDBLOWN SEDIMENT. THE DEVELOPER SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
- E. PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
- F. ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT EROSION CONTROL BMPS ARE INSTALLED. NO DISTURBED AREAS, EXCEPT THOSE WITHIN THE PROJECT STREET RIGHTS-OF-WAY, SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS BEFORE TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF ARVADA STORMWATER INSPECTOR.
- G. IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:
1. BE INSPECTED AT A MINIMUM OF ONCE EVERY FOURTEEN (14) DAYS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED AS NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
2. REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
3. BE REMOVED WHEN THEY ARE NO LONGER FUNCTIONAL OR AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE STORMWATER INSPECTOR. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
- H. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
- I. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
- J. ALL SOIL STOCKPILES SHALL NOT BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGEWAY, WHERE POSSIBLE, AND SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY APPROPRIATE EROSION CONTROL METHODS. ANY SOIL STOCKPILE THAT WILL BE DORMANT FOR OVER THIRTY (30) DAYS SHALL BE SEEDED.

CITY OF ARVADA, EROSION CONTROL NOTES, CONT'D.

- K. THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE PROPERTY OWNER OR HOMEOWNERS ASSOCIATION (HOA).
- L. CITY ORDINANCE REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. THE DEVELOPER SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- M. A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.
- N. MASONRY ACTIVITIES WILL BE CONTAINED WITH APPROPRIATE LOT-SPECIFIC BMPS, SUCH AS STOCKPILE PERIMETER CONTROL AND BERMED WASHOUT PITS. ALL WASTE PRODUCTS FROM MASONRY ACTIVITIES WILL BE REMOVED AND DISPOSED OF PROPERLY.
- O. TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS SEDIMENT/EROSION CONTROL BMPS SHALL BE INSTALLED AND MAINTAINED AT ONE OR MORE OF THE FOLLOWING LOCATIONS UNTIL THE LOTS ARE LANDSCAPED.
1. BELOW ALL GUTTER DOWNSPOUTS.
2. OUT TO DRAINAGE SWALES.
3. ALONG LOT PERIMETER.
4. OTHER LOCATIONS, IF NEEDED.
- P. A VEHICLE TRACKING PAD SHALL BE INSTALLED WHEREVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING UNPAVED AREAS ONTO ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILES, CONSTRUCTION MATERIALS AND/OR BUILDING SITES.
- Q. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE DEVELOPER SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF ARVADA.

CITY OF ARVADA, IRRIGATION NOTES

- A. CONTRACTOR IS TO NOTIFY AFFECTED IRRIGATION COMPANY A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN IRRIGATION EASEMENTS OR ON IRRIGATION DITCHES.
- B. ALL IRRIGATION PIPE JOINTS SHALL BE WATERTIGHT AND PASS A LOW AIR PRESSURE TEST.



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GENERAL NOTES

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST

11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
C-02

APPROVED:

12/27/2024 DA2024-0034

City Engineer Date Job Number

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DEMOLITION

1. CONTRACTOR SHALL FOLLOW ALL ABATEMENT REQUIREMENTS PER SPECIFICATION PRIOR TO COMMENCING DEMOLITION WORK.
2. CONTACT 811 FOR UTILITY LOCATION AND IDENTIFICATION PRIOR TO DEMOLITION
3. REMOVE ITEMS SHOWN ON THE PLAN TO THE FULL DEPTH OF THEIR CONSTRUCTION UNLESS DESIGNATED TO REMAIN.
4. DEBRIS CREATED BY REMOVAL OPERATIONS BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE LEGALLY DISPOSED OF AWAY FROM THE JOB SITE.
5. THE EXISTING CONDITIONS PLAN INDICATES THE APPROXIMATE LOCATION OF WORK ITEMS WHICH WILL BE REQUIRED AS PART OF THIS CONTRACT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS, AND DISCREPANCIES WITH THIS PLAN MUST BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PRIOR TO BIDDING FOR CONSIDERATION OF SCOPE MODIFICATION.
6. ITEMS ENCOUNTERED BELOW GRADE AND NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
7. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS MAY VARY IN RELATION TO ACTUAL EXISTING CONDITIONS; ADDITIONAL UTILITIES NOT SHOWN ON THE DRAWINGS MAY EXIST. VERIFY IN THE FIELD THE DATA SHOWN, AND CALL ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT MANAGER BEFORE STARTING WORK.
8. PERFORM EXCAVATION IN THE VICINITY OF EXISTING UTILITIES BY HAND WHERE APPLICABLE. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT.
9. AT THE NEAREST JOINT, SAWCUT EXISTING PAVEMENT WHERE PROPOSED WORK MEETS EXISTING TO ALLOW A CLEAN TRANSITION. CUTTING SHALL BE DONE TO A NEAT WORK LINE.
10. CONTRACTOR SHALL REMOVE, SALVAGE, STOCKPILE, REUSE, AND RESET EXISTING SIGNS, MONUMENTS, MANHOLE COVERS, VALVE COVERS AND BOXES, TELEPHONE, ELECTRICAL, CABLE PEDESTALS, AND OTHER MISCELLANEOUS ITEMS AS DIRECTED BY THE PROJECT MANAGER, UNLESS OTHERWISE NOTED. STOCKPILE MATERIALS AT APPROVED LOCATION. CONTRACTOR SHALL RESET AND INSTALL THESE ITEMS AT NO ADDITIONAL COST TO OWNER.
11. ANY MATERIAL DESIGNATED FOR SALVAGE THAT IS DAMAGED AFTER REMOVAL SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE PROJECT MANAGER. NO SEPARATE PAYMENT SHALL BE MADE FOR LOADING, HAULING, UNLOADING, OR PLACING SALVAGED MATERIALS IN A CITY YARD.
12. THE CONTRACTOR IS REQUIRED TO RESET, ADJUST, OR REPLACE ANY UTILITIES, LANDSCAPING, IRRIGATION, SIGNS, SIDEWALKS, ETC. THAT ARE IMPACTED BY CONSTRUCTION AND ARE NOT DESIGNATED TO BE REMOVED.

TREE PROTECTION

1. CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING PRIOR TO CONSTRUCTION ACTIVITIES FOR APPROVAL BY PROJECT MANAGER.
2. SHOULD THE TREE PROTECTION FENCING NEED TO BE ADJUSTED FOR ANY REASON, THE CONTRACTOR SHALL GET WRITTEN APPROVAL BY THE PROJECT MANAGER TO MOVE THE FENCING ONCE THE LOCATION IS APPROVED.
3. TREE PROTECTION SHALL BE REALIGNED TO NEW WALK ALIGNMENT FOLLOWING COMPLETION OF DEMOLITION AND COMPLETION OF GRADING, WHERE APPLICABLE.
4. TREES AT SITE ACCESS ROUTES TO BE PRUNED TO 8' CLEARING. COORDINATE WITH THE PROJECT MANAGER.
5. FOR TREES IDENTIFIED TO BE PRUNED, CONTRACTOR SHALL HAVE CERTIFIED ARBORIST PRUNE 1 TO 3 LIMBS TO PROVIDE 8' OF CLEARANCE WITHIN THE FOOTPRINT OF THE WORK.
6. THE CONTRACTOR CAN INVESTIGATE FOR ROOTS ON BOTH SIDES OF PROPOSED PAVEMENT WITHIN THE TREE PROTECTION ZONE FOR THE POTENTIAL TO WORK WITH MACHINERY. APPROVAL BY PROJECT MANAGER IS REQUIRED FOR ANY USE OF MACHINERY IN TREE PROTECTION ZONE.
7. AIR SPADING SHALL BE DONE AT THE EDGE OF THE PROPOSED WALK AS THIS IS THE CRUCIAL EDGE TO DETERMINE ANY CONFLICTS.

GRADING AND DRAINAGE

1. EXISTING UNDERGROUND UTILITIES ARE SHOWN PER AVAILABLE RECORDS. VERIFY THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION OF THE NEW FACILITIES. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES ENCOUNTERED DURING CONSTRUCTION.
2. NOTIFY 811 FOR UTILITY LOCATES 48 HOURS PRIOR TO ANY EXCAVATION.
3. MATCH GRADE OF EXISTING PAVEMENT OR EARTHWORK WHERE NEW CONSTRUCTION MEETS EXISTING.
4. EXISTING CONTOUR INTERVAL IS 1 FOOT/FEET. PROPOSED CONTOUR INTERVAL IS 1 FOOT/FEET.
5. PROPOSED CONTOURS AND SPOT ELEVATIONS AS SHOWN ON THE PLANS ARE DEFINED AS FINISHED ELEVATION AFTER PAVING, LANDSCAPING, ETC. CONTRACTOR SHALL COORDINATE SUBGRADE ELEVATIONS TO PROPERLY ACCOMMODATE PAVEMENT THICKNESS AND THICKNESS OF TOPSOIL, SOIL PREPARATION, AND MULCHING.
6. SPOT ELEVATIONS TAKE PRECEDENT OVER CONTOURS.
7. ALL UTILITY GRATES AND COVERS SHALL BE ADJUSTED TO BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.
8. PITCH PROPOSED PAVING EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF 1% UNLESS OTHERWISE SHOWN ON THE PLANS OR DETAILS.
9. TRAILS AND WALKWAYS SHALL FOLLOW EXISTING GRADES UNLESS OTHERWISE NOTED. LONGITUDINAL GRADES OF ALL TRAILS SHALL NOT EXCEED 4.8%, AND CROSS-SLOPES SHALL NOT EXCEED 1.8%.
10. MAINTAIN A 1% MINIMUM TO 1.8% MAXIMUM CROSS-SLOPE FOR THE SIDEWALK TO ALLOW FOR PROPER DRAINAGE.
11. CONTRACTOR SHALL PROVIDE A SMOOTH FINISHED GRADE FREE OF RUTS, DEPRESSIONS, AND IRREGULARITIES. LANDSCAPE AREAS SHALL HAVE A MINIMUM SLOPE OF 2% AND PITCH TO DRAIN UNLESS OTHERWISE SHOWN ON THE PLANS. MAXIMUM SLOPES IN LANDSCAPE AREAS SHALL NOT EXCEED 4:1.
12. REFER TO SPECIFICATIONS FOR PAVEMENT AND OTHER TOLERANCES. FULL COMPLIANCE WITH THE LATEST EDITION OF THE ADA HANDBOOK IS REQUIRED. LISTED TOLERANCES DO NOT EXEMPT THE CONTRACTOR FROM MEETING THE SLOPE, JOINT, AND OTHER REQUIREMENTS OF THE ADA HANDBOOK.
13. DISCREPANCIES IN THE GRADING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
14. FINAL GRADING TO BE REVIEWED AND APPROVED BY THE PROJECT MANAGER PRIOR TO LANDSCAPING.
15. THE CONTRACTOR SHALL GRADE AND REPAIR ALL DISTURBED AREAS IN ORDER TO CREATE A SMOOTH TRANSITION FROM NEW GRADE TO EXISTING GRADE, INCLUDING HARDSCAPE AND SOFTSCAPE AREAS. NOTIFY THE PROJECT MANAGER OF ANY CONFLICTS.

LAYOUT

1. LAYOUT AND VERIFY EXISTING CONDITIONS AND PROPOSED DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION.
2. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. DO NOT SCALE DRAWINGS. CONTACT PROJECT MANAGER IF A DISCREPANCY IS FOUND.
3. LIMIT OF WORK SHOWN ON PLANS IS APPROXIMATE, AND TO COMMUNICATE INTENT. ACTUAL LIMIT OF WORK TO BE CONFIRMED IN THE FIELD WITH PROJECT MANAGER.
4. TAKE ALL DIMENSIONS FROM BACK OF CURB, FACE OF WALL OR BUILDING, AND CENTERLINE OF TREES, UNLESS OTHERWISE NOTED.
5. WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTERLINES.
6. ALL LINES OF PAVING TO BE PARALLEL, UNLESS OTHERWISE NOTED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS NOTED ON DRAWINGS.
7. INSTALL INTERSECTING ELEMENTS AT 90-DEGREE ANGLES TO EACH OTHER UNLESS OTHERWISE NOTED.
8. PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS, AND BUILDING ELEMENTS.
9. COORDINATE AND FIELD VERIFY ALL SLEEVEING LOCATIONS FOR ALL UTILITY, ELECTRICAL, AND IRRIGATION PRIOR TO CONSTRUCTION.
10. STAKE FENCES, BOULDERS, FURNISHINGS, AND OTHER IMPROVEMENTS FOR APPROVAL BY PROJECT MANAGER PRIOR TO INSTALLATION.
11. COORDINATE PROPOSED WALKS AND RAMPS WITH EXISTING CONDITIONS. LAYOUT OF ARCS TO BE SMOOTH AND CONTINUOUS. STAKE PROPOSED WALKS IN FIELD FOR REVIEW WITH THE PROJECT MANAGER PRIOR TO FORMING. FORMWORK MUST BE APPROVED BY THE PROJECT MANAGER PRIOR TO POURING. RAMPS AND WALKS ARE TO COMPLY WITH CURRENT ADA STANDARDS. ALL SITE IMPROVEMENTS SHALL BE FIELD SURVEYED AND STAKED BY THE CONTRACTOR AND APPROVED BY THE PROJECT MANAGER PRIOR TO CONSTRUCTION. FINAL STAKING OF ALL CONCRETE FLATWORK AND FORMWORK SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO POURING CONCRETE.
12. THE CONTRACTOR SHALL SUBMIT A JOINT PLAN FOR REVIEW AND APPROVAL BY THE PROJECT MANAGER PRIOR TO POURING CONCRETE. ALL CONTROL JOINTS SHALL BE SAWCUT AND SPACED AS INDICATED ON THE DRAWINGS AND DETAILS. EXPANSION JOINTS SHALL BE SPACED EVERY 200' UNLESS OTHERWISE SHOWN .
13. MATCH LINE OF EXISTING PAVEMENT OR EARTHWORK WHERE PROPOSED WORK MEETS EXISTING TO ALLOW CLEAN TRANSITION.
14. DO NOT DISTURB EXISTING TREES TO REMAIN. REFER TO TREE PROTECTION NOTES.

PLANTING

1. ALL PLANT MATERIALS SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK.
2. ANY PLANT SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO DELIVERY.
3. VERIFY PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES ARE PROVIDED AS OWNER INFORMATION ONLY. IF QUANTITIES ON PLANT LIST DIFFER FROM GRAPHIC REPRESENTATION, THE GRAPHICS SHALL PREVAIL.
4. REFER TO GRADING PLANS FOR UTILITY LOCATION AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE PLANS, CONTACT THE PROJECT MANAGER FOR DIRECTION.
5. VERIFY LOCATIONS OF PERTINENT SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT PROJECT MANAGER FOR DIRECTION PRIOR TO COMMENCING WORK.
6. ALL PLANT MATERIALS SHALL BE STAKED OR PLACED BY THE CONTRACTOR TO BE APPROVED BY PROJECT MANAGER PRIOR TO INSTALLATION. PROJECT MANAGER RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD.
7. PLANTS SHALL NOT BE INSTALLED PRIOR TO ACCEPTANCE OF ROUGH GRADING BY THE PROJECT MANAGER.
8. REMOVE ALL ROCKS, LUMPS, ROOTS, STICKS, AND OTHER FOREIGN MATERIAL FROM TOPSOIL AND GRADE TO AN EVEN SURFACE. RESTORE AND RE-ESTABLISH GRADES IN SETTLED, ERODED, AND RUTTED AREAS TO THE SPECIFIED GRADE AND TOLERANCES.
9. TREES TO BE PLANTED A MINIMUM OF 10' FROM PAVEMENT, EXCEPT AS APPROVED BY THE PROJECT MANAGER.
10. THE CONTRACTOR SHALL HAND-DIG ALL PLANTING PITS ADJACENT TO UTILITIES. IF UTILITIES ARE DAMAGED, REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
11. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
12. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY THE PROJECT MANAGER.
13. ALIGN AND EQUALLY SPACE IN ALL DIRECTIONS SHRUBS SO DESIGNATED PER THESE NOTES AND DRAWINGS.
14. FINISH GRADE OF SHRUB AREAS SHALL BE 1-1/2" BELOW ADJACENT PAVING OR HEADER. PLANTING AREAS SHOULD ALLOW FOR 4" OF MULCH. LAWN AREAS SHALL BE 1-1/2" BELOW ADJACENT PAVING OR HEADERS FOR SOD.
15. INSTALL SPECIFIED MULCH IN ALL PLANTING BEDS AND PLACE AROUND ALL NEW TREES AND SHRUBS. MULCH LAYER SHALL NOT BE PLACED AGAINST TRUNKS AND STEMS OF INSTALLED PLANT MATERIALS.
16. PROVIDE SPECIFIED CONCRETE EDGING AS DIVIDER BETWEEN PLANTING BEDS AND LAWN AREAS.
17. COMPLETELY REMOVE ALL TWINE AND WIRE BASKET. PULL BURLAP DOWN MINIMUM 2/3 OF BALL, CUT AND REMOVE FROM PIT.
18. PROJECT MANAGER TO REVIEW ALL TREES / PLANTS UPON DELIVERY TO THE SITE. PROJECT MANAGER RESERVES THE RIGHT TO REJECT ANY PLANT MATERIALS.
19. THE CONTRACTOR SHALL COORDINATE IRRIGATION AND PLANTING WORK SUCH THAT INSTALLED IRRIGATION EQUIPMENT SHALL NOT REQUIRE ADJUSTMENT OF PLANTING LOCATIONS. IF IRRIGATION EQUIPMENT IS INSTALLED IN LOCATIONS OBSTRUCTING THE LOCATIONS OF THE PROPOSED PLANTINGS, THE IRRIGATION EQUIPMENT SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
20. PRIOR TO SEEDING OR SODDING, PROVIDE PROJECT MANAGER WITH STATE OR FEDERAL SEED TAGS OR OTHER INSPECTION CERTIFICATES AND INVOICES SHOWING SOURCE OR ORIGIN AND COMPLIANCE WITH SPECIFIED SEED MIX.
21. PRIOR TO STRAW MULCHING, SUBMIT STATE CERTIFICATE OF WEED-FREE MULCH TO PROJECT MANAGER FOR APPROVAL.
22. REFER TO PLANTING SPECIFICATION FOR CONTRACTOR'S RESPONSIBILITIES REGARDING WEED CONTROL.
23. PLANT MATERIAL IS TO BE MAINTAINED BY THE LANDSCAPE CONTRACTOR WHILE THE PROJECT IS UNDER CONSTRUCTION. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING DATE OF FINAL ACCEPTANCE.
24. EXTENTS OF SOD SHOWN ON PLANS ARE APPROXIMATE. ALL AREAS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED AND RESODDED BY THE CONTRACTOR PER SPECIFICATIONS.

COORD WITH SANITARY SEWER PROJECT, no. 17-SR-07

1. THE SITE SURVEY PROVIDED FOR THE PLAYGROUND INSTALLATION PROJECT WAS CREATED PRIOR TO DEMOLITION FOR THE SANITARY SEWER PROJECT , NO. 17-SR-07.
2. UTILITIES AND PAVEMENTS CALLED OUT AS EXISTING IN THIS WORK, INCLUDE THE INSTALLED SANITARY SEWER FROM PROJECT NO. 17-SR-07 AND RALSTON CREEK PARKWAY.
3. CONTRACTOR FOR THE PLAYGROUND PROJECT SHALL REVIEW EXISTING CONDITIONS AND DOCUMENT DEVIATIONS FROM THESE PLANS WITH CITY OF ARVADA PROJECT MANAGER AND THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK.



Landscape Architecture & Planning

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DENVER, CO 80212
303.455.3779
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STAMP:



SHEET TITLE:

GENERAL NOTES



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

C-03

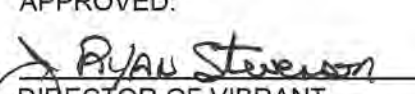


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BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

APPROVED:

DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

1-13-2025
DATE

DA2024-0034
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA
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Control Point List

Point No.	Northing(Y)	Easting(X)	Elev(Z)	Description
Arvada BM67	1725689.14	3102532.05	5442.81'	Chiseled Mark in Top Back of Curb (Site Benchmark)
KR7	1725250.22	3102730.40	5440.10'	Nail and Tag in Asphalt
CP1	1725158.68	3102399.35	5440.86'	2" Aluminum Cap
CP2	1725070.01	3102988.77	5437.76'	2" Aluminum Cap

Notes:

- Site Benchmark is Arvada Benchmark 67, chiseled mark on the top back of curb on the southeast side of the intersection of Urban Way and W 71st Ave, with an assumed NAVD88 elevation of 5442.81'. All directions, distances and dimensions are based on grid coordinates from the Colorado coordinate system of 1983 central zone (C.R.S. 38-52-102).
- This survey is located in an area determined to be in floodplain Zone AE Regulatory Floodway, Zone AE and Zone X, as shown hereon, according to the National Flood Insurance Rate map number 08059C0184G dated December 20, 2019. The National Flood Hazard Layer (NFHL) FIRM and associated GIS data were obtained from the FEMA NFHL on October 12, 2023.
- This plan was prepared for the purpose of a topographic survey and is not a boundary survey. This survey does not constitute a title search by this surveyor of the property shown and described hereon to determine:
 - ownership of the tract of land.
 - compatibility of this description with those of adjacent tracts of land.
 - rights of way, easements and encumbrances of record affecting this tract of land.
- Property lines shown hereon are provided by Jefferson County Parcel GIS (Accessed March 2024).
- All easements and encumbrances shown hereon were placed utilizing Jefferson County Parcel GIS in reference to Woodland Valley Filing No. 1, Rec. No. 68277499 and Woodland Valley Filing No. 2, Rec. No. 69322203, as recorded in the Jefferson County Records office. No record information or boundary evidence was researched, recovered, nor reviewed by a Colorado licensed professional surveyor as part of this deliverable. All property lines, easements and encumbrances shown are for reference only and should not relied upon for the establishment of fence, building, or other future improvements.
- Underground utilities as shown hereon are based on located utilities by Diversified Underground, Inc. Div. Job #231-829822 A in September 2023, as well as best physical evidence as found in the field and may not be accurate or complete. All utilities are to be field located and verified by the proper entity.
- This survey was conducted during the month of September 2023.
- According to Colorado Law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.
- Any person who knowingly removes, alters or defaces any public land survey monument or land boundary monument or accessory commits a Class Two (2) Misdemeanor pursuant to State Statute 18-4-508, C.R.S.

Quality Level Definitions:

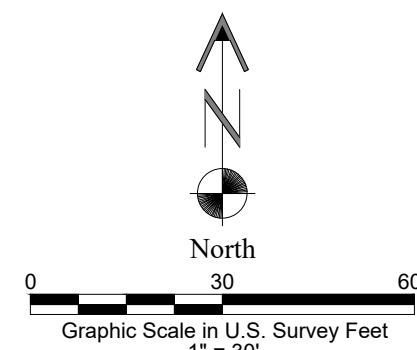
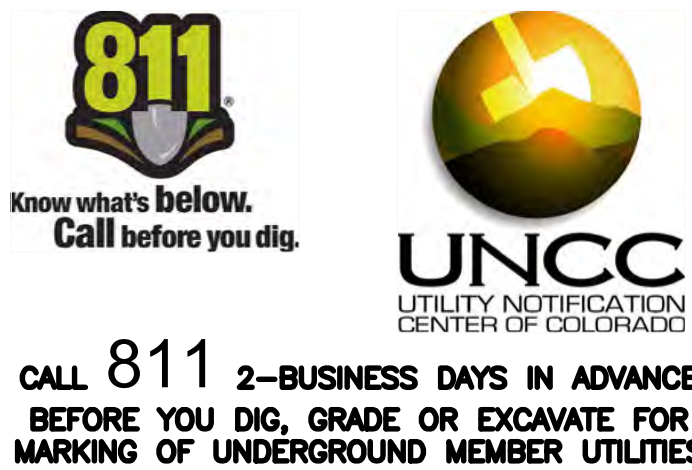
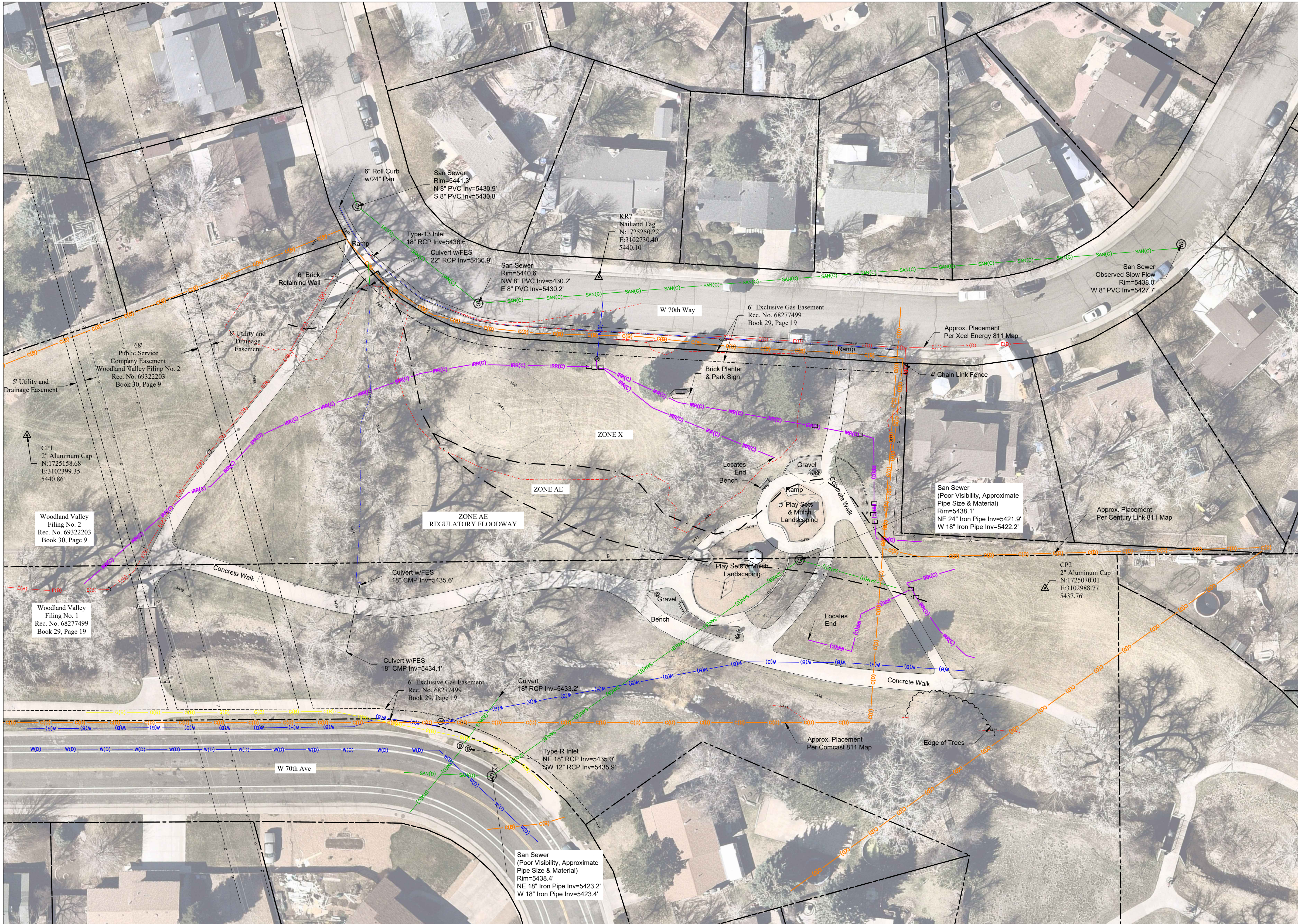
ASCE 38 provides a standard guideline for the collection and depiction of existing subsurface utility data. A professional opinion of the quality and reliability of utility information. Such reliability is determined by the means and methods of the professional. Each of the four existing utility data quality levels is established by different methods of data collection and interpretation.

- Utility quality level D Information derived from existing records or oral recollections.
- Utility quality level C Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to quality level D information.
- Utility quality level B Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities. Quality level B data should be reproducible by surface geophysics at any point of their depiction. This information is surveyed to applicable tolerances defined by the project and reduced to plan documents.
- Utility quality level A Precise horizontal and vertical location of utilities obtained by the actual exposure (or verification of previously exposed and surveyed utilities) and subsequent measurement of subsurface utilities, usually at a specific point. Minimally intrusive excavation equipment is typically used to minimize the potential for utility damage. A precise horizontal and vertical location, as well as other utility attributes, is shown on plan documents. Accuracy is typically set to 15-mm vertical and to applicable horizontal survey and mapping accuracy as defined or expected by the project owner.

	Quality Level B	Quality Level C	Quality Level D
Electric	—(E)—	—(C)—	—(D)—
Electric & Communication	—(E/C)—	—(C/C)—	—(D/C)—
Communication	—(C)—	—(C)—	—(D)—
Gas	—(G)—	—(C)—	—(D)—
Sanitary Sewer	—(S)—	—(C)—	—(D)—
Storm Sewer	—(S)—	—(C)—	—(D)—
Water	—(W)—	—(C)—	—(D)—
Irrigation	—(I)—	—(C)—	—(D)—
Unknown	—(U)—	—(C)—	—(D)—

LEGEND

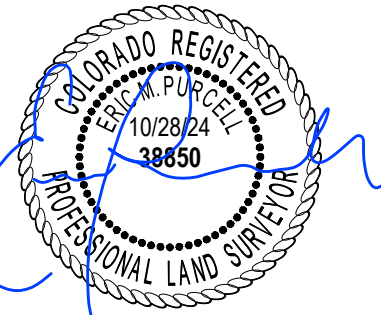
△	Control Point
□	Utility Vault
SV	Sewer Valve
WV	Water Valve
⊙	Water Meter
⊙	Sanitary Sewer Manhole
⊙	Storm Sewer Manhole
⊙	Water Vault Manhole
○	Trash Can
☆	Light
+	Street Sign
⊙	Landscape Boulder
⊙	Deciduous Tree w/ Trunk Diameter
⊙	Coniferous Tree w/ Trunk Diameter
—	Flowline / Drainage
—	Fence
—	Overhead Power
---	Easement
---	GIS Boundary



APPROVED:	12/27/2024	DA2024-0034
City Engineer	Date	Job Number
Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.		

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STAMP:



Topographic Survey
Danny Kendrick Park East
Located in the Northeast 1/4 of Section
5 Township 3 South, Range 69 West of
the Sixth Principal Meridian
County of Jefferson, State of Colorado

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:

DRAWN BY:

CHECKED BY:

DATE:
NOVEMBER, 2024

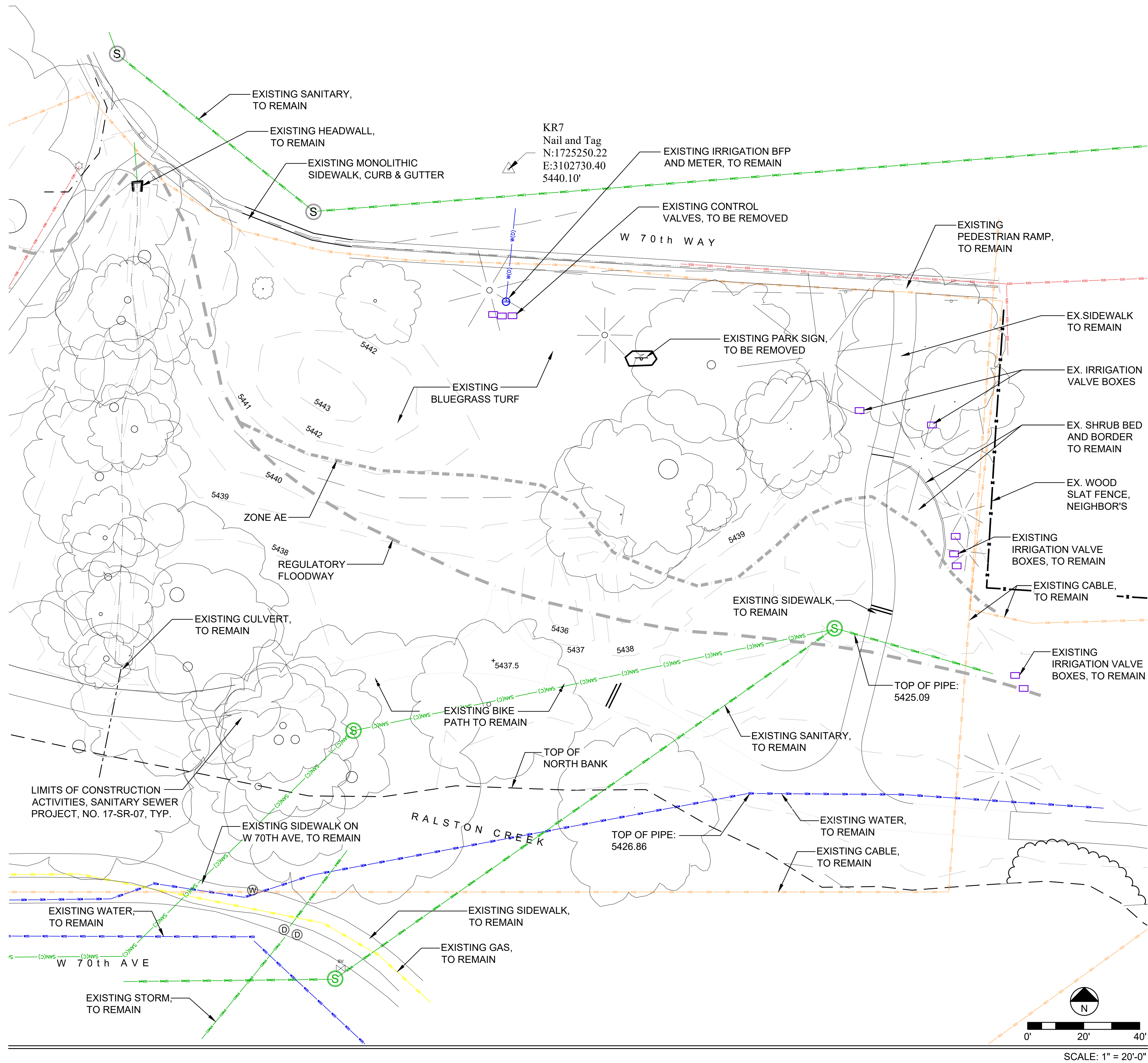
REVISION:

PROJECT NO.:

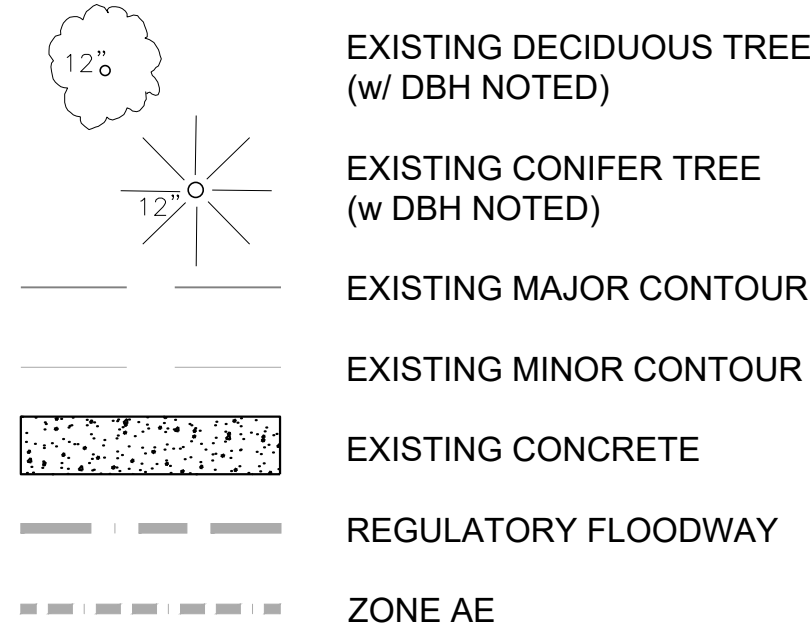
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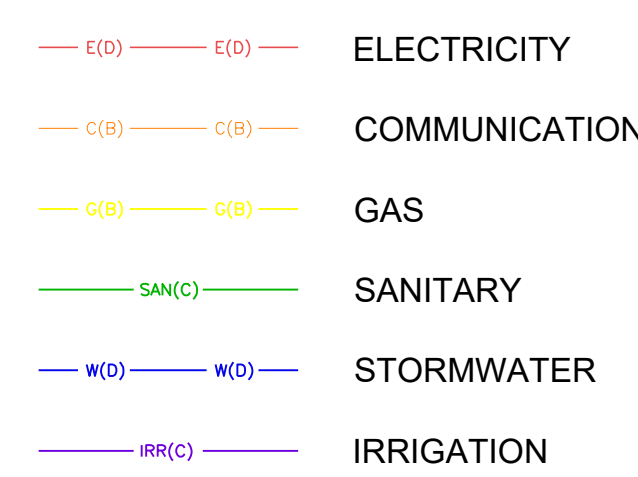
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EXISTING CONDITIONS LEGEND:



UTILITY LEGEND:



COORDINATION WITH SANITARY SEWER PROJECT, NO 17-SR-07:

1. THE SITE SURVEY PROVIDED FOR THE PLAYGROUND INSTALLATION PROJECT WAS CREATED PRIOR TO DEMOLITION FOR THE SANITARY SEWER PROJECT , NO. 17-SR-07.
2. UTILITIES AND PAVEMENTS CALLED OUT AS EXISTING IN THIS WORK, INCLUDE THE INSTALLED SANITARY SEWER FROM PROJECT NO. 17-SR-07 AND RALSTON CREEK PARKWAY.
3. CONTRACTOR FOR THE PLAYGROUND PROJECT SHALL REVIEW EXISTING CONDITIONS AND DOCUMENT DEVIATIONS FROM THESE PLANS WITH CITY OF ARVADA PROJECT MANAGER AND THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK.

STAMP:



SHEET TITLE:
EXISTING SITE
CONDITIONS



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

EX-01



811

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MARKING OF UNDERGROUND MEMBER UTILITIES



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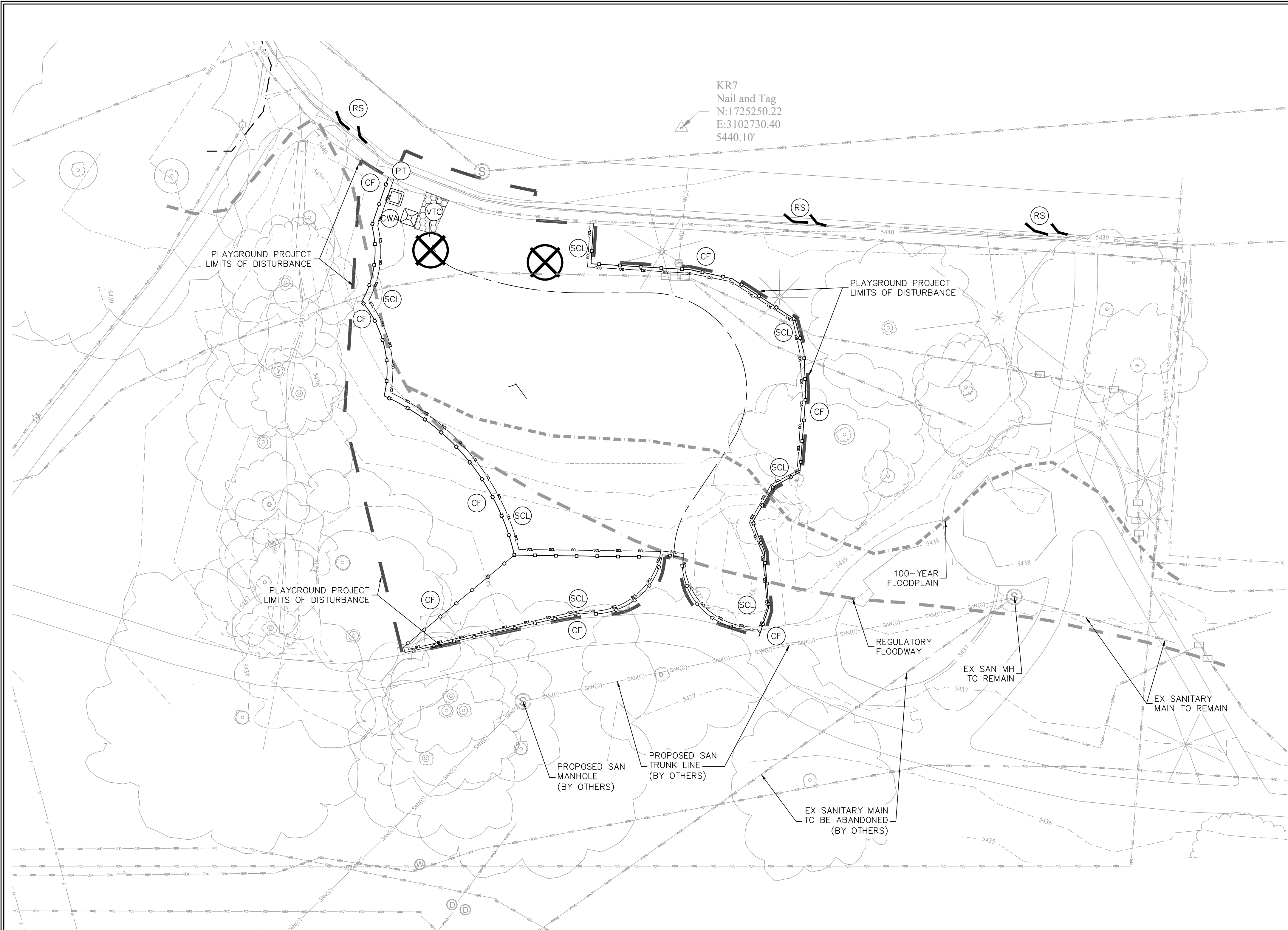
APPROVED:

Brian Pille
DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

1-13-2025
DATE

DA2024-0034
JOB NUMBER

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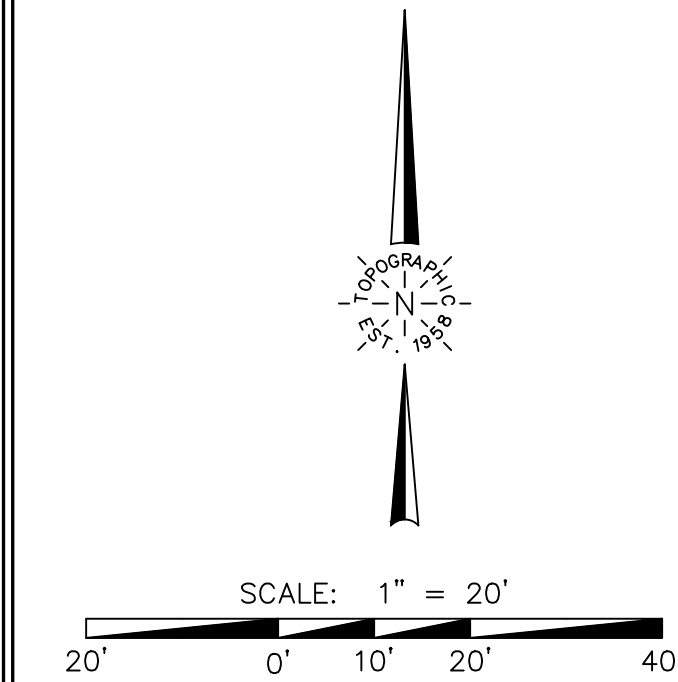
KR7
Nail and Tag
N:1725250.22
E:3102730.40
5440.10'

EROSION CONTROL NOTES:

1. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE MET ON SITE AND PROVIDED WITH A STORMWATER MANAGEMENT PLAN AFTER INSTALLATION OF TEMPORARY BEST MANAGEMENT PRACTICES (BMPs), BUT BEFORE CONSTRUCTION OR GRADING BEGINS.
2. THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED IN THE ACCEPTED PLANS.
3. ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
4. AT ALL TIMES DURING CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WINDBLOWN SEDIMENT. THE DEVELOPER SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
5. PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
6. ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT
7. EROSION CONTROL BMPs ARE INSTALLED. NO DISTURBED AREAS, EXCEPT THOSE WITHIN THE PROJECT STREET RIGHTS-OF-WAY, SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS BEFORE TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF ARVADA STORMWATER INSPECTOR.
8. IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:
 - 8.1. BE INSPECTED AT A MINIMUM OF ONCE EVERY FOURTEEN (14) DAYS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED AS NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - 8.2. REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
 - 8.3. BE REMOVED WHEN THEY ARE NO LONGER FUNCTIONAL OR AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE STORMWATER INSPECTOR. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
9. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES. CITY OF ARVADA 95.10 1/16
10. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
11. ALL SOIL STOCKPILES SHALL NOT BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGEWAY, WHERE POSSIBLE, AND SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY APPROPRIATE EROSION CONTROL METHODS. ANY SOIL STOCKPILE THAT WILL BE DORMANT FOR OVER THIRTY (30) DAYS SHALL BE SEEDED.
12. THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE PROPERTY OWNER OR HOMEOWNERS ASSOCIATION (HOA).
13. CITY ORDINANCE REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. THE DEVELOPER SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
14. A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.
15. MASONRY ACTIVITIES WILL BE CONTAINED WITH APPROPRIATE LOT-SPECIFIC BMPs, SUCH AS STOCKPILE PERIMETER CONTROL AND BERMED WASHOUT PITS. ALL WASTE PRODUCTS FROM MASONRY ACTIVITIES WILL BE REMOVED AND DISPOSED OF PROPERLY.
16. TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS SEDIMENT/EROSION CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED AT ONE OR MORE OF THE FOLLOWING LOCATIONS UNTIL THE LOTS ARE LANDSCAPED.
 - 16.1. BELOW ALL GUTTER DOWNSPOUTS.
 - 16.2. OUT TO DRAINAGE SWALES.
 - 16.3. ALONG LOT PERIMETER.
 - 16.4. OTHER LOCATIONS, IF NEEDED.
17. A VEHICLE TRACKING PAD SHALL BE INSTALLED WHEREVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING UNPAVED AREAS ONTO ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILES, CONSTRUCTION MATERIALS AND/OR BUILDING SITES.
18. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE DEVELOPER SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF ARVADA.
19. THE SITE HAS LIMITED SPACE FOR A STABILIZED STAGING AREA. CONTRACTOR TO COORDINATE WITH CITY FOR AN ACCEPTABLE LOCATION. DO NOT LOCATE STAGING AREA WITHIN 400 FEET OF A NATURAL DRAINAGE PATHWAY OR WATERBODY.
20. TOTAL AREA OF DISTURBANCE FOR PLAYGROUND PROJECT: 0.82 ACRES

EROSION CONTROL LEGEND:

- VTC - VEHICLE TRACKING CONTROL
- SCL - SEDIMENT CONTROL LOG
- CWA - CONCRETE WASHOUT
- CF - CONSTRUCTION FENCING
- RS - ROCK SOCKS
- PT - PORTABLE TOILET



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EROSION CONTROL
PLAN - INITIAL

CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
JMF

DRAWN BY:
JMF

CHECKED BY:
JCP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

EC-01

APPROVED:

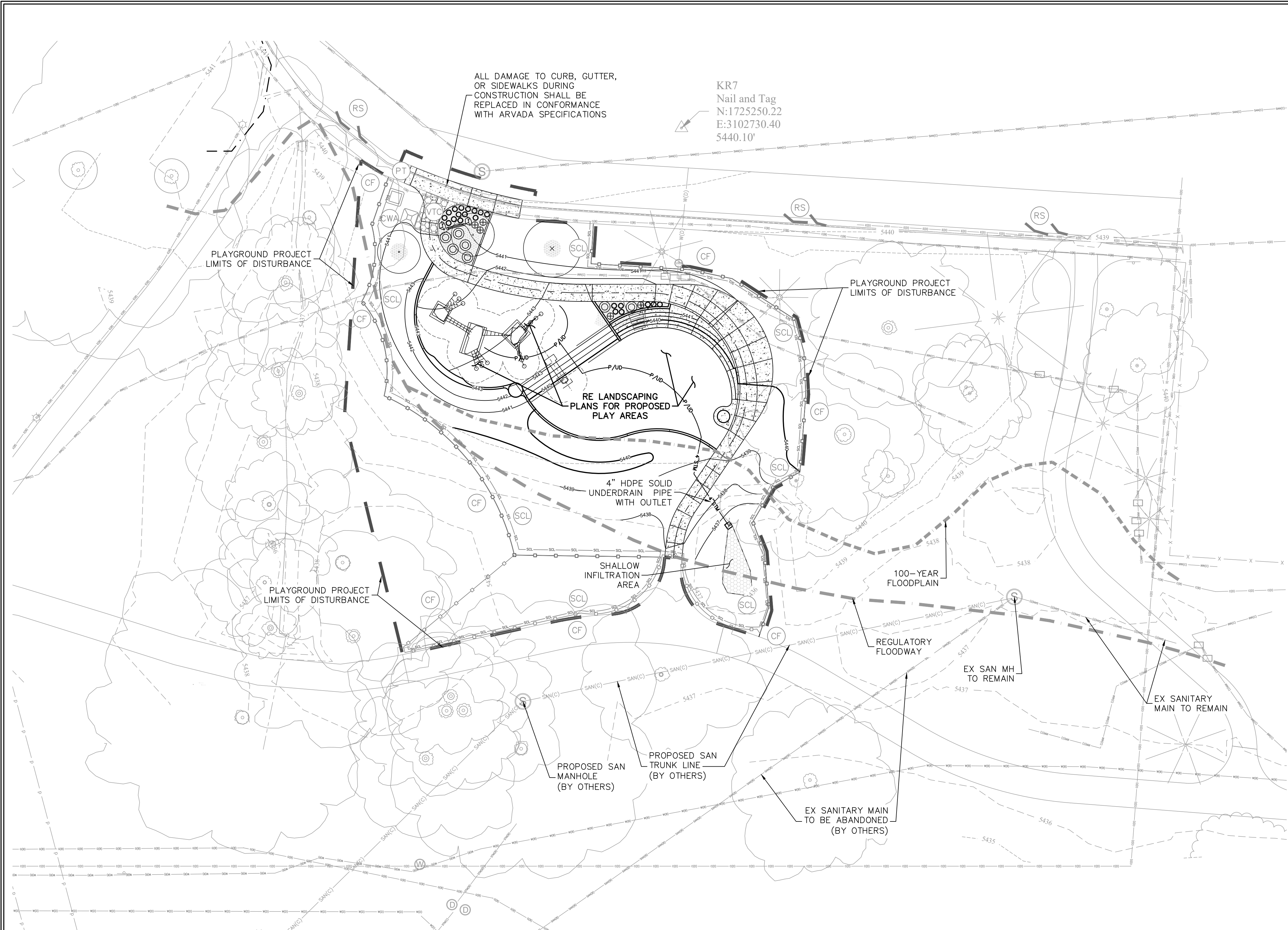
City Engineer

12/27/2024
Date

DA2024-0034
Job Number

Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

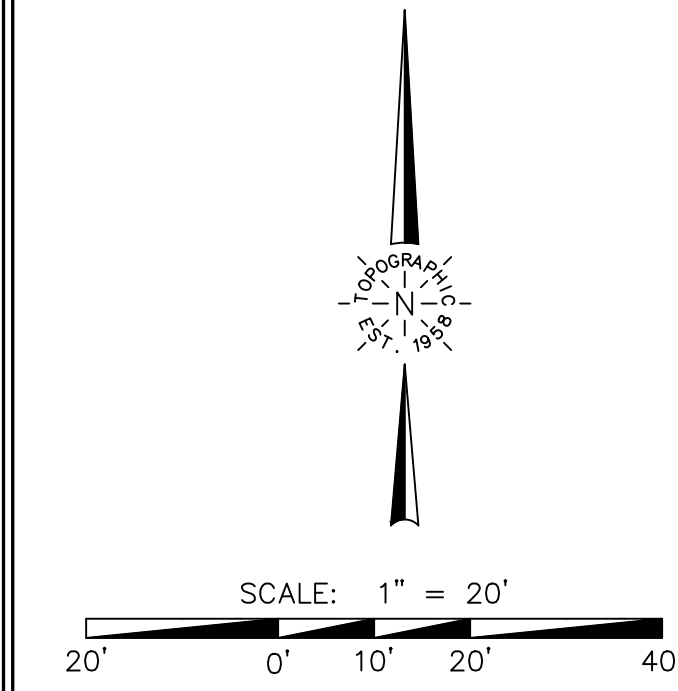


EROSION CONTROL NOTES:

1. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE MET ON SITE AND PROVIDED WITH A STORMWATER MANAGEMENT PLAN AFTER INSTALLATION OF TEMPORARY BEST MANAGEMENT PRACTICES (BMPs), BUT BEFORE CONSTRUCTION OR GRADING BEGINS.
2. THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED IN THE ACCEPTED PLANS.
3. ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
4. AT ALL TIMES DURING CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WINDBLOWN SEDIMENT. THE DEVELOPER SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
5. PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
6. ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT
7. EROSION CONTROL BMPs ARE INSTALLED. NO DISTURBED AREAS, EXCEPT THOSE WITHIN THE PROJECT STREET RIGHTS-OF-WAY, SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS BEFORE TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF ARVADA STORMWATER INSPECTOR.
8. IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:
 - 8.1. BE INSPECTED AT A MINIMUM OF ONCE EVERY FOURTEEN (14) DAYS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED AS NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
 - 8.2. REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
 - 8.3. BE REMOVED WHEN THEY ARE NO LONGER FUNCTIONAL OR AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE STORMWATER INSPECTOR. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.
9. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES. CITY OF ARVADA 95.10 1/16
10. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.
11. ALL SOIL STOCKPILES SHALL NOT BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGEWAY, WHERE POSSIBLE, AND SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY APPROPRIATE EROSION CONTROL METHODS. ANY SOIL STOCKPILE THAT WILL BE DORMANT FOR OVER THIRTY (30) DAYS SHALL BE SEEDDED.
12. THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE PROPERTY OWNER OR HOMEOWNERS ASSOCIATION (HOA).
13. CITY ORDINANCE REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. THE DEVELOPER SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
14. A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.
15. MASONRY ACTIVITIES WILL BE CONTAINED WITH APPROPRIATE LOT-SPECIFIC BMPs, SUCH AS STOCKPILE PERIMETER CONTROL AND BERMED WASHOUT PITS. ALL WASTE PRODUCTS FROM MASONRY ACTIVITIES WILL BE REMOVED AND DISPOSED OF PROPERLY.
16. TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS SEDIMENT/EROSION CONTROL BMPs SHALL BE INSTALLED AND MAINTAINED AT ONE OR MORE OF THE FOLLOWING LOCATIONS UNTIL THE LOTS ARE LANDSCAPED.
 - 16.1. BELOW ALL GUTTER DOWNSPOUTS.
 - 16.2. OUT TO DRAINAGE SWALES.
 - 16.3. ALONG LOT PERIMETER.
 - 16.4. OTHER LOCATIONS, IF NEEDED.
17. A VEHICLE TRACKING PAD SHALL BE INSTALLED WHEREVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING UNPAVED AREAS ONTO ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILES, CONSTRUCTION MATERIALS AND/OR BUILDING SITES.
18. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE DEVELOPER SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF ARVADA.
19. THE SITE HAS LIMITED SPACE FOR A STABILIZED STAGING AREA. CONTRACTOR TO COORDINATE WITH CITY FOR AN ACCEPTABLE LOCATION. DO NOT LOCATE STAGING AREA WITHIN 400 FEET OF A NATURAL DRAINAGE PATHWAY OR WATERBODY.
20. TOTAL AREA OF DISTURBANCE FOR PLAYGROUND PROJECT: 0.82 ACRES

EROSION CONTROL LEGEND:

- | | | |
|--|-----|----------------------------|
| | VTC | - VEHICLE TRACKING CONTROL |
| | SCL | - SEDIMENT CONTROL LOG |
| | CWA | - CONCRETE WASHOUT |
| | CF | - CONSTRUCTION FENCING |
| | RS | - ROCK SOCKS |
| | PT | - PORTABLE TOILET |



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Call before you dig.

UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

Landscape Architecture & Planning

4383 TENNYSON ST #1A
DENVER, CO 80212
303.455.3779
WWW.STUDIOCPG.COM

STAMP:

SHEET TITLE:

**EROSION CONTROL
PLAN - INTERIM**

CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
JMF

DRAWN BY:
JMF

CHECKED BY:
JCP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
EC-02

APPROVED:

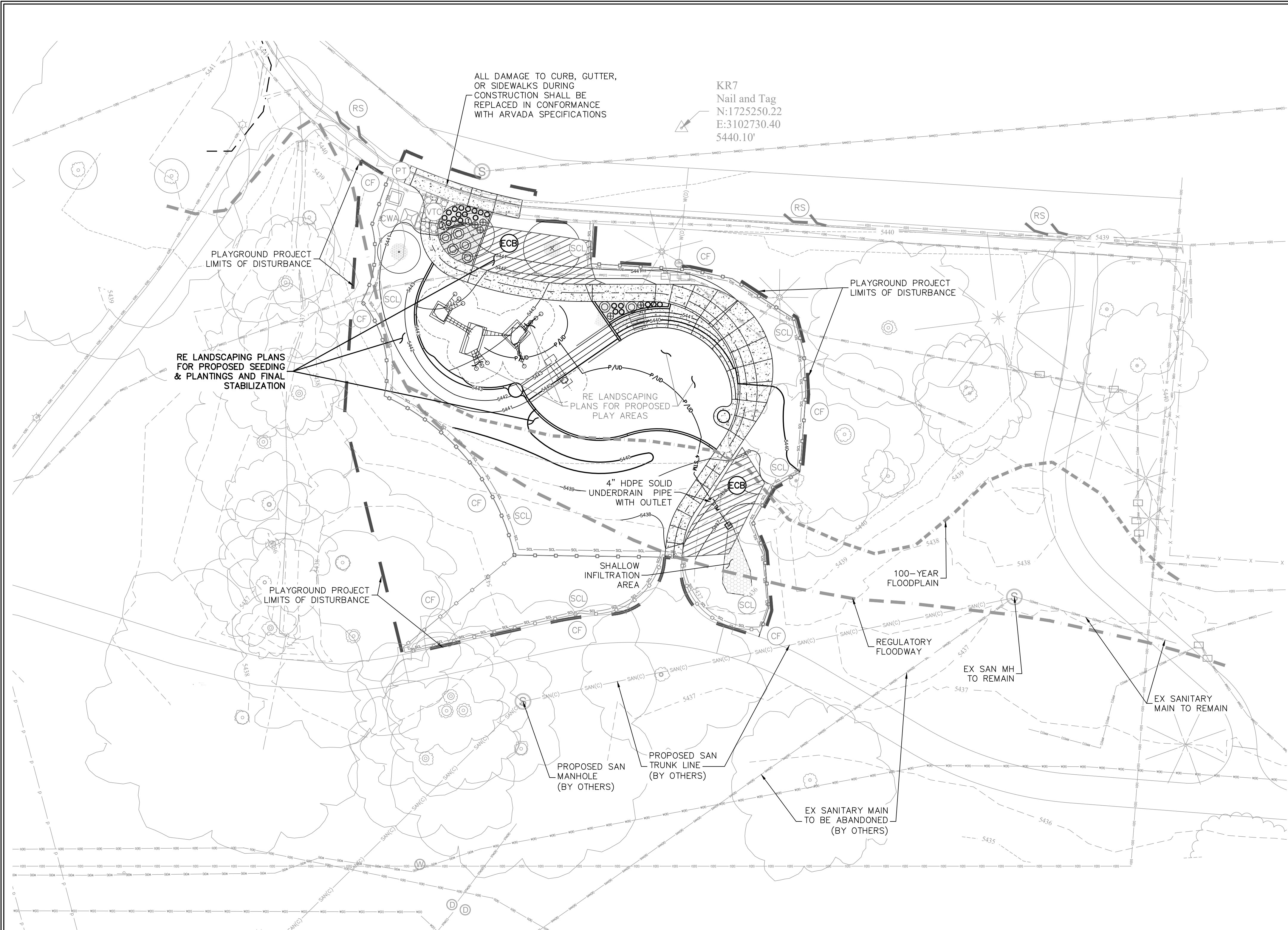
City Engineer

12/27/2024
Date

DA2024-0034
Job Number

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TOPOGRAPHIC
LOYALTY INNOVATION LEGACY



SCALE: 1" = 20'

20' 0' 10' 20' 40'

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

EROSION CONTROL LEGEND:

- VTC - VEHICLE TRACKING CONTROL
- SCL - SEDIMENT CONTROL LOG
- CWA - CONCRETE WASHOUT
- CF - CONSTRUCTION FENCING
- RS - ROCK SOCKS
- PT - PORTABLE TOILET
- ECB - EROSION CONTROL BLANKET

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Landscape Architecture & Planning

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303.455.3779
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STAMP:

SHEET TITLE:

EROSION CONTROL
PLAN - FINAL

CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
JMF

DRAWN BY:
JMF

CHECKED BY:
JCP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
EC-03

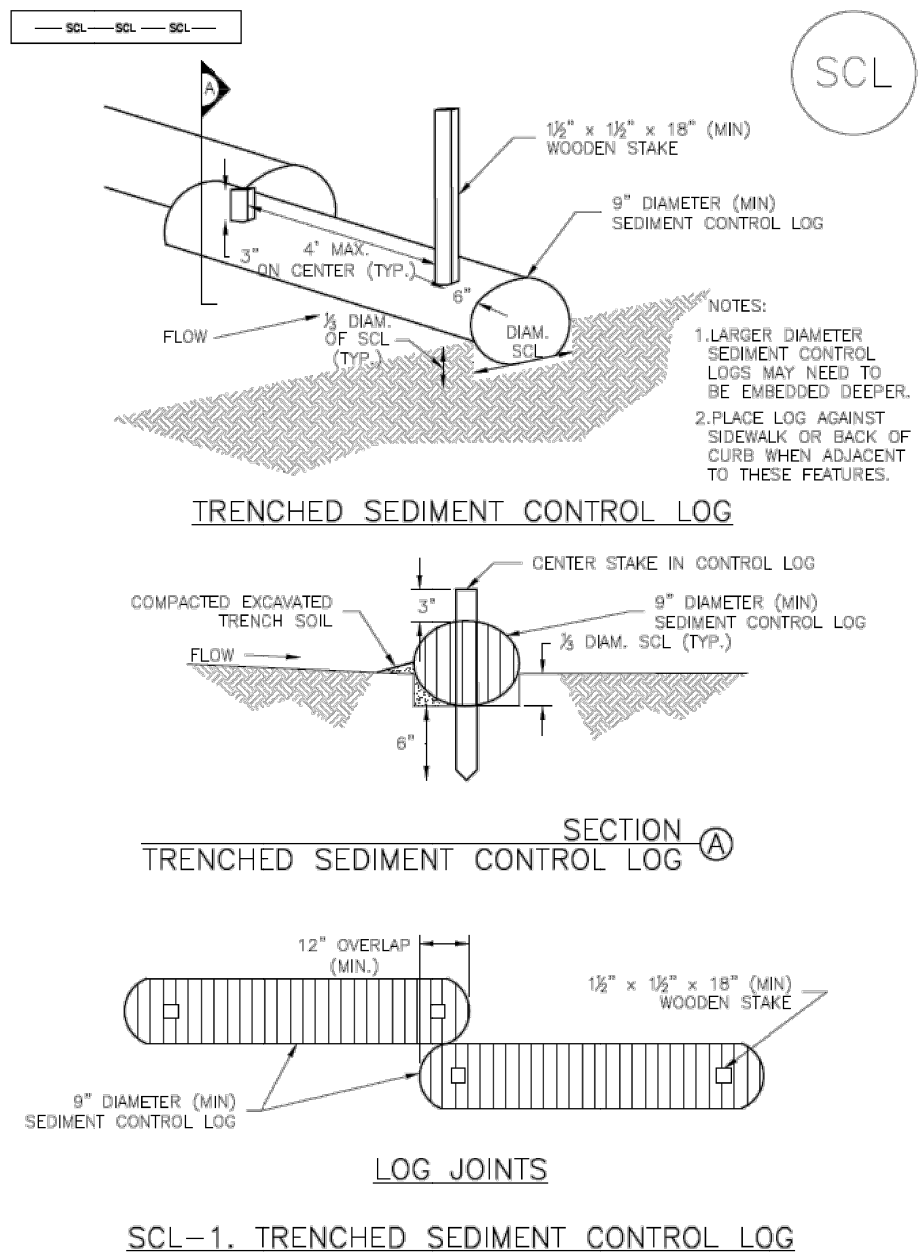
APPROVED:

12/27/2024 DA2024-0034
City Engineer Date Job Number

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Sediment Control Log (SCL)

SC-2



November 2015 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

SCL-3

SC-2

Sediment Control Log (SCL)

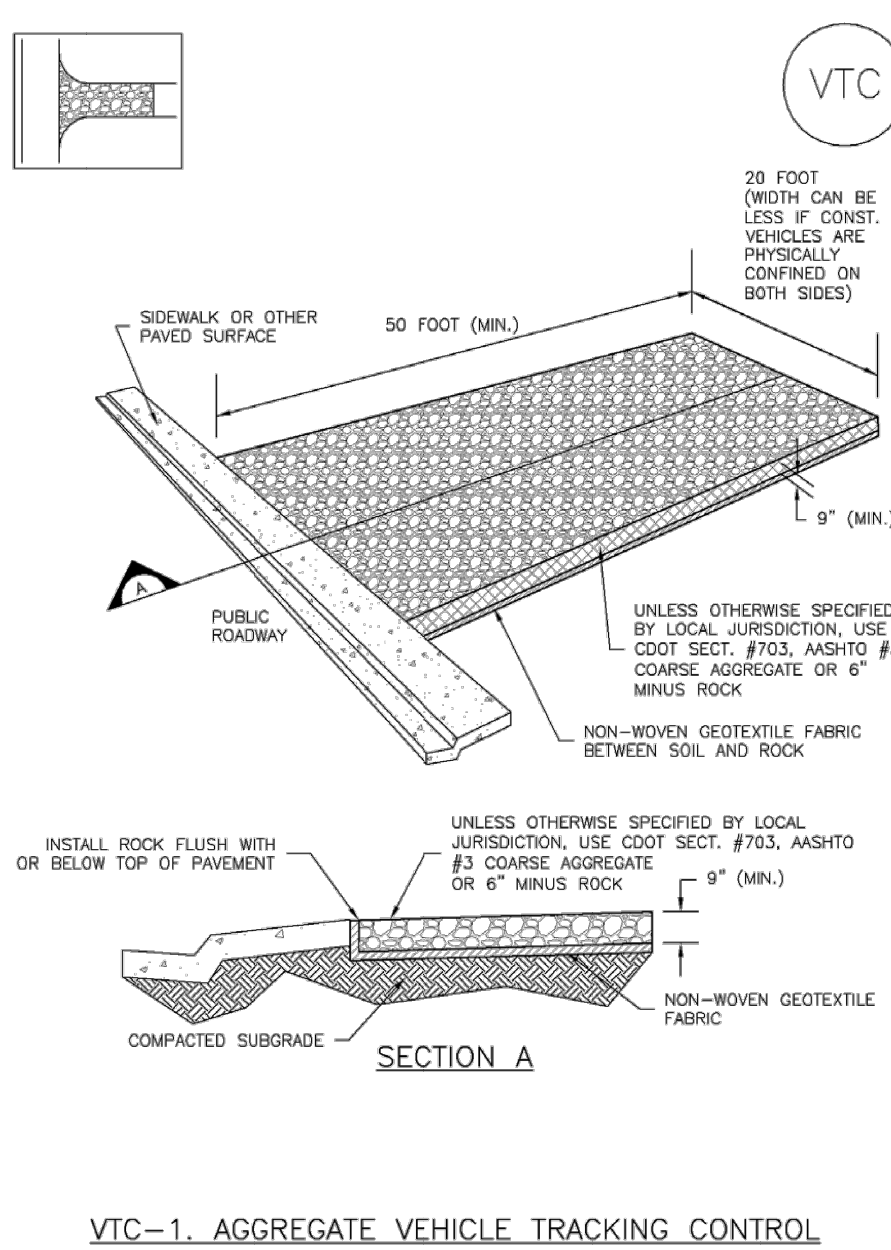
- SEDIMENT CONTROL LOG INSTALLATION NOTES**
- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
 - SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADE LAND-DISTURBING ACTIVITIES.
 - SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSDIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
 - SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
 - IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/3 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
 - THE UPHILL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
 - FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.
- SEDIMENT CONTROL LOG MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOG SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
 - SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION/COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY SHALL BE COVERED WITH TOP SOIL, SEEDS AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, BAYVIEW COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SCL-6 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

November 2015

Vehicle Tracking Control (VTC)

SM-4

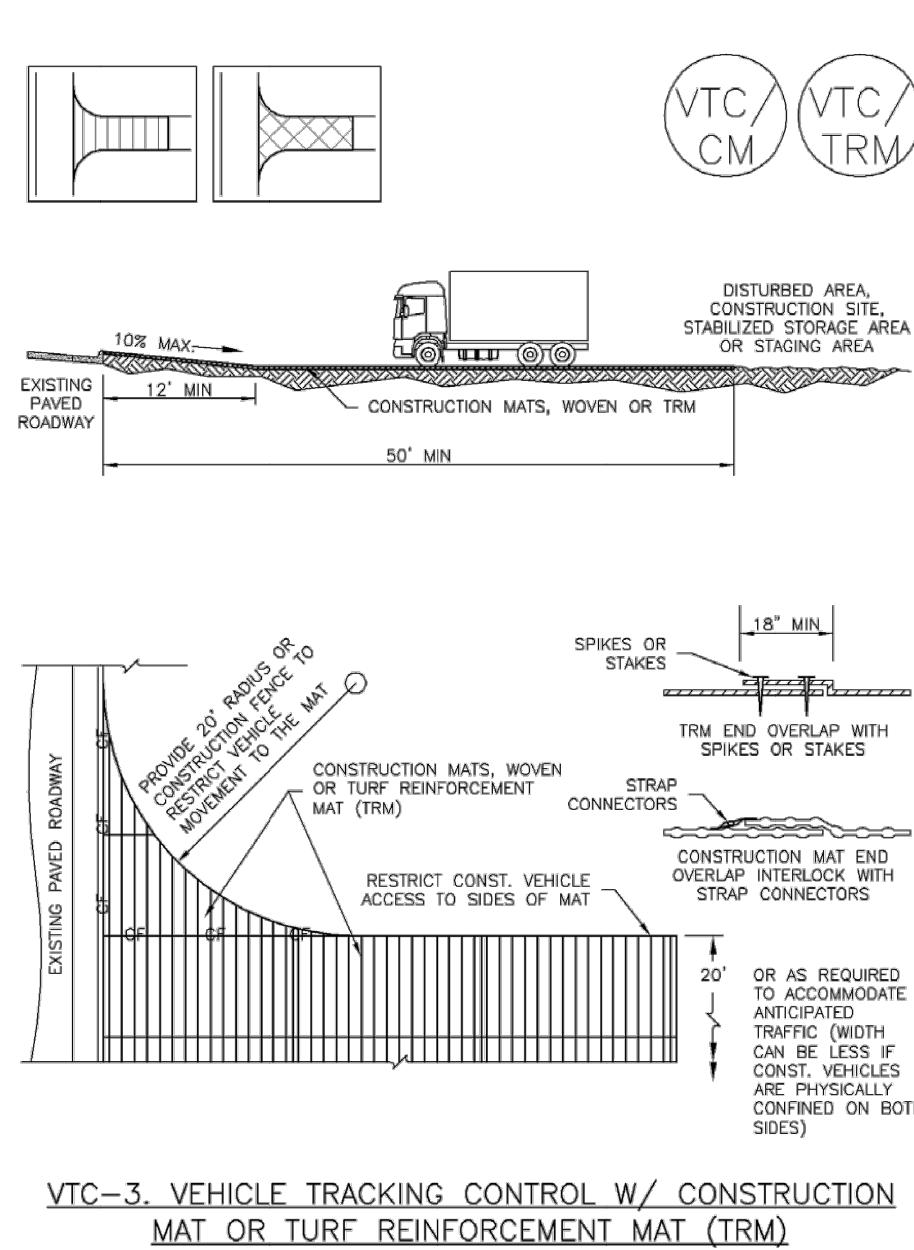


November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

VTC-3

Vehicle Tracking Control (VTC)

SM-4

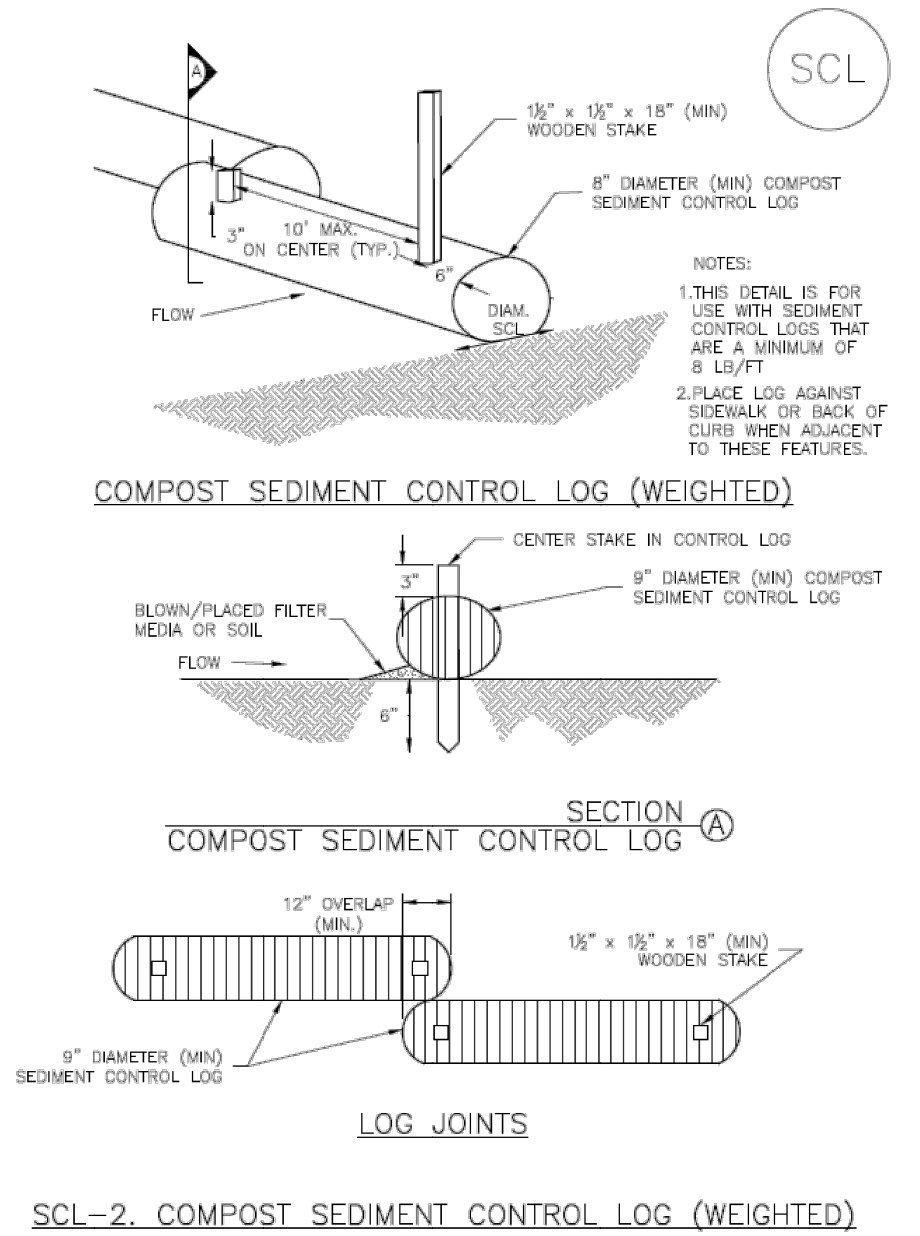


November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

VTC-5

SC-2

Sediment Control Log (SCL)



SCL-4 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

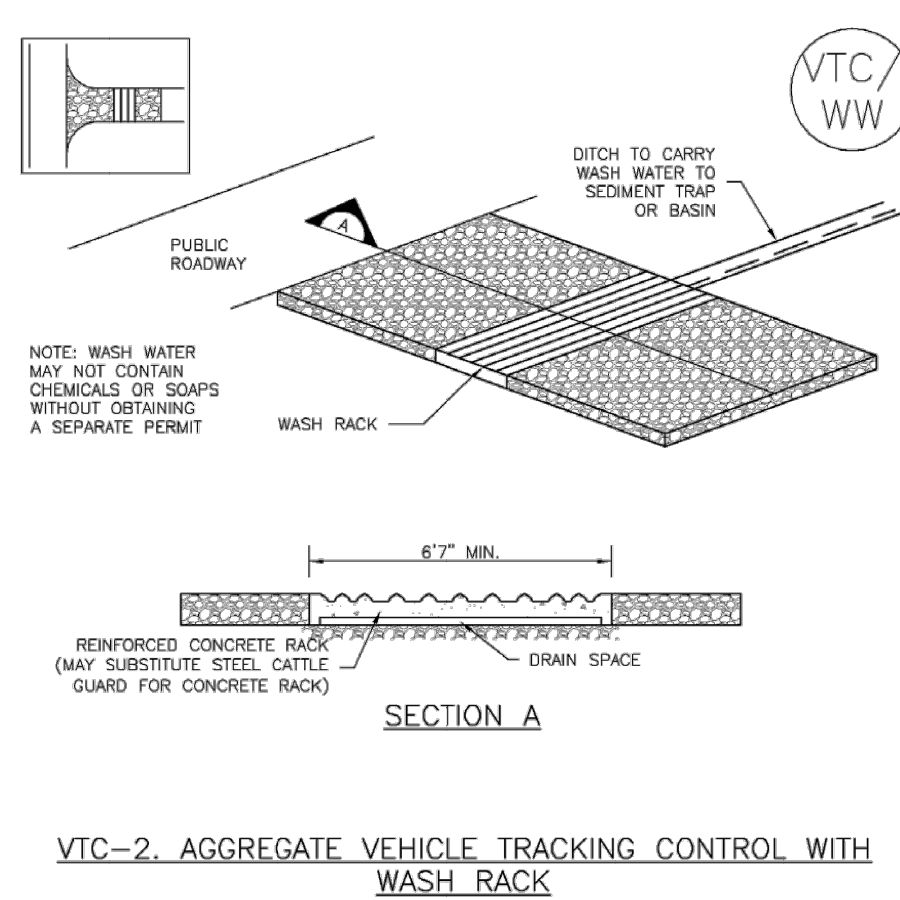
November 2015

PORTABLE TOILETS:

- PROVIDE CONVENIENT, WELL-MAINTAINED, AND PROPERLY LOCATED TOILET FACILITIES ON-SITE.
- LOCATE TOILET FACILITIES AWAY FROM STORM DRAIN INLETS & WATERWAYS TO PREVENT ACCIDENTAL SPILLS & CONTAMINATION OF STORMWATER.
- MAINTAIN CLEAN RESTROOM FACILITIES & EMPTY PORTABLE TOILETS REGULARLY.
- WHERE POSSIBLE, PROVIDE SECONDARY CONTAINMENT PANS UNDER PORTABLE TOILETS.
- PROVIDE TIE-DOWNS OR STAKE-DOWNS FOR PORTABLE TOILETS.
- EDUCATE EMPLOYEES, SUBCONTRACTORS, & SUPPLIERS ON LOCATIONS OF FACILITIES.
- TREAT OR DISPOSE OF SANITARY & SEPTIC WASTE IN ACCORDANCE WITH STATE OR LOCAL REGULATIONS. DO NOT DISCHARGE OR BURY WASTEWATER AT THE CONSTRUCTION SITE.
- INSPECT FACILITIES FOR LEAKS. IF FOUND, REPAIR OR REPLACE IMMEDIATELY.
- SPECIAL CARE IS NECESSARY DURING MAINTENANCE (PUMP OUT) TO ENSURE THAT WASTE AND/OR BIOCIDES ARE NOT SPILLED ON THE GROUND.

SM-4

Vehicle Tracking Control (VTC)



VTC-4 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

November 2010

SM-4

Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
 - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
 - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOULDER OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

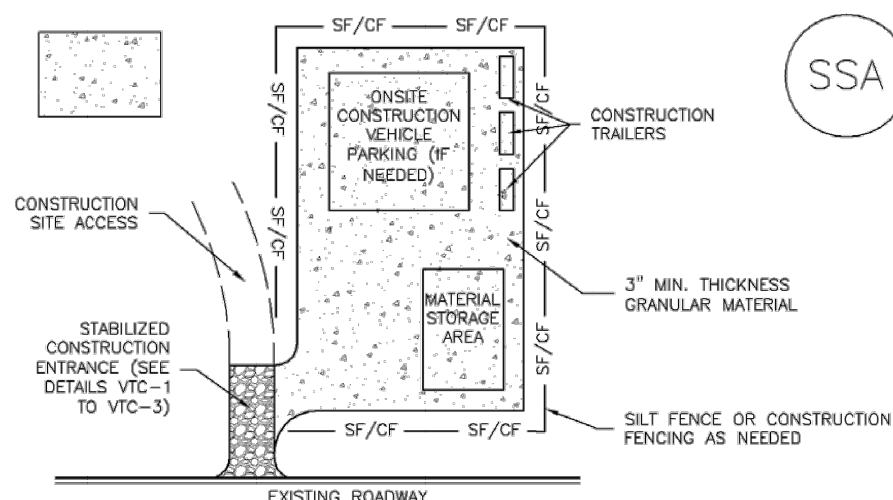
November 2010

APPROVED: *CEL VJ* 12/27/2024 DA2024-0034
City Engineer Date Job Number

Review is for general compliance with the City of Arvada.
"Engineering Code of Standards and Specifications for the
Design and Construction of Public Improvements", latest edition.
Sole responsibility for completeness and/or accuracy of these
Documents shall remain with the Registered Professional
Engineer sealing these plans. The City does not accept liability
for facilities designed by others.

Stabilized Staging Area (SSA)

SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR LOCATION OF STAGING AREA(S). CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, ASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

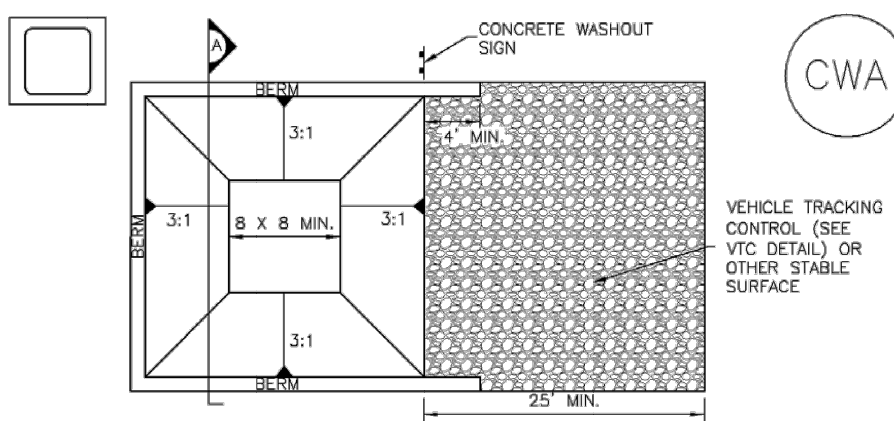
STABILIZED STAGING AREA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

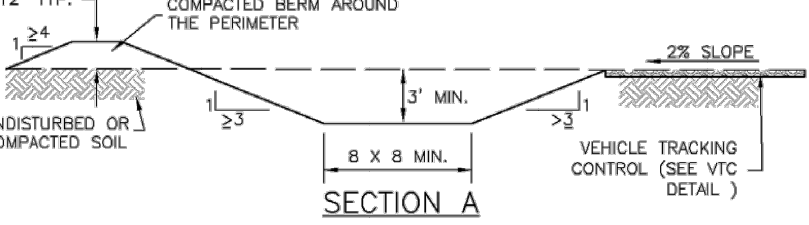
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Urban Storm Drainage Criteria Manual Volume 3 SSA-3

Concrete Washout Area (CWA)

MM-1



CWA-1. CONCRETE WASHOUT AREA



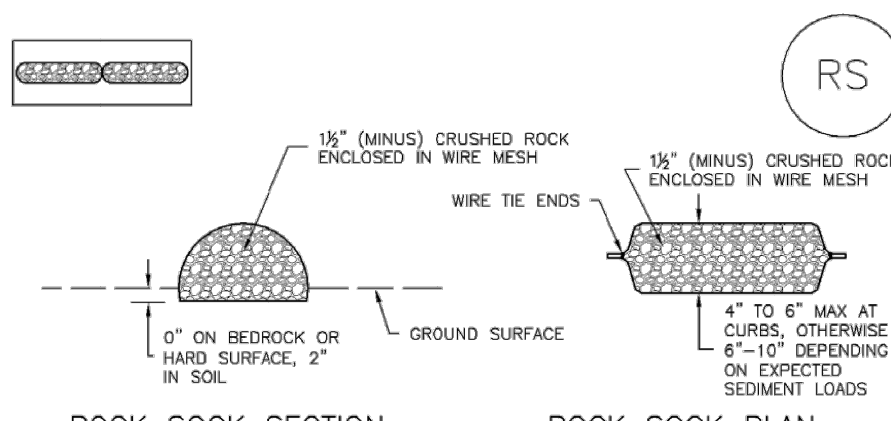
CWA INSTALLATION NOTES

1. SEE PLAN VIEW FOR CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8" SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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Urban Storm Drainage Criteria Manual Volume 3 CWA-3

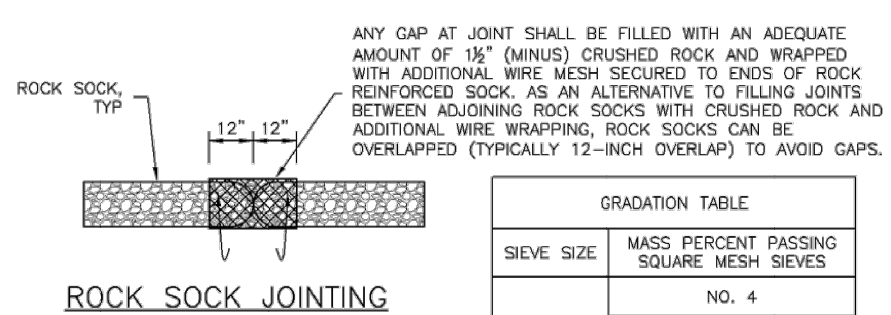
SC-5

Rock Sock (RS)



ROCK SOCK SECTION

ROCK SOCK PLAN



ROCK SOCK JOINTING

ROCK SOCK INSTALLATION NOTES

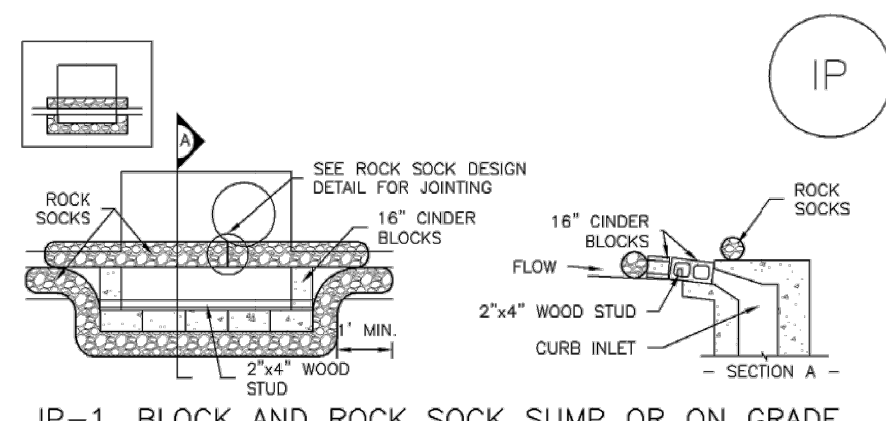
1. SEE PLAN VIEW FOR LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1 1/2" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAUGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2' CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS-1. ROCK SOCK PERIMETER CONTROL

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Urban Storm Drainage Criteria Manual Volume 3 RS-2

SC-6

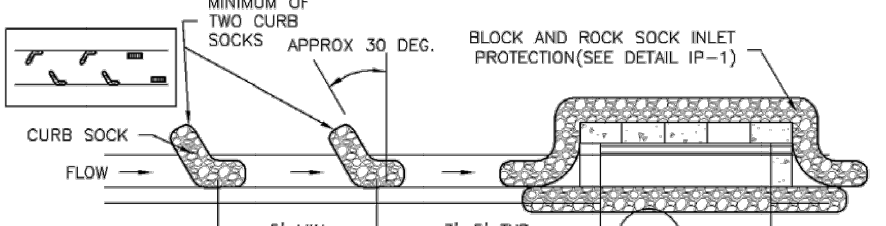
Inlet Protection (IP)



IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION

BLOCK AND CURB SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
3. GRAVEL BACKS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.



IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION

CURB ROCK SOCK INLET PROTECTION INSTALLATION NOTES

1. SEE ROCK SOCK DESIGN DETAIL INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE SOCK SHALL BE APPROXIMATELY 30 DEGREES FROM PERPENDICULAR IN THE OPPOSITE DIRECTION OF FLOW.
3. SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5 FEET APART.
4. AT LEAST TWO CURB SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.

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SM-6

Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
 6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEED, AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

STABILIZED STAGING AREA NOTES:

1. ROCK SOCK OR APPROVED ALTERNATIVE METHOD OF PERIMETER CONTROL IS ACCEPTABLE IN LIEU OF SILT FENCE IN IMPERVIOUS AREAS.
2. APPROVED EQUIVALENT, NON-ROCK STAGING AREAS ARE ACCEPTABLE PROVIDED THE STAGING AREA SUFFICIENTLY PREVENTS DISCHARGES FROM STORED MATERIALS.
3. INSTALLATION AND MAINTENANCE NOTES FROM ABOVE DETAIL SHALL STILL APPLY.

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Urban Storm Drainage Criteria Manual Volume 3 SSA-4

MM-1

Concrete Washout Area (CWA)

CWA MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 4. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
 5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
- (DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

CONCRETE WASHOUT NOTES:

1. ECO-PAN OR APPROVED ALTERNATIVE IS ACCEPTABLE IN LIEU OF ABOVE CWA DETAIL. HOWEVER, INSTALLATION NOTES 1-3 & 7, AND ALL MAINTENANCE NOTES FROM ABOVE DETAIL SHALL STILL APPLY.

November 2010 Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3 CWA-4

Rock Sock (RS)

SC-5

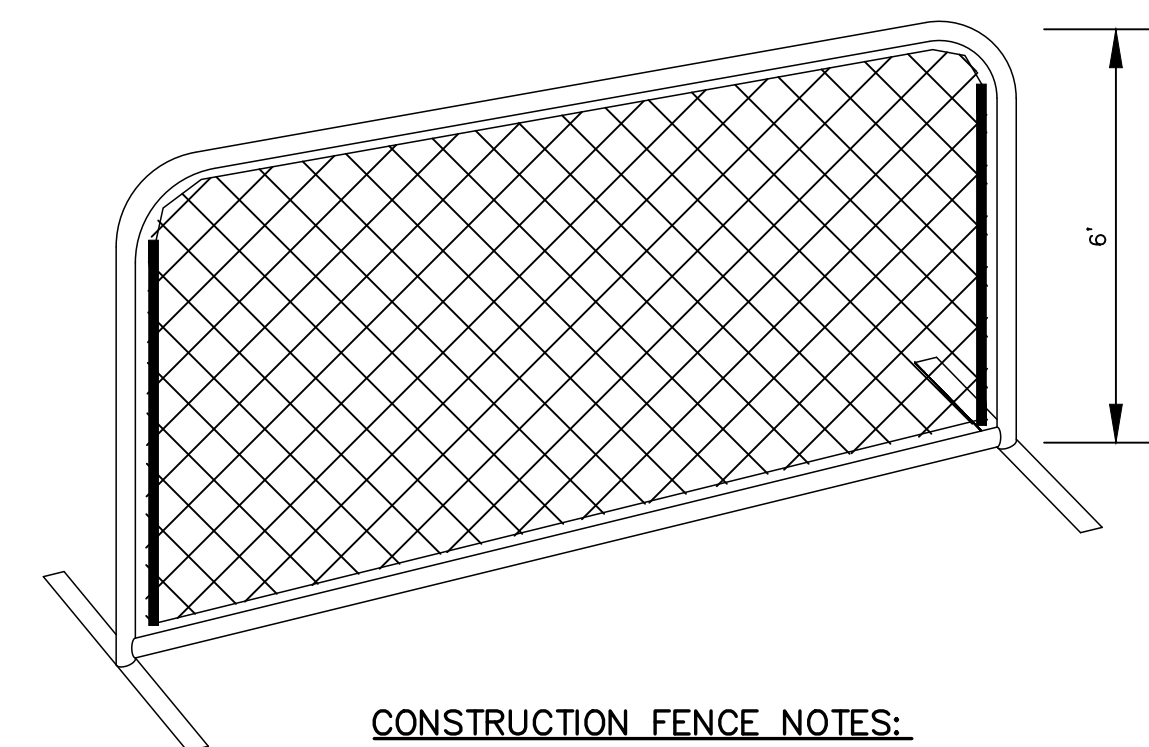
ROCK SOCK MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/3 OF THE HEIGHT OF THE ROCK SOCK.
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEED, AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

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CF



CONSTRUCTION FENCE NOTES:

1. MIN. HEIGHT 6 FT.
2. KNUCKLE FENCE FABRIC ON TOP AND BOTTOM.
3. USE SAND BAGS OR OTHER HEAVY WEIGHT TO SECURE STANDS AND PREVENT TIPPING OR DANGER TO PUBLIC.



CONSTRUCTION FENCE -- CHAIN-LINK PANEL

APPROVED:

City Engineer

12/27/2024
Date

DA2024-0034
Job Number

Review is for general compliance with the City of Arvada "Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements", latest edition. Sole responsibility for completeness and/or accuracy of these Documents shall remain with the Registered Professional Engineer sealing these plans. The City does not accept liability for facilities designed by others.

EROSION CONTROL
DETAILS - 2

CITY OF ARVADA



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST

11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
JMF

DRAWN BY:
JMF

CHECKED BY:
JCP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

EC-05



Know what's below.
Call before you dig.

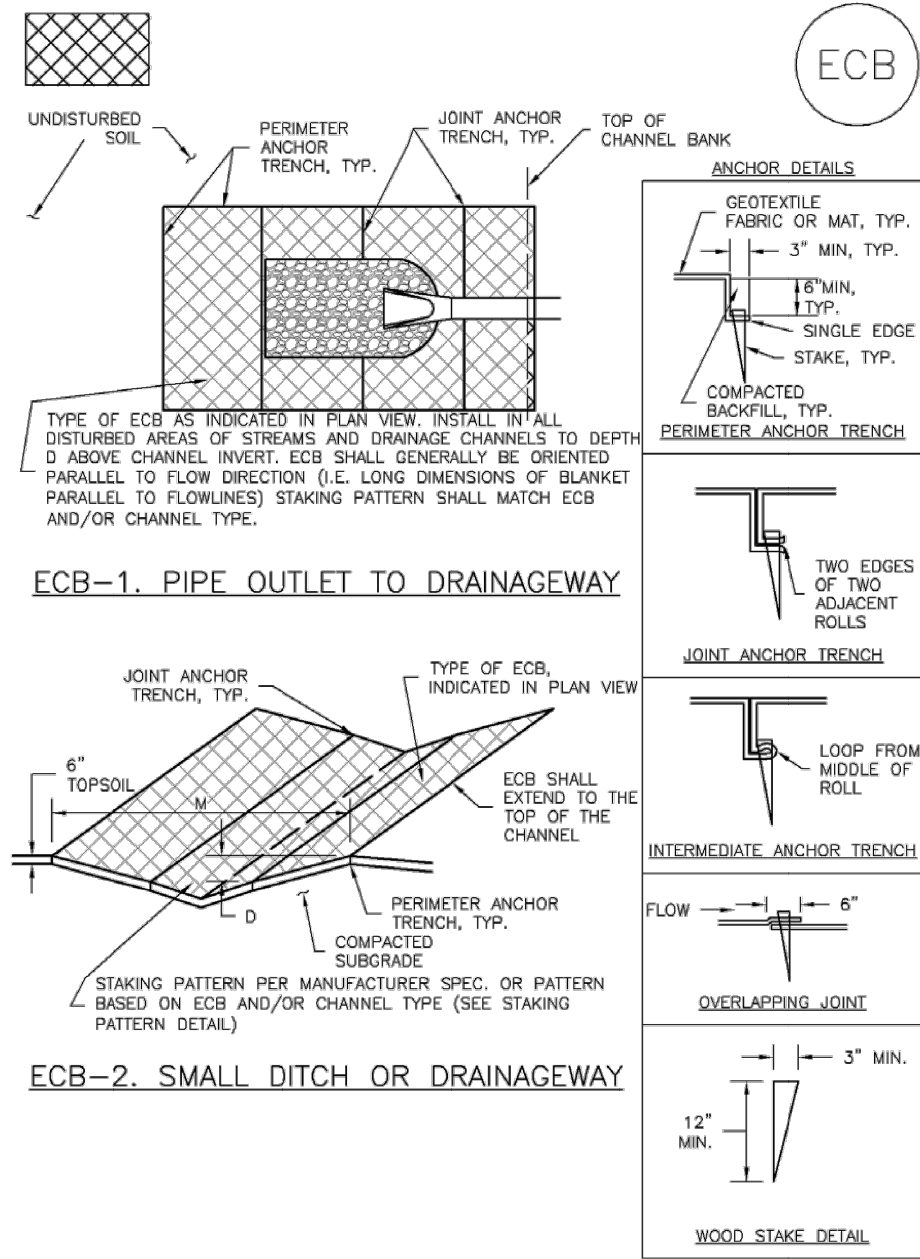


UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES



EC-6 Rolled Erosion Control Products (RECP)



RECP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

EC-6 Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES

- SEE PLAN VIEW FOR:
 - LOCATION OF ECB.
 - TYPE OF ECB (STRAW, STRAW-COCOONUT, COCONUT, OR EXCELSIOR).
 - AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
- DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

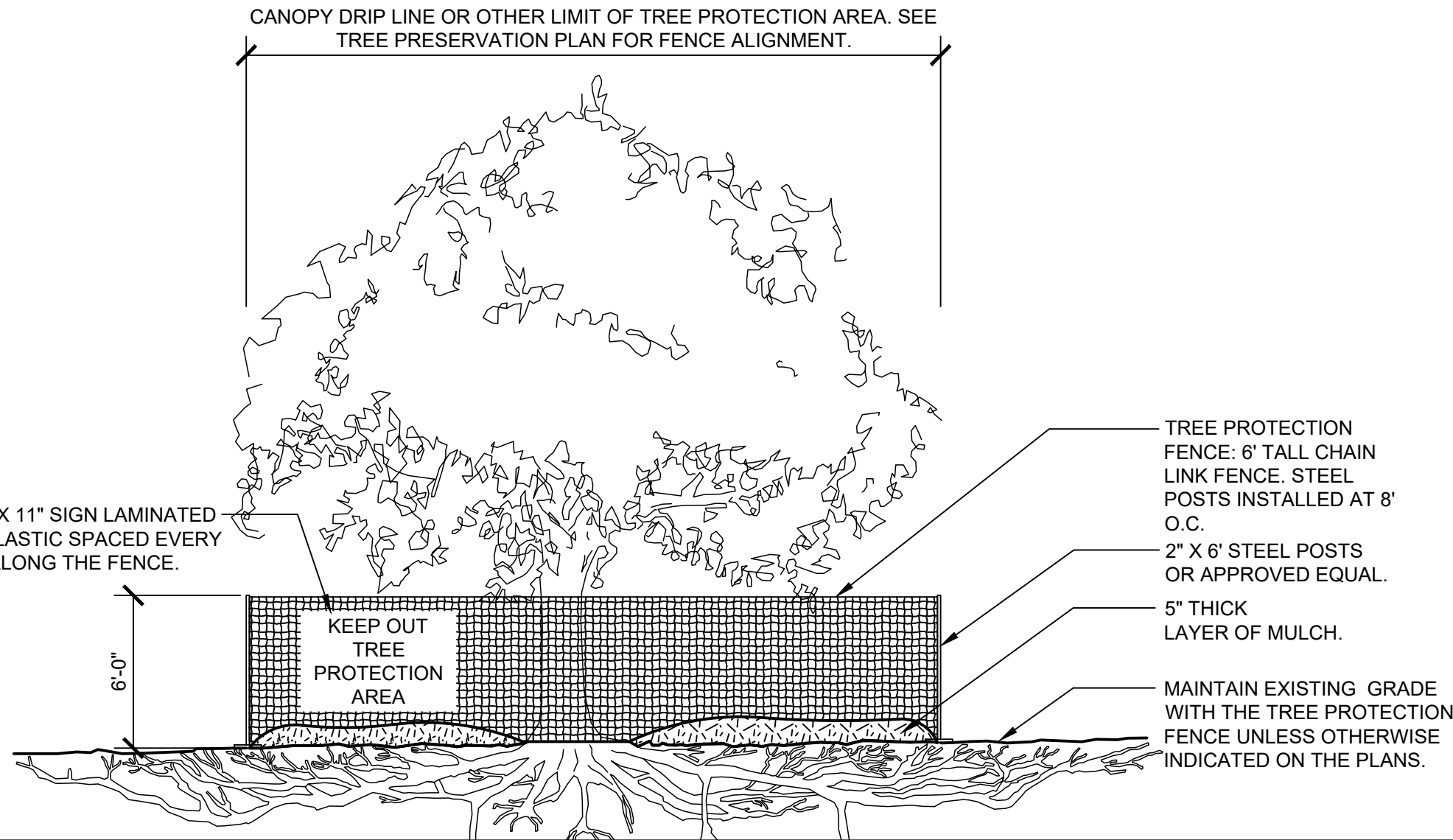
TABLE ECB-1. ECB MATERIAL SPECIFICATIONS				
TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING*
STRAW	—	100%	—	DOUBLE/NATURAL
STRAW-COCOONUT	30% MIN	70% MAX	—	DOUBLE/NATURAL
COCONUT	100%	—	—	DOUBLE/NATURAL
EXCELSIOR	—	—	100%	DOUBLE/NATURAL

*STRAW ECBs MAY ONLY BE USED WHERE THERE IS NO MAJOR DRAINAGEWAY STABILIZATION REQUIRED. MULCHING METHOD MAY BE ACCORDANCE TO LOCAL JURISDICTIONS.

RECP-8 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

NOTES:

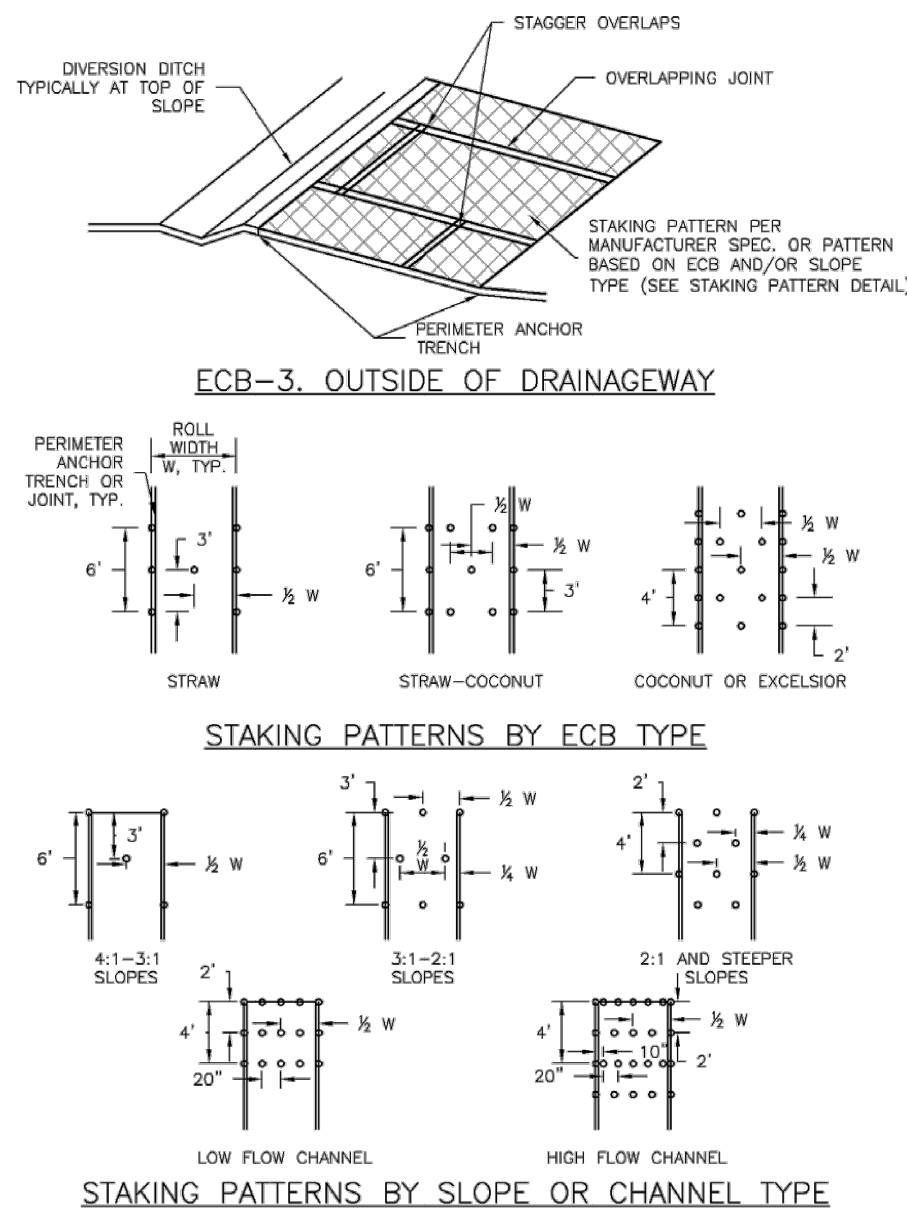
- CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR ALL CONSTRUCTION ACTIVITIES IN OR AROUND ANY ARVADA PARK OR RIGHT-OF-WAY LANDSCAPING.
- FENCING SHALL BE SET UP AT THE CANOPY DRIP LINE PRIOR TO ANY WORK ON THE SITE AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- PROTECTION REQUIREMENTS SHALL EXTEND TO NEIGHBORING TREES OVERHANGING THE SITE.
- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
- NO STORAGE OF MATERIAL, TOPSOIL, VEHICLES, OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION ZONE.
- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PROTECTED TREES DURING CONSTRUCTION.
- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.



1 TREE PROTECTION (CITY OF ARVADA DETAIL)
EC-06 NO SCALE

Rolled Erosion Control Products (RECP)

EC-6



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-7

Rolled Erosion Control Products (RECP)

EC-6

EROSION CONTROL BLANKET MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
- ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

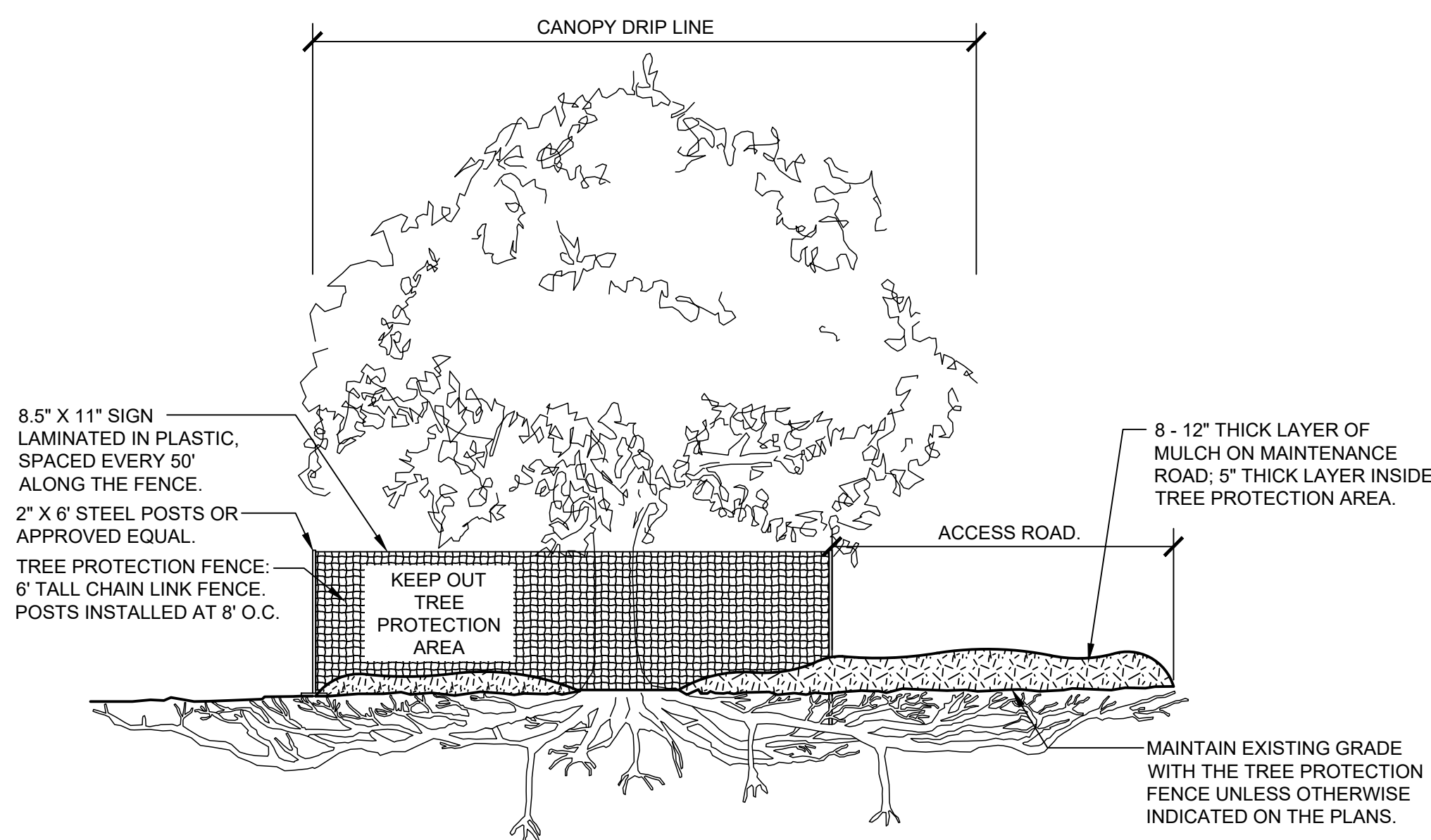
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(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-9

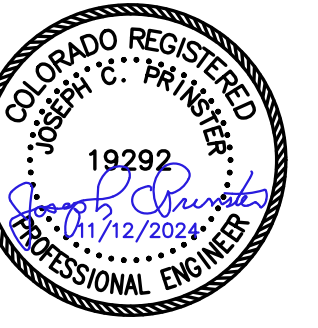
NOTES:

- CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR ALL CONSTRUCTION ACTIVITIES IN OR ADJACENT TO ANY ARVADA PARK OR RIGHT-OF-WAY LANDSCAPING.
- FENCING SHALL BE INSTALLED AT THE CANOPY DRIP LINE PRIOR TO ANY ON-SITE WORK AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
- PROTECTION REQUIREMENTS SHALL EXTEND TO NEIGHBORING TREES OVERHANGING THE SITE.
- SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.
- NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
- NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
- NO STORAGE OF MATERIAL, TOPSOIL, VEHICLES, OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION ZONE.
- IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PROTECTED TREES DURING CONSTRUCTION.
- SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.



2 TREE PROTECTION ADJACENT TO MAINTENANCE ROAD
EC-06 NO SCALE
(CITY OF ARVADA DETAIL)

STAMP:



SHEET TITLE:
EROSION CONTROL
DETAILS - 3

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE:

DESIGNED BY:
JMF

DRAWN BY:
JMF

CHECKED BY:
JCP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

EC-06

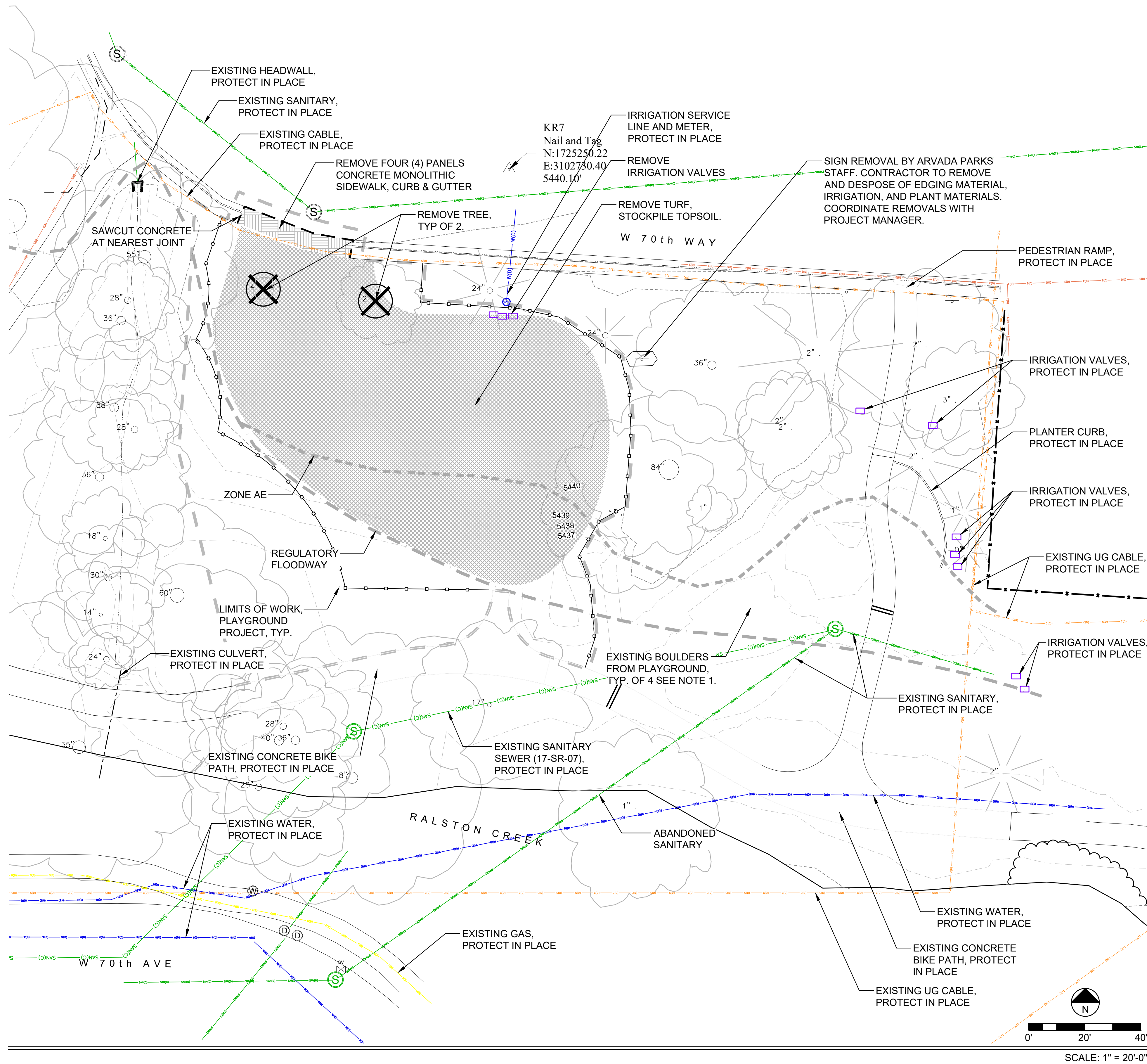


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CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES



DEMOLITION LEGEND

- LIMIT OF WORK, PLAYGROUND PROJECT
- REMOVE TREE
- TREE PROTECTION FENCE
- REMOVE CONCRETE
- REMOVE TURF
- REGULATORY FLOODWAY
- ZONE AE

UTILITY LEGEND

- ELECTRICITY
- COMMUNICATION
- GAS
- SAN(C) SANITARY
- W(D) STORMWATER
- IRR(C) IRRIGATION

DEMOLITION NOTES

- FOUR BOULDERS HAVE BEEN RETAINED ON SITE FROM PLAYGROUND DEMOLITION IN PRIOR SANITARY SEWER PROJECT (17-SR-07). PLAYGROUND CONTRACTOR TO SAFELY STORE BOULDERS UNTIL FINAL PLACEMENT.
- SERVICE LINES BEING ABANDONED NEED TO BE REMOVED AND CAPPED AT THE MAIN.
- ABANDONMENT OR REMOVAL OF ALL PIPES AND APPURTENANCES MUST COMPLY WITH SECTION 332 OF THE CITY CODE.
- SECTIONS OF SIDEWALK BEING REMOVED / REPLACED NEED TO BE REMOVED AND REPLACED TO THE NEAREST JOINT.

STAMP:



SHEET TITLE:

DEMOLITION PLAN

CITY OF ARVADA



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

DE-01



Know what's below.
Call before you dig.



UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

APPROVED:

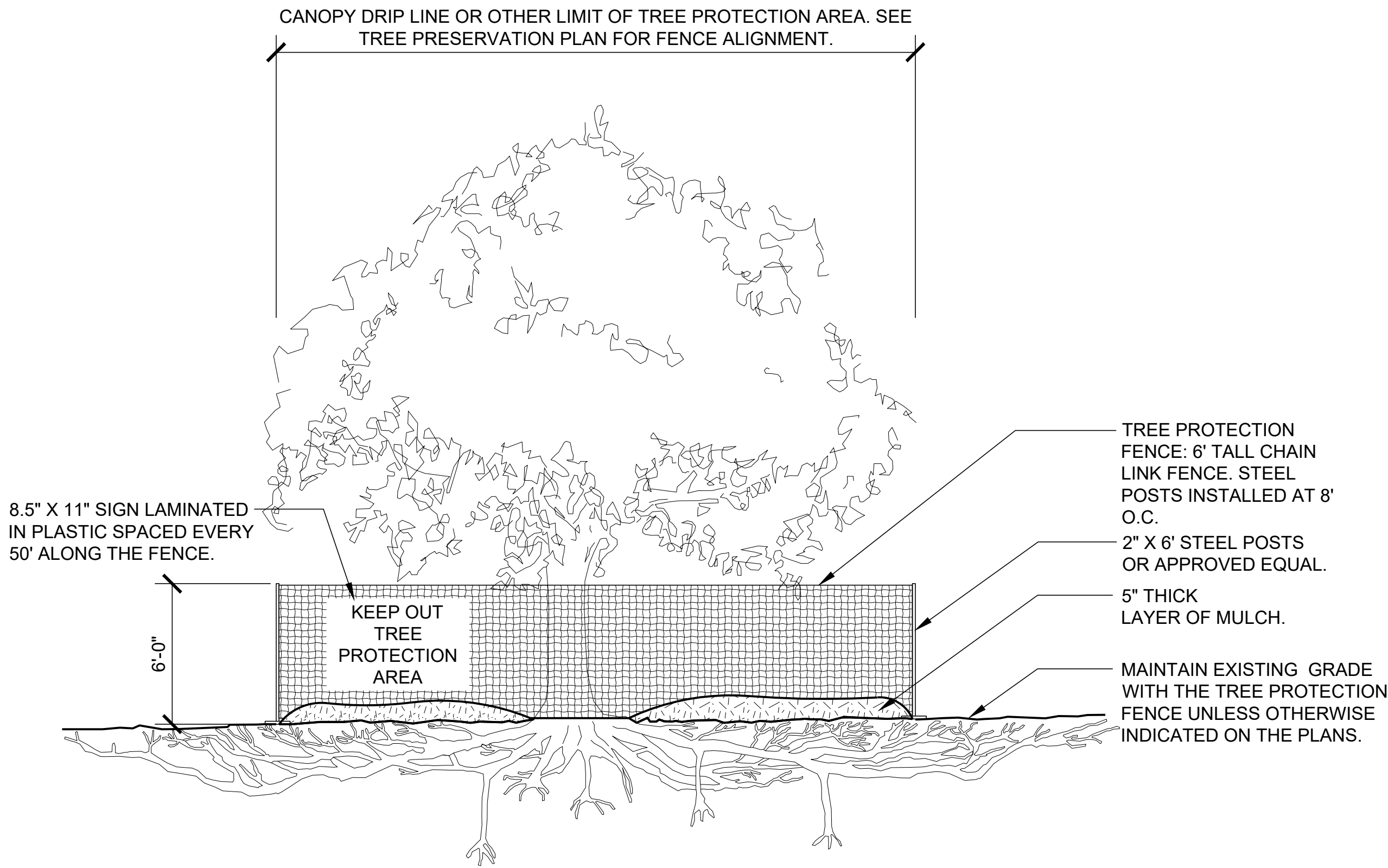
City Engineer

12/27/2024
Date

DA2024-0034
Job Number

Review is for general compliance with the City of Arvada
"Engineering Code of Standards and Specifications for the
Design and Construction of Public Improvements", latest edition.
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Engineer sealing these plans. The City does not accept liability
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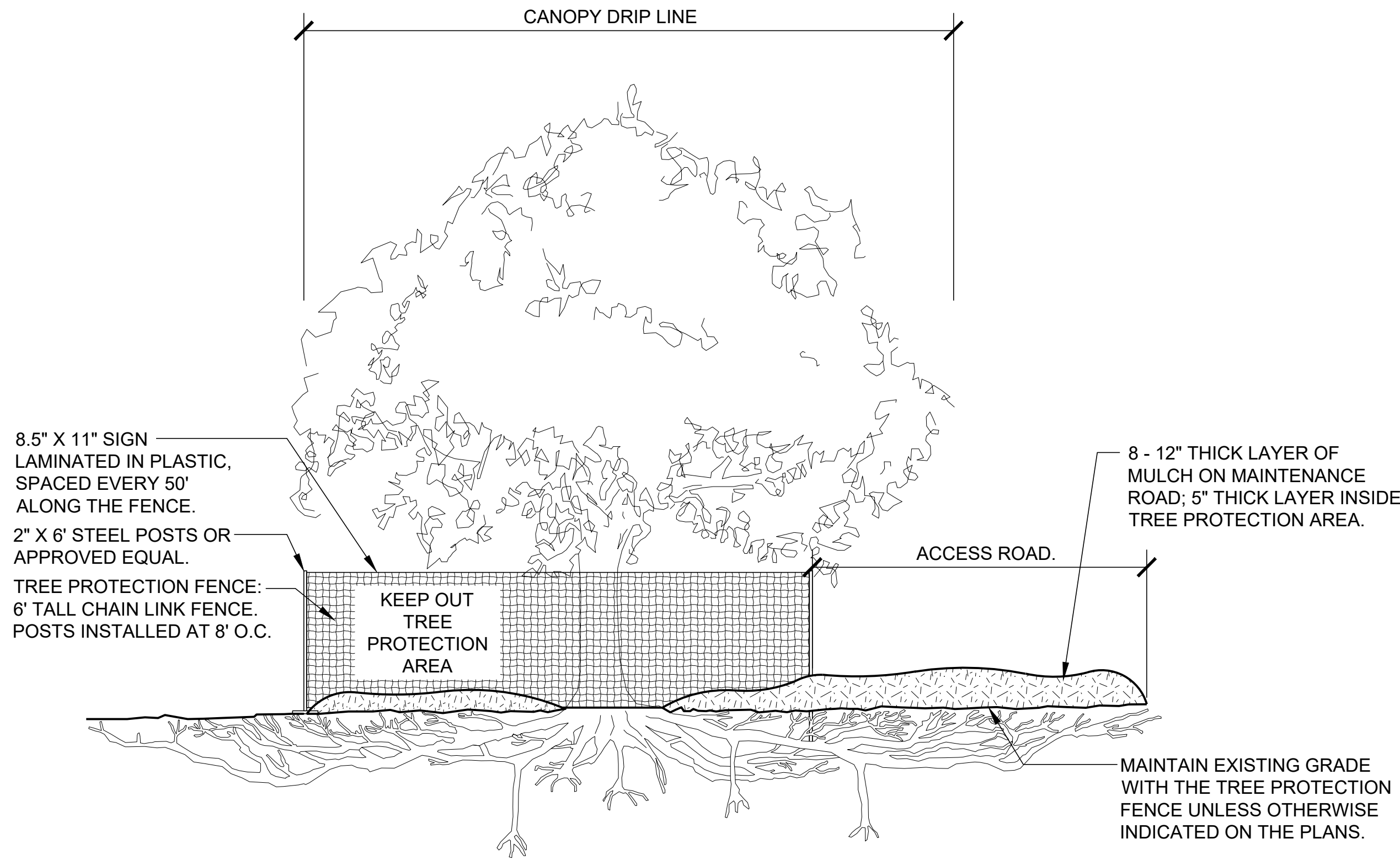
- NOTES:
1. CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR ALL CONSTRUCTION ACTIVITIES IN OR AROUND ANY ARVADA PARK OR RIGHT-OF-WAY LANDSCAPING.
 2. FENCING SHALL BE SET UP AT THE CANOPY DRIP LINE PRIOR TO ANY WORK ON THE SITE AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
 3. PROTECTION REQUIREMENTS SHALL EXTEND TO NEIGHBORING TREES OVERHANGING THE SITE.
 4. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
 5. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 6. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 7. NO STORAGE OF MATERIAL, TOPSOIL, VEHICLES, OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION ZONE.
 8. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PROTECTED TREES DURING CONSTRUCTION.
 10. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.



1 TREE PROTECTION
CITY STANDARD DETAIL

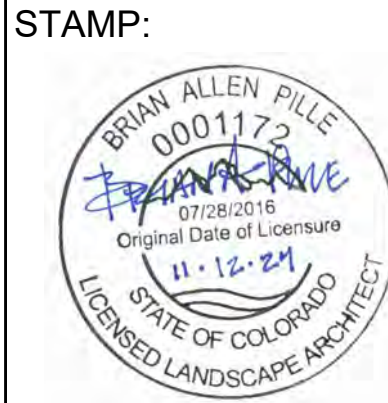
SCALE: 3/4" = 1'-0"

- NOTES:
1. CONTRACTOR SHALL PROVIDE TREE PROTECTION FOR ALL CONSTRUCTION ACTIVITIES IN OR ADJACENT TO ANY ARVADA PARK OR RIGHT-OF-WAY LANDSCAPING.
 2. FENCING SHALL BE INSTALLED AT THE CANOPY DRIP LINE PRIOR TO ANY ON-SITE WORK AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
 3. PROTECTION REQUIREMENTS SHALL EXTEND TO NEIGHBORING TREES OVERHANGING THE SITE.
 4. SEE SITE PREPARATION PLAN FOR ANY MODIFICATIONS WITH THE TREE PROTECTION AREA.
 5. NO PRUNING SHALL BE PERFORMED EXCEPT BY APPROVED ARBORIST.
 6. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
 7. NO STORAGE OF MATERIAL, TOPSOIL, VEHICLES, OR EQUIPMENT SHALL BE PERMITTED WITHIN THE TREE PROTECTION ZONE.
 8. IF THERE IS NO EXISTING IRRIGATION, SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO PROTECTED TREES DURING CONSTRUCTION.
 10. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.



2 TREE PROTECTION ADJACENT TO MAINTENANCE ROAD
CITY STANDARD DETAIL

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



SHEET TITLE:
TREE PROTECTION


CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

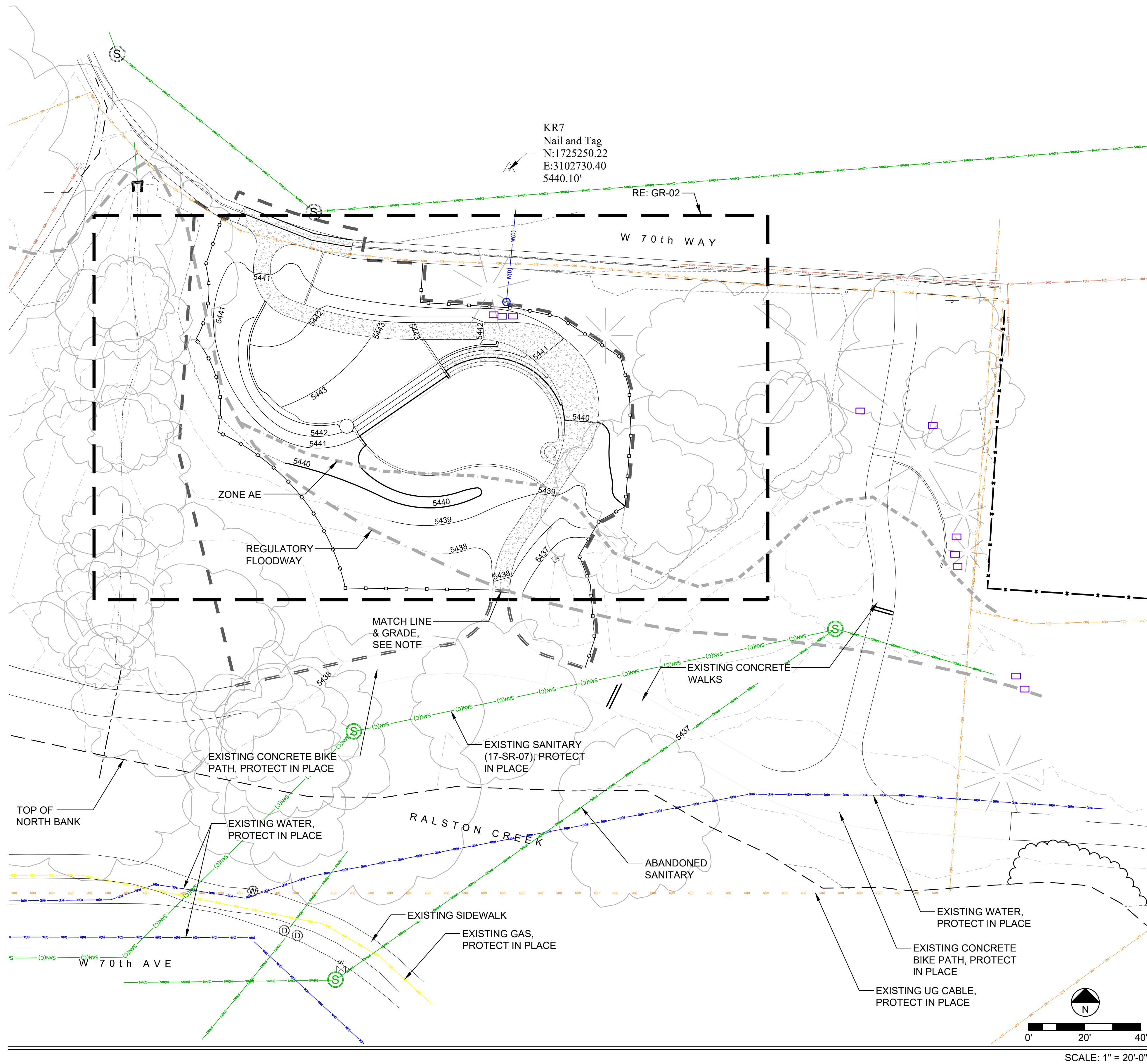
CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
DE-02



GRADING LEGEND

	LIMIT OF WORK, PLAYGROUND PROJECT
	EXISTING TREE
	TREE PROTECTION FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SPOT ELEVATION
	PLAYGROUND SUBDRAIN
	REGULATORY FLOODWAY
	ZONE AE
	T/P TOP OF POURED-IN-PLACE PLAY SURFACE
	T/C TOP OF CONCRETE
	T/W TOP OF WALL
	MLG MATCH LINE & GRADE
	HP HIGH POINT
	LP LOW POINT

GRADING NOTES

- SERVICE LINES BEING ABANDONED NEED TO BE REMOVED AND CAPPED AT THE MAIN.
- ABANDONMENT OR REMOVAL OF ALL PIPES AND APPURTENANCES MUST COMPLY WITH SECTION 332 OF THE CITY CODE.
- SECTIONS OF SIDEWALK BEING REMOVED / REPLACED NEED TO BE REMOVED AND REPLACED TO THE NEAREST JOINT.
- SEE N/E TABLE ON SHEET LA-02.
- MATCH LINE AND GRADE NORTH OF RALSTON CREEK TRAIL AND SOUTH OF THE PLAYGROUND. GRADE SET BY SANITARY SEWER PROJECT, NO. 17-SR-07. CONTRACTOR TO CONFIRM ELEVATIONS, PRIOR TO COMMENCING WORK.

UTILITY LEGEND

	E(D)	ELECTRICITY
	C(B)	COMMUNICATION
	G(B)	GAS
	SAW(C)	SANITARY
	W(D)	STORMWATER
	IRR(C)	IRRIGATION

STAMP:



SHEET TITLE:

OVERALL GRADING PLAN



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

GR-01



Know what's below.
Call before you dig.



UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

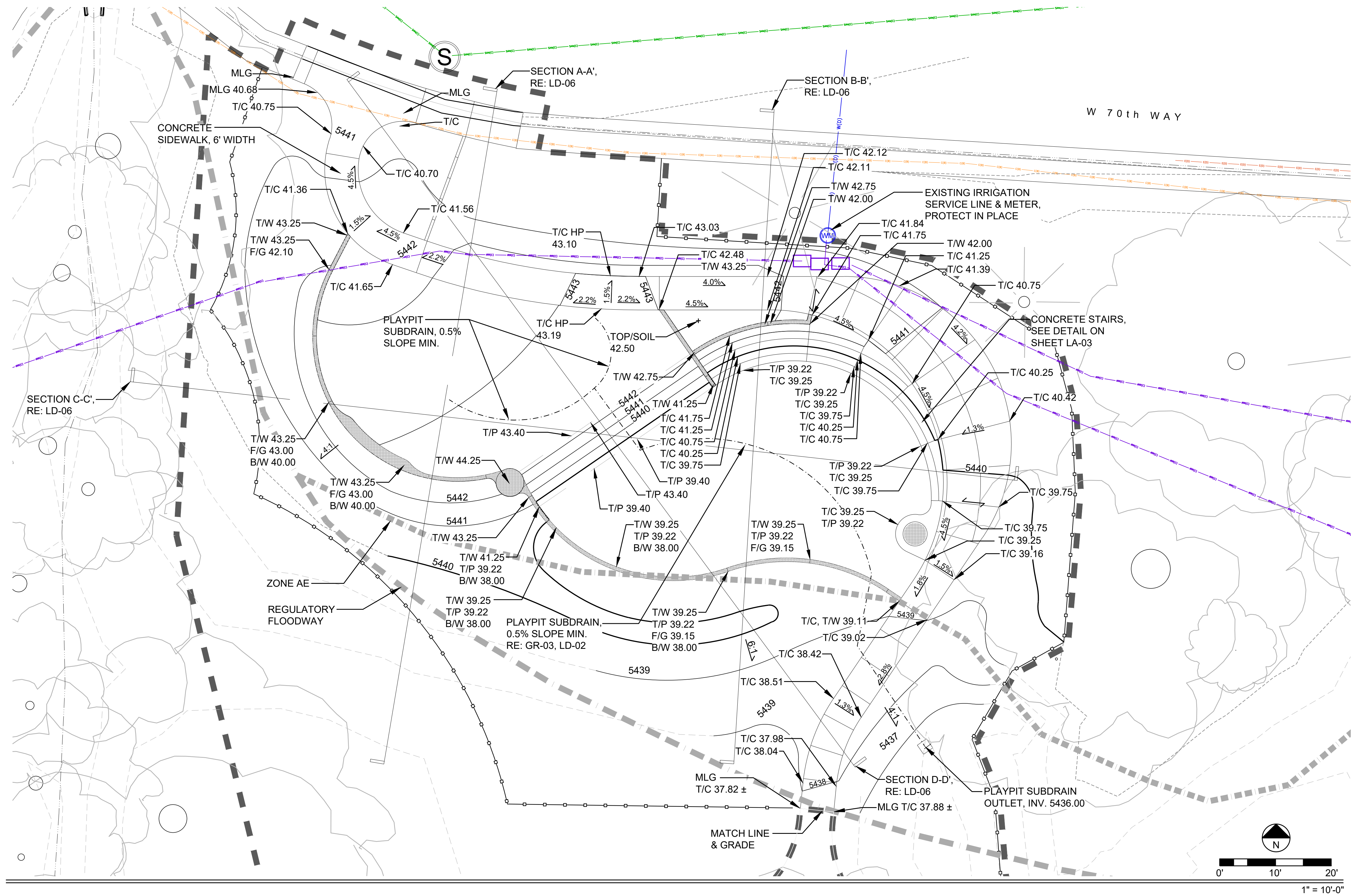
APPROVED:

City Engineer

12/27/2024
Date

DA2024-0034
Job Number

Review is for general compliance with the City of Arvada
"Engineering Code of Standards and Specifications for the
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GRADING LEGEND

	LIMIT OF WORK, PLAYGROUND PROJECT
	EXISTING TREE
	TREE PROTECTION FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SPOT ELEVATION
	PLAYGROUND SUBDRAIN
	REGULATORY FLOODWAY
	ZONE AE
	T/P
	T/C
	T/W
	MLG
	HP
	LP
	F/G

UTILITY LEGEND

	E(D)	ELECTRICITY
	C(B)	COMMUNICATION
	G(B)	GAS
	SAN(C)	SANITARY
	W(D)	STORMWATER
	IRR(C)	IRRIGATION

GRADING NOTES

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- MAXIMUM WALL HEIGHT TO NOT EXCEED 23" OVER FINISH GRADE.

STAMP:



SHEET TITLE:

ENLARGED GRADING PLAN



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

GR-02



Know what's below.
Call before you dig.



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UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
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MARKING OF UNDERGROUND MEMBER UTILITIES

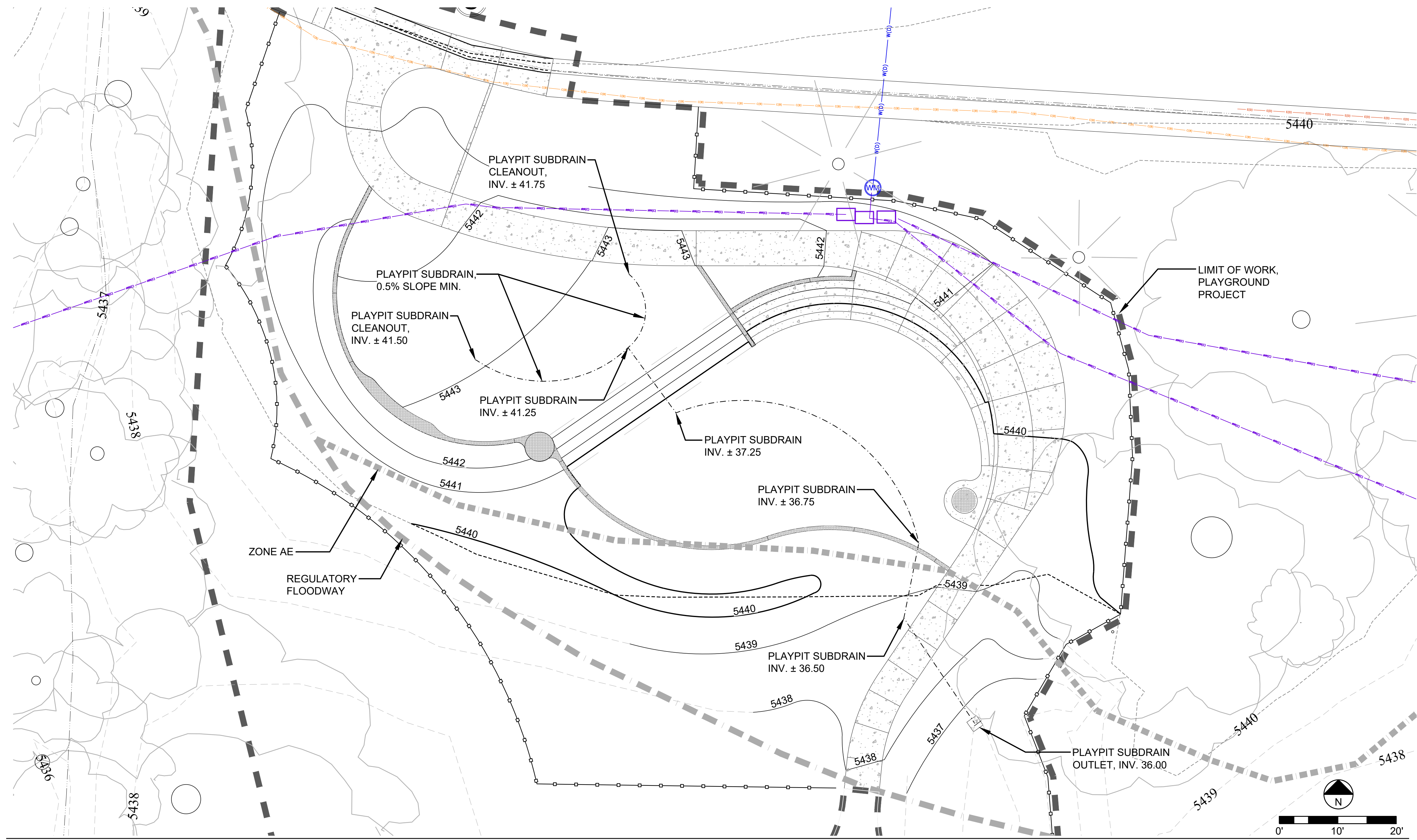
APPROVED:

City Engineer

12/27/2024
Date

DA2024-0034
Job Number

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GRADING LEGEND

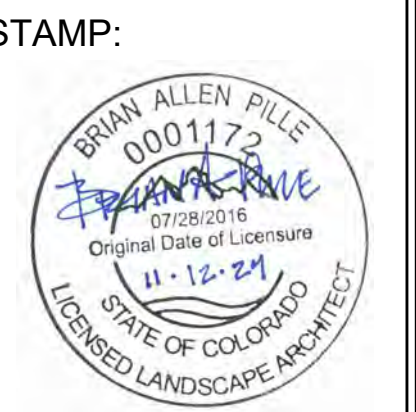
	LIMIT OF WORK, PLAYGROUND PROJECT
	EXISTING TREE
	TREE PROTECTION FENCE
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	SPOT ELEVATION
	PLAYGROUND SUBDRAIN
	REGULATORY FLOODWAY
	ZONE AE
	T/P TOP OF POURED-IN-PLACE PLAY SURFACE
	T/C TOP OF CONCRETE
	T/W TOP OF WALL
	MLG MATCH LINE & GRADE
	HP HIGH POINT
	LP LOW POINT
	F/G FINISH GRADE

UTILITY LEGEND

	ELECTRICITY
	COMMUNICATION
	GAS
	SANITARY
	STORMWATER
	IRRIGATION

GRADING NOTES

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- MAXIMUM WALL HEIGHT TO NOT EXCEED 23" OVER FINISH GRADE.



SHEET TITLE:
PLAYGROUND
SUBDRAINAGE PLAN

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:
BG

DRAWN BY:
JL

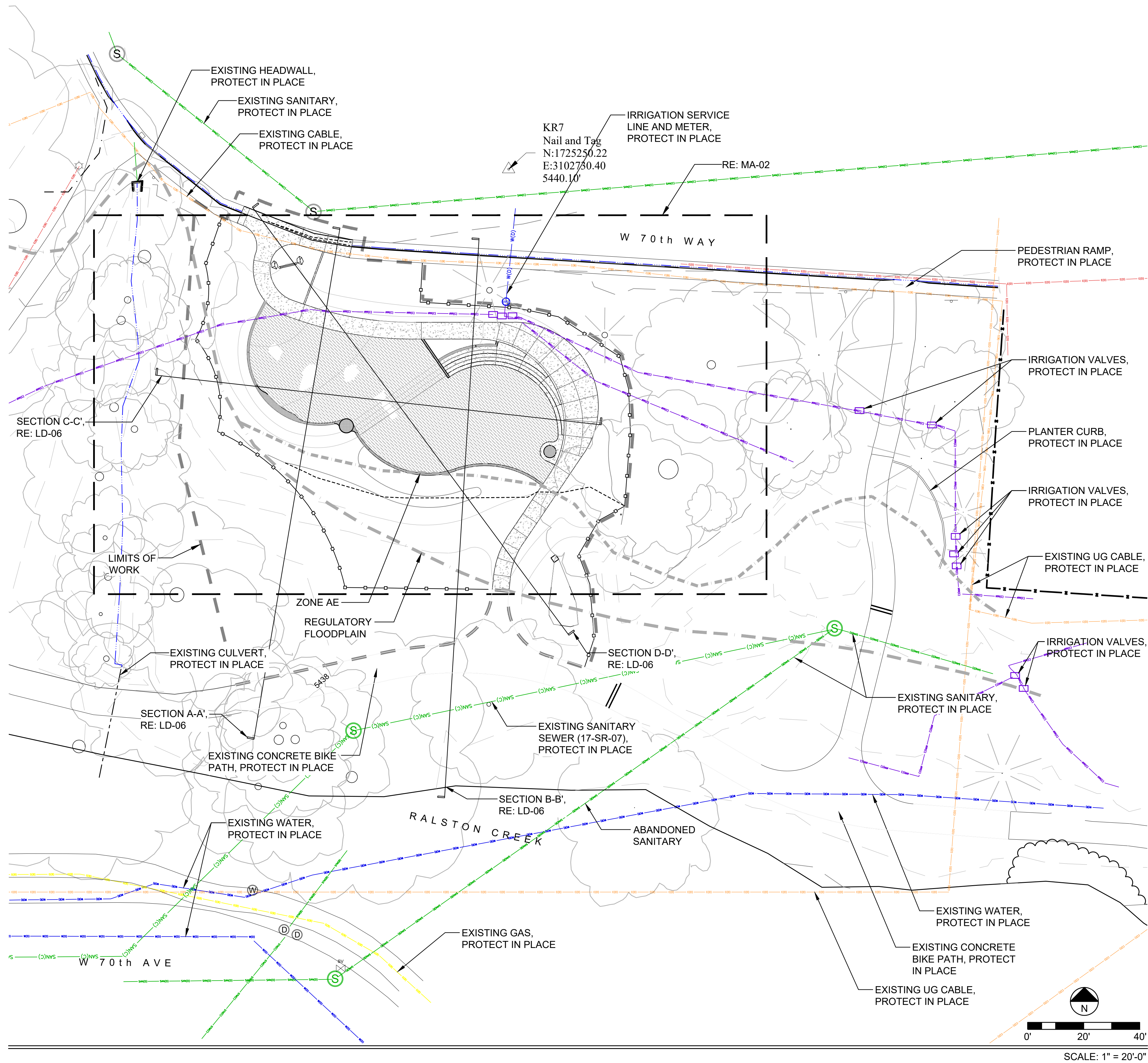
CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
GR-03



- MATERIAL LEGEND**
- LIMIT OF WORK
 - CONCRETE
 - CONCRETE WALL OR PLINTH
 - POURED-IN-PLACE PLAY SURFACE
 - TREE PROTECTION FENCE

- UTILITY LEGEND**
- E(D) — E(D) — ELECTRICITY
 - C(B) — C(B) — COMMUNICATION
 - G(B) — G(B) — GAS
 - SAN(C) — SANITARY
 - W(D) — W(D) — STORMWATER
 - IRR(C) — IRRIGATION



SHEET TITLE:
OVERALL MATERIALS PLAN

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

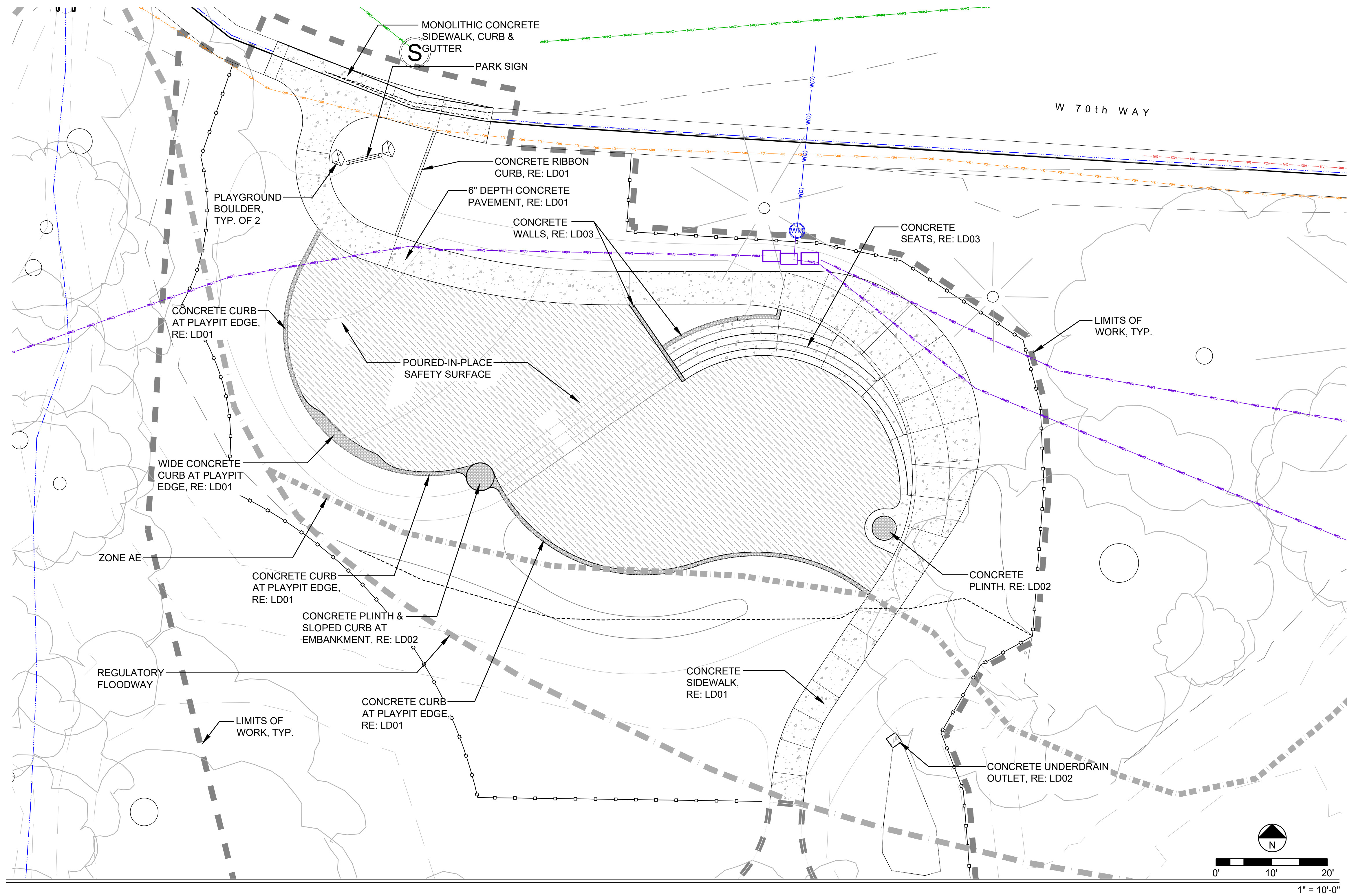
REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

MA-01

APPROVED:
CEL VJ
City Engineer
12/27/2024
Date
DA2024-0034
Job Number
Review is for general compliance with the City of Arvada
"Engineering Code of Standards and Specifications for the
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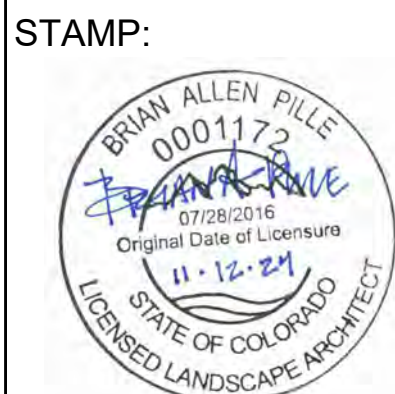
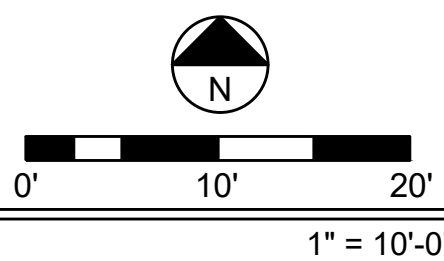


MATERIAL LEGEND

- LIMIT OF WORK
- CONCRETE
- CONCRETE WALL OR PLINTH
- POURED-IN-PLACE PLAY SURFACE
- TREE PROTECTION FENCE
- PLAYGROUND BOULDER

UTILITY LEGEND

- E(D) — E(D) — ELECTRICITY
- C(B) — C(B) — COMMUNICATION
- G(B) — G(B) — GAS
- SAN(C) — SAN(C) — SANITARY
- W(D) — W(D) — STORMWATER
- IRR(C) — IRR(C) — IRRIGATION



SHEET TITLE:
**ENLARGED MATERIALS
PLAN**

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

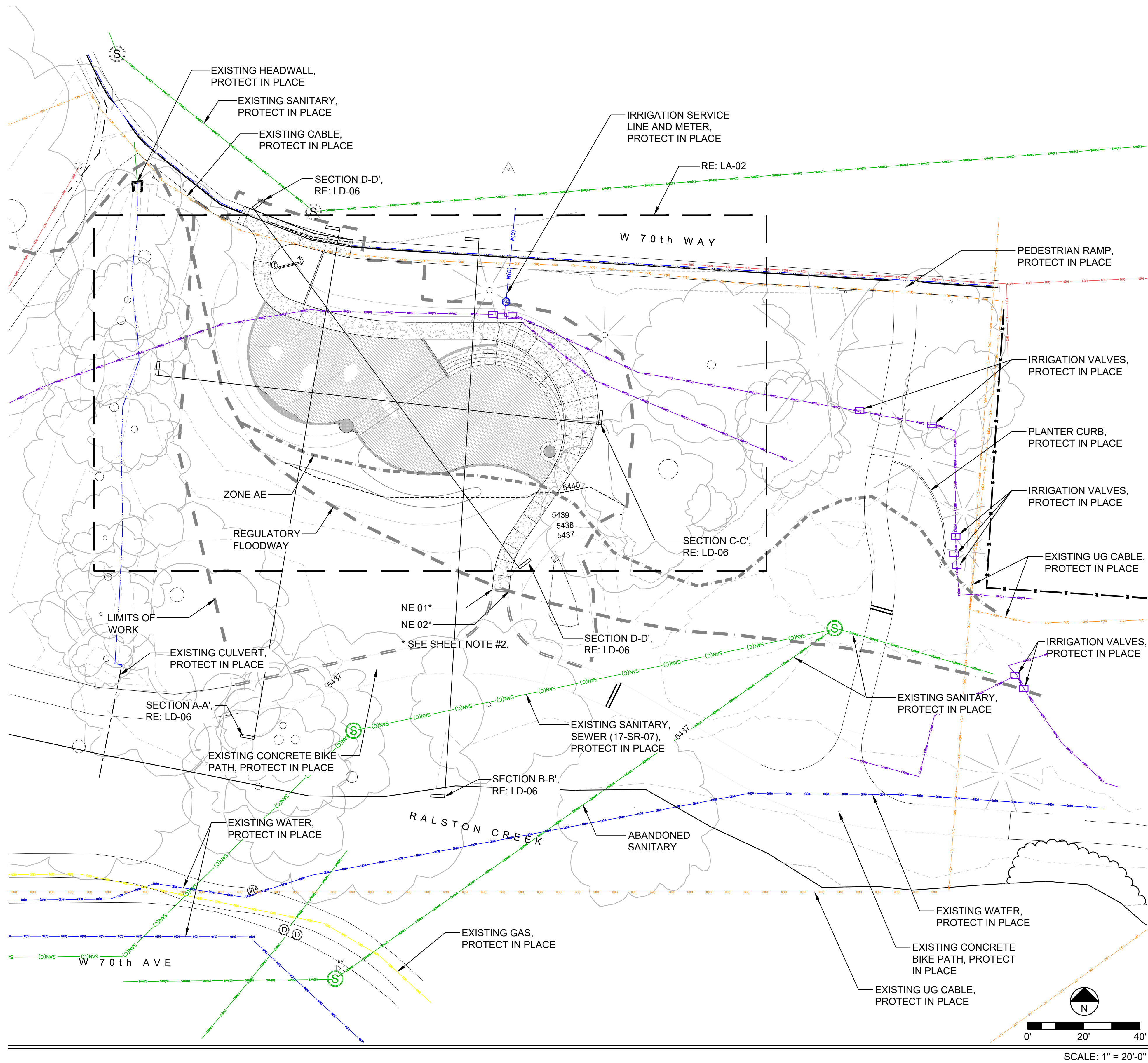
DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

MA-02



LAYOUT LEGEND

- LIMIT OF WORK
- CONCRETE
- CONCRETE WALL OR PLINTH
- POURED-IN-PLACE PLAY SURFACE
- TREE PROTECTION FENCE
- PLAYGROUND BOULDER

UTILITY LEGEND

- E(D) — E(D) — ELECTRICITY
- C(B) — C(B) — COMMUNICATION
- G(B) — G(B) — GAS
- SAN(C) — SAN(C) — SANITARY
- W(D) — W(D) — STORMWATER
- IRR(C) — IRR(C) — IRRIGATION

LAYOUT NOTES

- FOR NORTHING/EASTING TABLES SEE SHEET LA-02.
- N/E 01 AND N/E 02 HAVE BEEN CONSTRUCTED UNDER THE SANITARY SEWER PROJECT, NO. 17-SR-07. CONTRACTOR TO CONFIRM LOCATION AND ELEVATION OF THESE TWO POINTS, PRIOR TO COMMENCING WORK. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE CITY OF ARVADA PROJECT MANAGER.

STAMP:



SHEET TITLE:
OVERALL LAYOUT PLAN

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

LA-01



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CENTER OF COLORADO

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MARKING OF UNDERGROUND MEMBER UTILITIES

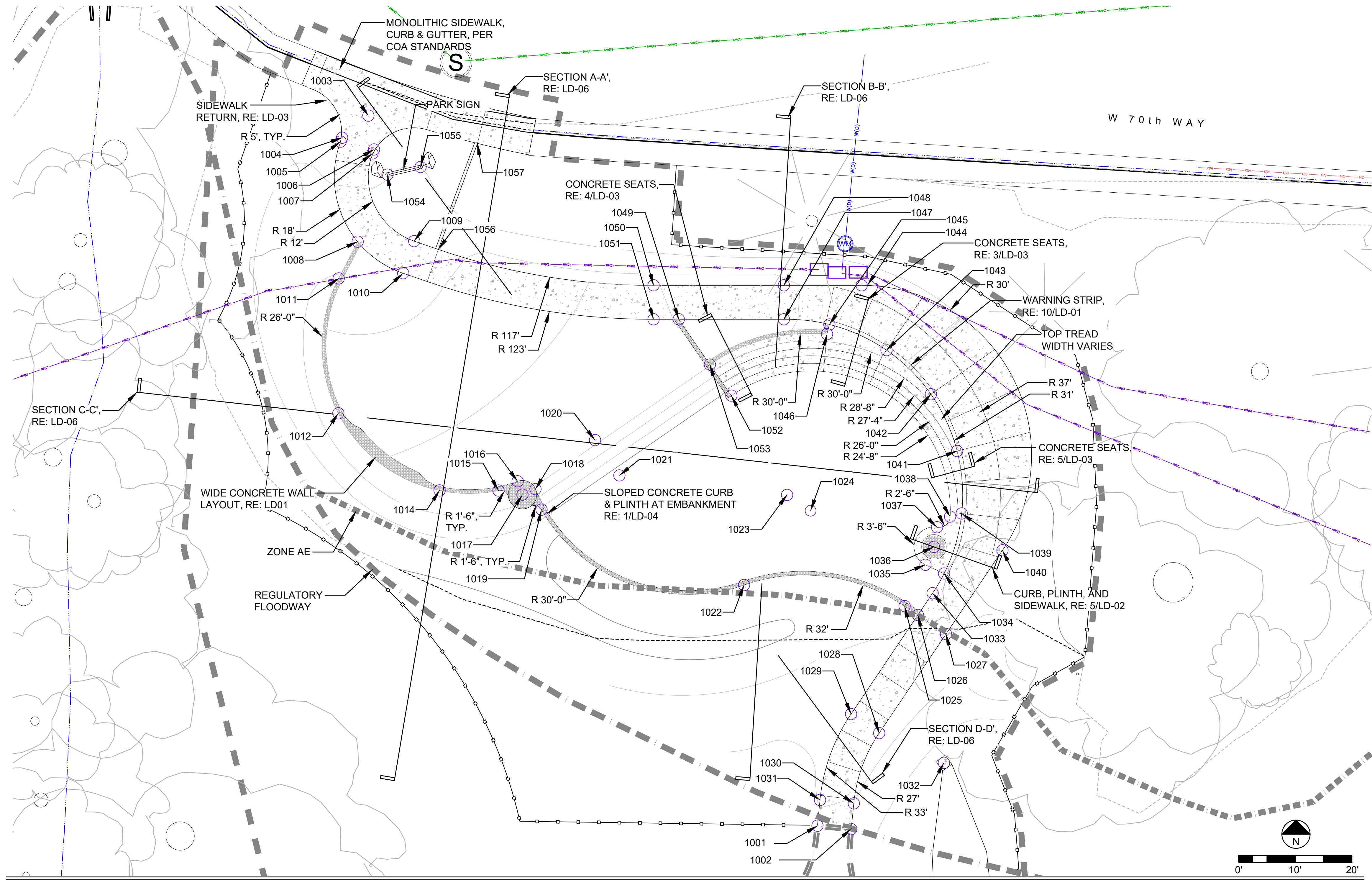
APPROVED:

Brian Pille
DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

1-13-2025
DATE

DA2024-0034
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA
"ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR
THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS",
LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS
AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH
THE REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY
FOR FACILITIES DESIGNED BY OTHERS.



LAYOUT LEGEND

- LIMIT OF WORK
- CONCRETE
- CONCRETE WALL OR PLINTH
- POURED-IN-PLACE PLAY SURFACE
- TREE PROTECTION FENCE
- PLAYGROUND BOULDER

UTILITY LEGEND

- E(D) — ELECTRICITY
- C(B) — COMMUNICATION
- G(B) — GAS
- SAN(C) — SANITARY
- W(D) — STORMWATER
- IRR(C) — IRRIGATION

LAYOUT NOTES

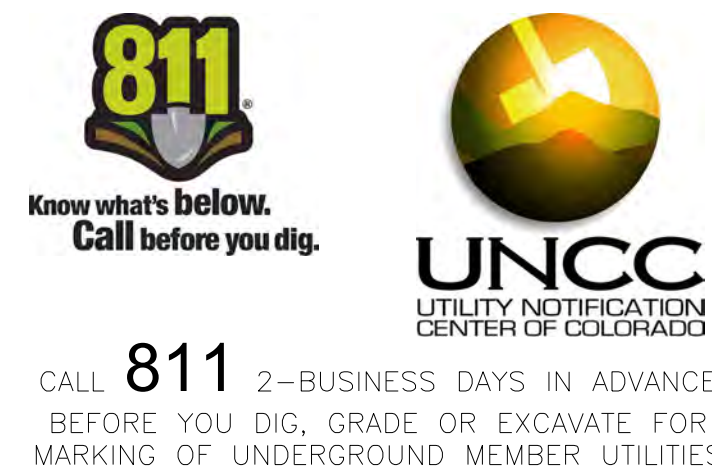
1 N/E 01 AND N/E 02 HAVE BEEN CONSTRUCTED UNDER THE SANITARY SEWER PROJECT, NO. 17-SR-07. CONTRACTOR TO CONFIRM LOCATION AND ELEVATION OF THESE TWO POINTS, PRIOR TO COMMENCING WORK. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE CITY OF ARVADA PROJECT MANAGER.

LAYOUT NORTHINGS & EASTINGS

NO.	NORTHING	EASTING	NOTES
1001	1725100.22	3102724.56	SIDEWALK, SOUTH LIMITS OF WORK
1002	1725099.62	3102730.53	SIDEWALK, SOUTH LIMITS OF WORK
1003	1725225.58	3102645.25	SIDEWALK, NORTH LIMITS OF WORK
1004	1725221.68	3102640.62	PLAYGROUND SIDEWALK
1005	1725220.99	3102640.36	PLAYGROUND SIDEWALK
1006	1725219.61	3102646.25	PLAYGROUND SIDEWALK
1007	1725218.92	3102645.99	PLAYGROUND SIDEWALK
1008	1725203.32	3102643.37	PLAYGROUND SIDEWALK / PLAYPIT WALL
1009	1725203.43	3102653.36	PLAYGROUND SIDEWALK
1010	1725197.75	3102651.41	PLAYGROUND SIDEWALK
1011	1725196.85	3102640.02	PLAYPIT WALL
1012	1725173.03	3102639.96	PLAYPIT WALL
1013	n/a	n/a	not used
1014	1725159.42	3102657.84	PLAYPIT WALL
1015	1725159.39	3102668.24	PLAYPIT WALL / PLINTH
1016	1725161.02	3102671.63	PLINTH
1017	1725158.67	3102672.47	PLINTH
1018	1725159.64	3102674.77	PLINTH
1019	1725156.00	3102675.84	PLAYPIT WALL / PLINTH
1020	1725168.30	3102685.28	TOP OF SLIDE

1021	1725162.06	3102689.58	BOTTOM OF SLIDE
1022	1725142.71	3102711.59	PLAYPIT WALL
1023	1725158.62	3102719.19	CENTER OF RADII, SIDEWALK EDGE
1024	1725155.82	3102723.34	CENTER OF RADII, STEPS
1025	1725139.00	3102739.94	PLAYPIT WALL
1026	1725137.42	3102642.29	PLAYPIT WALL / PLAYGROUND SIDEWALK
1027	1725134.06	3102747.26	PLAYGROUND SIDEWALK
1028	1725116.57	3102735.47	PLAYGROUND SIDEWALK
1029	1725119.93	3102730.49	PLAYGROUND SIDEWALK
1030	1725104.17	3102730.98	PLAYGROUND SIDEWALK
1031	1725104.77	3102725.01	PLAYGROUND SIDEWALK
1032	1725111.32	3102746.90	PLAYGROUND SUBDRAIN OUTLET
1033	1725141.28	3102744.90	PLAYGROUND SIDEWALK
1034	1725144.74	3102746.92	PLAYGROUND SIDEWALK / STAIR EDGE
1035	1725146.28	3102743.63	STAIR EDGE / POURED-IN-PLACE
1036	1725149.45	3102745.12	CENTER OF PLINTH
1037	1725152.91	3102745.67	STAIR EDGE / POURED-IN-PLACE
1038	1725154.80	3102747.99	STAIR EDGE / POURED-IN-PLACE
1039	1725155.34	3102750.02	PLAYGROUND SIDEWALK / TOP OF STAIR
1040	1725148.84	3102757.23	PLAYGROUND SIDEWALK

1041	1725166.36	3102749.21	PLAYGROUND SIDEWALK / TOP OF STAIR
1042	1725176.40	3102744.59	PLAYGROUND SIDEWALK / TOP OF STAIR
1043	1725184.18	3102736.74	PLAYGROUND SIDEWALK / TOP OF STAIR
1044	1725195.62	3102732.36	PLAYGROUND SIDEWALK
1045	1725188.71	3102726.67	PLAYGROUND SIDEWALK / PLANTER WALL
1046	1725187.02	3102726.25	PLANTER WALL / TOP OF STAIR
1047	1725189.62	3102718.63	PLAYGROUND SIDEWALK
1048	1725195.62	3102718.63	PLAYGROUND SIDEWALK
1049	1725189.62	3102700.07	PLAYGROUND SIDEWALK / PLANTER WALL
1050	1725195.62	3102695.63	PLAYGROUND SIDEWALK
1051	1725189.62	3102695.63	PLAYGROUND SIDEWALK
1052	1725176.14	3102709.35	PLANTER WALL EXTENSION
1053	1725181.63	3102705.57	PLANTER WALL / STAIRS
1054	1725215.17	3102648.63	ENTRY SIGN POST CENTER
1055	1725216.51	3102654.48	ENTRY SIGN POST CENTER
1056	1725215.17	3102648.63	CONCRETE RIBBON CURB
1057	1725216.51	3102654.48	CONCRETE RIBBON CURB



APPROVED:

DIRECTOR OF VIBRANT COMMUNITY & NEIGHBORHOODS

1-13-2025
DATE

DA2024-0034
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

STUDIO CPG
Landscape Architecture & Planning
4383 TENNYSON ST #1A
DENVER, CO 80212
303.455.3779
WWW.STUDIOCPG.COM

STAMP:

SHEET TITLE:
ENLARGED LAYOUT PLAN

CITY OF ARVADA
PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:
BG

DRAWN BY:
JL

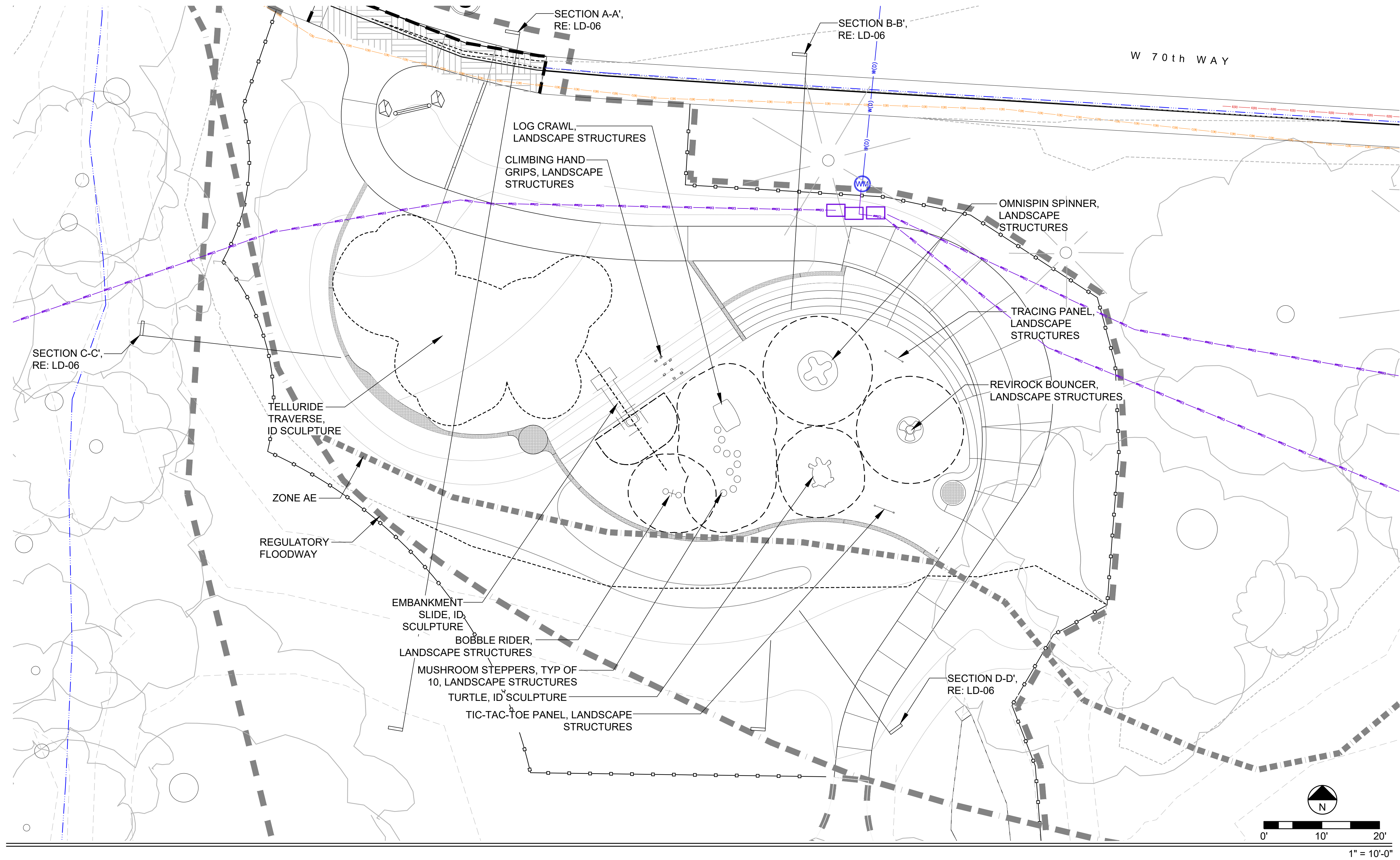
CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
LA-02



LAYOUT LEGEND

- LIMIT OF WORK
- CONCRETE
- CONCRETE WALL OR PLINTH

UTILITY LEGEND

- E(D) — E(D) — ELECTRICITY
- C(B) — C(B) — COMMUNICATION
- G(B) — G(B) — GAS
- SAN(C) — SAN(C) — SANITARY
- W(D) — W(D) — STORMWATER
- IRR(C) — IRR(C) — IRRIGATION

PLAY EQUIPMENT SCHEDULE

ITEM	QTY	MANUFACTURER	PRODUCT NAME
1	1	LANDSCAPE STRUCTURES	LOG CRAWL TUNNEL
2	1	LANDSCAPE STRUCTURES	REVIROCK BOUNCER
3	10	LANDSCAPE STRUCTURES	MUSHROOM STEPPER 8"
4	5	LANDSCAPE STRUCTURES	MUSHROOM STEPPER 16"
5	1	LANDSCAPE STRUCTURES	OMNISPIN
6	1	LANDSCAPE STRUCTURES	TRACING PANEL
7	1	LANDSCAPE STRUCTURES	TIC-TAC-TOE PANEL
8	1	LANDSCAPE STRUCTURES	DOUBLE BOBBLE RIDER
9	1	LANDSCAPE STRUCTURES	HAND GRIPS, SET OF 10
10	1	ID SCULPTURE	TELLURIDE TRAVERSE
11	1	ID SCULPTURE	PAINTED TURTLE
12	1	ID SCULPTURE	EMBANKMENT SLIDE

STAMP:



SHEET TITLE: PLAYGROUND EQUIPMENT LAYOUT PLAN



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

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NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

LA-03



Know what's below.
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UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES

APPROVED:

Brian Pille
DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

1-13-2025
DATE

DA2024-0034
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA
"ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR
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LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS
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SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY
FOR FACILITIES DESIGNED BY OTHERS.

STAMP:



SHEET TITLE:

LANDSCAPE DETAILS

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

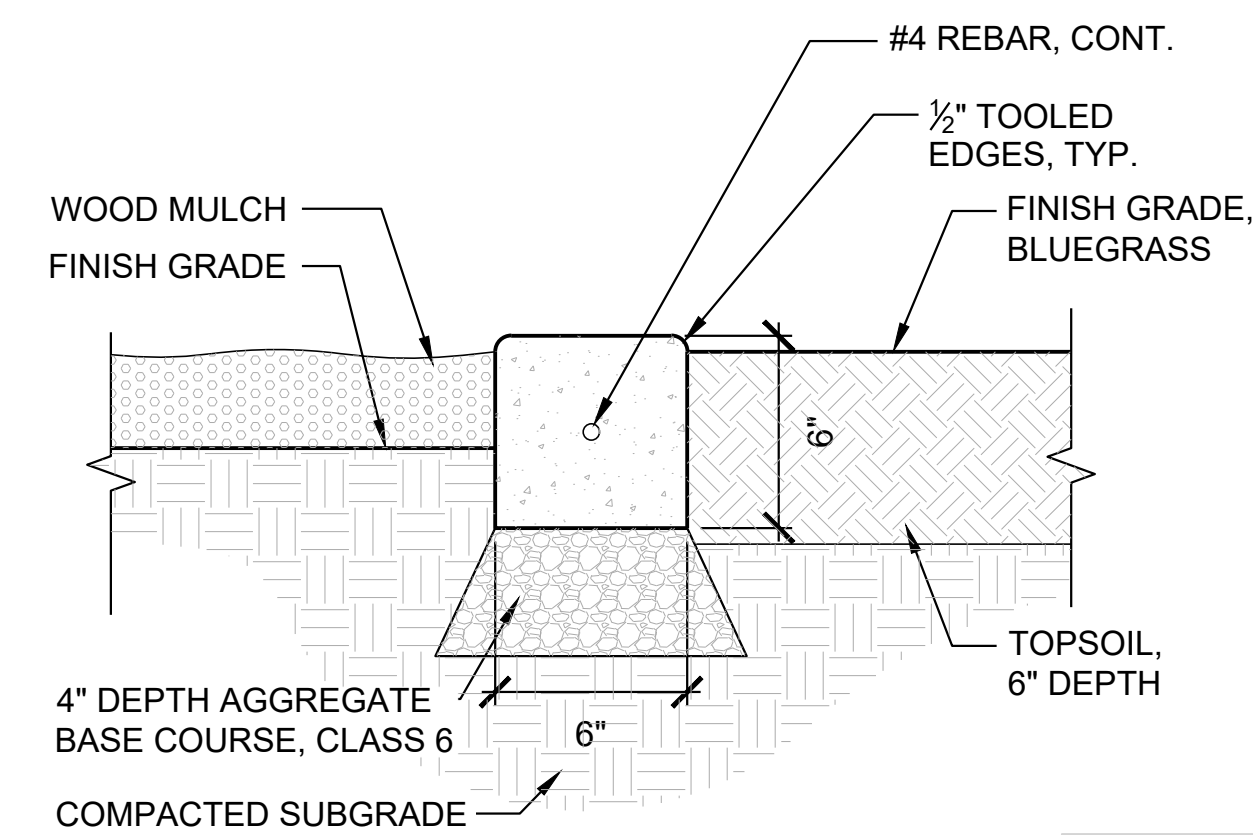
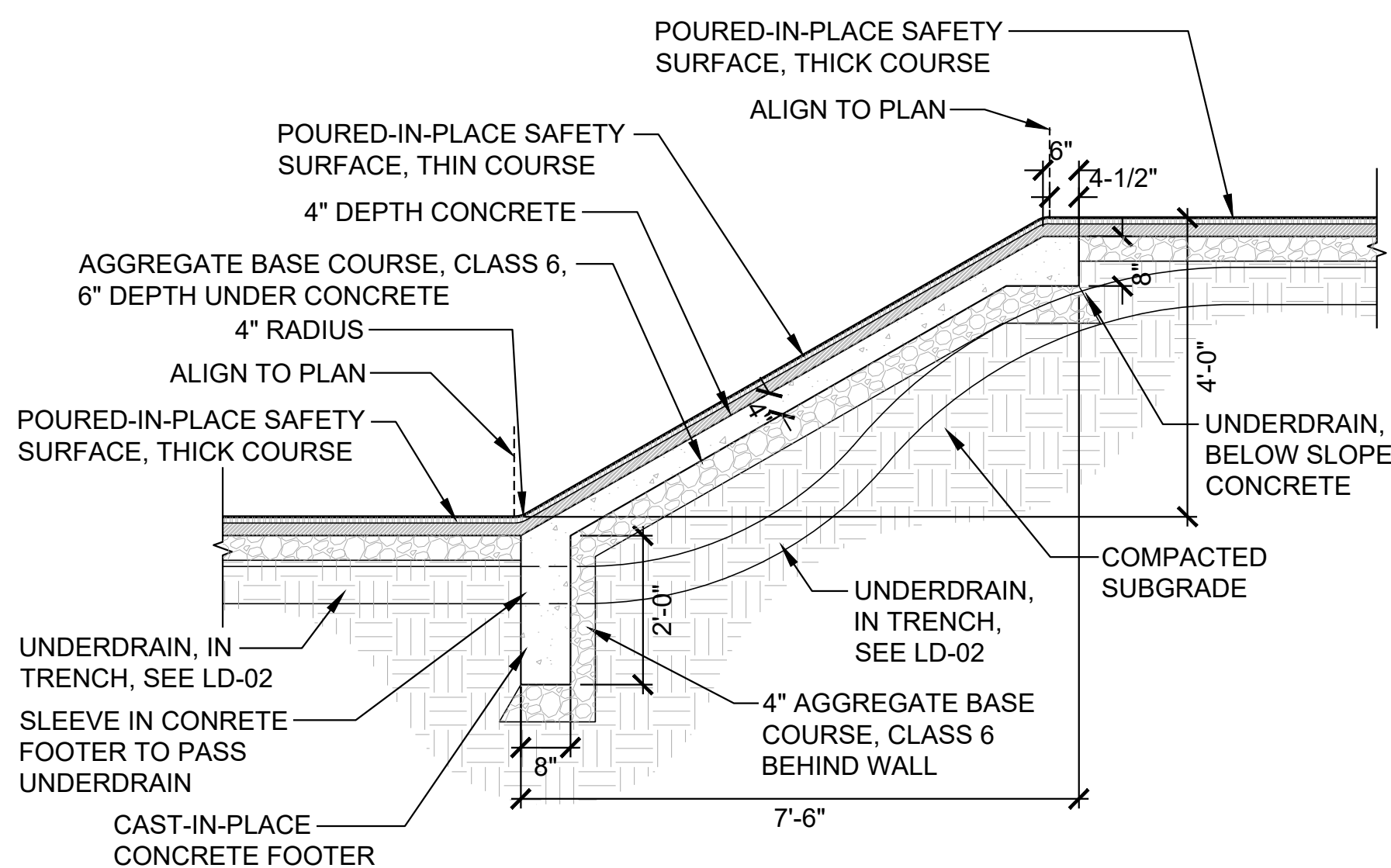
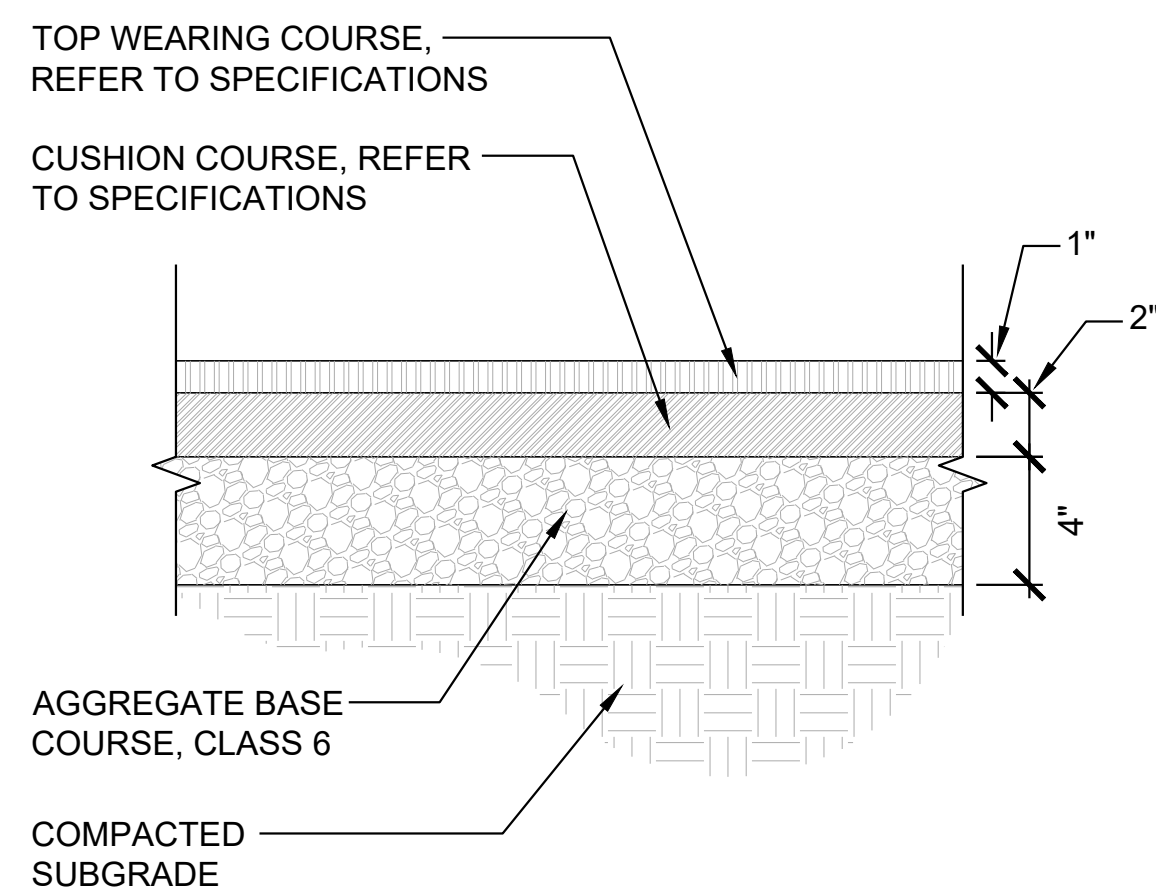
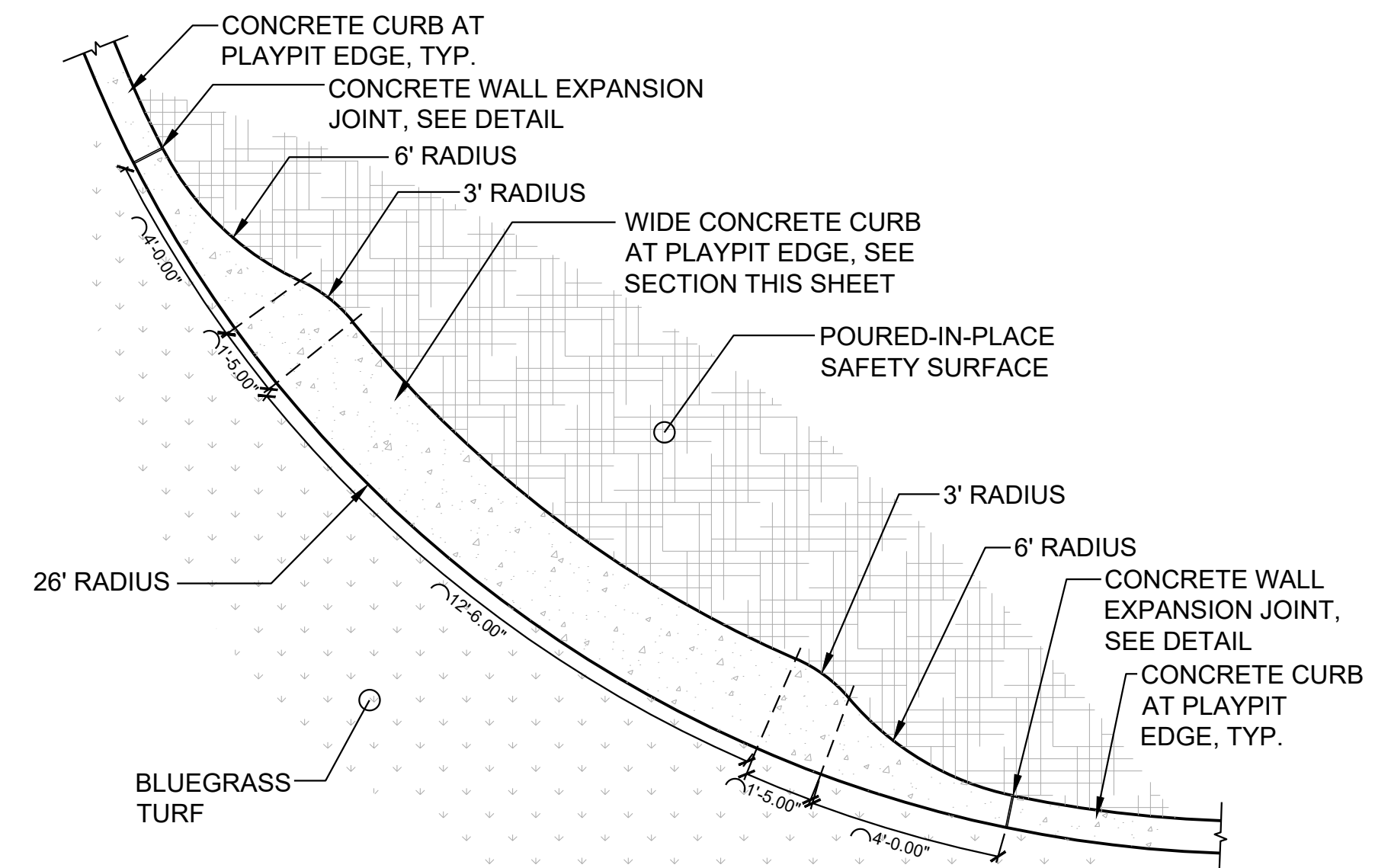
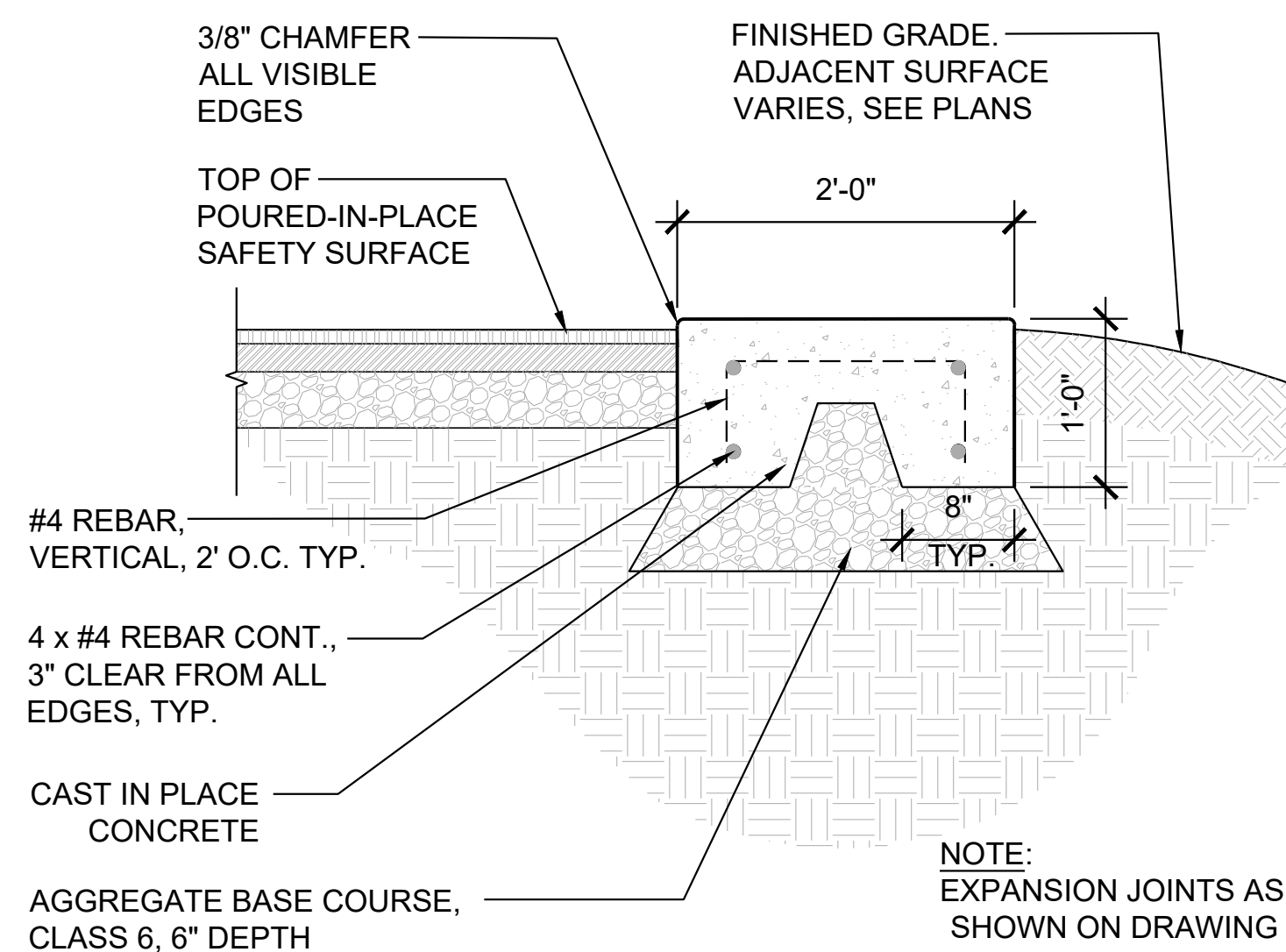
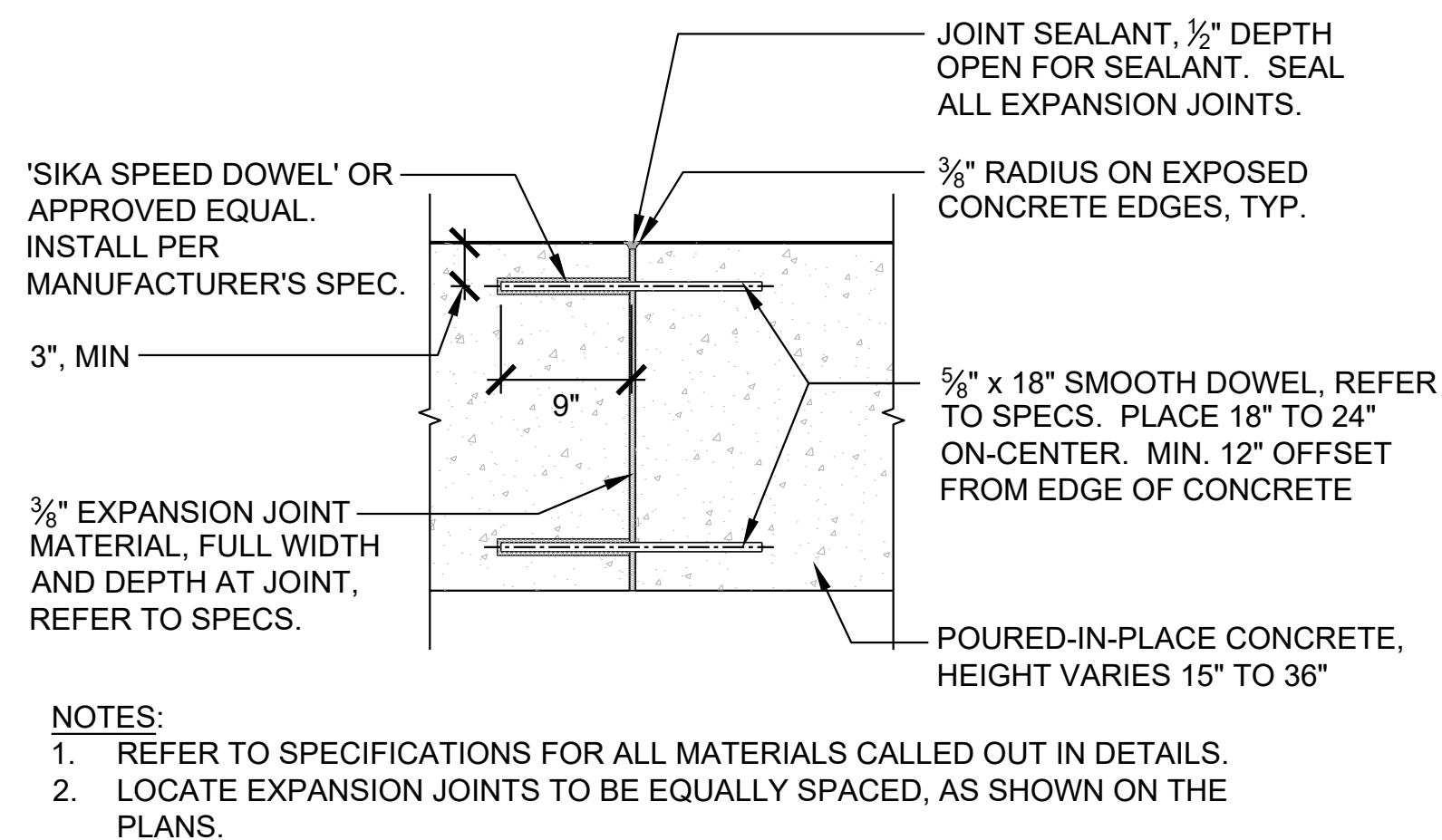
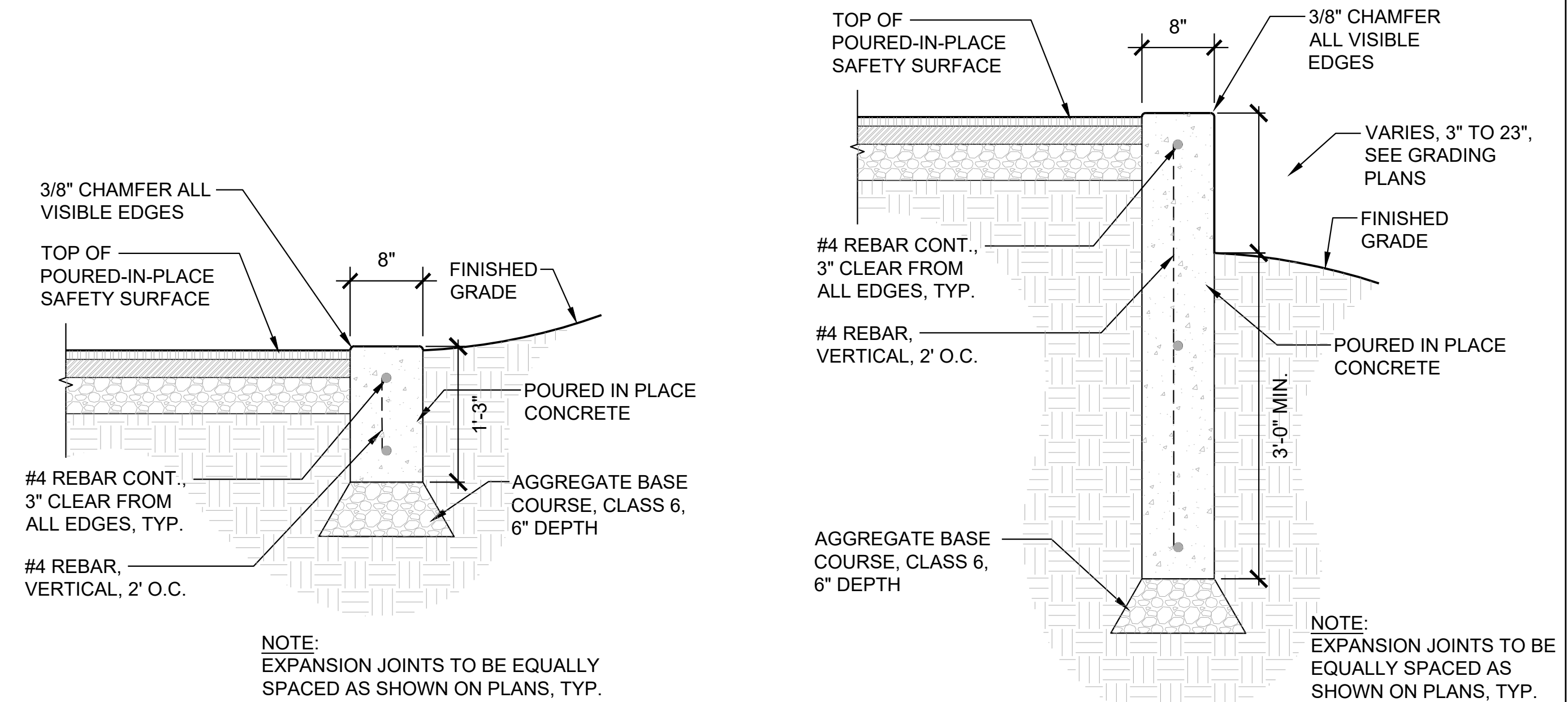
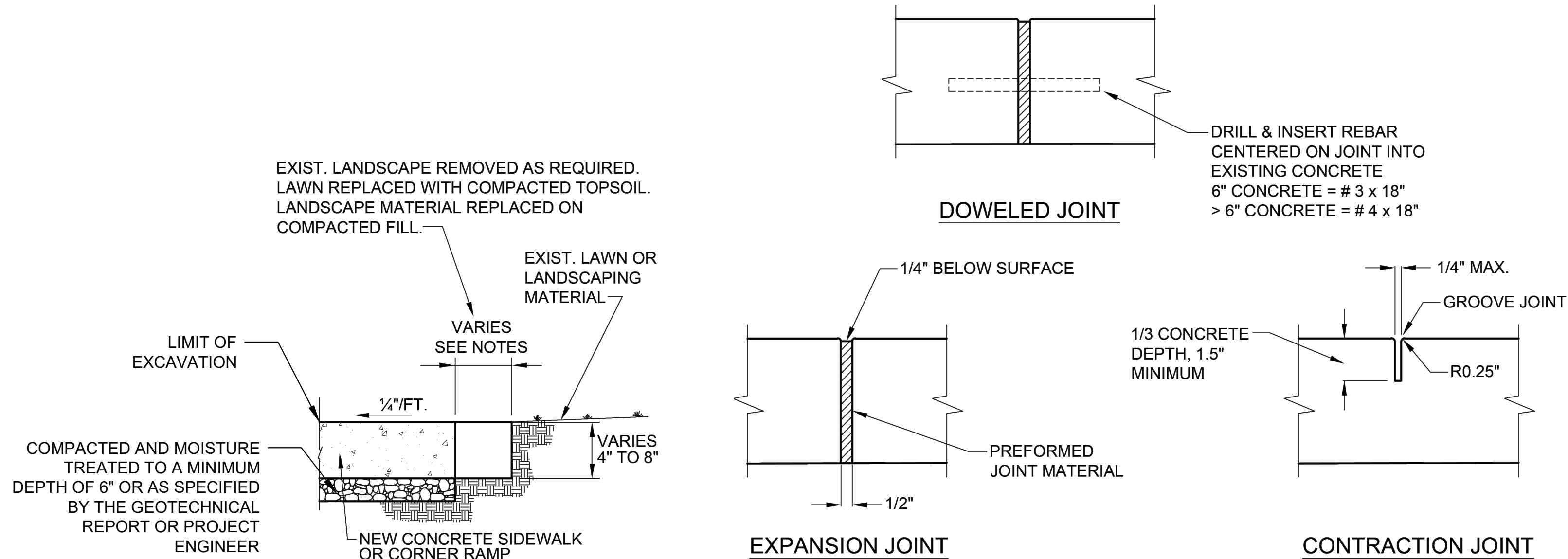
SCALE: AS NOTED

DESIGNED BY:
BGDRAWN BY:
JLCHECKED BY:
BPDATE:
NOVEMBER, 2024REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

LD-01



- 4,000 PSI CONCRETE WITH FIBER MESH.
- PROVIDE SAW-CUT OR HAND-TOOLED CONTROL JOINTS AT 4'-0" O.C. MAXIMUM SPACING.
- REBAR TO BE INSTALLED 2" MINIMUM FROM ALL EDGES.
- ALL REBAR TO BE EPOXY COATED.

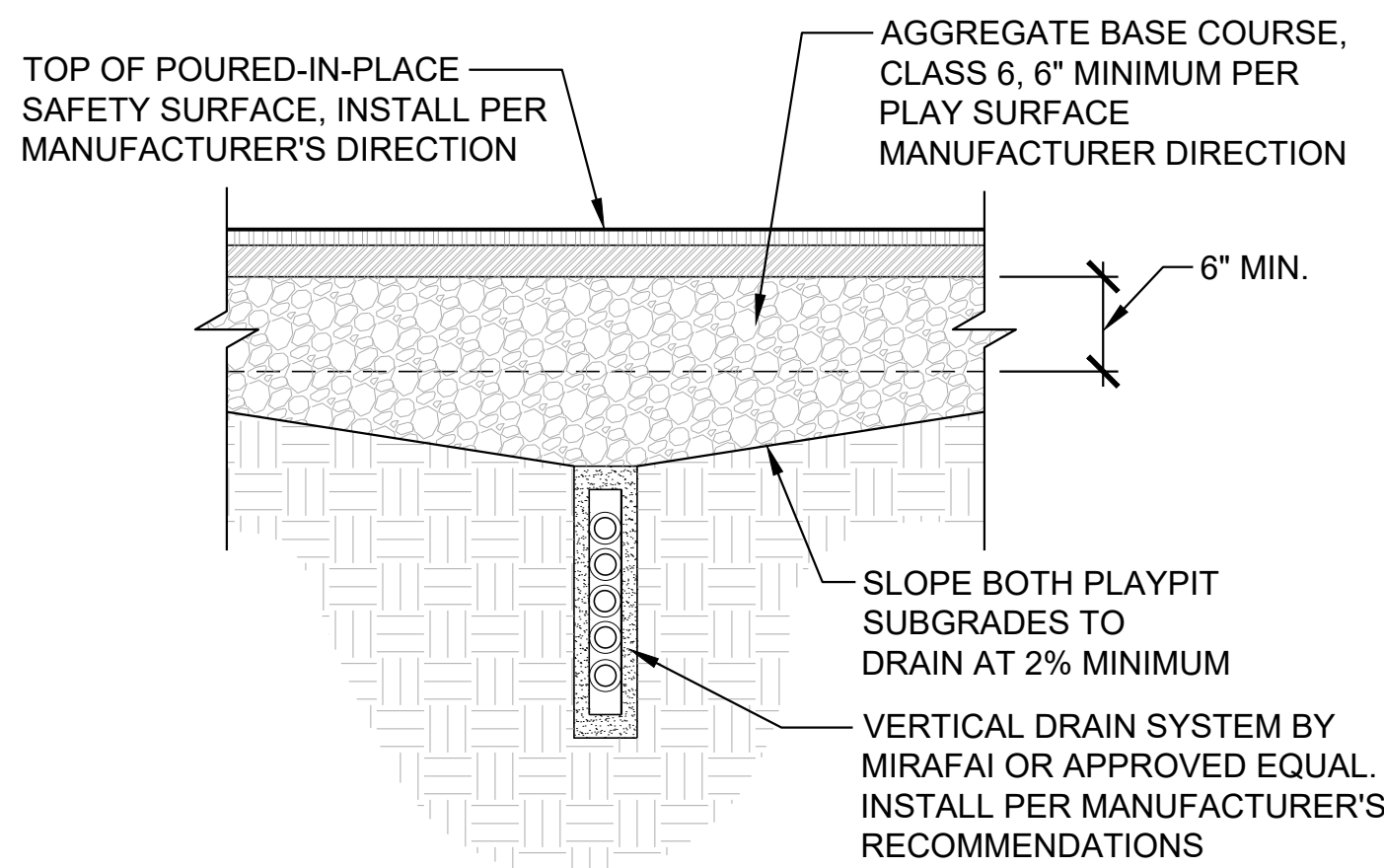
APPROVED:

City Engineer

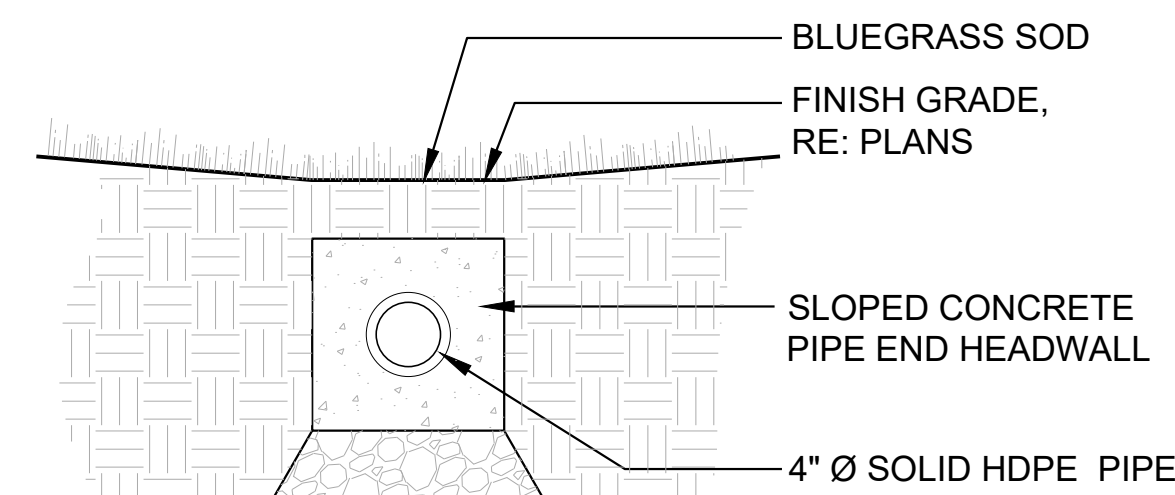
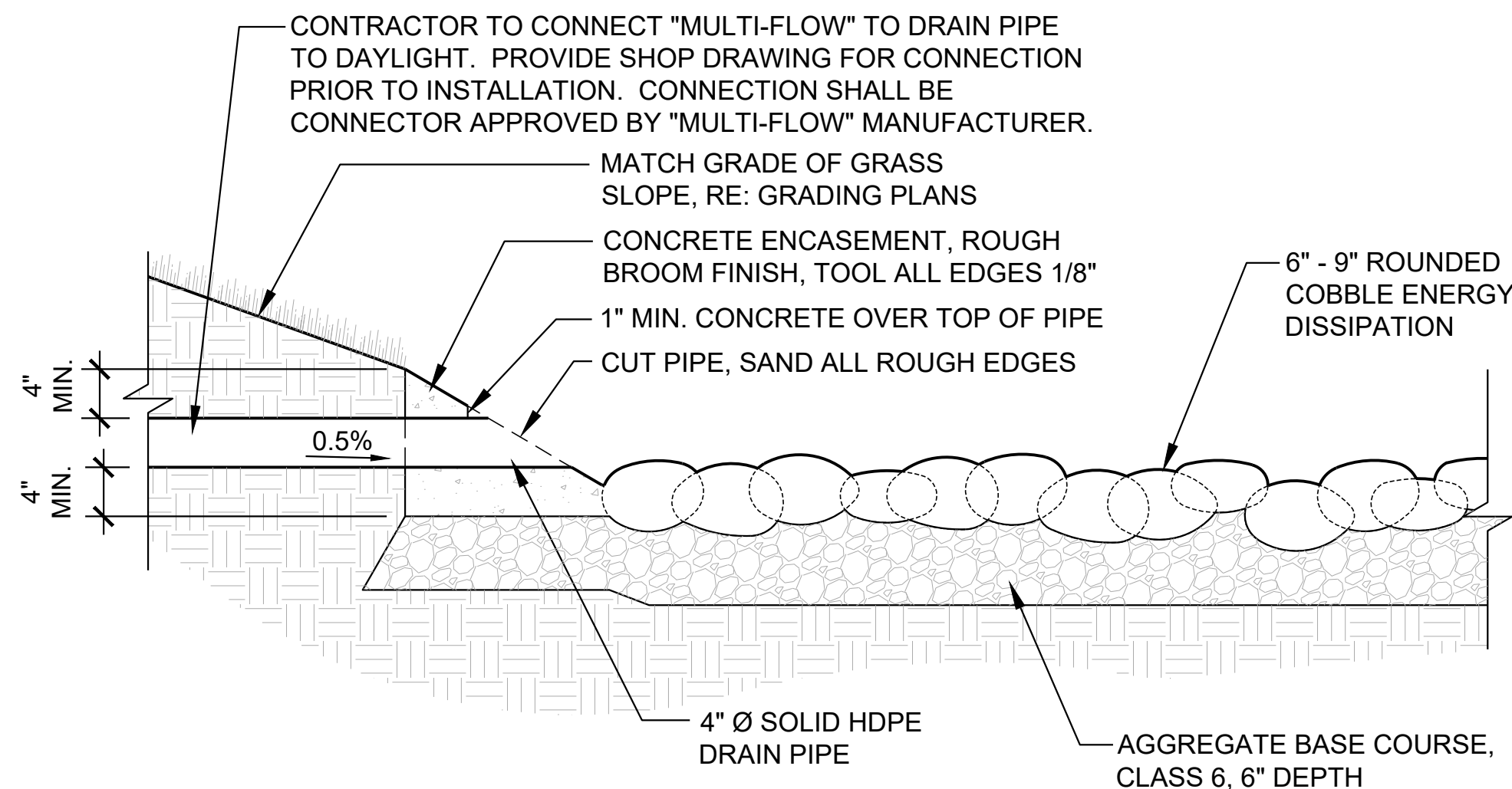
12/27/2024
DateDA2024-0034
Job Number

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UTILITY NOTIFICATION
CENTER OF COLORADOCALL 811 2-BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE FOR
MARKING OF UNDERGROUND MEMBER UTILITIES



- NOTES:
1. REFER TO SPECIFICATIONS FOR ALL PRODUCTS AND MATERIALS.
 2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

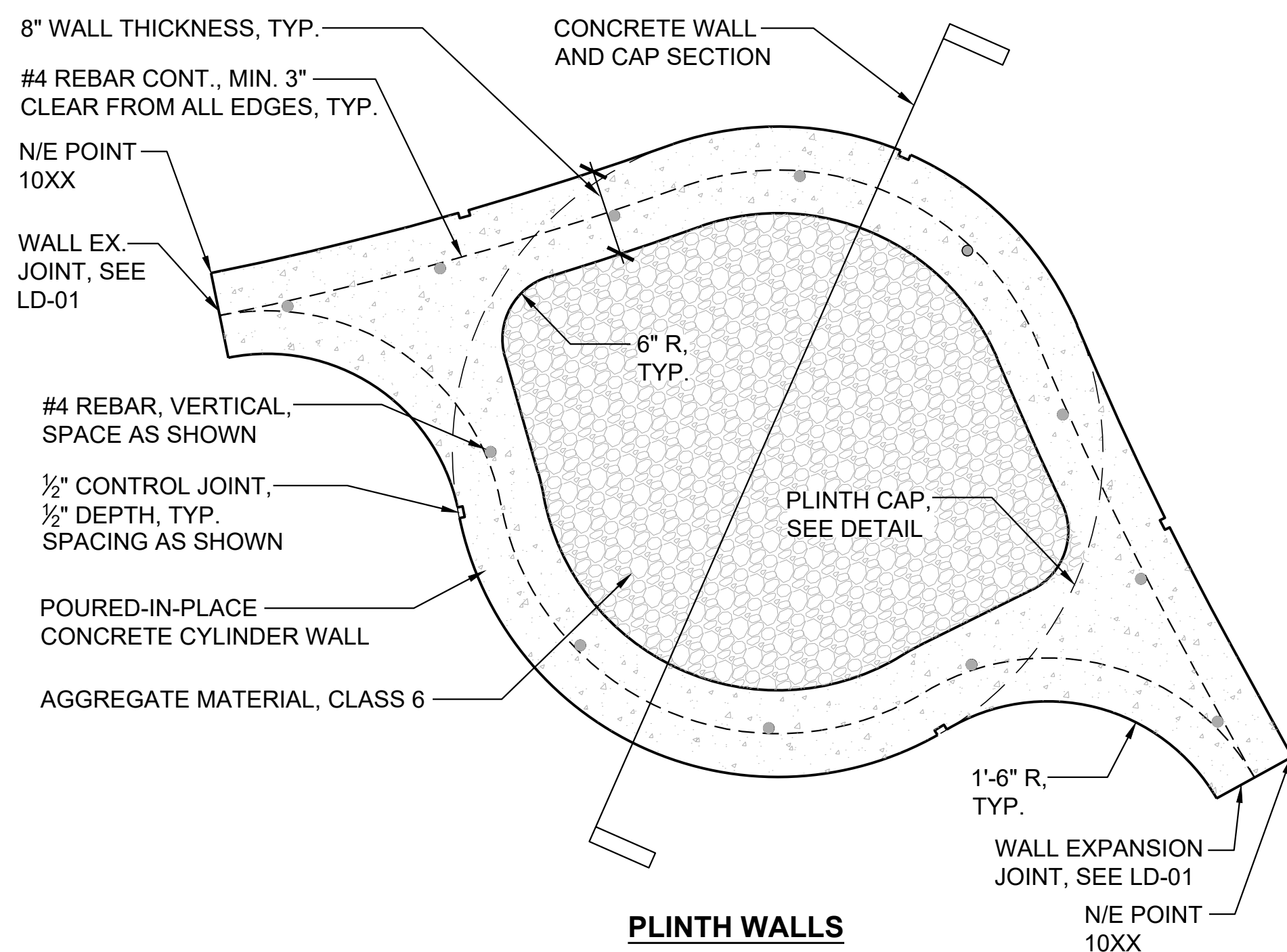


1 PLAYPIT SUBDRAIN

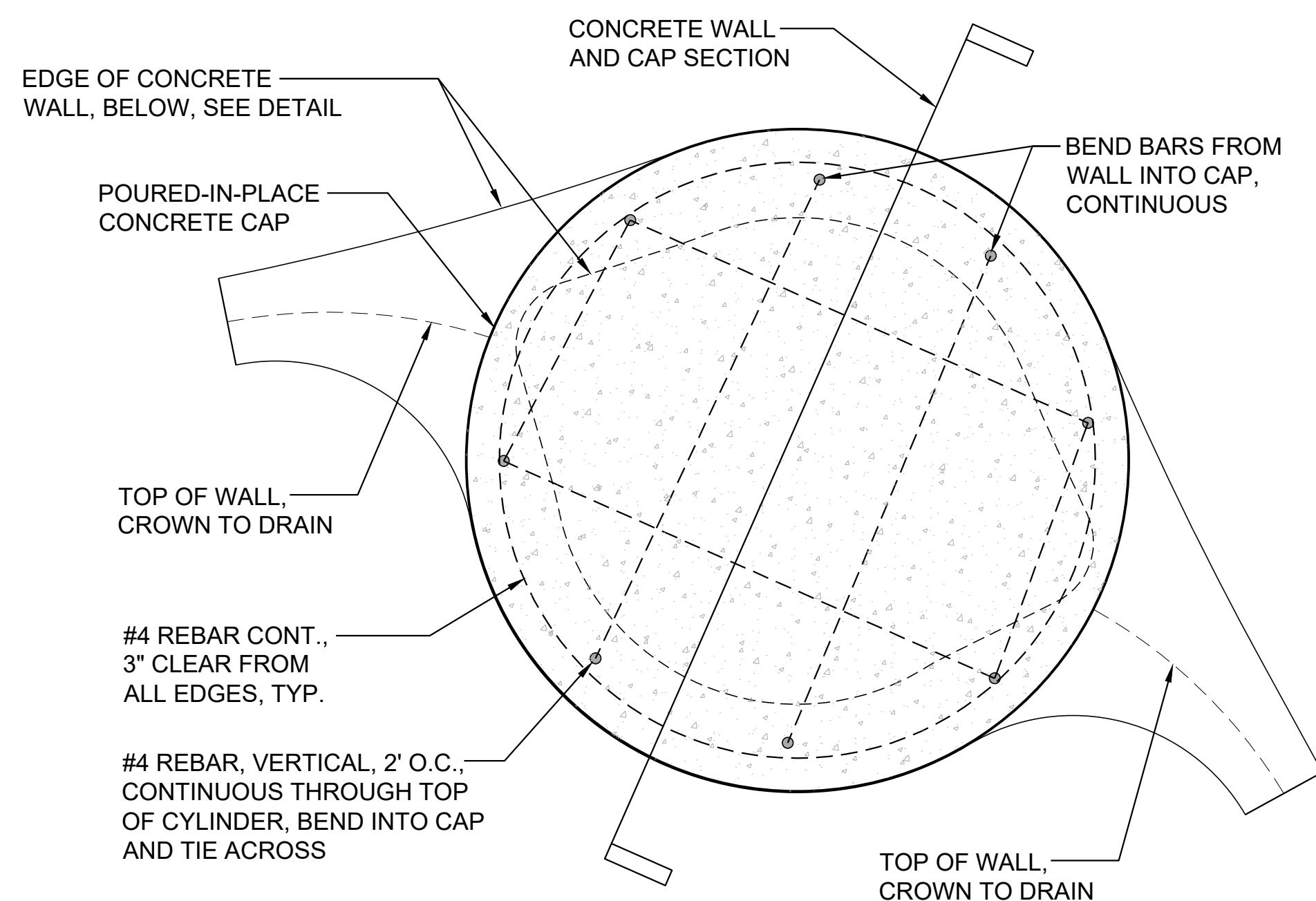
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2 PLAYGROUND UNDERDRAIN OUTLET

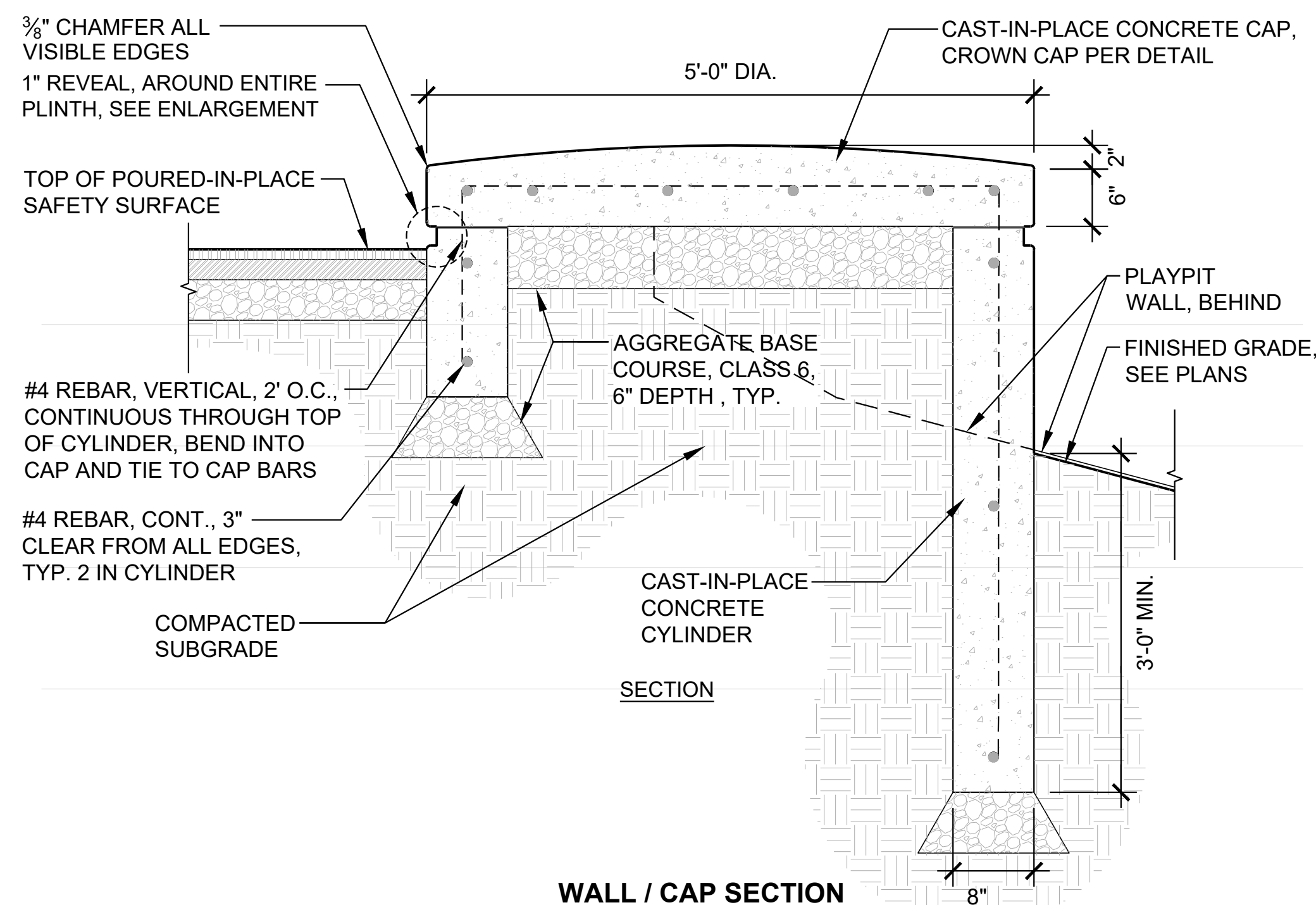
SCALE: 1" = 1'-0"



PLINTH WALLS



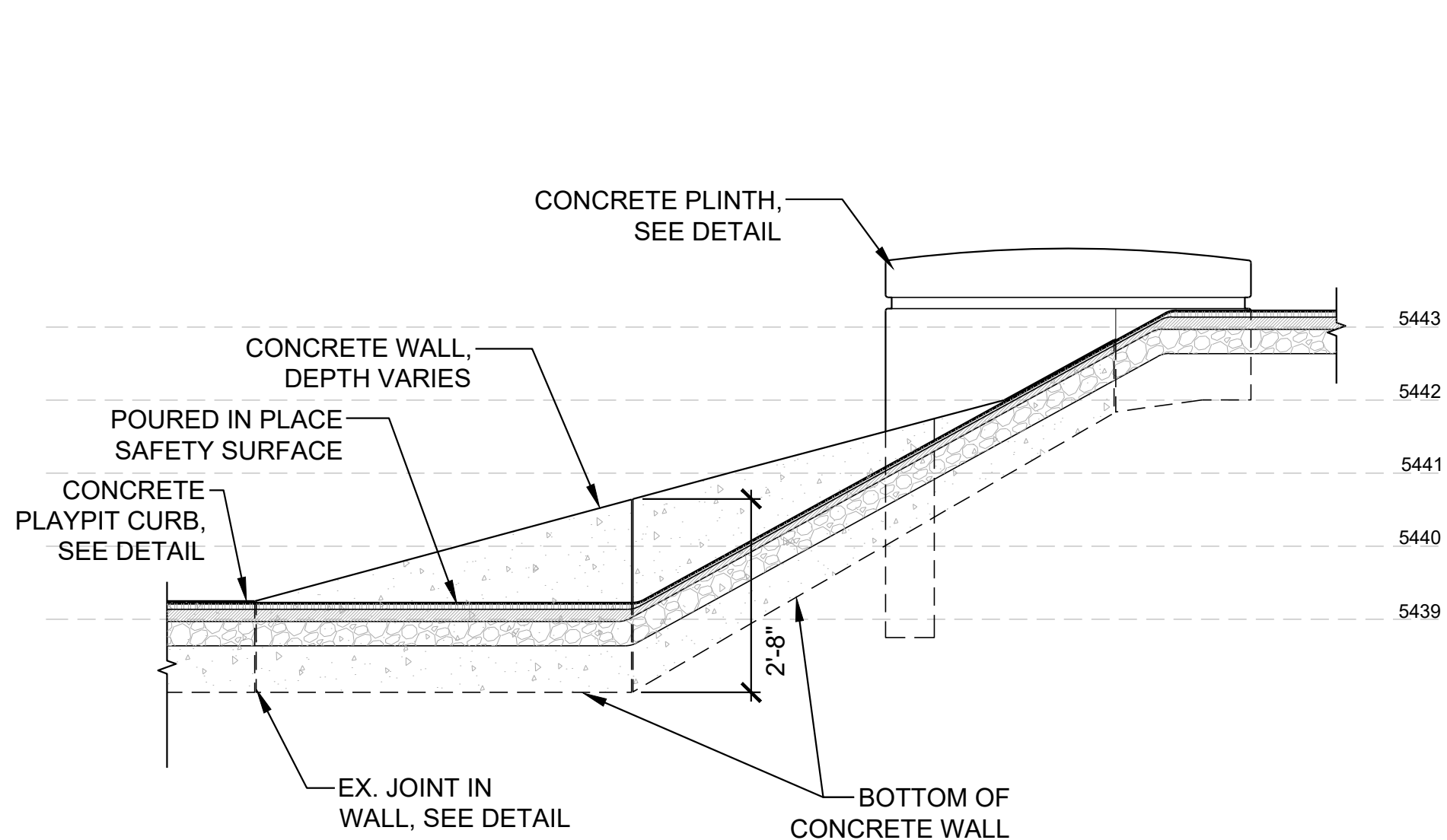
PLINTH CAP



WALL / CAP SECTION

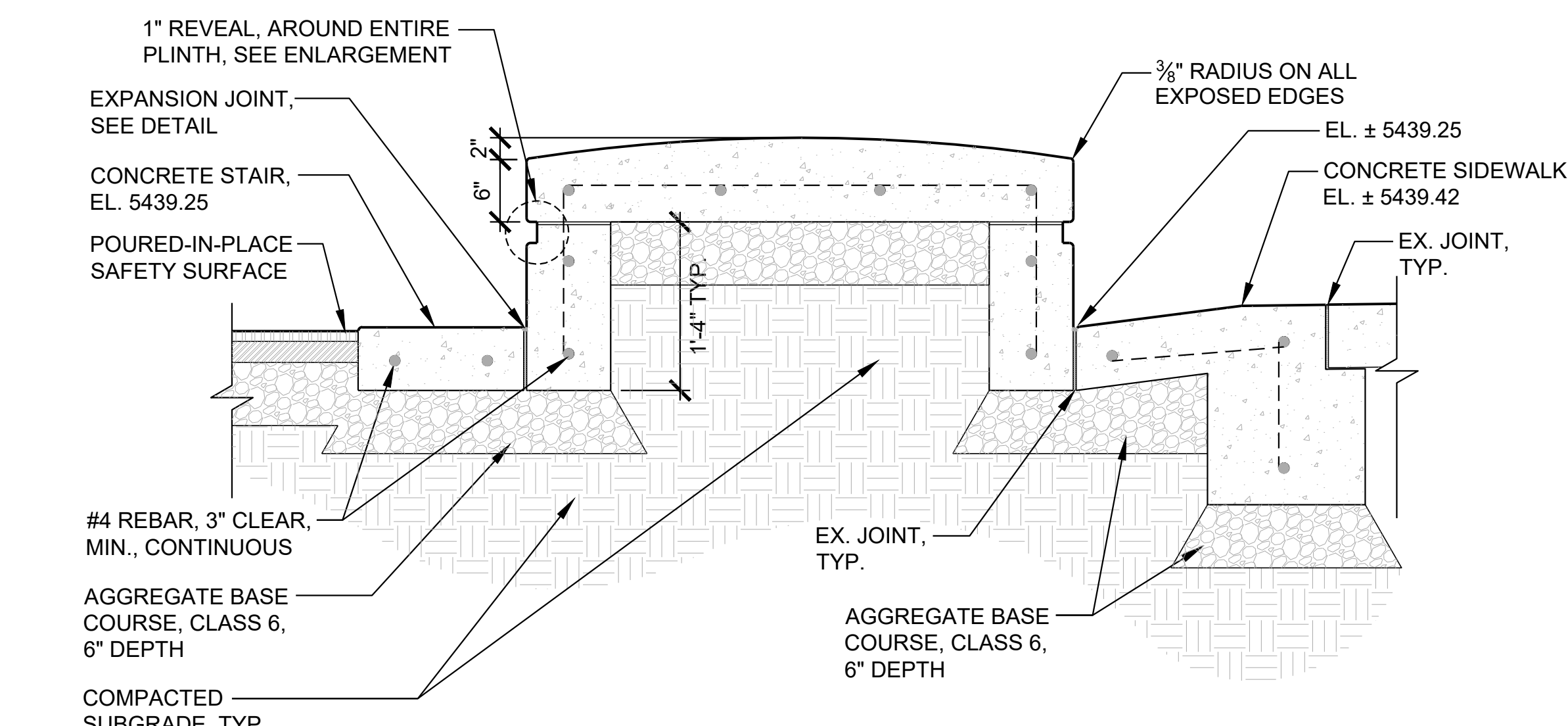
3 CONCRETE PLINTH AT PLAYPIT EDGE

SCALE: 1" = 1'-0"



4 SLOPED CONCRETE WALL & PLINTH AT EMBANKMENT

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



5 CURB, PLINTH, AND SIDEWALK

SCALE: 1" = 1'-0"

6 PLINTH REVEAL

SCALE: 1" = 1'-0"

APPROVED: *CEL VJ* 12/27/2024 DA2024-0034
City Engineer Date Job Number

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STAMP:



SHEET TITLE:
LANDSCAPE DETAILS



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

LD-02



Know what's below.
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UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE
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MARKING OF UNDERGROUND MEMBER UTILITIES

STAMP:



SHEET TITLE:

LANDSCAPE DETAILS

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'

DESIGNED BY:

BG

DRAWN BY:

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CHECKED BY:

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DATE:

NOVEMBER, 2024

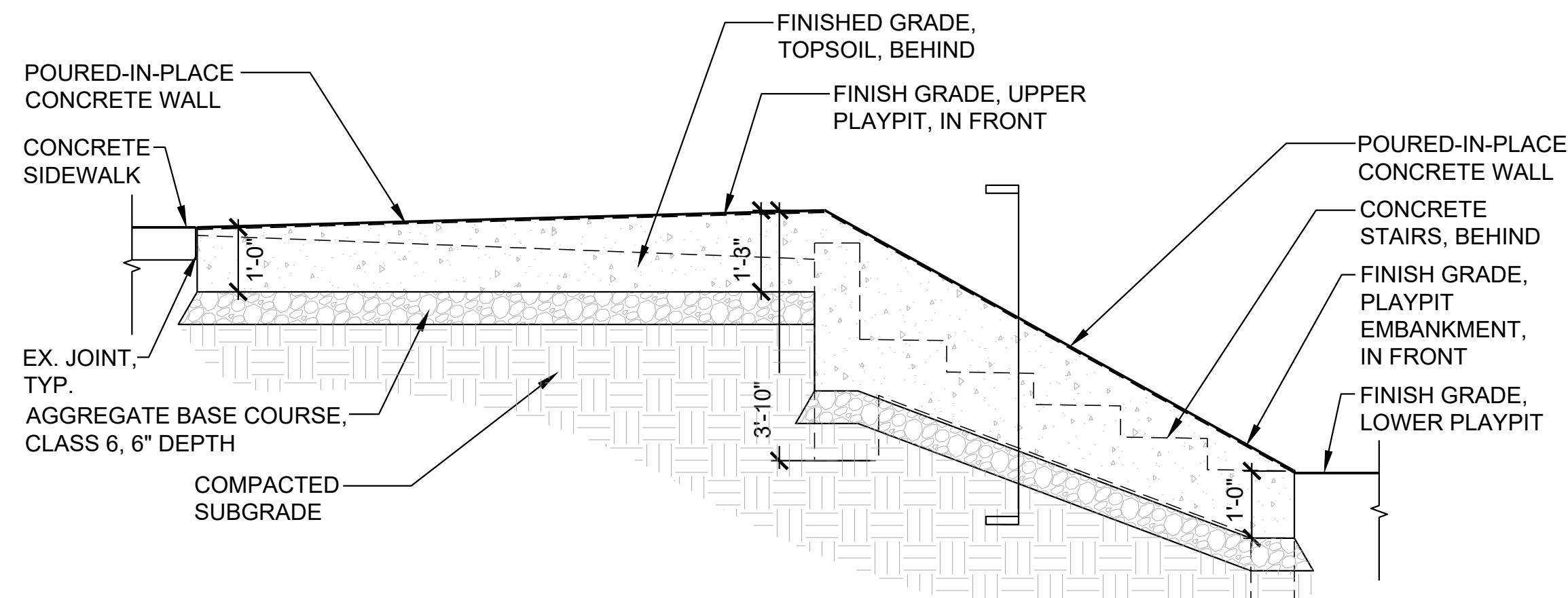
REVISION:

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CONSTRUCTION
DOCUMENTS

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SHEET NUMBER:

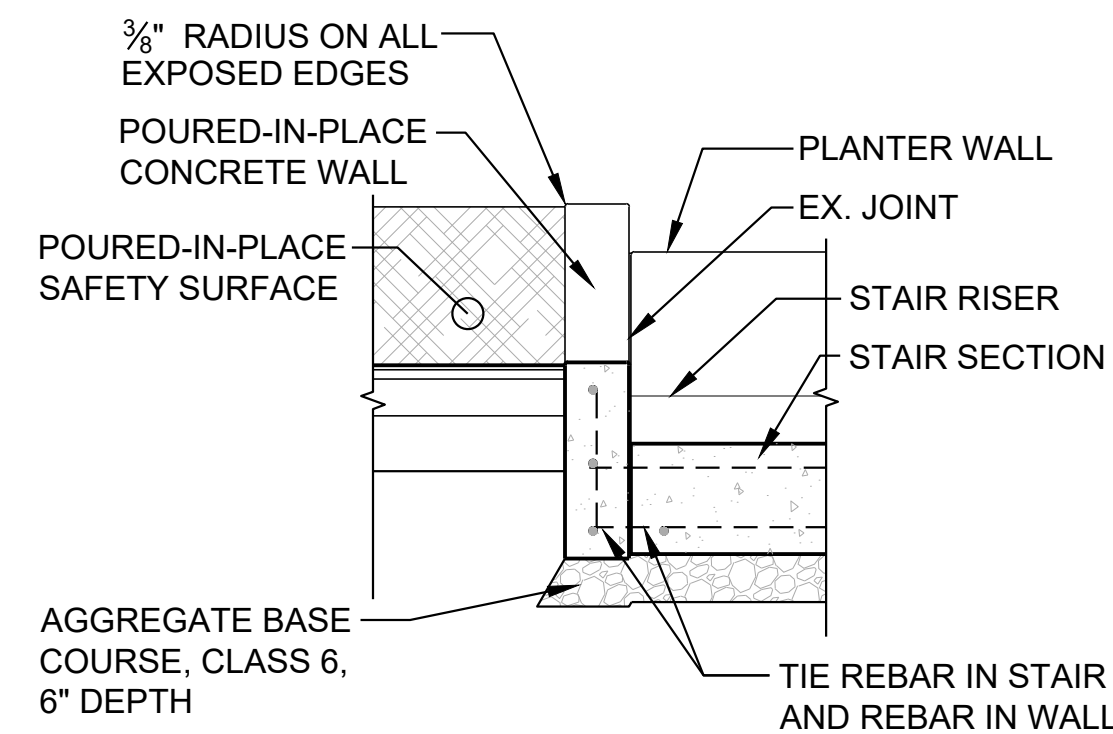
LD-03



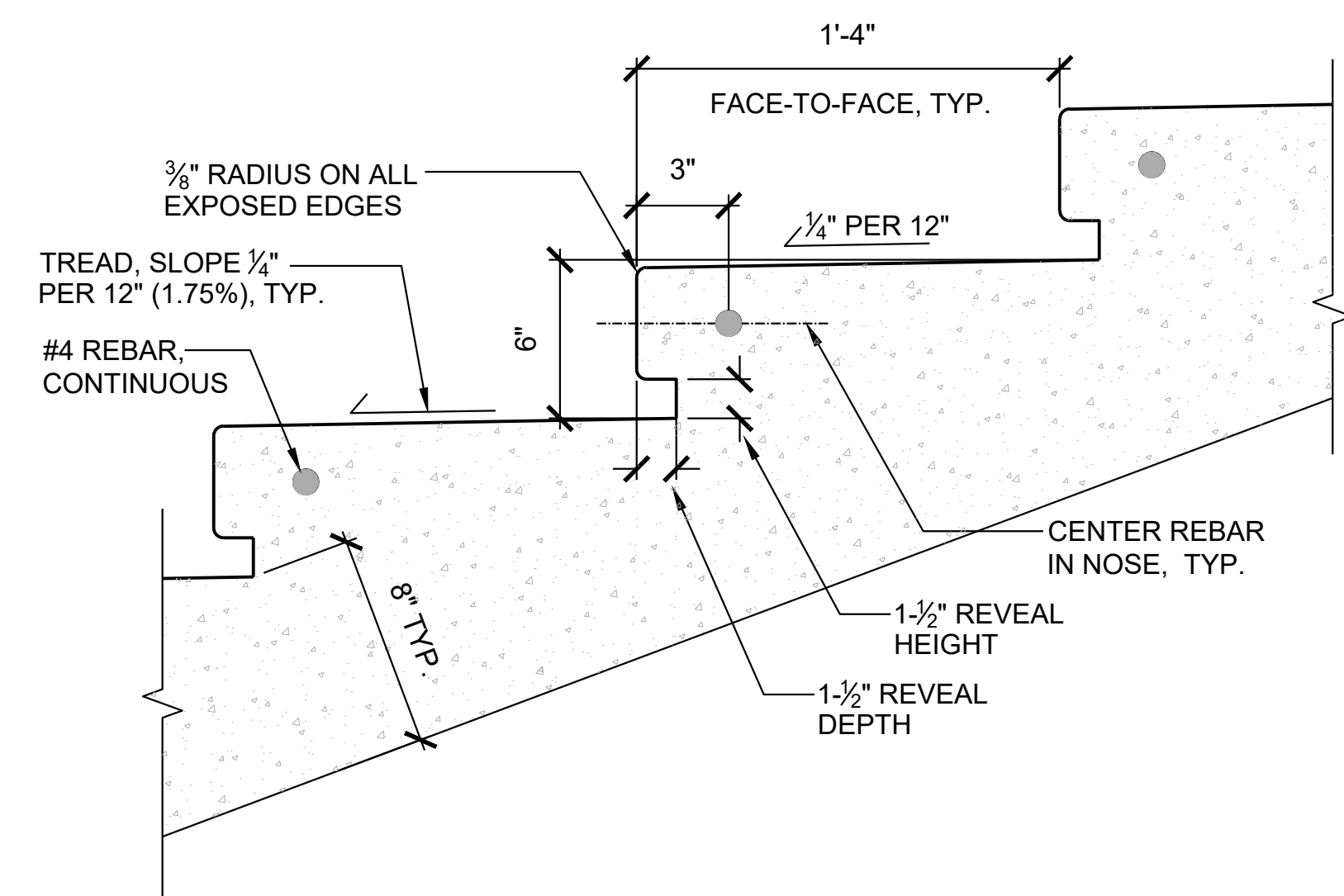
SIDE ELEVATION

1 EMBANKMENT / PLANTER CURBWALL

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

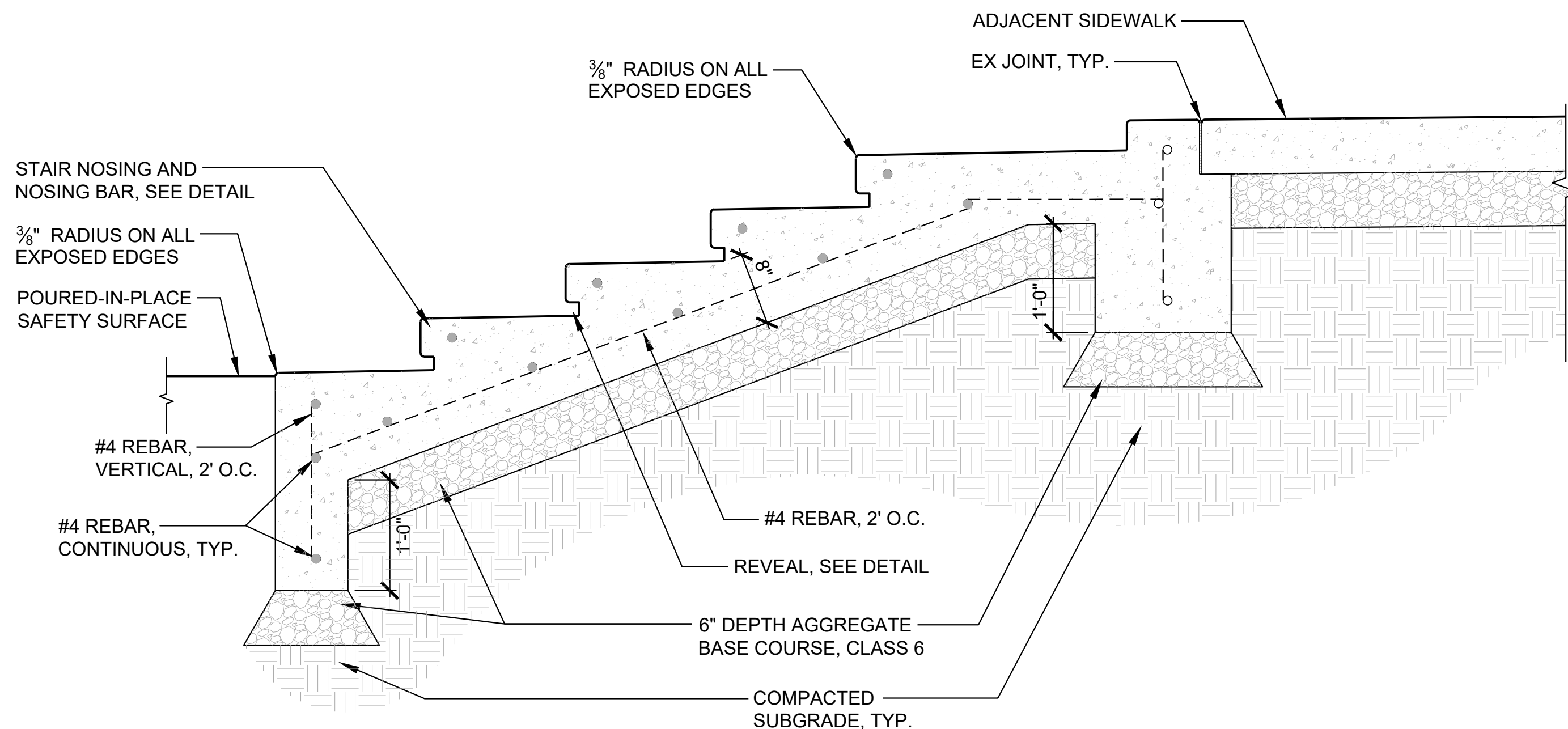


WALL SECTION



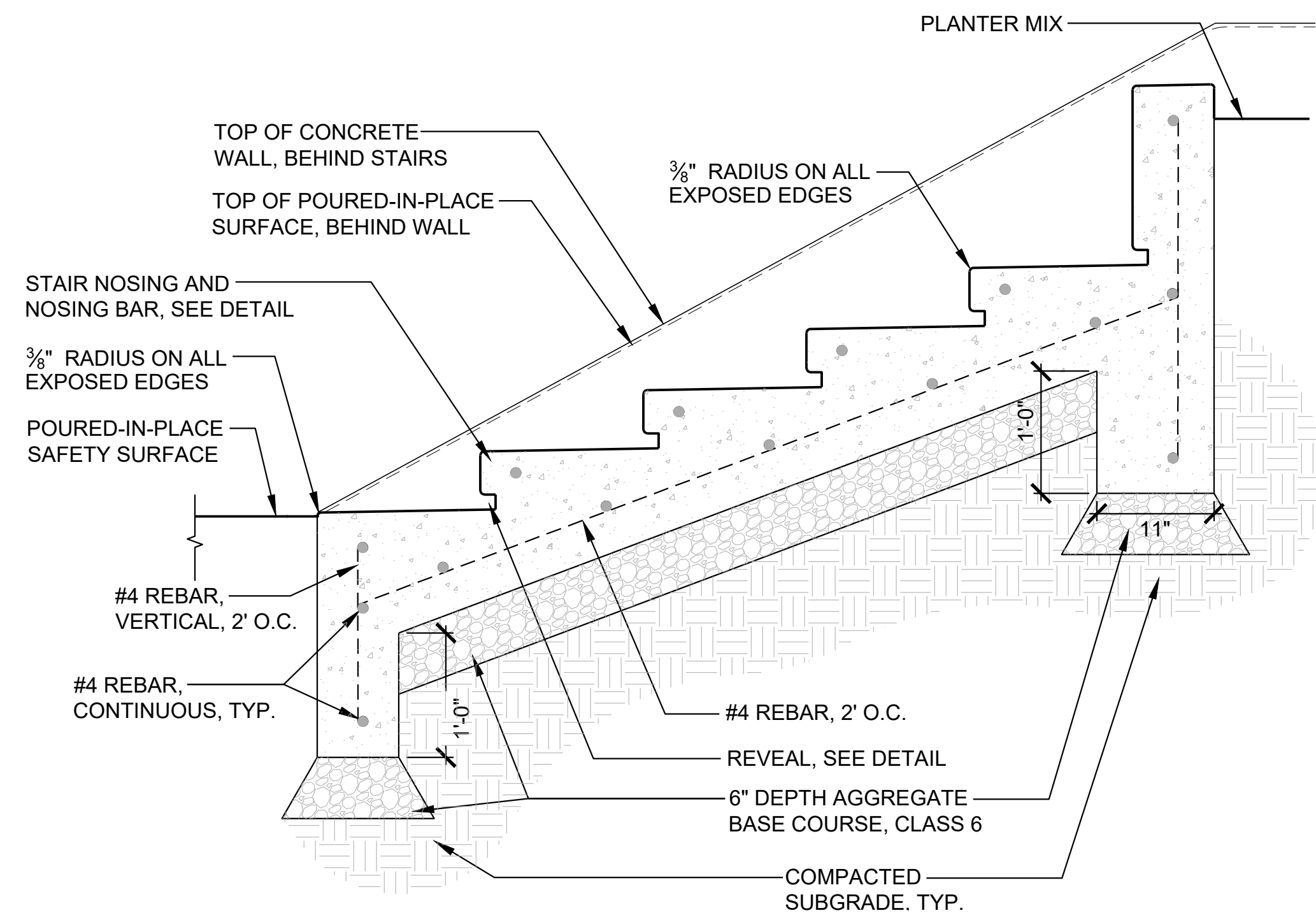
2 TYPICAL STAIR

SCALE: 1" = 6"



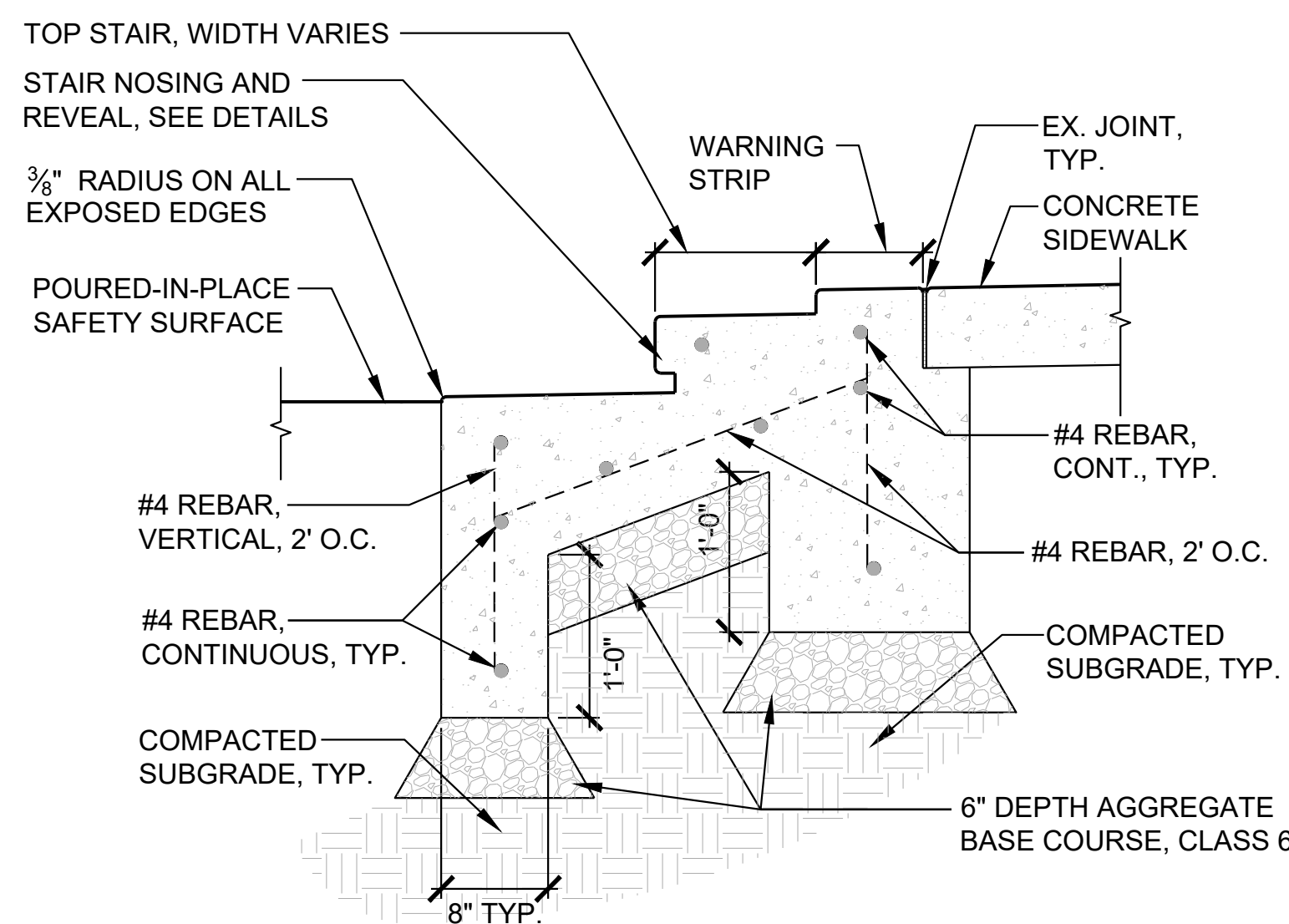
3 CONCRETE SEATS, TYPICAL SECTION

SCALE: 1" = 1'-0"



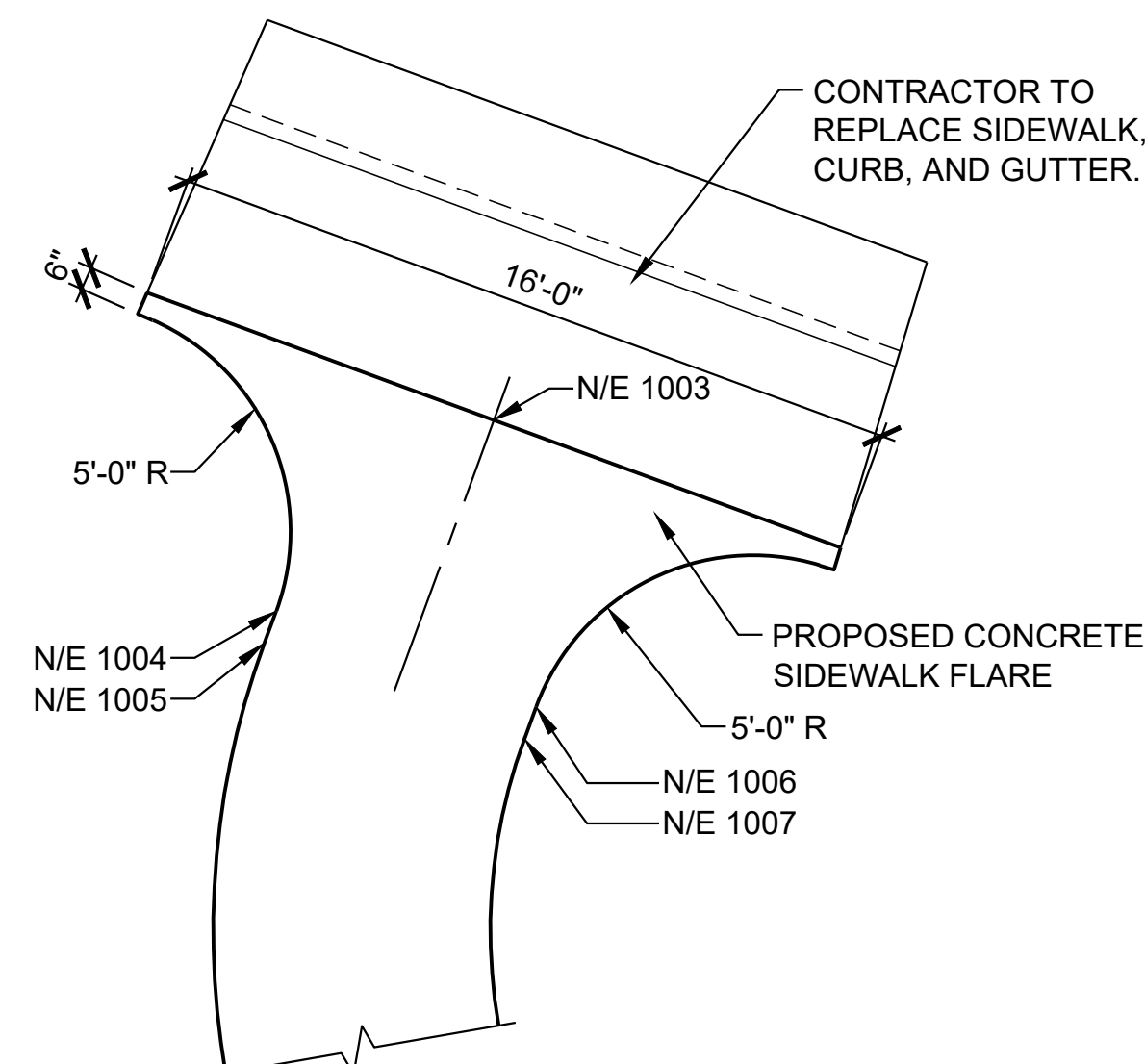
4 CONCRETE SEATS, SECTION 1

SCALE: 1" = 1'-0"



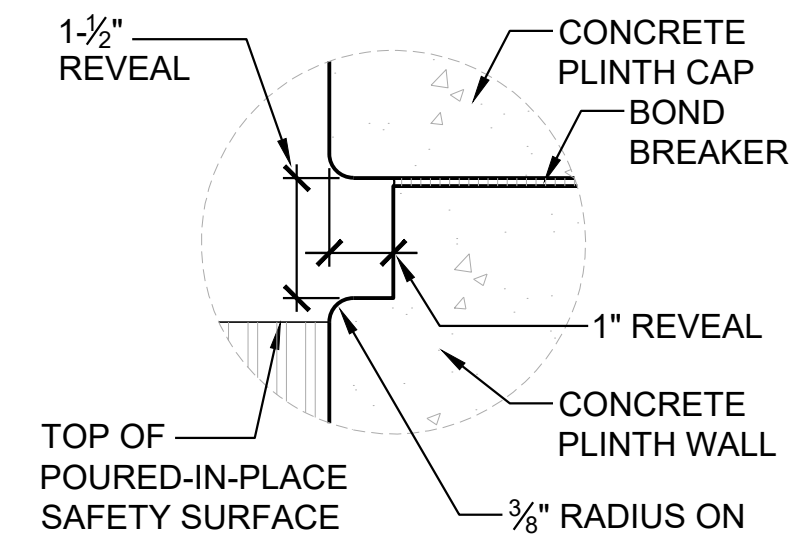
5 CONCRETE SEATS, SECTION 2

SCALE: 1" = 1'-0"



6 CONCRETE SEATS, SECTION 2

SCALE: 1" = 1'-0"



7 PLINTH CAP REVEAL

SCALE: 1" = 3"

APPROVED:

City Engineer

12/27/2024

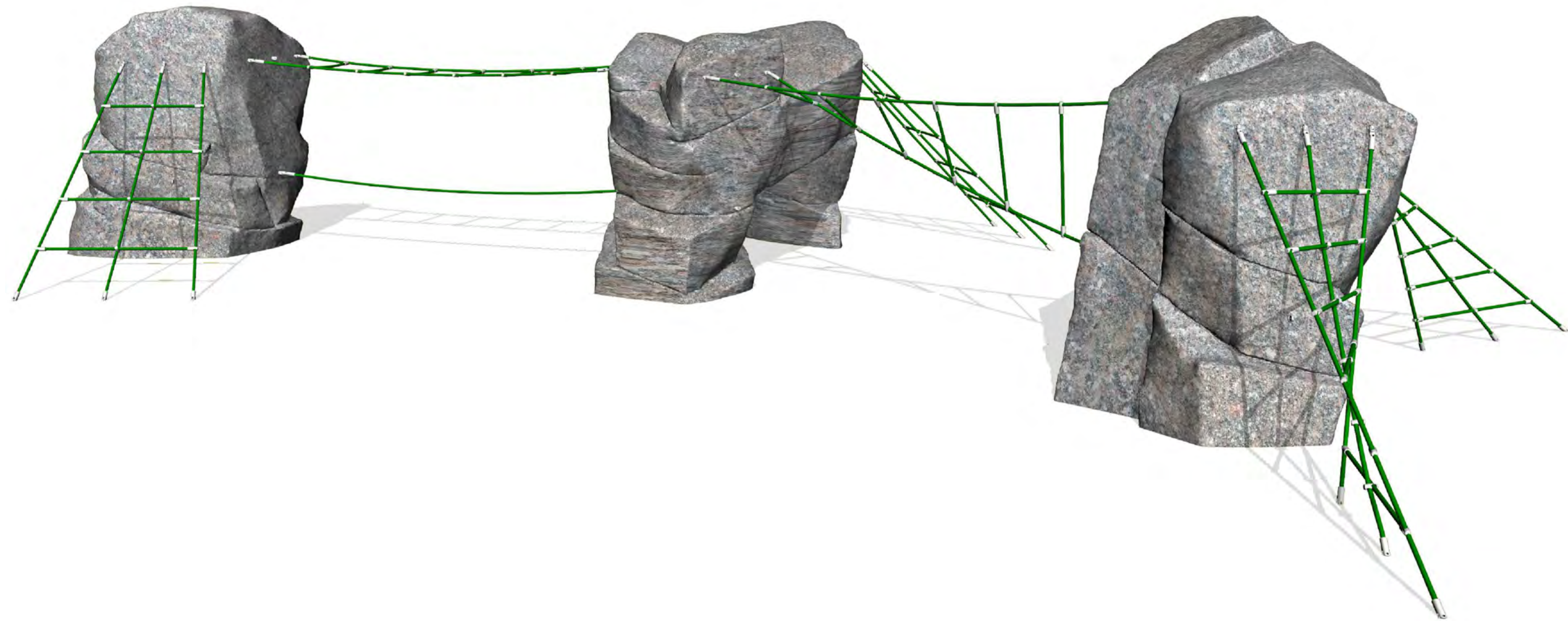
Date

DA2024-0034

Job Number

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UTILITY NOTIFICATION
CENTER OF COLORADOCALL 811 2-BUSINESS DAYS IN ADVANCE
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1 TELLURIDE TRAVERSE, BY ID SCULPTURE



2 PAINTED TURTLE, BY ID SCULPTURE



3 LOG CRAWL AND MUSHROOM STEPPERS, BY LANDSCAPE STRUCTURES



4 OMNISPIN, BY LANDSCAPE STRUCTURES



5 REVIROCK BOUNCER, BY LANDSCAPE STRUCTURES



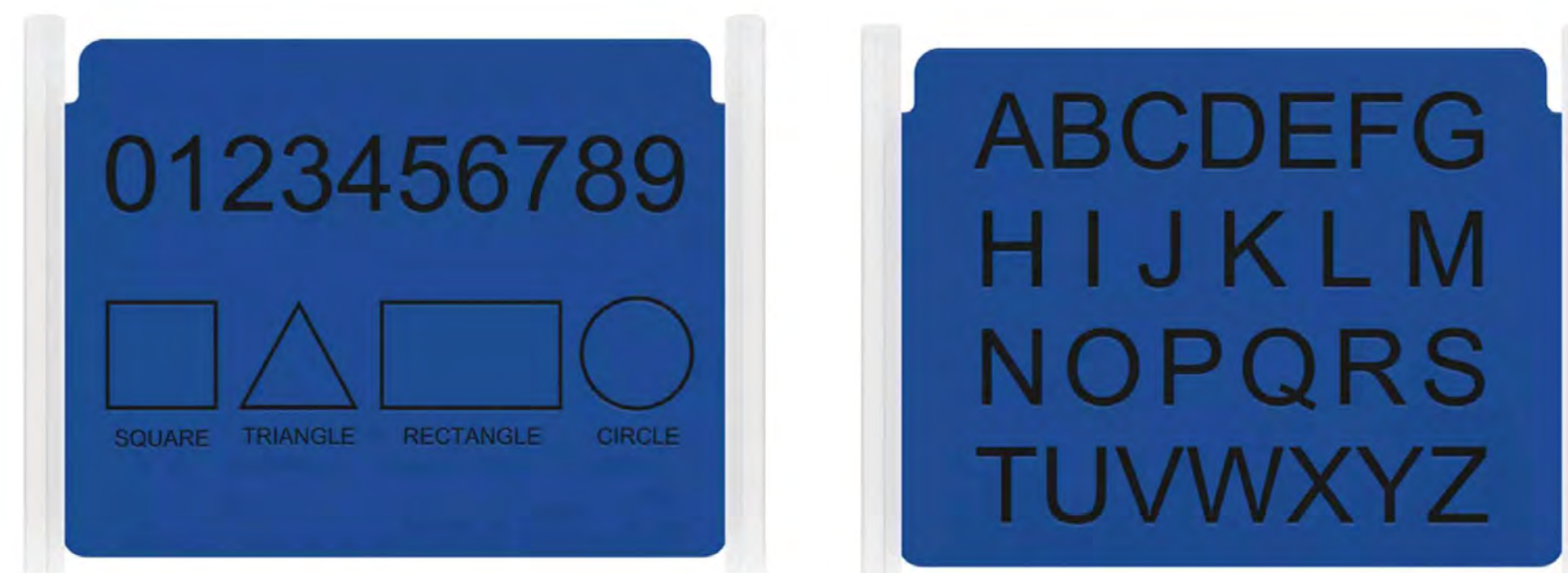
6 BOBBLE RIDER DOUBLE, BY LANDSCAPE STRUCTURES



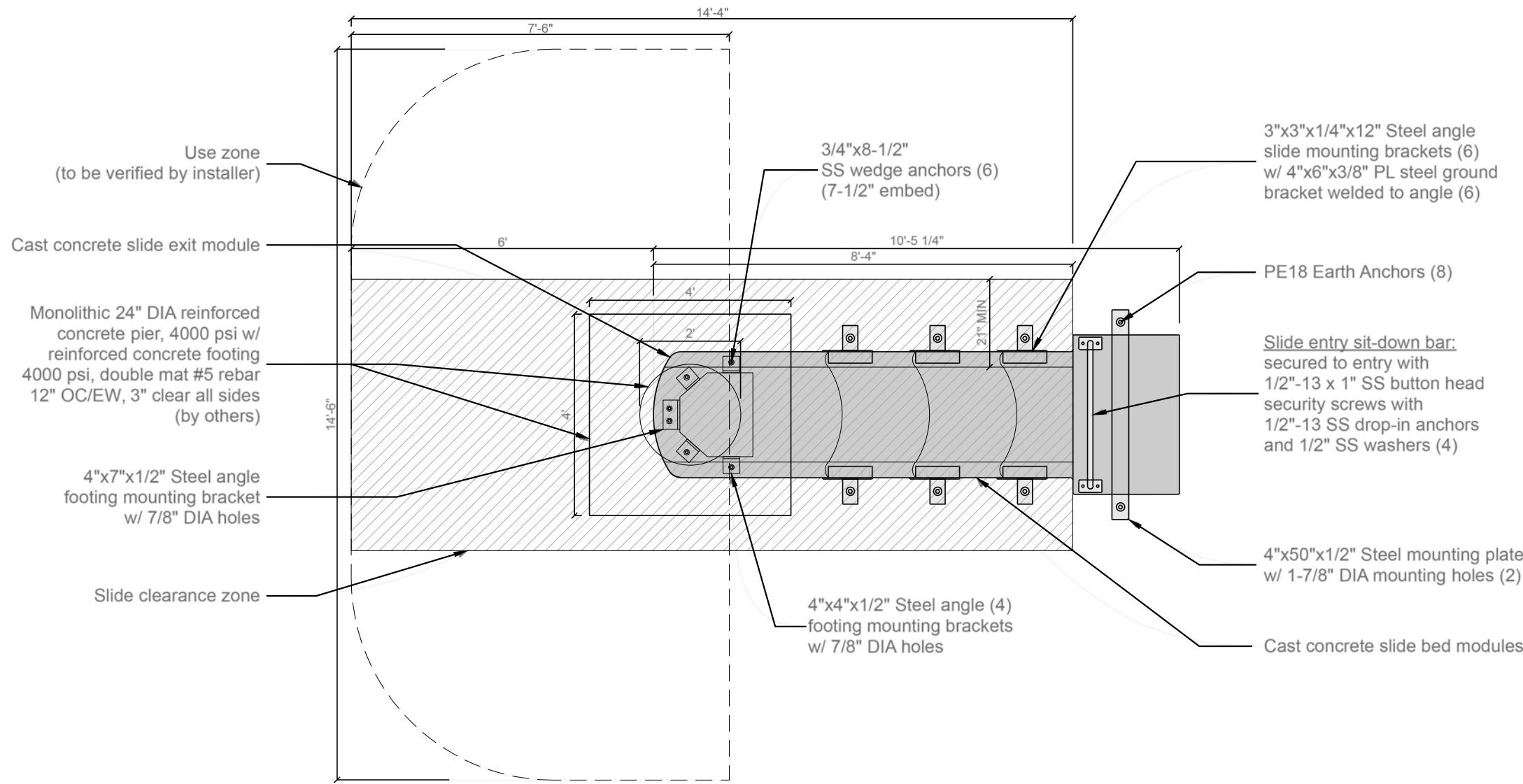
7 TIC-TAC-TOE PANEL, BY LANDSCAPE STRUCTURES



8 EMBANKMENT SLIDE, BY ID SCULPTURE



9 TRACING PANELS, BY LANDSCAPE STRUCTURES



1 Plan
SCALE: 3/8" = 1'-0"



4ft Modular
Embankment Slide
MES004

Age Group: 2-5

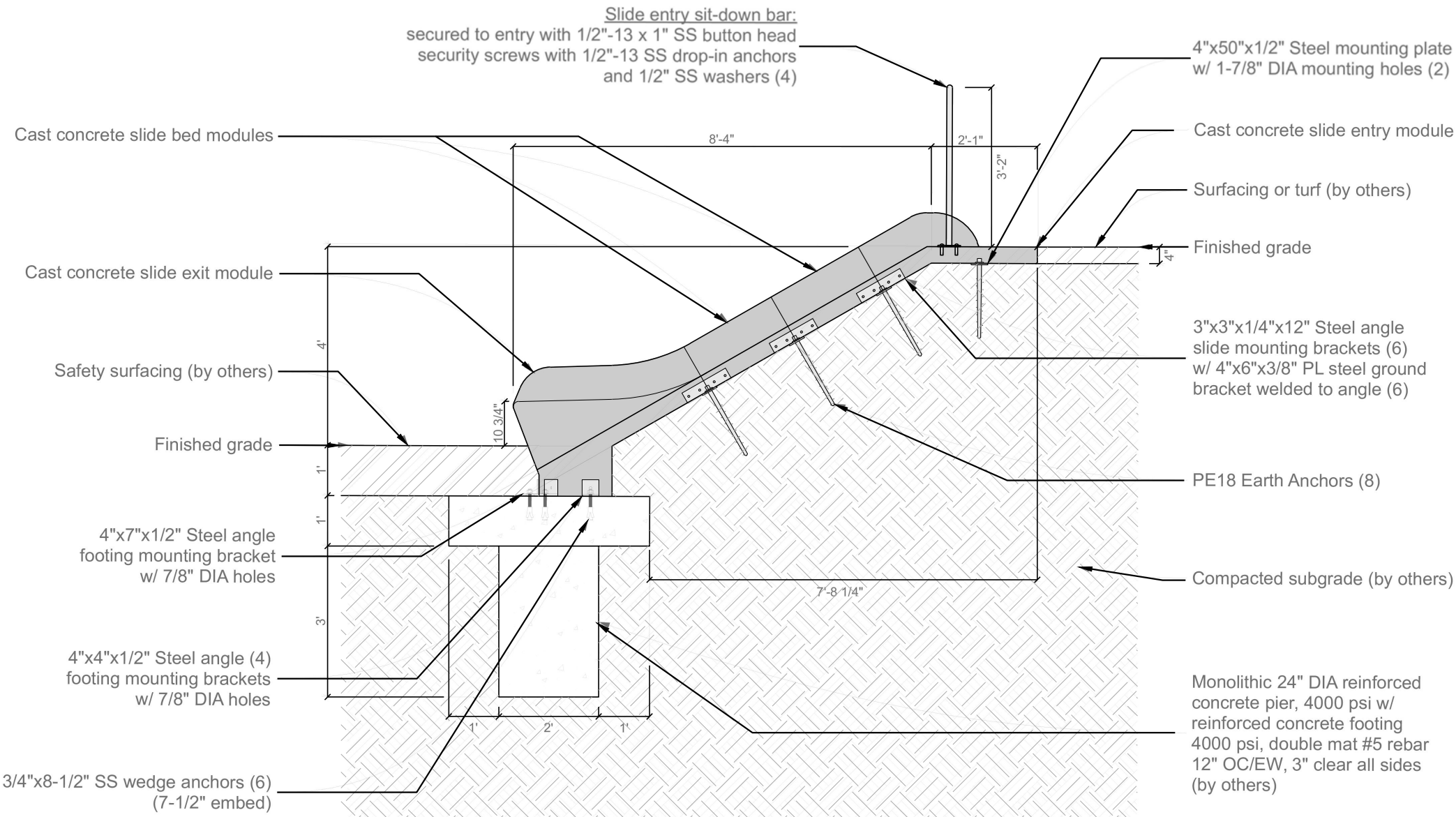
SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

All IDS projects are designed to meet or exceed ASTM 1487. Not all equipment may be appropriate for all children. Supervision is required. ASTM compliant safety surfacing is required under and around all play equipment. The Americans with Disabilities Act (ADA) may require your play area to be accessible, please consult with an ADA professional to ensure compliance.

Date
12/21/2023

Drawing Title
Plan

Sheet #
A.01.2



1 Section
SCALE: 3/8" = 1'-0"



4ft Modular
Embankment Slide
MES004

Age Group: 2-5

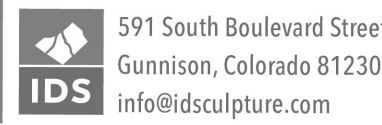
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Date
12/21/2023

Drawing Title
Section

Sheet #
A.01.3



STAMP:



SHEET TITLE:
PLAYGROUND ELEMENTS

CITY OF ARVADA
**PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST**
11960 W 70TH WAY ARVADA, CO 80004

SCALE: AS NOTED

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
**100%
CONSTRUCTION
DOCUMENTS**

PROJECT NO.:

SHEET NUMBER:

LD-05



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MARKING OF UNDERGROUND MEMBER UTILITIES

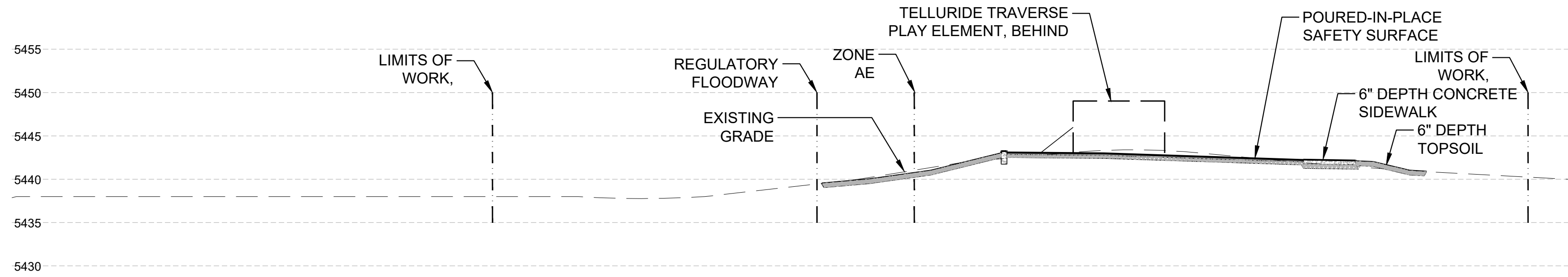
APPROVED:

Bryan Stevenson
DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

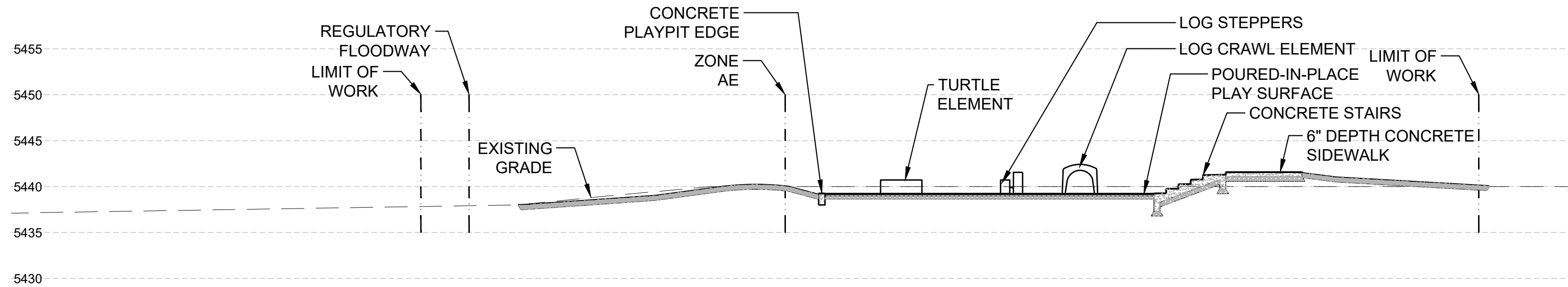
1-13-2025
DATE

DA2024-0034
JOB NUMBER

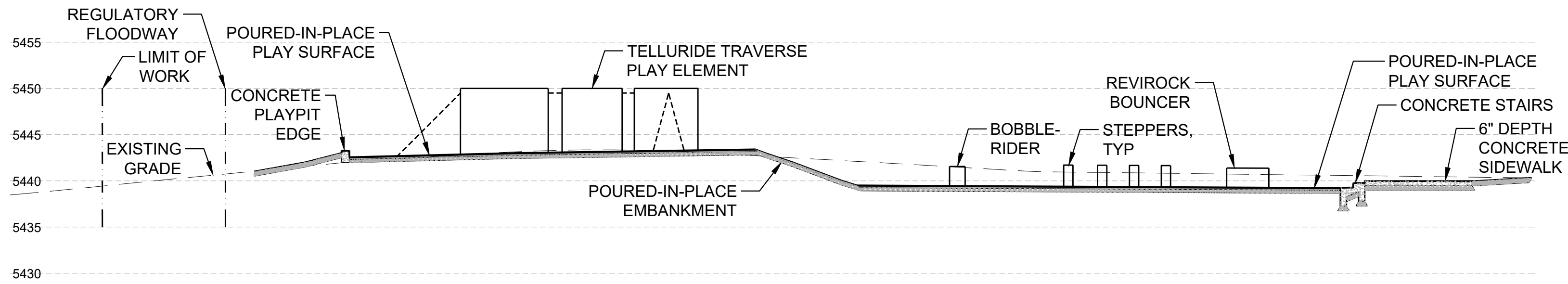
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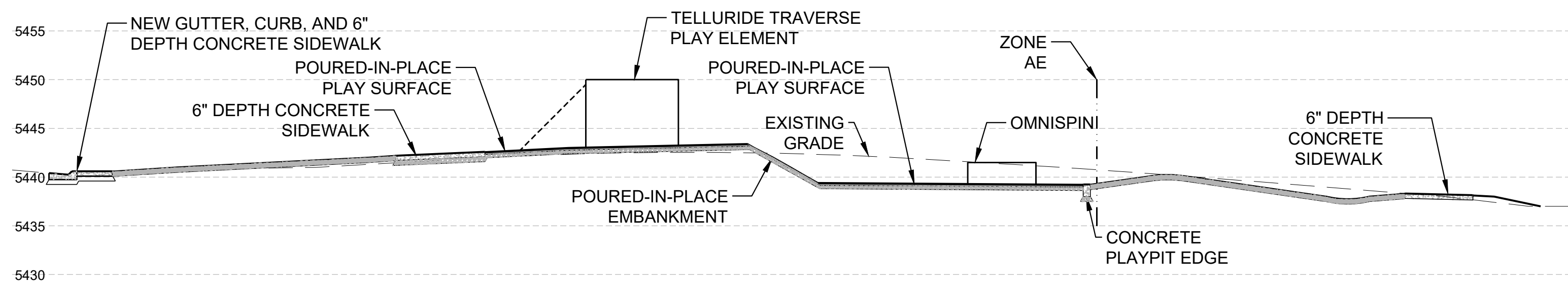
1 SECTION, A-A' SCALE: 1" = 10'-0"



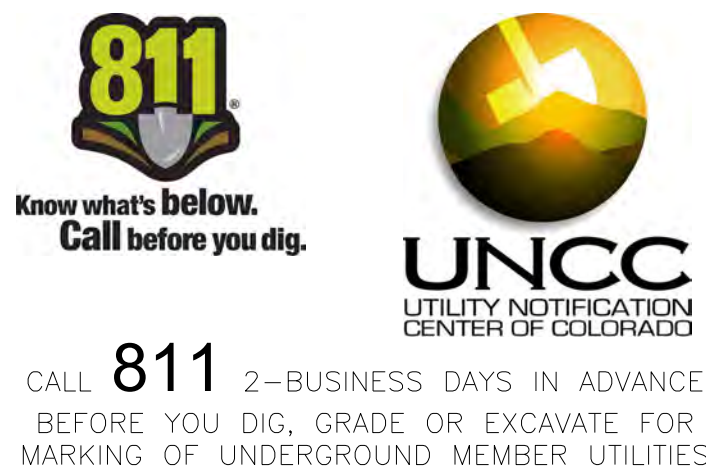
2 SECTION, B-B' SCALE: 1" = 10'-0"

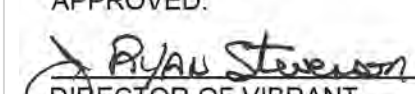


3 SECTION, C-C' SCALE: 1" = 10'-0"



4 SECTION, D-D' SCALE: 1" = 10'-0"



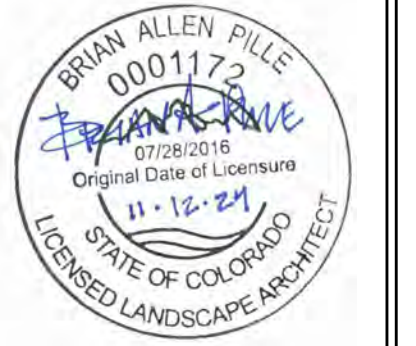
APPROVED:  1-13-2025 DA2024-0034
DIRECTOR OF VIBRANT COMMUNITY & NEIGHBORHOODS DATE JOB NUMBER

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303.455.3779
WWW.STUDIOCPG.COM

STAMP:



SHEET TITLE:

SITE SECTIONS



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 10'-0"

DESIGNED BY: BG

DRAWN BY: JL

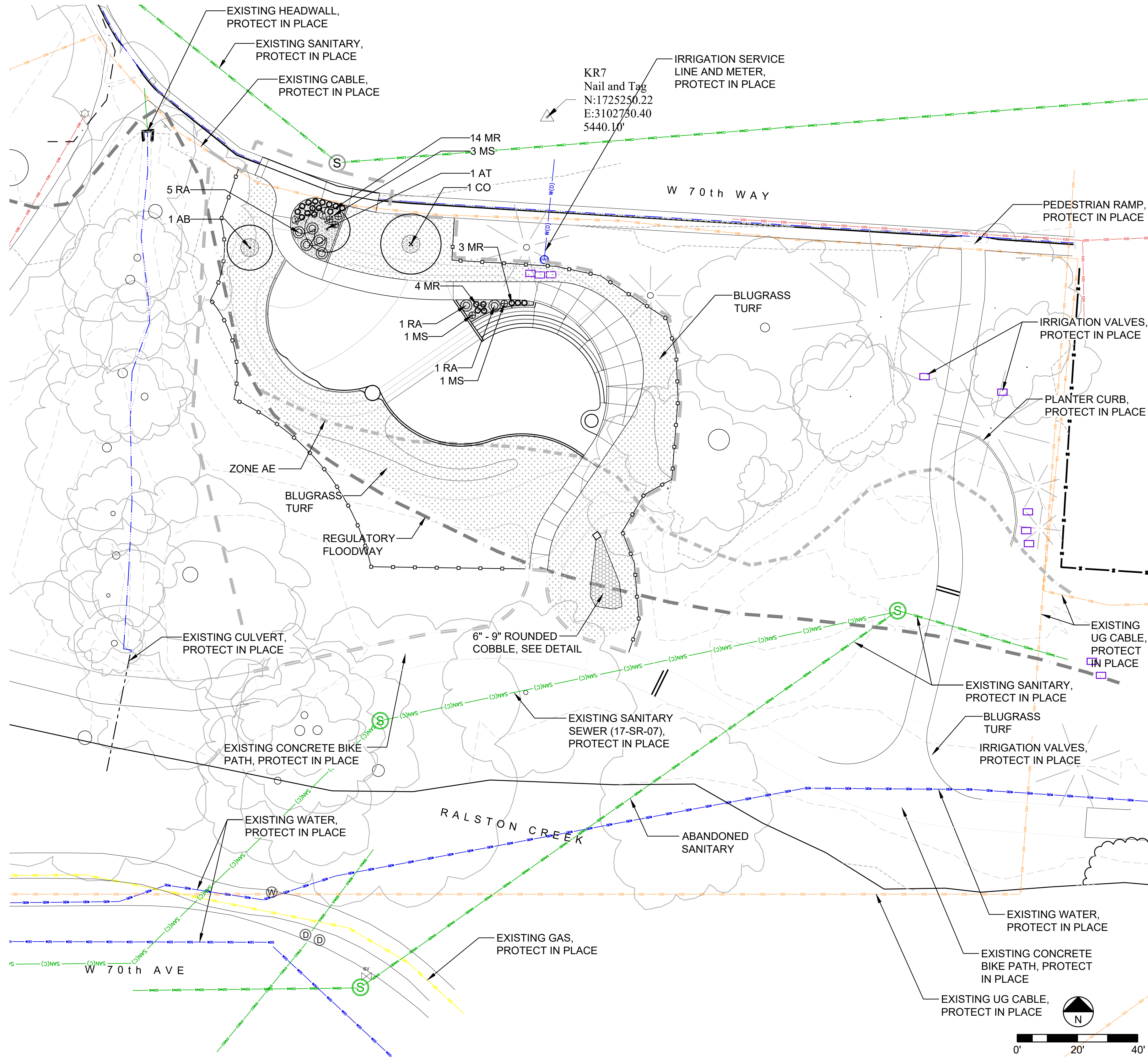
CHECKED BY: BP

DATE: NOVEMBER, 2024

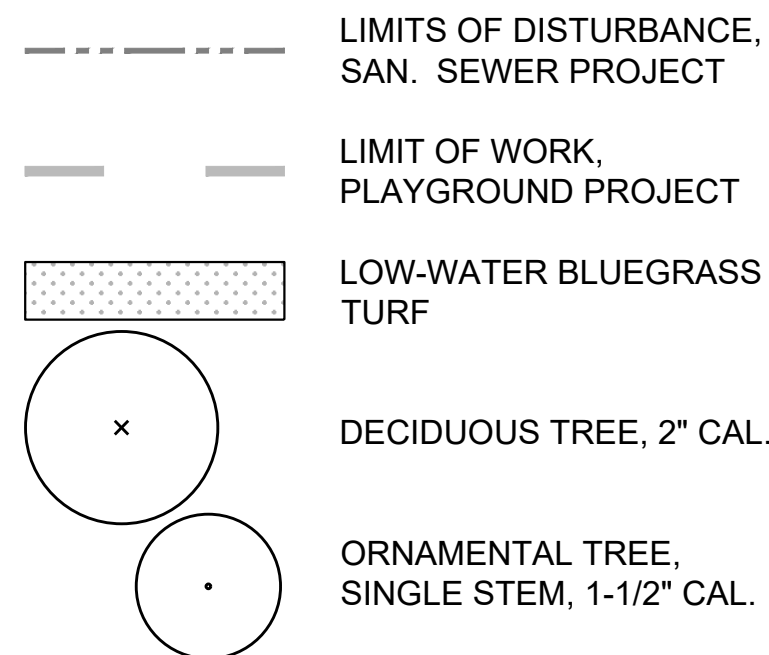
REVISION: 100% CONSTRUCTION DOCUMENTS

PROJECT NO.:

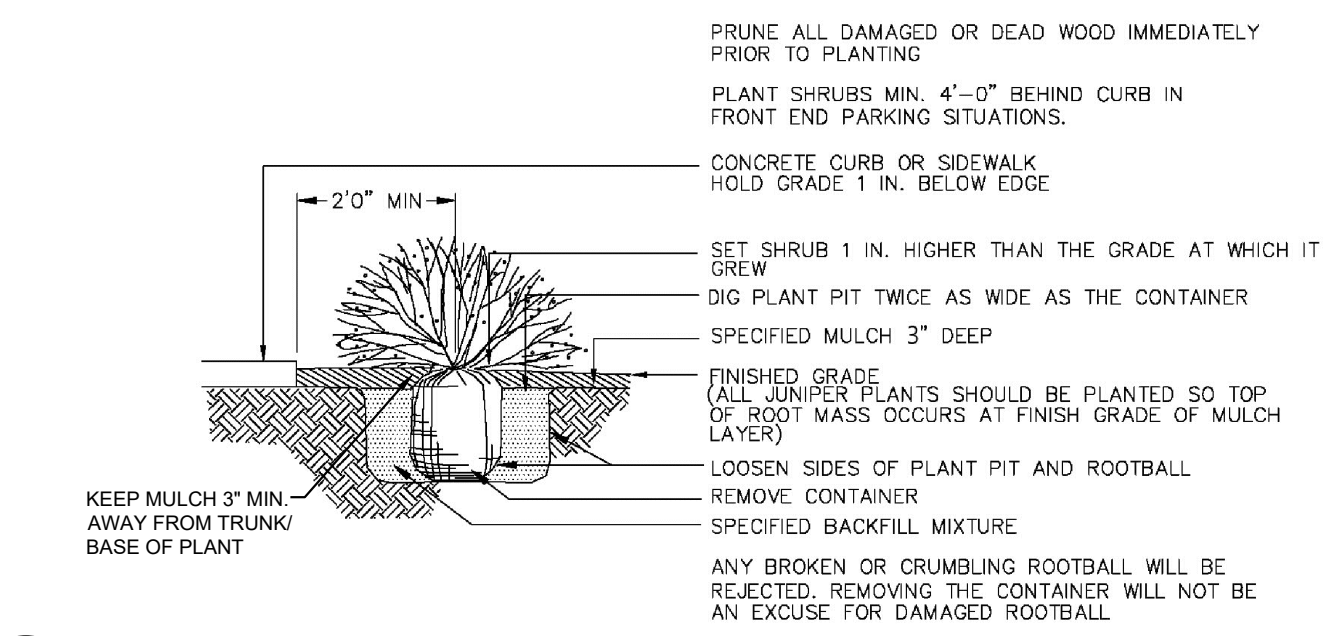
SHEET NUMBER: LD-06



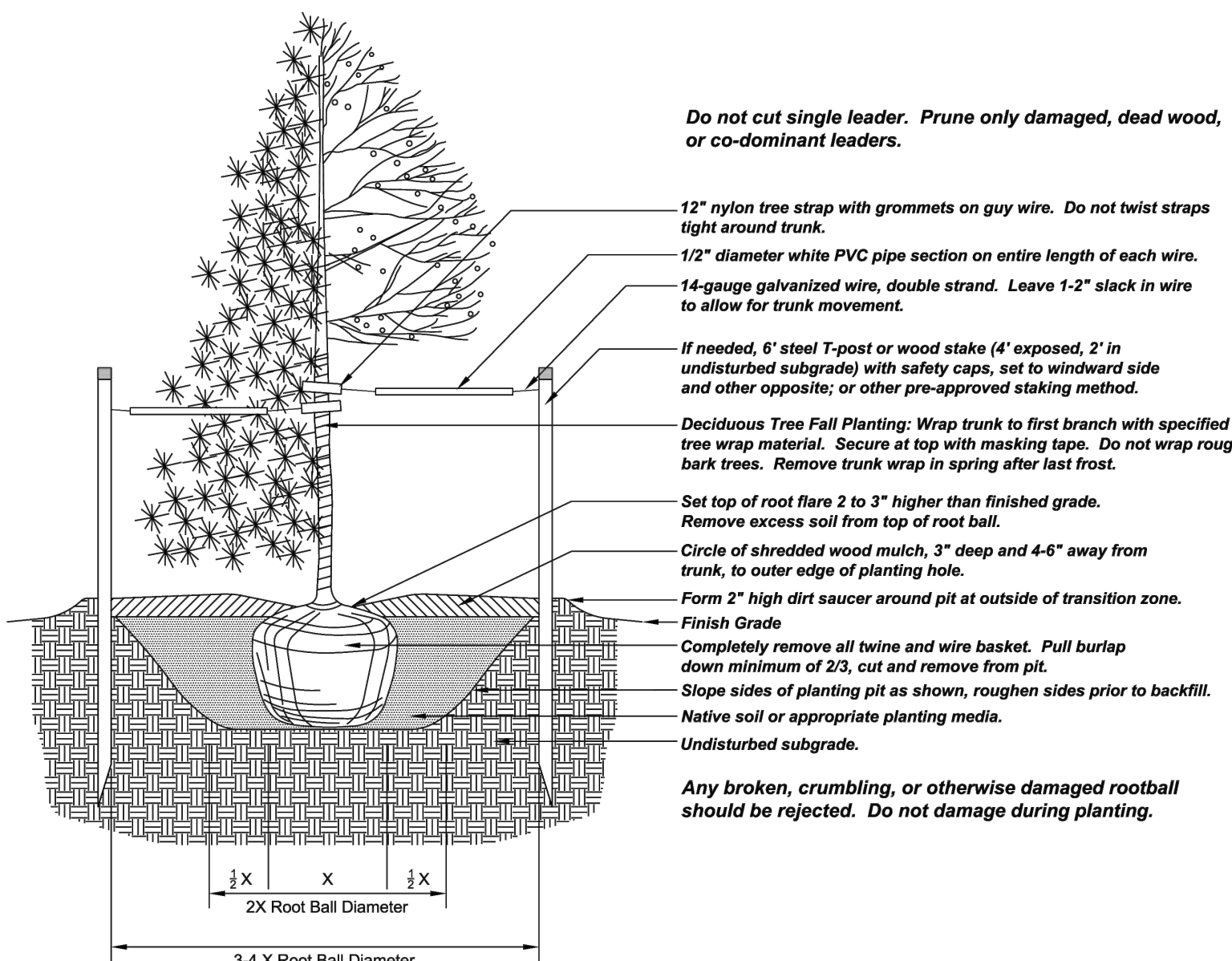
PLANTING LEGEND



UTILITY LEGEND



1 SHRUB PLANTING



Trees planted upon park land, public property, or within the Public Right of Way (PRW) are subject to the following restrictions:

- An approved planting permit from the Office of the City Forester (OCF), regardless of approved plans, is required prior to planting.
- Administrative citations up to \$999 shall be issued for trees planted without an OCF issued permit.
- Only tree species approved by or listed on the OCF's approved street tree list shall be planted in the PRW.
- For a list of prohibited or suspended PRW trees, contact or visit the OCF website.
- If overhead utility wires exist in the PRW, only ornamental or trees maturing at 20 (twenty) feet maximum height shall be planted.
- Trees shall be centered in tree lawns and/or planting areas.
- Trees shall not be planted in tree lawns less than five feet wide unless authorized by the OCF.
- Where sidewalks are not present, trees shall be located as designated by Office of the City Forester.
- Planting in corner triangle formed by the first 30 (thirty) feet along the PRW in each direction from the corner is not permitted.
- Planting within 10 (ten) feet of alleys, driveways, or fire hydrants is not permitted.
- Planting within 20 (twenty) feet of stop signs is not permitted.
- Planting within 25 (twenty-five) feet of street lights is not permitted.
- Planting within five feet of water meters or pits is not permitted.
- Large shade trees shall be spaced 35 (thirty-five) feet o.c. and ornamental trees 25 (twenty-five) feet o.c. or as designated by OCF.
- Trees shall be pruned to maintain a clearance of 13'-6" over streets and alleys and 6'-6" over remaining portions of PRW, including sidewalk.

Prior to digging, the Utility Notification Center of Colorado shall be contacted at 811 to locate underground utilities.

2 TREE PLANTING

SCALE: NONE

PLANTING LIST

QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	WIDTH	SPACING
TREES							
1	AB	<i>Acer x freemanii</i>	Autumn Blaze Maple	2" CAL	40' - 50'	30' - 40'	SEE PLAN
1	AT	<i>Acer tataricum</i>	Tartarian Maple	2" CAL	18' - 20'	15' - 20'	SEE PLAN
1	CO	<i>Celtis occidentalis</i>	Western Hackberry	2" CAL	50' - 60'	40' - 50'	SEE PLAN
SHRUBS							
21	MR	<i>Mahonia repens</i>	Creeping Colorado Holly	5 GAL	12"-18"	3-4'	SEE PLAN
5	MS	<i>Miscanthus sinensis purpureus</i>	Purple Maiden Flame Grass	5 GAL	3'-4"	3-4'	SEE PLAN
7	RA	<i>Rhus aromatica 'Gro-Low'</i>	Dwarf Fragrant Sumac	5 GAL	2'-3'	6-8'	SEE PLAN

TREE REMOVALS TABLE

QTY	SIZE	BOTANICAL NAME	COMMON NAME
1	4"	<i>Acer x freemanii</i>	Autumn Blaze Maple
1	12"	<i>Quercus</i>	Oak

APPROVED:

[Signature]
DIRECTOR OF VIBRANT COMMUNITY & NEIGHBORHOODS

1-13-2025 DA2024-0034
DATE JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

STAMP:



SHEET TITLE:

PLANTING PLAN



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
BG

DRAWN BY:
JL

CHECKED BY:
BP

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

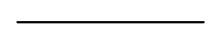
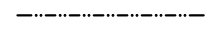
SHEET NUMBER:

PL-01

IRRIGATION CONSTRUCTION NOTES

1. DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY STUDIO CPG. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, THEY ASSUME ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. CONTACT IRRIGATION CONSULTANT FOR CURRENT SPECIFICATIONS IF NOT PROVIDED.
2. SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED THE LOCAL WATER DISTRICT THAT SERVES THIS SITE AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 40 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OR ANY VARIATIONS FROM THIS PRESSURE, THEN THEY ASSUME ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 84 PSI MINIMUM.
3. IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A THREE NIGHT PER WEEK, ELEVEN HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.
- BLUEGRASS TURF 2.23" PER WEEK PEAK SEASON
4. EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. INSTALLATION SHALL BE COORDINATED WITH OTHER UTILITY WORK. ALL OTHER UTILITIES SHALL TAKE PRECEDENCE OVER IRRIGATION LOCATION. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVING THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC. BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN WOOD MULCH, GRAY IN STONE MULCH, PURPLE FOR RECLAIMED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER. WHERE MORTAR PAVING LIDS ARE INSTALLED ABOVE BOXES, IRRIGATION BOX WITH LID SHALL BE LOWERED TO ACCOMMODATE PAVING LID. REFER TO LANDSCAPE FOR ADDITIONAL INFORMATION, TO BE INSTALLED PER MANUFACTURE RECOMMENDATIONS.
5. PIPING INSTALLATION - IRRIGATION PIPING SHALL MAINTAIN A MINIMUM DISTANCE FROM BUILDING FOUNDATIONS OF 5 FEET OR AS DESCRIBED IN SOILS REPORT, WHICHEVER IS GREATER. NO SPRAY IRRIGATION SHALL OCCUR WITHIN 10 FEET OF THE FOUNDATION. NO DRIP IRRIGATION SHALL OCCUR WITHIN 5 FEET OF THE FOUNDATION UNLESS SOIL MOISTURE SENSORS ARE INSTALLED ON VALVES SERVICING THESE AREAS. ALL IRRIGATION PIPING AND EMISSION DEVICES LOCATED ON TOP OF OR WITHIN BUILDING STRUCTURE SHALL CONFORM TO WATERPROOFING CONSULTANT REQUIREMENTS. PIPE ROUTING MAY BE SHOWN WITHIN THESE DISTANCES FOR GRAPHICAL CLARITY ONLY.
6. MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO ENSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
7. POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC MPR NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 15 SERIES NOZZLES ON ALL HEADS SPACED AT 12' TO 14'. INSTALL 12 SERIES NOZZLES ON ALL HEADS SPACED 10' TO 11'. INSTALL 10 SERIES NOZZLES ON ALL HEADS SPACED AT 8' TO 9'. INSTALL 8 SERIES NOZZLES ON ALL HEADS SPACED AT 6' TO 7'. INSTALL 5' NOZZLES ON ALL HEADS SPACED AT 5'. INSTALL SIDE STRIP NOZZLES ON ALL HEADS WITH AN "S" DESIGNATION AND RIGHT AND LEFT CORNER STRIP NOZZLES ON ALL HEADS WITH AN "L" OR "R" DESIGNATION.
8. UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
9. SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.
- | SLEEVED PIPE SIZE/WIRE QUANTITY | REQUIRED SLEEVE SIZE & QUANTITY |
|---------------------------------|---------------------------------|
| 3/4" - 1 1/4" PIPING | 2" PVC (1) |
| 1 1/2" - 2" PIPING | 4" PVC (1) |
| 2 1/2" - 3" PIPING | 6" PVC (1) |
| 1-25 CONTROL WIRES | 2" PVC (1) |
| 26-50 CONTROL WIRES | 3" PVC (1) |
10. SPARE CONTROL WIRES - CONTRACTOR SHALL EXTEND SEVEN SPARE WIRES (4 COMMON AND 3 CONTROL WIRES) FROM EACH CONTROLLER TO THE END OF THE MAINLINE SERVING THAT CONTROLLER OR AS SHOWN ON THE PLANS. INSTALL SPARE WIRES IN 10" ROUND VALVE BOX WITH QUICK COUPLING VALVE. REFER TO SPECIFICATIONS FOR WIRE COLOR. SEE IRRIGATION SCHEDULE FOR ADDITIONAL INFORMATION.
11. ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
12. PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT. DO NOT CONSTRUCT ANY PORTIONS OF THE IRRIGATION OFF OF PLANS MARKED NOT FOR CONSTRUCTION OR FOR REVIEW ONLY. FAILURE TO VERIFY CURRENT PLANS MAY RESULT IN RECONSTRUCTION AT CONTRACTOR'S EXPENSE. WHERE REQUIRED BY CITY OR TOWN, CONTRACTOR SHALL CONSTRUCT ONLY OFF CITY OR TOWN STAMPED PLANS. REVISIONS TO CITY OR TOWN STAMPED PLANS SHALL CONFORM TO CITY OR TOWN FIELD CHANGE PROCEDURES AND DOCUMENTATION.
13. EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.
14. EXISTING TREE IRRIGATION - CONTRACTOR SHALL PROVIDE IRRIGATION DURING CONSTRUCTION TO EXISTING TREES AS REQUIRED BY ARVADA FORESTRY STANDARDS.
15. SIMULTANEOUS ZONE OPERATION - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY BASED ON INDIVIDUAL ZONE FLOW. THE DESIGN IS INTENDED TO OPERATE MULTIPLE VALVES, UP TO THE MAXIMUM FLOW IN THE POINT OF CONNECTION NOTE. REFER TO CONTROLLER SPECIFICATION FOR MAXIMUM SIMULTANEOUS VALVE COUNT.
16. CITY DETAILS - HYDROSYSTEMS*KDI WILL BE RESPONSIBLE FOR THE IRRIGATION DESIGN ITSELF. DETAILS #1000-2, 1000-2a,1000-5, 1000-6, 1000-7a, 1000-7b, 1000-9, 1000-10a, 1000-10b, 1000-12, 1000-13, 1000-14 & 1000-1b ARE STANDARD DETAILS DESIGNED AND SPECIFIED BY ARVADA PARKS. HYDROSYSTEMS*KDI DID NOT DESIGN AND SPECIFY THIS DETAIL. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE SELECTION AND SPECIFICATION OF THIS DETAIL, AND HYDROSYSTEMS*KDI MAKES NO REPRESENTATIONS WITH REGARD TO THIS DETAIL.
17. WATER BUDGETS AND PROJECTIONS - HYDROSYSTEMS*KDI HAS BASED THE IRRIGATION DESIGN AND THE ASSOCIATED PROJECTED WATER USE UPON SUCH FACTORS AS CITY OR WATER DISTRICT IMPOSED REQUIREMENTS, PUBLISHED PLANT SPECIES WATER NEEDS, SELECTED IRRIGATION METHOD EFFICIENCIES AS REPORTED BY INDEPENDENT TESTING FACILITIES, HISTORICAL WEATHER DATA FOR THE PROJECT LOCATION, AND PROPER MAINTENANCE PROCEDURES. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE ACTUAL WATER USAGE VARIATION THAT IS A RESULT OF FIELD MODIFICATIONS TO THE SYSTEM NOT MATCHING CONSTRUCTION DOCUMENTS, IMPROPER MAINTENANCE, WASTE DUE TO SYSTEM DAMAGE OR VANDALISM, OR WEATHER CONDITIONS THAT DEViate FROM PUBLISHED 30 YEAR HISTORICAL AVERAGES.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.	
	RAIN BIRD	RD-06-S-P30 WITH MPR NOZZLE	POPOP SPRAY HEAD	1000-4	
	RAIN BIRD	RD-12-S-P30 WITH MPR NOZZLE	POPOP SPRAY HEAD	1000-4	
	RAIN BIRD	6504-PC-SS 1/4" #8 (GREEN) NOZZLE FOR QUARTERS. 6504-PC-SS 1/4" #12 (BEIGE) NOZZLE FOR HALVES, TWO-THIRDS & THREE QTRS. 6504-FC-SS 1/4" #12 NOZZLE (BEIGE) FOR FULLS	GEAR DRIVEN ROTOR	1000-10b	
	RAIN BIRD	5006-PL-PC-SAM-R-SS WITH #MPR-25 MATCHED PRECIPITATION NOZZLE (RED)	GEAR DRIVEN ROTOR	1000-10b	
	RAIN BIRD	5006-PL-PC-SAM-R-SS WITH #MPR-30 MATCHED PRECIPITATION NOZZLE (GREEN)	GEAR DRIVEN ROTOR	1000-10b	
	RAIN BIRD	5006-PL-PC-SAM-R-SS WITH #MPR-35 MATCHED PRECIPITATION NOZZLE (TAN)	GEAR DRIVEN ROTOR	1000-10b	
	RAIN BIRD	EFB-CP 1/4" TRUE-UNION	ELECTRIC CONTROL VALVE	1000-7a & 1000-7b	
	RAIN BIRD	44-LRC	QUICK COUPLING VALVE	1000-13	
	EXISTING	825YA - 2"	EXISTING BACKFLOW PREVENTER TO BE INSTALLED PER DETAIL	1000-2	
	LEEMCO	LMV - LINE SIZE	GATE VALVE	1000-16	
		CLASS 200 BE - 2 1/2" & SMALLER	PVC MAINLINE	1000-12	
		CLASS 200 BE	PVC LATERAL	1000-12	
		CLASS 160	PVC SLEEVING	1	
			CONTROL WIRE PATH	1000-12	
	N/S	OLDCASTLE / CARSON	VALVE BOXES	VARIOUS	
	N/S	FORD OR MULER	1/4 TURN - 1"	MANUAL DRAIN VALVE	1000-14
	EXISTING	24 STATION	EXISTING CONTROLLER - TO REMAIN AS-IS	N/S	
			EXISTING CONTROL VALVE	N/S	
			EXISTING MAINLINE	N/S	
			EXISTING LATERAL LINE	N/S	
			EXISTING SLEEVING	N/S	
	EX		(EXISTING) GEAR DRIVEN ROTORS	N/S	
	WS		WIRE SPLICES	2	
ALL EXISTING IRRIGATION COMPONENTS HAVE BEEN SHADED BACK FOR CLARITY					
			CONTROLLER & STATION NO.		
			CONTROL VALVE SIZE		
 A (controller)		NUMBER OF SPARE WIRES - 4 CONTROL AND 3 SPARE COMMON WIRES TO INDICATED CONTROLLER - SEE CONSTRUCTION NOTES			

STAMP:



SHEET TITLE:
IRRIGATION NOTES & SCHEDULE



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: AS SHOWN

DESIGNED BY:
HO

DRAWN BY:
HO

CHECKED BY:
TB

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
IR-01



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CENTER OF COLORADO

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UNDERGROUND MEMBER UTILITIES



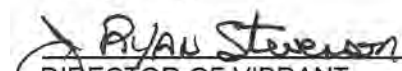
HydroSystems
Irrigation Consulting & Water Management
13949 W. Colfax Ave, Suite 260 Lakewood, Colorado 80401
o: 303.980.5327 www.hydrosystemsmdi.com

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DIRECTORY
IRRIGATION SCHEDULE
IRRIGATION NOTES
IRRIGATION PLAN-PH1
IRRIGATION PLAN-PH2
IRRIGATION DETAILS

IR-01
IR-01
IR-02
IR-03
IR-04 & IR-05

APPROVED:


DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

1-13-2025 DA2024-0034
DATE JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA
"ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR
THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS".
LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS
AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH
THE REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY
FOR FACILITIES DESIGNED BY OTHERS.

1 EXISTING POINT OF CONNECTION - 2"

PEAK FLOW REQUIREMENT: 73 GPM. REQUIRED STATIC PRESSURE: 89 PSI REQUIRED.
CONTRACTOR SHALL LOCATE THE EXISTING 2" WATER METER, EXISTING 2" BACKFLOW PREVENTER AND EXISTING ENCLOSURE AT THIS APPROXIMATE LOCATION. THE EXISTING WATER METER, BACKFLOW PREVENTER AND ENCLOSURE ARE TO STAY IN PLACE. INSTALL ONE NEW GATE VALVE, ONE NEW QUICK COUPLING VALVE, AND EXTEND PVC MAINLINE AS SHOWN (NEW EQUIPMENT IS TO BE INSTALLED PER DETAILS). EXTEND 6 UFUL14# WIRES (TWO ORANGE, TWO BLUE AND TWO GREEN) AND CONNECT 2 OF THE WIRES FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN ASSOCIATED CONTROLLER. WORK SHALL CONFORM TO LOCAL CODE. FEES, PERMITS AND INSPECTIONS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID FOR BY CONTRACTOR.

A EXISTING CONTROLLER LOCATION "A"

CONTRACTOR SHALL LOCATE AND PROTECT THE EXISTING CONTROLLER AT THIS APPROXIMATE LOCATION. EXTEND NEW CONTROL, COMMON & SPARE WIRES TO ALL OF THE CONTROL VALVE LOCATIONS. ALSO EXTEND COMMON & SPARE WIRES TO ALL OF THE SPLICE WIRE (OR MAINLINE CONNECTION) LOCATIONS IN ORDER TO USE ON EXISTING CONTROL VALVES AND FUTURE ONES. EXTEND 6 UFUL14# WIRES (TWO ORANGE, TWO BLUE AND TWO GREEN) AND CONNECT 2 OF THE WIRES FROM THE MASTER VALVE TO THE DATA RETRIEVAL BOARD IN ASSOCIATED CONTROLLER. WORK CONFORMING TO LOCAL CODES. FEES AND PERMITS ASSOCIATED WITH WORK ARE TO BE OBTAINED AND PAID BY CONTRACTOR. ARVADA PARKS STAFF WILL UPGRADE THE EXISTING CONTROLLER FROM 32 TO 48 STATIONS SHOULD THERE BE A NEED FOR EXTRA STATIONS. EXPANSION KIT WILL BE PURCHASED AND INSTALLED BY THE CITY TO INCREASE ZONE COUNT TO 48 STATIONS. CONTRACTOR SHALL COORDINATE WITH ARVADA PARKS STAFF THE SHUT OFF OF THE EXISTING IRRIGATION SYSTEM.

CONTRACTOR SHALL PROTECT EXISTING LANDSCAPE AND IRRIGATION TO REMAIN. DAMAGE DONE TO THESE AREAS AS PART OF NEW CONSTRUCTION SHALL BE REPAIR OR REPLACED AT NO ADDITIONAL COST TO OWNER.

LATERAL LINE TO BE CAP FOR ARVADA PARKS FUTURE USE

NEW CONTROL WIRE PATH

CONTRACTOR SHALL PROTECT EXISTING LANDSCAPE AND IRRIGATION TO REMAIN. DAMAGE DONE TO THESE AREAS AS PART OF NEW CONSTRUCTION SHALL BE REPAIR OR REPLACED AT NO ADDITIONAL COST TO OWNER.

CONTRACTOR SHALL FIELD STAKE AND COORDINATE ROTORS IRRIGATION ADJACENT TO THE EXISTING ROTOR AREAS WITH ARVADA STAFF PRIOR TO FINAL INSTALLATION. REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.

IRRIGATION LATERAL LINE (ROTORS) 18" FROM TOP OF THE PIPE. SERVICE WATER LINE ARE TYPICALLY 48" DEEP FROM TOP OF LINE.

IRRIGATION LATERAL LINE (ROTORS) 18" FROM TOP OF THE PIPE. SERVICE WATER LINE ARE TYPICALLY 54" DEEP FROM TOP OF LINE.

EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.

PHASE 1 - IRRIGATION AS EXISTING

T PVC LATERAL LINE CAP

CONTRACTOR SHALL EXTEND THE NEW PVC LATERAL AND CAP AT THIS APPROXIMATE LOCATION FOR FUTURE PHASE 2 (5/16 AS SHOWN).

U REMOVAL OF THE EXISTING ELECTRIC CONTROL VALVES

CONTRACTOR SHALL LOCATE THE EXISTING ELECTRIC CONTROL VALVES AT THIS APPROXIMATE LOCATION. REMOVE AND COORDINATE WITH THE STAFF THE RETURN OF ANY PARTS THAT MAY BE USEFUL TO THEM.

W MAINLINE CONNECTION

CONTRACTOR SHALL LOCATE THE EXISTING 2" PVC MAINLINE AT THIS APPROXIMATE LOCATION. CUT, TIE-ON, INSTALL ONE NEW QUICK COUPLER AND EXTEND THE NEW 2" PVC MAINLINE AS SHOWN. CONTRACTOR SHALL ALSO LOCATE THE EXISTING CONTROL WIRES THAT OPERATE THE ZONES WEST OF THIS LOCATION. CUT, SPLICE AND EXTEND NEW CONTROL WIRES AND COMMON FROM THE EXISTING CONTROLLER LOCATION TO THIS LOCATION. INSTALL SPLICES INSIDE ONE NEW 10" ROUND VALVE BOX.

PLAN INCLUDED FOR REFERENCE ONLY

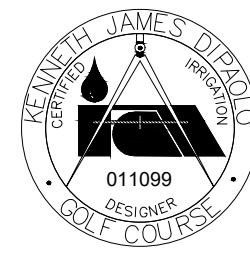
PLAN INCLUDED FOR REFERENCE ONLY. REFER TO AS-BUILT DRAWINGS FROM 17-SR-07 FOR PHASE 1 IRRIGATION.

DIRECTORY
IRRIGATION SCHEDULE
IRRIGATION NOTES
IRRIGATION PLAN-PH1
IRRIGATION PLAN-PH2
IRRIGATION DETAILS

IR-01
IR-01
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SHEET TITLE:

PHASE 1 - IRRIGATION AS EXISTING
PLAN INCLUDED FOR REFERENCE ONLY. REFER TO AS-BUILT DRAWINGS FROM 17-SR-07 FOR PHASE 1 IRRIGATION.

CITY OF ARVADA



PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:

HO

DRAWN BY:

HO

CHECKED BY:

TB

DATE:

NOVEMBER, 2024

REVISION:

100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:

IR-02



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13949 W. Colfax Ave, Suite 260 Lakewood, Colorado 80401
o: 303.980.5327 www.hydrosystemsmdi.com

KDI

1 EXISTING POINT OF CONNECTION - 2"

PEAK FLOW REQUIREMENT: 73 GPM. REQUIRED STATIC PRESSURE: 89 PSI REQUIRED.
CONTRACTOR SHALL PROTECT THE EXISTING IRRIGATION EQUIPMENT.

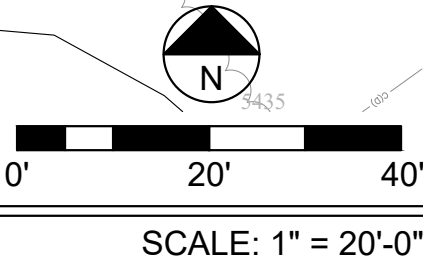
A EXISTING CONTROLLER LOCATION "A"

CONTRACTOR SHALL LOCATE AND PROTECT THE EXISTING CONTROLLER AT THIS APPROXIMATE LOCATION. COORDINATE WITH ARVADA PARKS THE STATION NUMBERS FOR THE NEW ZONES.

CONTRACTOR SHALL PROTECT EXISTING LANDSCAPE AND IRRIGATION, TO REMAIN. DAMAGE DONE TO THESE AREAS AS PART OF NEW CONSTRUCTION SHALL BE REPAIR OR REPLACED AT NO ADDITIONAL COST TO OWNER.

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IRRIGATION PLAN - PHASE 2



S ROTOR HEAD ADJUSTMENT

CONTRACTOR SHALL LOCATE THE EXISTING FULL CIRCLE ROTOR AT THIS APPROXIMATE LOCATION. REMOVE THE EXISTING FULL ROTOR AND REPLACE WITH ONE NEW PART CIRCLE ROTOR.

T PVC LATERAL LINE CONNECTION

CONTRACTOR SHALL LOCATE THE EXISTING PVC LATERAL AT THIS APPROXIMATE LOCATION. CUT, CONNECT AND EXTEND THE NEW LATERAL AS SHOWN (MATCH EXISTING SIZE).

W MAINLINE CONNECTION

CONTRACTOR SHALL LOCATE THE EXISTING 2" PVC MAINLINE AT THIS APPROXIMATE LOCATION. CUT, TIE-ON, INSTALL ONE NEW QUICK COUPLER AND EXTEND THE NEW 2" PVC MAINLINE AS SHOWN. CONTRACTOR SHALL ALSO LOCATE THE EXISTING CONTROL WIRES THAT OPERATE THE ZONES WEST OF THIS LOCATION. CUT, SPLICE AND EXTEND NEW CONTROL WIRES AND COMMON FROM THE EXISTING CONTROLLER LOCATION TO THIS LOCATION. INSTALL SPLICES INSIDE ONE NEW 10" ROUND VALVE BOX.

Y LATERAL LINE CONNECTIONS

CONTRACTOR SHALL LOCATE THE EXISTING PVC LATERAL LINE AND MARK DURING DEMOLITION AT THIS APPROXIMATE LOCATION. CUT, TIE-ON AND EXTEND THE NEW LATERAL LINE AS SHOWN.

Z REMOVAL OF EXISTING SPRAY HEADS

CONTRACTOR SHALL LOCATE THE EXISTING ROTORS AT THIS APPROXIMATE LOCATION, REMOVE AND RETURN TO STAFF.

EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.

DIRECTORY
IRRIGATION SCHEDULE
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IRRIGATION PLAN-PH2
IRRIGATION DETAILS

IR-01
IR-01
IR-02
IR-03
IR-04 & IR-05

APPROVED:

DIRECTOR OF VIBRANT COMMUNITY & NEIGHBORHOODS

1-13-2025
DATE

DA2024-0034
JOB NUMBER

REVIEW IS FOR GENERAL COMPLIANCE WITH CITY OF ARVADA "ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS", LATEST EDITION. SOLE RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS SHALL REMAIN WITH THE REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY FOR FACILITIES DESIGNED BY OTHERS.

Know what's below.
Call before you dig.

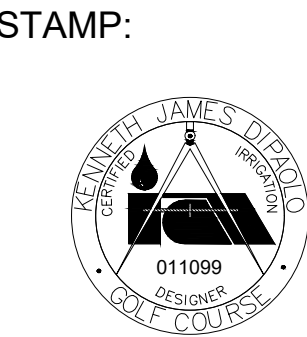
UNCC
UTILITY NOTIFICATION
CENTER OF COLORADO

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE
YOU DIG, GRADE OR EXCAVATE FOR MARKING OF
UNDERGROUND MEMBER UTILITIES

HydroSystems
Irrigation Consulting & Water Management
13949 W. Colfax Ave, Suite 260
o: 303.980.5327
Lakewood, Colorado 80401
www.hydrosystemsmdi.com

Landscape Architecture & Planning

4383 TENNYSON ST #1A
DENVER, CO 80212
303.455.3779
WWW.STUDIOCPG.COM



SHEET TITLE:
IRRIGATION PLAN

CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: 1" = 20'

DESIGNED BY:
HO

DRAWN BY:
HO

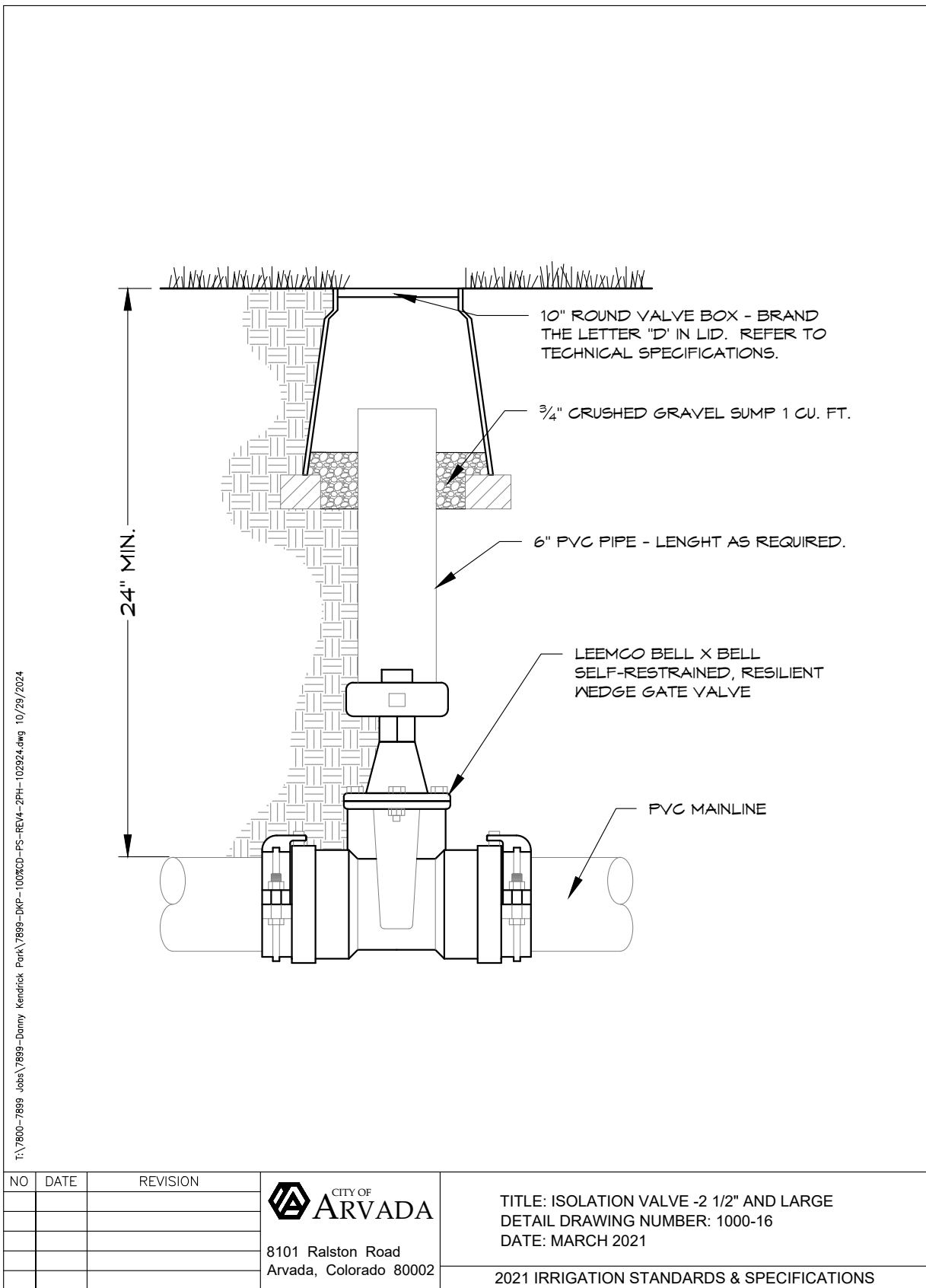
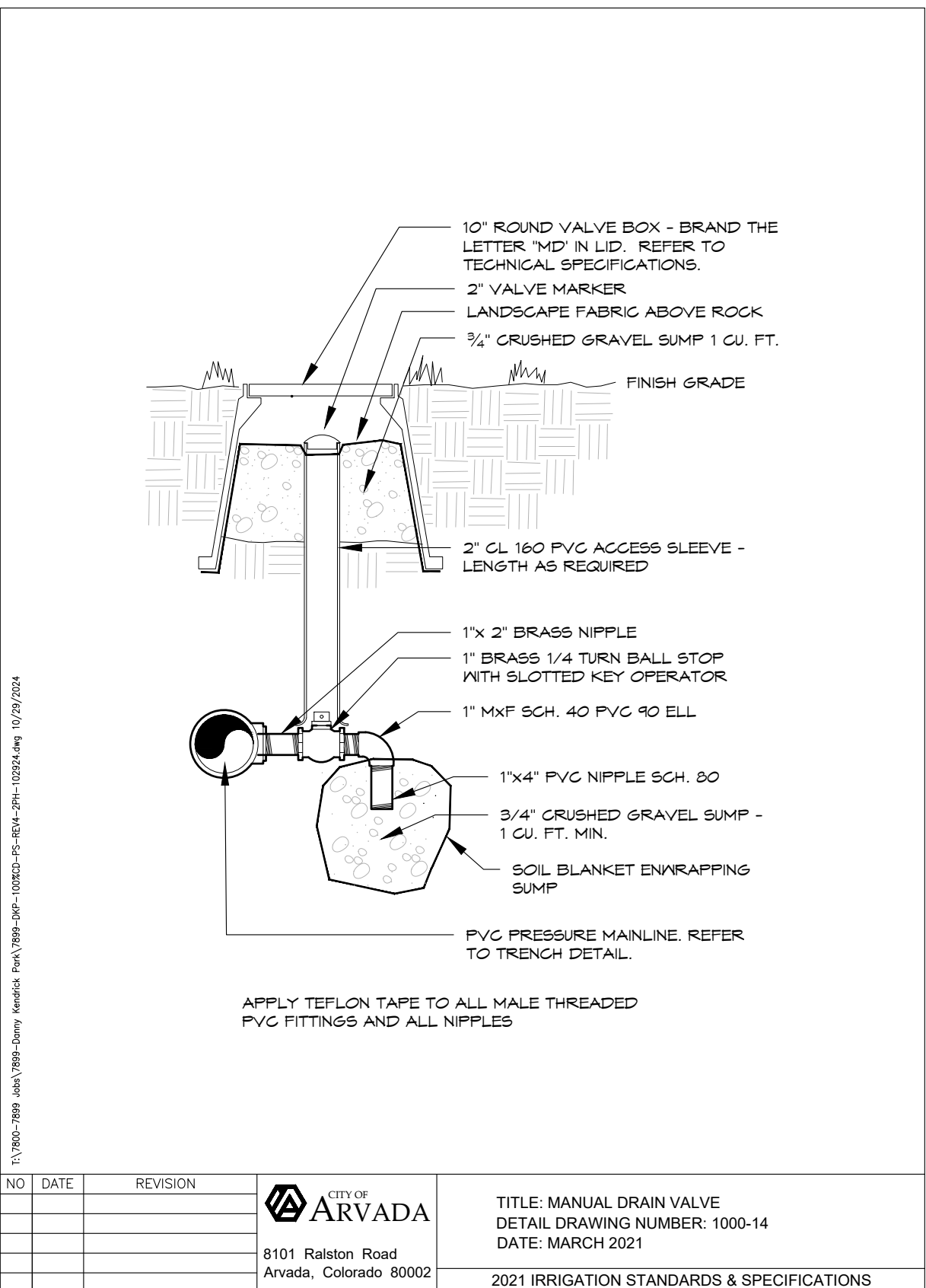
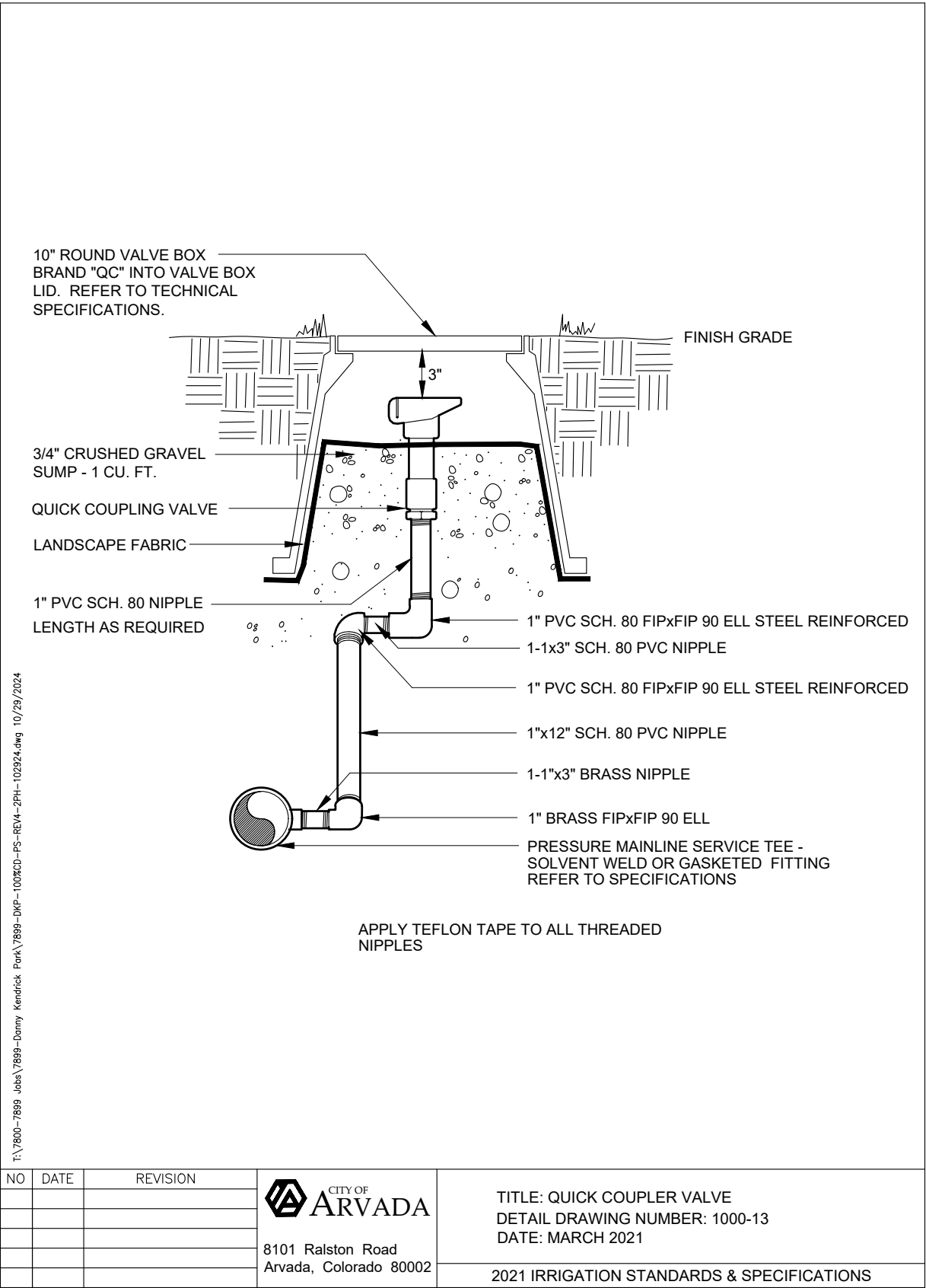
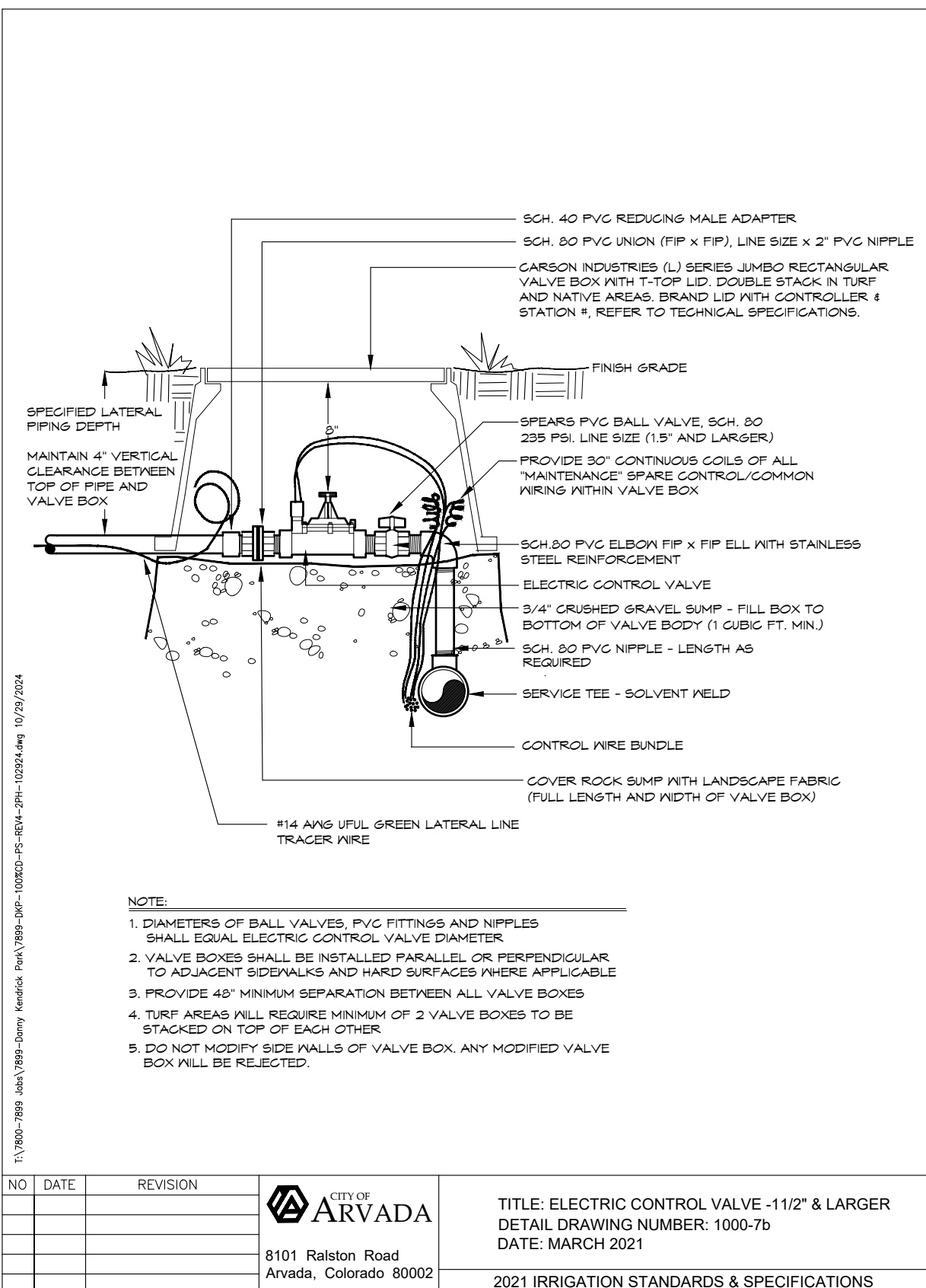
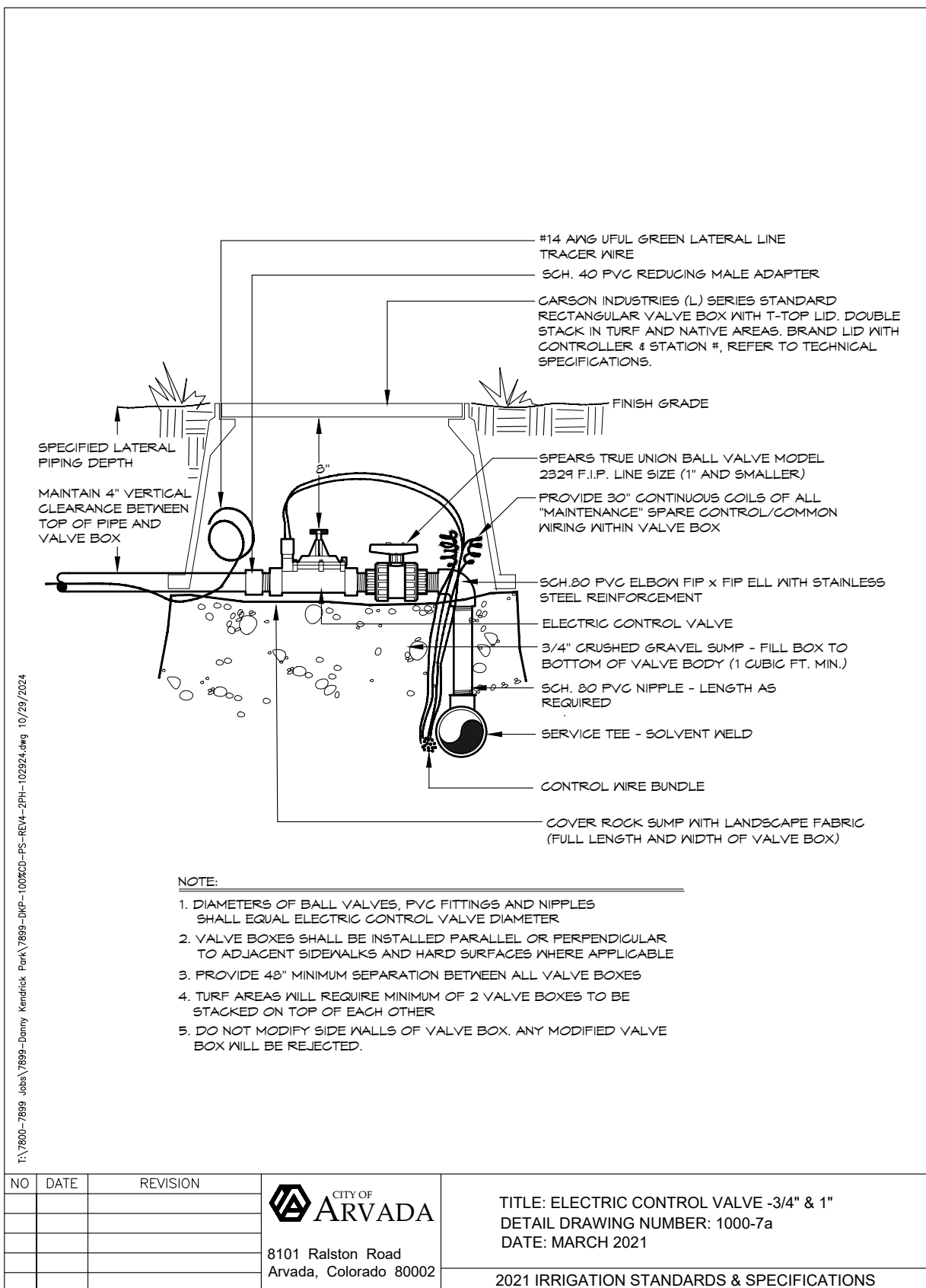
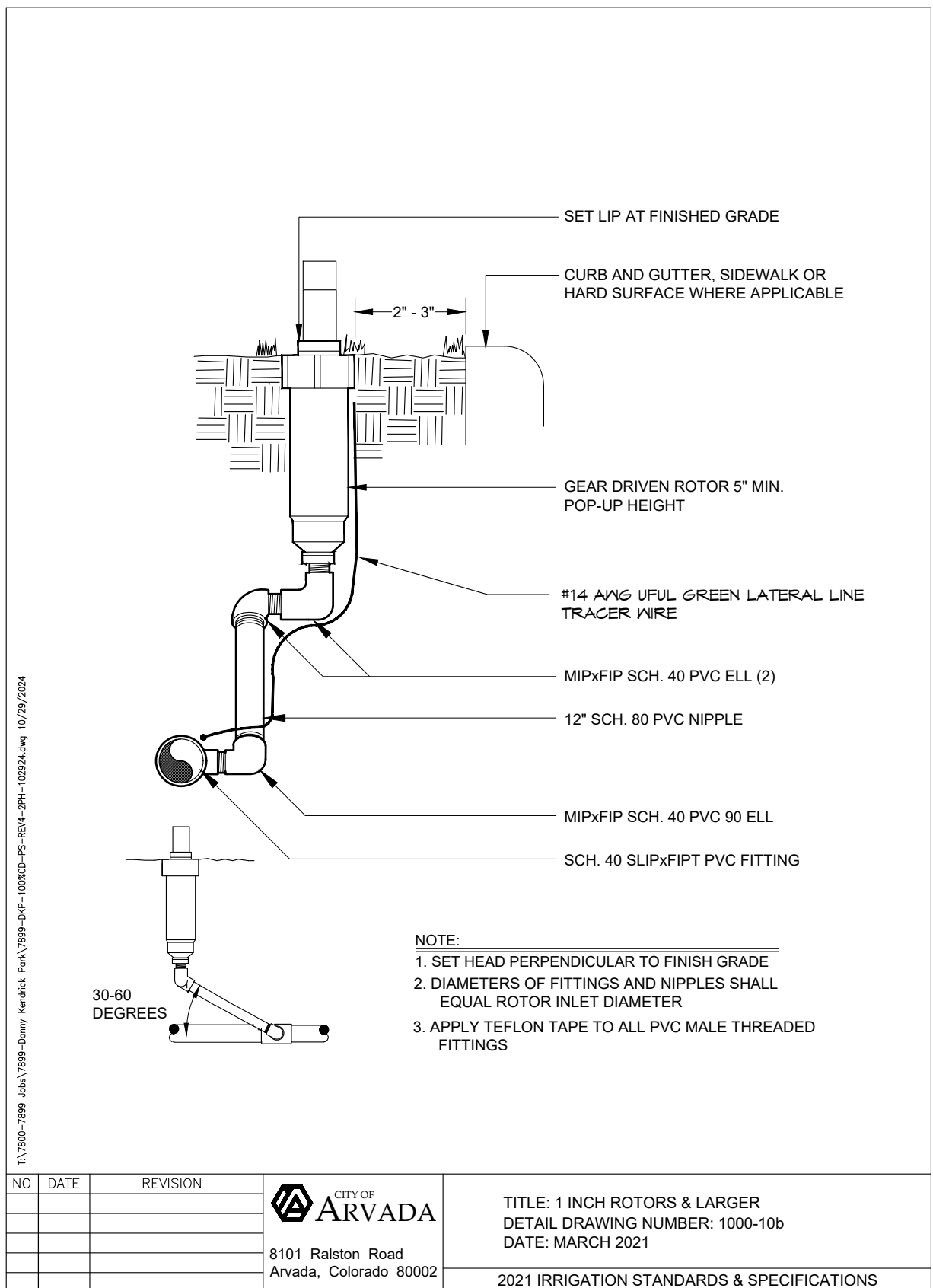
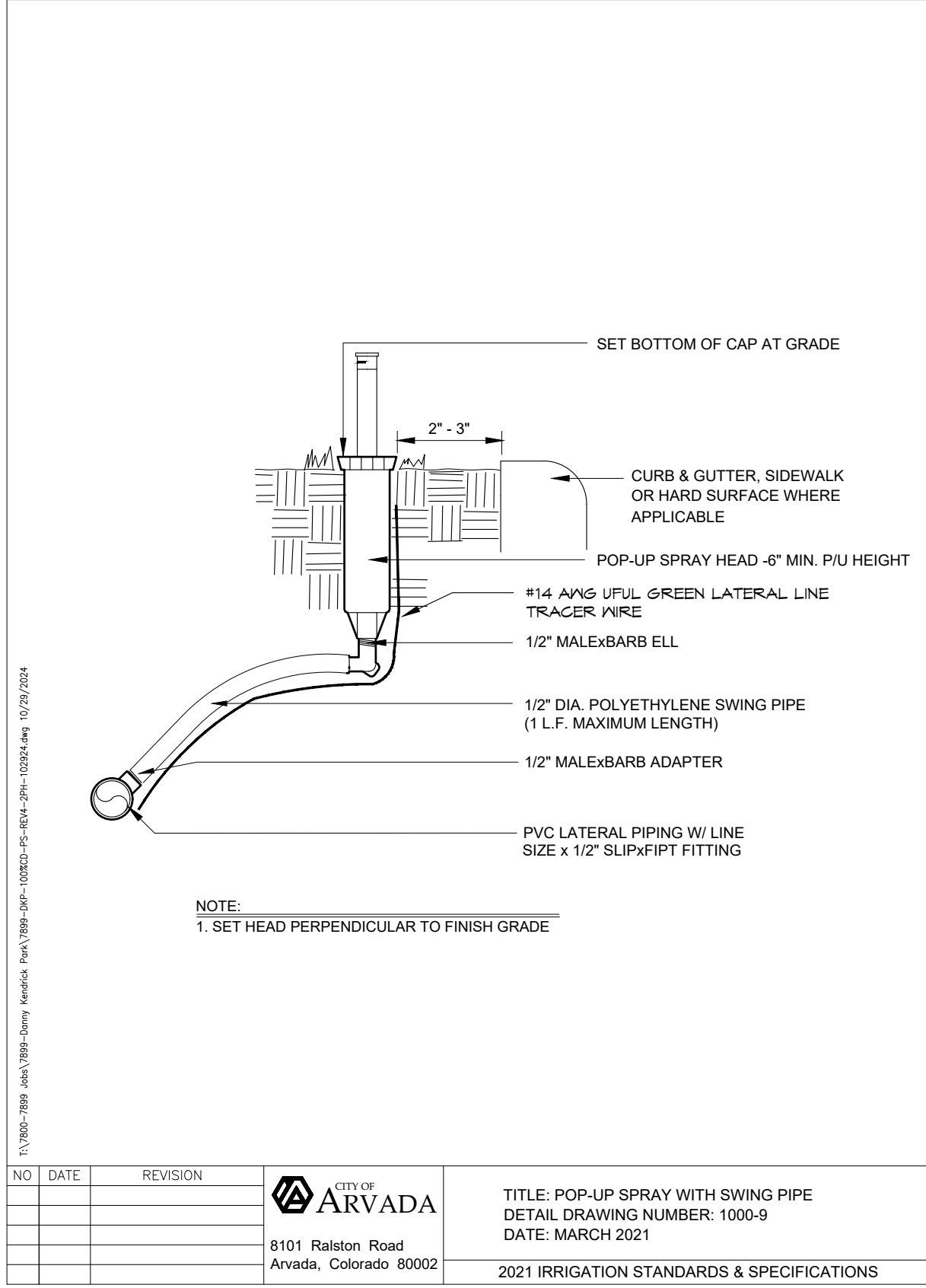
CHECKED BY:
TB

DATE:
NOVEMBER, 2024

REVISION:
100%
CONSTRUCTION
DOCUMENTS

PROJECT NO.:

SHEET NUMBER:
IR-03



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Landscape Architecture & Planning

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DENVER, CO 80212
303.455.3779
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STAMP:

011099

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 11/27/2024

SHEET TITLE:

IRRIGATION DETAILS

CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

SCALE: AS SHOWN

DESIGNED BY: HO

DRAWN BY: HO

CHECKED BY: TB

DATE: NOVEMBER, 2024

REVISION: 100%
CONSTRUCTION DOCUMENTS

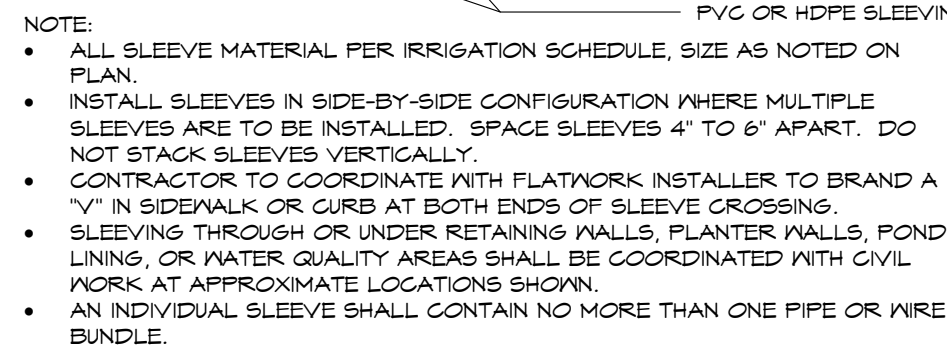
PROJECT NO.:

SHEET NUMBER: IR-04



CITY OF
ARVADA

TITLE: TRENCH DEPTH
DETAIL DRAWING NUMBER: 1000-12
DATE: MARCH 2021



1

NOTE:

1. SET TOP OF BOX LEVEL WITH FINISHED GRADE IN TURF AREAS AND LEVEL WITH TOP OF MULCH IN SHRUB BEDS
2. USE STANDARD RECTANGULAR VALVE BOX WITH BOLT DOWN LID FOR SPLICES OF MORE THAN TWENTY (20) WIRES.

2

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WWW.STUDIOCPG.COM

IRRIGATION DETAILS



CITY OF ARVADA

PROJECT: PLAYGROUND REPLACEMENT AT
DANNY KENDRICK PARK EAST
11960 W 70TH WAY ARVADA, CO 80004

ALVADA, CO 80004

R-05



CALL **811** 2-BUSINESS DAYS IN ADVANCE BEFORE
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Irrigation Consulting & Water Management
13949 W. Colfax Ave, Suite 260 Lakewood, Colorado 80401
o: 303.980.5327 www.hydrosystemskdi.com

IR-01
IR-01
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IR-04 & IR-05

APPROVED:

[Signature]
DIRECTOR OF VIBRANT
COMMUNITY & NEIGHBORHOODS

1-13-2025	DA2024-0034
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SEALING THESE PLANS. THE CITY DOES NOT ACCEPT LIABILITY
FOR FACILITIES DESIGNED BY OTHERS.



CITY OF ARVADA

PURCHASING DIVISION
FACSIMILE: 720-898-7098 ▲ TDD: 720-898-7869
PHONE: 720-898-7099

COMPETITIVE SEALED BID - ADDENDUM

Bid #: 25-VCN-034
Title: CSB – Danny Kendrick Park East Playground Replacement
CSB Issued: 04/07/2025
Addendum #: 1
Today's Date: 04/18/2025
Bids Due By: **04/30/2025 2:00 PM** MDT (NO CHANGE)
Questions Deadline: **04/24/2025 2:00 PM** MDT (NO CHANGE)

Solicitation and all related addenda and communications are available at WWW.BIDNETDIRECT.COM

The following documents are provided to be incorporated into the CSB # 25-VCN-034 – Danny Kendrick Park East Playground Replacement.

All other information shall remain unchanged.

1. 25-VCN-034 CSB Prebid Meeting Agenda
2. 25-VCN-034 CSB Pre-Bid Meeting Q&A
3. 25-VCN-034 CSB Pre-bid Attendee Sign-In Sheet
4. DKPE_Exhibit 1_Limit of Work
5. DKPE_Exhibit 2_Site Furniture Layout



Pre-Bid Meeting Agenda

PROJECT NAME: 25-VCN-034 CSB – Danny Kendrick Park East Playground Replacement

MEETING DATE/TIME: Date: April 17, 2025
Time: 1:00 – 2:00 pm
Meeting Location: Project Site - 11960 West 70th Way, Arvada CO 80004

1. Sign-in list for Pre-Bid attendee's
 - a. This meeting is not mandatory
2. Introductions
 - a. Chad Hollingsworth – City of Arvada (owner/project manager)
 - b. Dawn Krank – City of Arvada (procurement)
 - c. Brian Pille – Wenk Associates (landscape architect)
 - d. Parks Maintenance team
3. Project Overview
 - a. General project scope - Items include, but not limited to:
 1. Erosion Control & Stormwater Management
 2. Construction Surveying & Staking
 3. Site Demolition & Removal
 4. Construction Fencing & Tree Protection Fencing
 5. Site Grading & Earthwork
 6. Strip, Stockpile, & Place Topsoil
 7. Concrete Sidewalks, Seating Area, Steps, Curb, Gutter, & Edger
 8. Concrete Playground Curb, Plinth, & Misc. Flatwork
 9. Play Equipment
 10. Poured-in-Place Playground Surfacing
 11. Playground Subdrain and Outlet Structure
 12. Reinstall Park Sign on New Concrete Footers
 13. Relocate Existing Boulders on Site
 14. Landscaping
 15. Irrigation System
 16. Site Furnishings
 - b. Revised area and limits of construction (exhibit 1)
 - c. Location of site furnishings listed in Section SP-20 of CSB (exhibit 2)
4. Coordination Items:
 - a. **Contractor to bid plans “As-is”**. No pre-approved substitutes prior to bidding.
 1. If no bid item exists for a portion of work, include the costs in a related bid item.
 2. Exception is revised limit of work, layout of construction fencing and bluegrass turf areas identified in the exhibit and addendum
 - b. Bidders, sub-contractors and suppliers must be familiar with the current City of Arvada Engineering Code of Standards and Specifications for the Design and Construction of Public Improvements, dated October 2, 2023



- c. Bidding Dates:
 - 1. Question deadline: 4/24/2025 – 2:00 pm MT
 - 2. Bid due: 4/30/2025 – 2:00 pm MT
 - d. Bid Submittal Requirements:
 - 1. Electronic submissions must be submitted online at BidNetDirect.com by the above date and time. Be sure to allow enough time for complete upload before the cut-off time. Late responses will not be considered for award. Submit bid as one (1) PDF file. Company name must start the file name.
 - 2. Must include bid bond, signed bid proposal, bid schedule, and vendor form.
 - e. Bid Security:
 - 1. Each Bid must be accompanied by a PHOTO of the Bid Bond, on the form attached to these contract documents, payable to the City for five (5) percent of the total amount of the Bid. As soon as the bid Prices have been compared, the City will issue intent to award on the Bidnetdirect.com web site. The vendor who is named as the intent to award Contractor must submit the physical Bid Bond within 10 days or the intent to award may be revoked. The Bid Bond of the successful Bidder will be retained until the Payment and Performance Bond has been executed and approved after which it will be returned. A certified check may be used in lieu of a Bid Bond.
 - f. Contract Security:
 - 1. A Performance and Payment Bond, on the form attached to the contract documents, in the amount of 100% of the Contract price, with a corporate surety approved by the City, will be required for the faithful performance of the Contract.
 - g. Contract Time: 120 working days after the Notice to Proceed
 - h. Liquidated Damages: Refer to the Schedule in Section SP-25 of CSB
 - i. Materials Testing: Provided and paid for by Contractor
 - j. Construction Surveying: Provided and paid for by Contractor
 - k. Contractor is responsible for providing all as-built drawings at the end of the project.
5. Contractor questions:
- a. Now is the opportunity to talk to the project team, otherwise no communication with anyone other than purchasing while the solicitation is open. After the pre-bid meeting, everything must be submitted to Bidnet for inclusion in the RFP record.



Pre-Bid Meeting – Q&A/Notes

PROJECT NAME: 25-VCN-034 CSB – Danny Kendrick Park East Playground Replacement

MEETING DATE/TIME: Date: April 17, 2025
Time: 1:00 – 2:00 pm
Meeting Location: Project Site - 11960 West 70th Way, Arvada CO 80004

See attached copy of the Pre-Bid Meeting Agenda and Sign-in List.

1. Question: Will the park sign be delivered to the site?
Response: Yes. The City temporarily removed the existing sign to have it repainted, but Parks staff will deliver it back to Danny Kendrick Park East for the contractor to install on their new concrete footings. The bidders can request to see the park sign which is currently being stored at Parks Maintenance Facility. The CSB documents also include reference drawings for how the sign's mounting plate assembly will be attached to the concrete footers.
2. Question: When will the notice to proceed be issued?
Response: The City anticipates that the NTP will be issued on May 23rd. The contract time is 120 working days, and the project should be completed by mid-November 2025.
3. Question: Will any additional permits, such as right-of-way or building permits, be required?
Response: A building permit is not required for the playground. The right-of-way permit will be necessary for the sidewalk, curb, and gutter replacement work on West 70th Way. The fee for the right-of-way permit will be waived since it is a capital improvement project for the City.
4. Question: Did the irrigation installed in Phase 1 have wire installed, as well?
Response: Yes. The irrigation wires for the first phase of irrigation located on the east side of the park was installed by the contractor working on the Ralston Creek sewer line replacement. The system has not been tested yet, but Parks anticipates that the irrigation will be activated and tested before April 30th.
5. Question: Is relocating the existing boulders on site part of the work?
Response: Yes. One large boulder and four smaller boulders will be placed by the contractor as part of the work.

Additional notes/comments that were discussed:

- The bidders were provided with two printed plans at the Pre-Bid meeting that illustrated the current condition of the site and where the new site furnishings will be installed by the contractor. Those exhibits have been included in addendum #1.
- The first exhibit shows the revised limit of work, revised construction fence location, and additional bluegrass turf required for the project. The bid schedule in the CSB documents has the correct quantities that match this exhibit. The bid schedule should be used and not the material table on sheet C-01 of the construction plans.
- The second exhibit shows the layout of the site furniture for the project. Two trash receptacles and three bike racks were listed in Section SP-20 of the CSB, but the construction plans did not show their intended location. Each trash receptacles will require a 3' x 3' concrete pad that is a minimum of 4" thick.



- The bidders were reminded that the demolition and removal of the old concrete footers for the previous park sign is included in the scope. The depth of the existing footers is not known, but the contractor will remove the concrete to a minimum depth of two feet below finished grade. The area will be backfilled with existing topsoil from the site. The segmental blocks that border the 5' x 12' area will also be hauled away. See photo below.



- The City would like for the bidders to include the Excel file of their completed Bid Schedule, if available. This should be uploaded with the other bid documents in BidNet.
- Any additional questions should be submitted through BidNet.

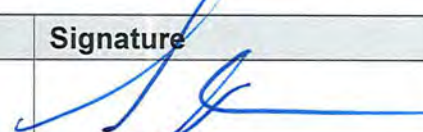
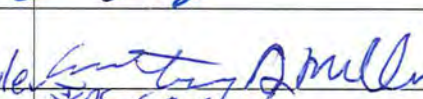
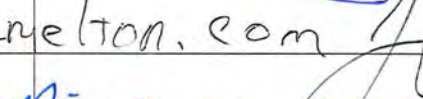
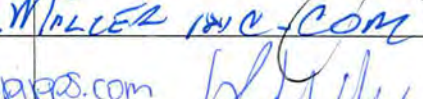
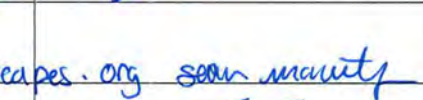
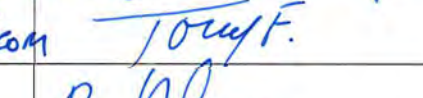
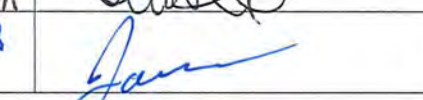
PRE-BID MEETING ATTENDANCE SHEET

Bid # 25-VCN-034 - Danny Kendrick Park East Playground Replacement

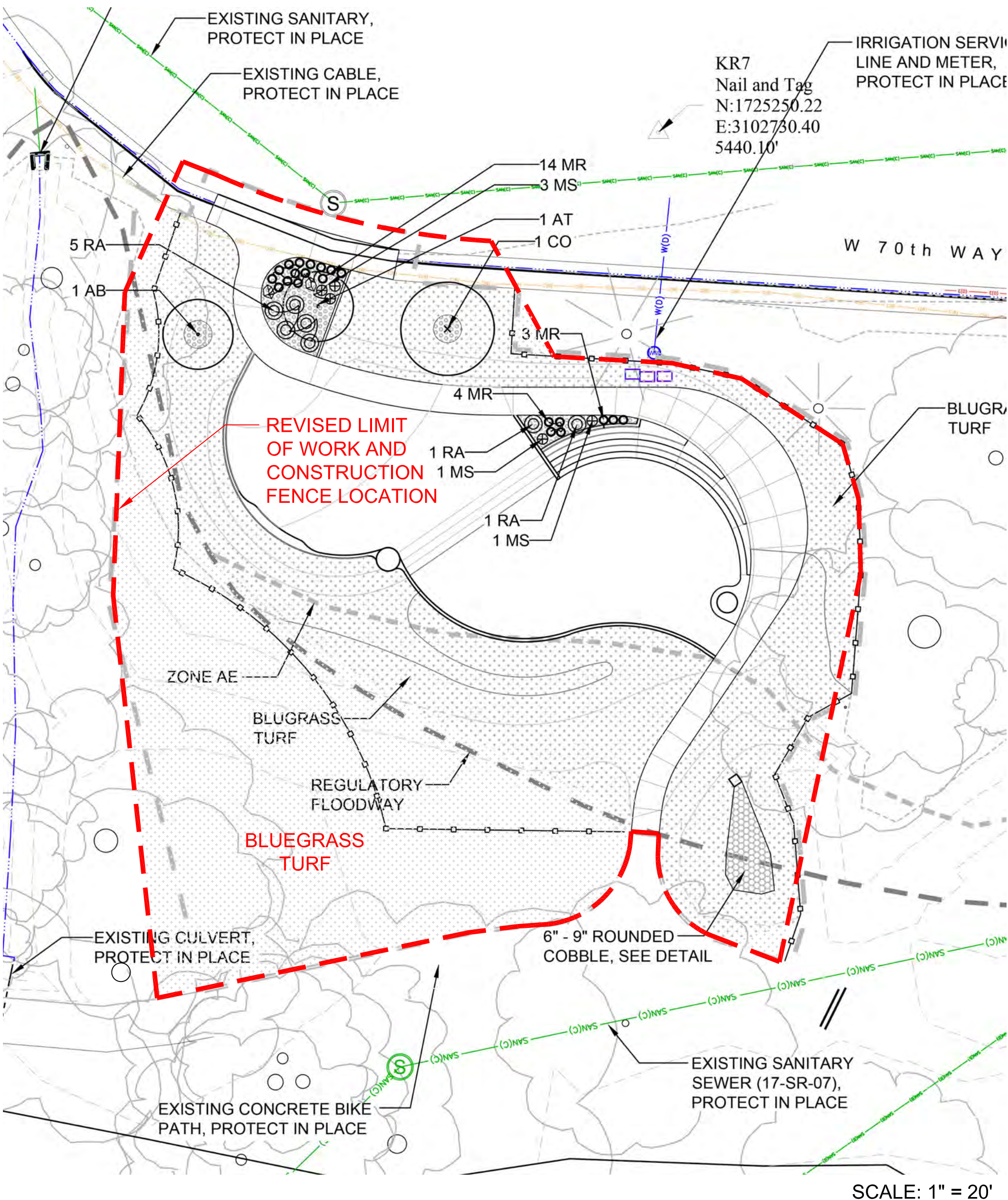
Meeting Date/Time: 4/17/2025 - 1:00 pm MT

Facilitator: Chad Hollingsworth

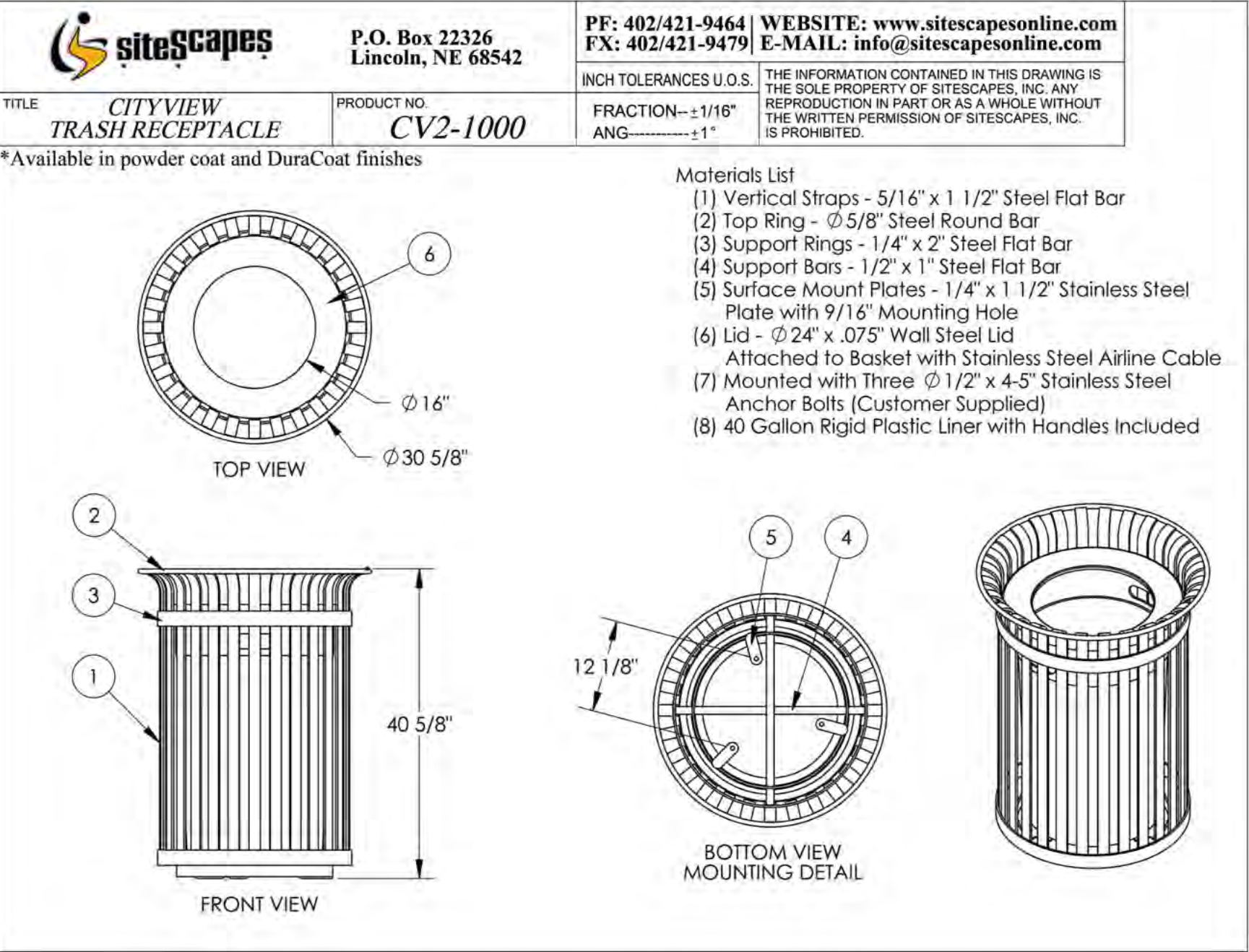
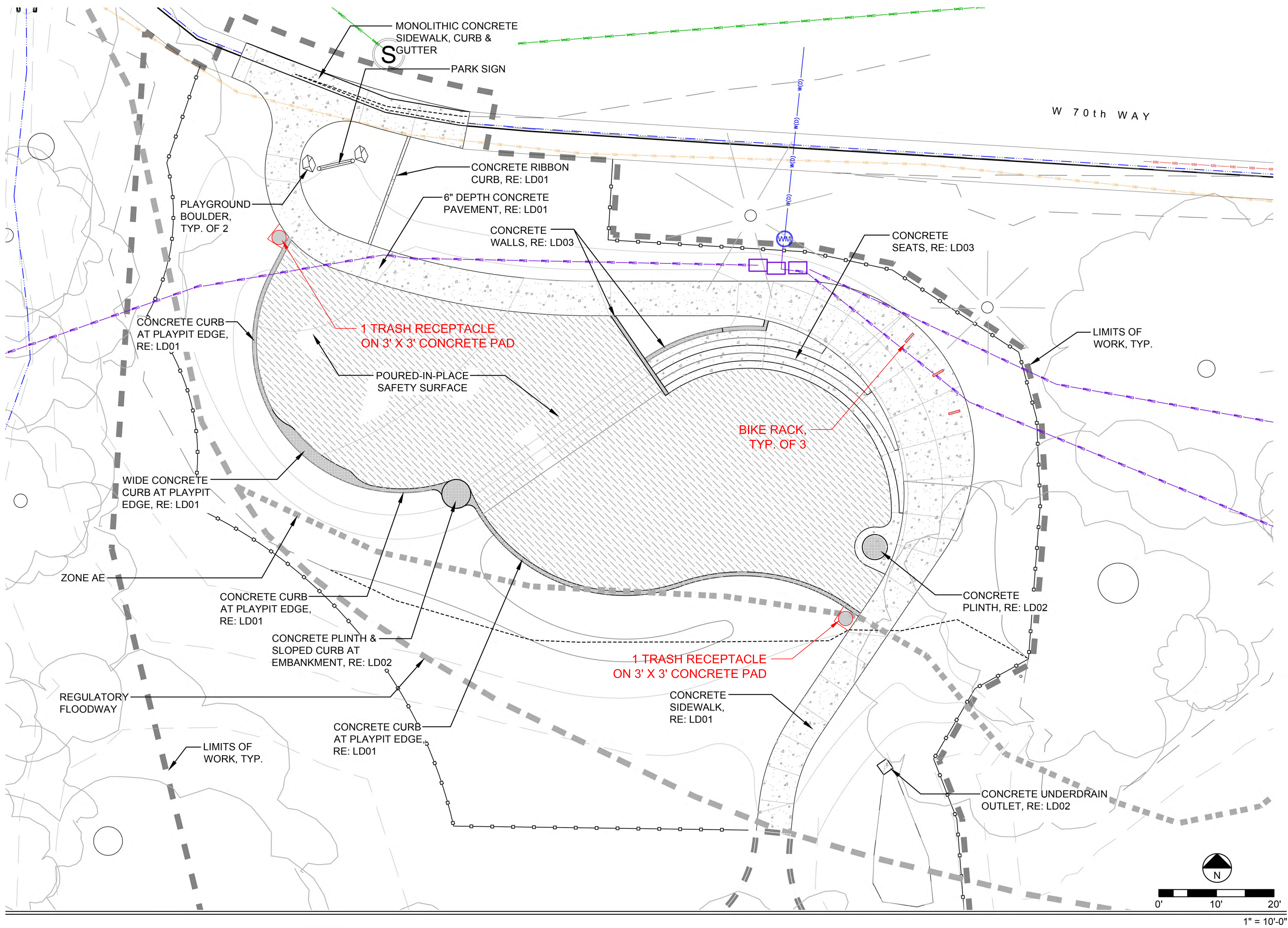
Place: Danny Kendrick Park East, 11960 West 70th Way, Arvada CO 80004

Company	Representative Name	Phone	E-Mail	Signature
Richdell Const	Scott Richdell	303-252-0809	srichdell@richdell.com	
AD Miller	Anthony Miller	303-221-7770	adam@admler.com	
Rocky Mountain Rec.	Thomas Beasley	303-783-1452	thomas@rmrcc.com	
JL Melton	James Coleman	907-360-7698	James@JLmelton.com	
A.J. MILLER	Allen Miller	3/221-7770	Sandy-A.J.MILLER INC.COM	
GH Phipps	Kiki McCartney	720-682-6116	kiki.mccartney@ghpphs.com	
Arrow J	Gary Olson	720 299 5714	golson@arrowj.com	
DESIGNSCAPES	SEAN MCNULTY	303 . 721 . 9003	smcnulty@designscapes.org	
CUSTOM LANDSCAPES OF COLORADO	Tony Fuchs	3-898-3188	TONY @ CUSTOM LANDSCAPES OF CO.COM	
SCS.INC.	Brian Richmond	720 467 9162	Brichmond@scs-construction.com	
STAR PLAYGROUNDS	Addie Bernise	303-889-9736	addie@star-playgrounds.com	
SCL LLC	Terril Lee	303-901-5111	terril@scl-contractor.com	
Cornerstone	Jameson Barnard	720-328-5658	jameson.barnard@gmail.com	

Company	Representative Name	Phone	E-Mail	Signature
Civil Specialties	Luis Macias	970-908-8266	luis@civilspecialties.com	
	DRIAN PILWE		driane@wenkha.com	
Parks D2/COA	Isaac Armstrong	720 3807517	iarms@arvada.org	
Parks/COA	Chad Hollingsworth			
Park/COA	Jarred Cook	303-419-9986	Jcook@arvada.org	

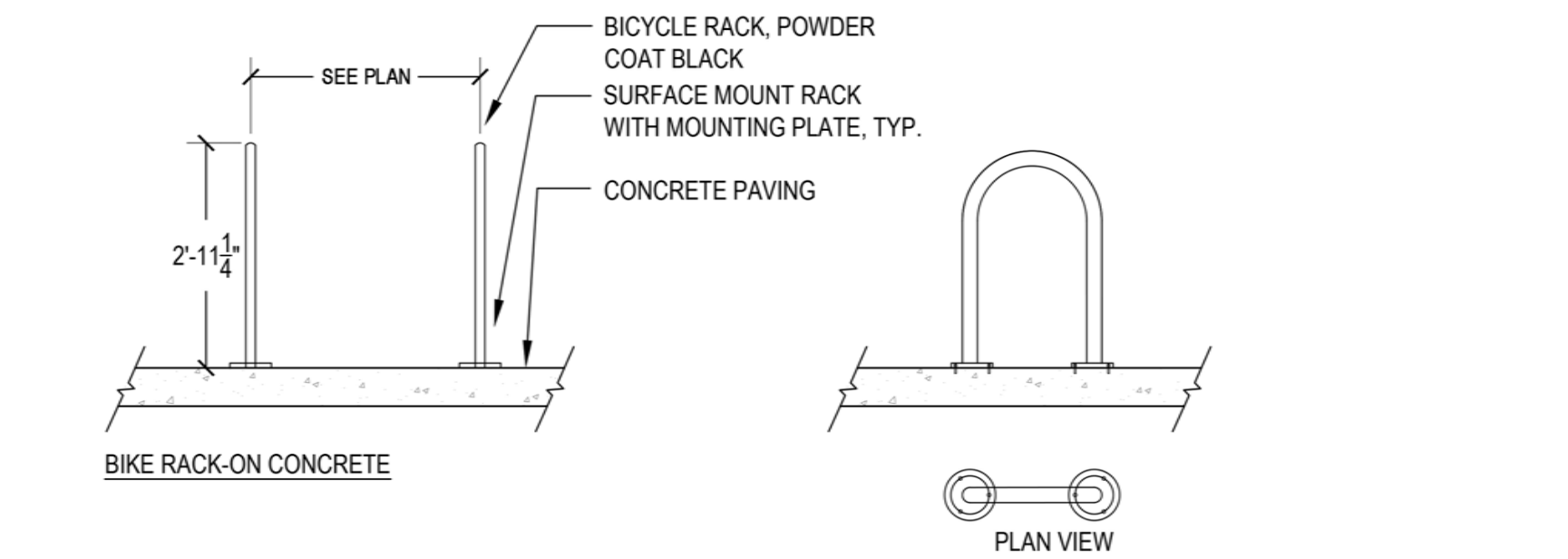


DANNY KENDRICK PARK EAST PLAYGROUND
ADDENDUM 1 - REVISED LIMIT OF WORK,
CONSTRUCTION FENCE LOCATION,
AND ADDITIONAL BLUEGRASS TURF



○ TRASH RECEPTACLE

NOT TO SCALE



○ BIKE RACK

NOT TO SCALE

DANNY KENDRICK PARK EAST PLAYGROUND
ADDENDUM 1 - SITE FURNITURE LAYOUT



Addendum Description

Addendum 2 contains answers to the questions received, the PIP playground surfacing specification (reference Question/Answer 1a.), and extends the Bid Due Date to 2:00 pm, Friday, May 2, 2025.

Notice Modifications

Notice Information	From Value	To Value
Closing Date	4/30/25 2:00 PM MST/MDT	5/2/25 2:00 PM MST/MDT

Category Modifications

Added Categories
No Categories Added

Removed Categories
No Categories Removed

Added Documents[A]

Document	Size	Uploaded Date	Language
Q&A Document 1.pdf [pdf]	2 Kb	04/28/2025 10:40 AM MDT	English
PIP Playground Surfacing Specifications.pdf [pdf]	4 Mb	04/28/2025 10:41 AM MDT	English

Questions & Answers - 1

Solicitation

25-VCN-034 - Danny Kendrick Park East Playground Replacement

Buying Organization

City of Arvada

No	Question/Answer	Question Date
Q1	Question: Poured In Place Surfacing a. Are there any specifications on the PIP Surfacing? b. Color? c. Mix of 50/50? Answer: a. Yes. The specifications for the PIP playground surfacing have been included in this addendum. Prior to installation, the contractor shall confirm the PIP thickness meets the critical fall height requirements for the play equipment. An aromatic binder will be applied to the top surface of the PIP surfacing. b. The color of the PIP surfacing has not been determined. The contractor shall submit color samples to the owner's representative after the Notice To Proceed has been issued. c. Yes. The PIP playground surfacing will be a 50/50 mix. One color (TBD) will be mixed with the black granules.	04/23/2025
Q2	Question: Street Cut & Patch Is there a requirement for asphalt cut & patch for the new ramp on 70th Way? Answer: A ramp is not shown at the intersection of the new trail and sidewalk at West 70th Way. The plans specify for the replacement of the damaged monolithic concrete sidewalk, curb, and gutter. The contractor will need to cut and patch the asphalt back 24 inches in this area per City of Arvada's requirements.	04/23/2025

3-Part Specification: PlayBound™ Poured-in-Place



SURFACEAMERICA®

Surface America, Inc. • PO Box 157 • Williamsville, NY 14231
Phone: (800) 999-0555 • Phone: (716) 632-8413 • Fax: (716) 632-8324
info@surfaceamerica.com • www.surfaceamerica.com

PART 1 – GENERAL

1.01 SUMMARY

A. Section Includes: Poured-in-Place Playground Surfacing System: Super-7 (when aromatic urethane for the top surface is specified) with a 7-year warranty & Extreme-10 (when aliphatic urethane for the top surface is specified) with a 10-year warranty.

Specifier Note: Revise paragraph below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the paragraph below. In the absence of related sections, delete paragraph below.

Specifier Note: Site materials and methods, drainage, playground equipment, fencing, substrate preparation and similar work is provided by others and is described in other sections. Consult manufacturer for specific substrate preparation requirements. Edit, retain or delete paragraph below to suit project requirements and specifier practice.

B. Related Sections: Division 2 Sitework Sections: Materials and Methods, Excavation, Asphalt Paving, Concrete Paving, Sub-Drainage, Storm Drainage, Fencing, Playground Equipment and Structures.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.

2. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
3. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
4. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.
5. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.
6. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
7. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties required to link components of a system together and to interface with other systems.

1.03 SYSTEM DESCRIPTION

A. Performance Requirements: Provide a 2-layer rubber-urethane playground surfacing system which has been designed, manufactured and installed to meet the following criteria:

1. Shock Attenuation (ASTM F1292):
 - a. Gmax: Less than 200.
 - b. Head Injury Criteria: Less than 1000.
2. Flammability (ASTM D2859): Pass.
3. Tensile Strength (ASTM D412): 60 psi (413 kPa).
4. Tear Resistance (ASTM D624): 140%.
5. Water Permeability: 0.4 gal/yd²/second.
6. Accessibility: Comply with requirements of ASTM F1951.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data and installation instructions.

C. Verification Samples: Submit manufacturer's standard verification samples of 9" x 9" (229 x 229 mm) minimum.

D. Quality Assurance/Control Submittals: Submit the following:

1. Certificate of qualifications of the playground surfacing installer.

E. Closeout Submittals: Submit the following:

1. Warranty documents specified herein.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

A. Qualifications: Utilize an installer approved and trained by the manufacturer of the playground surfacing system, having experience with other projects of the scope and scale of the work described in this section.

B. Certifications: Certification by manufacturer that installer is an approved applicator of the playground surfacing system.

C. International Play Equipment Manufacturers Association (IPEMA) certified.

Specifier Note: Article below should include specific protection and environmental conditions required during storage. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

Specifier Note: In article below, state physical or environmental limitations or criteria for installation such as weather, temperature, humidity, ventilation or illumination required for proper installation or application.

1.07 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 90 degrees F (32 degrees C). Do not install in steady or heavy rain.

Specifier Note: Coordinate article below with Conditions of the Contract and with Division 1 Closeout Submittals (Warranty) Section. Use this article to require special or extended warranty or bond covering the work of this section.

1.08 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

C. Proper drainage is critical to the longevity of the PlayBound Poured-in-Place surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

Specifier Note: Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: Super-7 (when aromatic urethane for the top surface is specified): 7 years from date of completion of work. Extreme-10 (when aliphatic urethane for the top surface is specified): 10 years from date of completion of work.

PART 2 – PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM

Specifier Note: Retain or delete paragraph below per project requirements and specifier's practice.

A. Manufacturer: Surface America, Inc.

1. Contact: PO Box 157, Williamsville, NY 14231; Telephone: (800) 999-0555, (716) 632-8413; Fax: (716) 632-8324; E-mail: info@surfaceamerica.com; website: <http://www.surfaceamerica.com>.

B. Proprietary Products/Systems. Poured-in-place playground surfacing system, including the following:

1. PlayBound Poured-In-Place Primer:

a. Material: Urethane.

2. PlayBound Poured-in-Place Basemat:

a. Material: Blend of 100% recycled SBR (styrene butadiene rubber) and urethane.

Specifier Note: The type of playground equipment determines the required basemat thickness, and the basemat thickness may be different at various locations on the playground site. Depending on ASTM F1292 requirements for critical fall height (4', 5', 6', 7', 8', 9', 10', 12' or 13' (1219, 1524, 1829, 2134, 2438, 2743, 3048, 3657 or 3962 mm), select basemat thickness from options provided in subparagraph below (1 1/4", 2", 2 1/2", 3", 3 1/2", 4", 4 1/2", 5" or 6" (32, 51, 63, 76, 89, 102, 114, 127 or 152 mm, respectively). Specify project requirements below and coordinate with working drawings.

b. Thickness: [1 1/4" (31.75 mm) for 4' critical fall height] [2" (51 mm) for 5' critical fall height] [2 1/2" (64 mm) for 6' and 7' critical fall heights] [3" (76 mm) for 8' critical fall height] [3 1/2" (89 mm) for 9' critical fall height] [4" (102 mm) for 10' critical fall height] [5" (127 mm) for 12' critical fall height] [6" (152 mm) for 13' critical fall height].

c. Formulation Components: Blend of strand and granular material.

3. PlayBound Poured-In-Place Top Surface:

a. Material: Blend of Virgin EPDM (ethylene propylene diene monomer) rubber or TPV Granule and aromatic or aliphatic urethane binder.

b. Thickness: Nominal 1/2" (12.7 mm), minimum 3/8" (9.5 mm), maximum 5/8" (15.9 mm).

c. Color: [Standard] [Terra Cotta Red] [Primary Red] [Orange (indoor only)] [Gold] [Beige] [Yellow] [Bright Green] [Hunter Green] [Teal] [Sky Blue] [Royal Blue] [Purple] [Pearl] [Eggshell] [Brown] [Light Gray] [Dark Gray] [Black] [Custom color – specify requirements].

Specifier Note: Aliphatic urethane (Extreme-10) is recommended for certain colors (blue, teal, purple, pearl, eggshell and grays) because aromatic binder (Super-7) "yellows" slightly upon exposure to ultraviolet rays. Most of this thin layer of urethane wears off with foot traffic and weathering typically within two to six months. *This characteristic applies industry-wide.*

d. Dry Static Coefficient of Friction (ASTM D2047): 1.0.

e. Wet Static Coefficient of Friction (ASTM D2047): 0.9.

f. Dry Skid Resistance (ASTM E303): 89.

g. Wet Skid Resistance (ASTM E303): 57.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

Specifier Note: Specify proportions and procedures for site mixing materials. Mixing is the preparation of materials for use and is considered to be part of the manufacturing process.

2.03 MIXES

A. Required mix proportions by weight:

1. Basemat: 16+% urethane (as ratio: 14% urethane divided by 86% rubber). 14% urethane, 86% rubber (based on entire rubber & urethane mix).

2. Top Surface: 22% urethane (ratio: 18% urethane divided by 82% rubber). 18% urethane, 82% rubber (based on entire rubber & urethane mix).

PART 3 – EXECUTION

Specifier Note: Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of the playground surfacing manufacturer.

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.02 EXAMINATION

A. Substrate preparation must be in accordance with surfacing manufacturer's specification. New asphalt must be fully cured – up to 30 days. New concrete must be fully cured – up to 7 days.

B. Proper drainage is critical to the longevity of the PlayBound Poured-in-Place surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

Specifier Note: Specify actions required to physically prepare the surface, area, or site or to incorporate the primary products of the section.

3.03 PREPARATION

A. Surface Preparation: Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft²/gal (7.5 m²/L).

Specifier Note: Coordinate article below with manufacturer's recommended installation requirements.

3.04 INSTALLATION

A. Do not proceed with playground surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed.

B. Basemat Installation:

1. Using screeds and hand trowels, install the basemat at a consistent density of 29 pounds, 1 ounce per cubic foot (466 kg/m³) to the specified thickness.

2. Allow basemat to cure for sufficient time so that indentations are not left in the basemat from applicator foot traffic or equipment.

3. Do not allow foot traffic or use of the basemat surface until it is sufficiently cured.

C. Primer Application: Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft²/gal (7.5 m²/L).

D. Top Surface Installation:

1. Using a hand trowel, install top surface at a consistent density of 58 pounds, 9 ounces per cubic foot (938 kg/m³) to a nominal thickness of 1/2" (12.7 mm).

2. Allow top surface to cure for a minimum of 48 hours.

3. At the end of the minimum curing period, verify that the top surface is sufficiently dry and firm to allow foot traffic and use without damage to the surface.

4. Do not allow foot traffic or use of the surface until it is sufficiently cured.

Specifier Note: Specify provisions for protecting work after installation but prior to acceptance by the owner. Coordinate article below with Division 1 Execution Requirements Section.

3.05 PROTECTION

A. Protect the installed playground surface from damage resulting from subsequent construction activity on the site.

RH01
Red

RH 02
Bright Red

RH10
Green

RH 11
Bright Green

RH12
DK Green

RH20
Blue

RH21
Purple

RH 22
Light Blue

RH 23
Azure

RH 26
Turquoise

RH 30
Beige

RH 31
Cream

RH 32
Brown

RH 40
Mustard Yellow

RH 41
Bright Yellow

RH 50
Orange

RH 60
Dark Grey

RH 61
Medium Grey

RH 65
Light Grey

RH 90
Funky Pink

RH01
Red
.5

RH20
Blue
.5

RH30
Beige
.5

Premium
1350

IPEMA Certificate of Compliance



To verify product certification,
visit www.ipema.org

MANUFACTURER

Surface America
P.O. Box 157
Williamsville, NY 14231

PRODUCT NBR	PRODUCT LINE		DESCRIPTION
PIP 5.5	PlayBound PIP	5.5/12'	Poured-in-Place Rubber
PIP1.75	PlayBound PIP	1.75"/4'	poured-in-place rubber
PIP2	PlayBound PIP	2"/5'	poured-in-place rubber
PIP2.5	PlayBound PIP	2.5"/6'	poured-in-place rubber
PIP3	PlayBound PIP	3"/7'	poured-in-place rubber
PIP3.5	PlayBound PIP	3.5"/8'	poured-in-place rubber
PIP4	PlayBound PIP	4"/9'	poured-in-place rubber
PIP4.5	PlayBound PIP	4.5/10'	poured-in-place rubber

ISSUE DATE: 5/5/15 -

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to the ASTM F1292-13, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment Standard.

The manufacturer listed below has received written validation from TÜV SÜD America that the products listed below conform with the requirements of ASTM F1292-13.

You may verify this certificate by visiting IPEMA's website at <http://ipema.org>



America

Exhibit B

AN AGREEMENT BY AND BETWEEN THE CITY OF
ARVADA AND
RICHDELL CONSTRUCTION, INC. FOR THE
REPLACEMENT OF THE DANNY KENDRICK PARK
EAST PLAYGROUND, PROJECT NO. 25-VCN-034, IN
AN AMOUNT NOT TO EXCEED \$565,915.00

BID PROPOSAL

TO: City of Arvada, Colorado (hereinafter called "CITY").

FROM: Richdell Construction, Inc. (hereinafter called "BIDDER"), organized and existing under the laws of the State of Colorado doing business as (a corporation), (a partnership), (an individual).

The Bidder, in compliance with your Advertisement for Bids, hereby proposes to perform all Work in strict accordance with the Contract Documents, for the construction of City of Arvada Project No. CIP PARKS 94965 entitled Danny Kendrick Park East Playground Replacement within the time set forth therein, and at the prices stated on the included Bid Schedule as totaled herein.

By submission of this Bid Proposal, each Bidder certifies, and in the case of a joint venture each party thereto certifies as to his/her own organization, that this Bid Proposal has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this Bid Proposal with any other Bidder or with any competitor.

Bidder acknowledges receipt of **Addendum Nos.**

Initials:

#1 sa

#2 sa

Bidder states that their:

Major Material Suppliers are:

DBC Irrigation Supply
IDS

Material They Will Supply

Irrigation Equipment
Slide, Turtle, & Telluride Traverse

Major Subcontractors are:

Rocky Mountain Rec
AVH Construction, Corp
Tatonka Contractors

Work They Will Perform

Playground Equipment
Concrete
PIP

CONTRACT TIME AND LIQUIDATED DAMAGES: All work shall be completed, including clean-up, within **120 working days** after the date to be specified in the Notice to Proceed. A Notice to Proceed is anticipated to be issued on or about May 23, 2025. The bidder shall agree to pay the owner the sum as identified in Section 1121.07 on the Engineering Code of Standards & Specifications dated October 2, 2023, for each calendar day that the work exceeds the executed contract time. Contract time may be adjusted by Change Order as approved by the Project Manager.

Total from included Bid Schedule:

TOTAL BID \$ 565,915.00

SUBMITTED BY:

Company Name: Richdell Construction, Inc.
Contact Names: Scott Riddell
Address: 7905 W. 120th Ave. Broomfield, CO 80020
Phone: (303) 252-0809 Email(s): sriddell@richdell.com

The undersigned hereby affirms that:

- He/she is a duly authorized agent of the Contractor;
- He/she has read all Terms and Conditions and technical specifications made available in conjunction with this solicitation and fully accept and acknowledge this bid is consistent with the specifications and terms and conditions.
- The bid is in all respects fair, without outside collusion or otherwise illegal action.

By: [Signature] 5-2-25 84-1315506
Signature of Authorized Agent Date FEIN
Scott Riddell President sriddell@richdell.com
Typed/Printed Name of Agent Title of Agent Agent email

PAYMENT TERMS: The City standard is net thirty (30) days but every effort is made to meet net fifteen (15) days after the approved partial payment date when the contractor is satisfactorily performing the contract. The final 5% of total payment will be paid once the contract is completed satisfactorily, advertisement for final settlement is complete, and the project is accepted by the City. Payment is the date of the check mailing or date of the credit card transaction.

BID SCHEDULE



CSB 25-VCN-034

Danny Kendrick Park East Playground Replacement

Richdell Construction, Inc.

Contractor

Scott Riddell

5/2/2025

Bid Prepared By

Date

ITEM NO.	DESCRIPTION	EST. QUANTITY	UNITS	UNIT PRICE	EXTENSION
1	Mobilization & General Conditions	1	LS	\$ 28,000.00	\$ 28,000.00
2	Traffic Control	1	LS	\$ 1,500.00	\$ 1,500.00
3	Erosion Control & Stormwater Management	1	LS	\$ 6,000.00	\$ 6,000.00
4	Construction Surveying & Staking	1	LS	\$ 9,000.00	\$ 9,000.00
5	Site Demolition & Removal (includes footers of old sign)	1	LS	\$ 8,000.00	\$ 8,000.00
6	Construction Fence (6' tall chain-link fence)	660	LF	\$ 7.00	\$ 4,620.00
7	Tree Protection Fence (6' tall chain-link fence)	205	LF	\$ 4.00	\$ 820.00
8	Site Grading & Earthwork	1	LS	\$ 15,000.00	\$ 15,000.00
9	Strip, Stockpile, & Place Topsoil	1	LS	\$ 2,000.00	\$ 2,000.00
10	Weed Control	1	LS	\$ 1,000.00	\$ 1,000.00
11	Concrete Sidewalks (6" depth)	1975	SF	\$ 16.00	\$ 31,600.00
12	Concrete Walls	40	LF	\$ 220.00	\$ 8,800.00
13	Concrete Seating Area & Steps	14	CY	\$ 1,600.00	\$ 22,400.00
14	Concrete Playground Curb, Plinth, & Misc. Flatwork	465	SF	\$ 84.00	\$ 39,060.00
15	Concrete Curb & Gutter	40	LF	\$ 85.00	\$ 3,400.00
16	Concrete Edger (ribbon curb)	20	LF	\$ 130.00	\$ 2,600.00
17	Aggregate Base Course	120	CY	\$ 90.00	\$ 10,800.00
18	Concrete Footers for Relocated Park Sign	1	LS	\$ 1,000.00	\$ 1,000.00
19	Reinstall Park Sign	1	LS	\$ 1,000.00	\$ 1,000.00
20	Poured-in-Place Playground Surfacing	3880	SF	\$ 20.00	\$ 77,600.00
21	Playground Subdrain and Outlet Structure	1	LS	\$ 3,000.00	\$ 3,000.00
22	6"-9" Rounded Cobble for Outlet's Energy Dissipation	160	SF	\$ 5.00	\$ 800.00
23	Play Equipment	1	LS	\$ 223,000.00	\$ 223,000.00
24	Relocate Existing Boulders on Site	5	EA	\$ 150.00	\$ 750.00
25	Trash Receptacle	2	EA	\$ 1,800.00	\$ 3,600.00
26	Bike Rack	3	EA	\$ 700.00	\$ 2,100.00
27	Bluegrass Sod & Soil Preparation	13500	SF	\$ 1.50	\$ 20,250.00
28	Planting Bed Preparation	415	SF	\$ 4.00	\$ 1,660.00
29	Colorado Red Rock Mulch (1.5" size, 3" depth)	355	SF	\$ 4.00	\$ 1,420.00
30	Shredded Cedar Wood Mulch (3" depth tree rings)	60	SF	\$ 7.00	\$ 420.00
31	Trees (2" caliper)	3	EA	\$ 700.00	\$ 2,100.00
32	Shrubs (5 gallon)	28	EA	\$ 80.00	\$ 2,240.00
33	Ornamental Grasses (5 gallon)	5	EA	\$ 75.00	\$ 375.00
34	Irrigation System	1	LS	\$ 30,000.00	\$ 30,000.00

Payment will be based on actual quantities performed

TOTAL BID \$ 565,915.00

Total Bid Written: _____ Five Hundred Sixty Five Thousand Nine Hundred Fifteen & 00/100__

REQUIRED CONTRACTOR SUBMITTAL FORM

SUBMITTAL CHECKLIST:

Bid Proposals shall be submitted in the order listed below with each section clearly identified. **Missing information or required documents may result in submission being deemed non-responsive.**

- ☒ Submit completed Bid Bond, Bid Proposal, Bid Schedule, Required Contractor Submittal, and any other attachments requested.
- ☐ Submit implementation timeline and warranties, if applicable.
- ☐ Attach Contractor's Licensing, if applicable.
- ☒ Insurance – Checking this box accepts that the insurance requirements listed by the City are acceptable.
- ☐ Variations: Checking this box indicates that the contractor has variations to this solicitation. Identify all variations and exceptions to this CSB on a separate sheet/s of paper. If variations are not stated in the contractor's Offer, it shall be agreed that the contractor's Offer fully complies with all conditions identified in this Solicitation. For each variation listed, reference the applicable section of the solicitation document, the page number, and the variance. Submittal of a vendor contract is considered excessive in variations and may be cause for determining that the Bid is non-responsive and ineligible for award.

REFERENCES:

- ☐ Check here if Contractor's standard reference sheet is attached, otherwise, use the space below.

Name: See Attached Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

Name: _____ Contact Person: _____

Address: _____

Telephone No: _____ Email: _____

Describe type of work/service performed or items supplied: _____

BID BOND

We, the undersigned Richdell Construction, Inc. as Principal,
and Contractors Bonding and Insurance Company as Surety, are hereby held and firmly bound unto the City of
Arvada, Colorado, in the penal sum of Five Percent (5%) of Amount Bid for the
payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

THE CONDITION of this obligation is such that whereas the Principal has submitted to the City of Arvada, Colorado the
accompanying Bid Proposal, and hereby made a part hereof to enter into a Contract Agreement for the construction of
City of Arvada Project No. CIP Parks 94965 - Danny Kendrick Park East Playground Replacement

WHEREAS, the City, as a condition for receiving said Bid Proposal, requires the Principal to deposit with the City a Bid
Proposal Guaranty, equivalent to not less than 5 Percent of the amount of said Bid Proposal.

NOW THEREFORE,

- (A) If said Bid Proposal shall be rejected; or in the alternate,
- (B) If said Bid Proposal shall be accepted and the Principal shall execute and deliver a Contract Agreement
(properly completed in accordance with said Bid Proposal) and shall furnish a Performance and Payment
Bond upon the forms prescribed by the City for the faithful performance of said Contract; and for the
payment of all persons performing labor or furnishing materials in connection therewith; and shall in all other
respects perform the agreement created by the acceptance of said Bid Proposal;

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and
agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this
obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the City may accept such Bid and said Surety does
hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, this 30th day of April
2025, and such of them as are corporations have caused their corporate seals to be hereto affixed and
these presents to be signed by their proper officers, the day and year first set forth above.

PRINCIPAL

Name: Richdell Construction, Inc.
Address: 7905 W. 120th Avenue
Arvada, Colorado 80002
By: _____
Title: _____



SURETY

Contractors Bonding and Insurance Company
9025 N. Lindbergh Drive
Peoria, IL 61615

By: Susan J. Lattarulo
Title: Susan J. Lattarulo, Attorney-in-Fact

Attorney-in-Fact:

Susan J. Lattarulo

(SEAL)

NOTE: Surety Companies executing bonds must be authorized to transact business in the State of Colorado and be
acceptable to the City.

POWER OF ATTORNEY

RLI Insurance Company Contractors Bonding and Insurance Company

9025 N. Lindbergh Dr. Peoria, IL 61615
Phone: 800-645-2402

Know All Men by These Presents:

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes executed, but may be detached by the approving officer if desired.

That RLI Insurance Company and/or Contractors Bonding and Insurance Company, each an Illinois corporation, (separately and together, the "Company") do hereby make, constitute and appoint:

Sheila J. Montoya, John Browning, Kelli Housworth, Susan J. Lattarulo, Justin R. Tomlin, Thomas F. McCoy Jr., jointly or severally

in the City of Denver, State of Colorado its true and lawful Agent(s) and Attorney(s) in Fact, with full power and authority hereby conferred, to sign, execute, acknowledge and deliver for and on its behalf as Surety, in general, any and all bonds and undertakings in an amount not to exceed Twenty Five Million Dollars (\$25,000,000.00) for any single obligation.

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon the Company as if such bond had been executed and acknowledged by the regularly elected officers of the Company.

RLI Insurance Company and/or Contractors Bonding and Insurance Company, as applicable, have each further certified that the following is a true and exact copy of a Resolution adopted by the Board of Directors of each such corporation, and is now in force, to-wit:

"All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or Agents who shall have authority to issue bonds, policies or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

IN WITNESS WHEREOF, the RLI Insurance Company and/or Contractors Bonding and Insurance Company, as applicable, have caused these presents to be executed by its respective Vice President with its corporate seal affixed this 6th day of December, 2019.



RLI Insurance Company
Contractors Bonding and Insurance Company

By: B. W. Davis
Barton W. Davis Vice President

State of Illinois }
County of Peoria } SS

CERTIFICATE

On this 6th day of December, 2019, before me, a Notary Public, personally appeared Barton W. Davis, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the RLI Insurance Company and/or Contractors Bonding and Insurance Company and acknowledged said instrument to be the voluntary act and deed of said corporation.

I, the undersigned officer of RLI Insurance Company and/or Contractors Bonding and Insurance Company, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the RLI Insurance Company and/or Contractors Bonding and Insurance Company this 30th day of April, 2025.

By: Gretchen L. Johnigk
Gretchen L. Johnigk Notary Public

RLI Insurance Company
Contractors Bonding and Insurance Company

By: Jean M. Stephenson
Jean M. Stephenson Corporate Secretary



City View Park

Adams County
Completed April 2025



City View Park

Owner: Adams County 9755 Henderson Rd. Brighton, CO 80601
Contact: Cyndi Stringham cstringham@adcogov.org 303-637-8009

Final Contract Amount: \$2,766,578
Project Size: 4.21 Acres

City View Park was reimagined into a vibrant, family-friendly destination where nature, play, and community converge. This four-acre transformation introduced dynamic features designed to engage visitors of all ages—including a trio of thrilling concrete slides carved into the landscape, age-specific playgrounds for both 2–5 and 5–12-year-olds, and an inviting fitness zone. Natural climbing boulders, modern swings, shaded picnic areas, and architecturally integrated shelters elevate the park’s appeal. Lush, irrigated turf and thoughtfully designed landscaping tie it all together, creating a welcoming, multifunctional space that encourages exploration, activity, and connection in the heart of the community.



Village Greens North—Phase V

City of Greenwood Village
Completed June 2024



Village Greens North—Phase V

Owner: City of Greenwood Village—10001 E. Costilla Ave.
Greenwood Village, CO 80112

Contact: Suzanne Moore - smoore@greenwoodvillage.com 303-708-6142

Final Contract Amount: \$1,402,448
Project Size: 1 Acres

Richdell Construction is proud to announce the completion of Village Greens North Park Phase V in Greenwood Village! This exciting expansion brings a host of new features to the park: **Challenge Course:** A thrilling obstacle course with climbing structures suitable for all ages and abilities. **Slackline Course:** A unique course to test balance and agility. **Creative Play Area:** A one-of-a-kind play area designed to spark imagination. **Natural Landscaping:** Beautiful landscaping creates a serene and inviting atmosphere. Come explore the newly expanded Village Greens North Park and discover endless opportunities for fun, fitness, and connection with nature!



O'Brien Park Playground Improvements

Town of Parker
Completed February 2023



O'Brien Park Playground Improvements

Owner: Town of Parker 20120 E. Mainstreet Parker, CO 80134
Contact: Brett Collins bcollins@parkeronline.org 303-805-3276

Final Contract Amount: \$1,670,924
Project Size: 1 Acres

Introducing the transformed O'Brien Park playground – a masterpiece by Richdell Construction, Inc. Our expertise shines through in every detail of this project, featuring universally accessible equipment, seamless surfacing, and an innovative climbing wall. Delight in shaded pavilions, picnic areas, and swing bench seating, providing comfort and relaxation. Immerse yourself in the harmonious blend of musical instruments and stay refreshed with a convenient drinking fountain. Our meticulous landscape and efficient irrigation ensure a lush environment. At Richdell, we take pride in crafting spaces that inspire communities to play, connect, and thrive. This is construction excellence reimaged.



Fwd: Arvada CSB 25-VCN-034 - Danny Kendrick Park East Playground Replacement

Chad Hollingsworth <chollingsworth@arvada.org>

Mon, May 12, 2025 at 10:40 AM

To: Darin DeLay <ddelay@arvada.org>

Response from Richdell

----- Forwarded message -----

From: **Scott Riddell** <sriddell@richdell.com>

Date: Mon, May 12, 2025 at 10:14 AM

Subject: Re: Arvada CSB 25-VCN-034 - Danny Kendrick Park East Playground Replacement

To: Dawn Krank <dkrank@arvada.org>

Dear Dawn,

Thank you for your email and the opportunity to provide clarifications regarding our bid submission for the above-referenced project.

Self-Performed Work:

1. Richdell Construction, Inc. will be self-performing the majority of the work on this project, including site demolition, earthwork, drainage, irrigation, flatwork preparation, and finish grading. In addition, we will self-perform the installation of select play features provided by IDS—specifically the slide, turtle, and Telluride Traverse. We worked with IDS on the three projects provided for references.

The following scopes will be subcontracted:

- o **Rocky Mountain Recreation - Landscape Structures equipment supply and installation**
- o **Tatonka Contractors - Poured-in-place surfacing**
- o **AVH Construction, Corp - Concrete**

We have a longstanding relationship with AVH Construction, our selected subcontractor for concrete, having successfully completed numerous projects together for clients including the City and County of Denver, City of Aurora, and Foothills Park and Recreation District.

2. Construction Schedule & Notice to Proceed (NTP):

- a. We anticipate mobilizing and beginning work in **June**, contingent upon receipt of the Notice to Proceed.
- b. Richdell Construction is prepared to begin work immediately upon issuance of the NTP. Based on typical lead times and sequencing, we anticipate the site being ready for playground equipment installation by **late August**. A finalized construction schedule can be provided following confirmation of delivery dates from IDS and Landscape Structures.

Please let me know if any additional information is needed. We appreciate the opportunity to participate in this project and look forward to the potential of working with the City of Arvada.

Scott Riddell

Richdell Construction, Inc.

7905 W. 120th Ave.

Broomfield, CO 80020

303-252-0809 (Office)

303-255-3021 (Fax)

sriddell@richdell.com

www.richdell.com

<https://www.facebook.com/richdellconstruction/>



From: Dawn Krank

Sent: Friday, May 9, 2025 3:18 PM

To: Scott Riddell

Subject: Arvada CSB 25-VCN-034 - Danny Kendrick Park East Playground Replacement

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good afternoon.

Thank you for your interest and bid submission for the above referenced solicitation.

The project management team is currently in the process of vetting bids received and has asked me to reach out to Richdell Construction, Inc. for some clarifications.

1. What work will Richdell Construction be self-performing on the project, as outlined on the bid form?
2. a. What is your anticipated construction schedule for the project? b. Would you be able to start as soon as the Notice to Proceed (NTP) is issued? (Note: the NTP is issued by the City upon execution of the contract, which in this case would be after approval of the contract amount at a June City Council meeting.)

If possible, please provide answers via email reply back to me by Monday, May 12th.

Again, thank you for your interest in this project. Please let me know if you have any questions.

Thank you,
Dawn Krank
Purchasing Manager
720-898-7091





REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.A.3.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: R25-054, A Resolution Authorizing An Agreement Between the City of Arvada and One Technology Corporation for Goods and Services Relating to Upgrading and Supporting Arvada's Networks in an Amount Not to Exceed \$1,400,000.00

Report in Brief

This replacement project focuses on modernizing and supporting critical infrastructure necessary to maintain and enhance the performance, reliability, and security of wired and wireless network systems across the organization.

The Arvada team recommends that the City Council approve R25-054, A Resolution Authorizing An Agreement Between the City of Arvada and One Technology Corporation for Goods and Services Relating to Upgrading and Supporting Arvada's Networks in an Amount Not to Exceed \$1,400,000.00.

Financial Impact

This investment will cover hardware acquisition, installation, configuration, and extended support services. The City has budgeted annually for the network replacement in the technology replacement fund. 220FD.10066CC.10106PG.50022SC, \$1,222,099.94 Evidence Building CIP \$25,250.07, Ralston House CIP \$28,875.77, ARPA \$90,866.00 for a total of \$1,367,091.78.

Background

The city's network hardware infrastructure, which includes routers, switches, and Wi-Fi equipment, was last replaced in 2017 and is expected to reach the end of its life in September 2025.

Increasing bandwidth demand, evolving technology standards, and growing cybersecurity threats highlight the need for a modern, secure, and scalable network foundation. Upgrading the infrastructure is essential to maintaining reliable operations and supporting ongoing digital initiatives.

Discussion

Modernizing the network infrastructure involves upgrading outdated hardware, expanding wireless coverage, and ensuring enterprise-grade support services. These improvements will reduce network downtime, improve user experience, and support new technologies and services. This effort includes expanding capacity and integrating monitoring and management tools to address performance and security.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

n/a

Strategic Alignment

This action supports the City Council Strategic Plan Priority Area Operational Effectiveness in the Innovation Technology Management Department.

The purpose of the Continuity of Services Program is to provide network, server, storage, database, and communications systems availability services to the City of Arvada Departments so they can provide services with minimal interruptions and achieve their Strategic Results.

This action strengthens the cybersecurity posture. It directly supports the IT strategy of maintaining a resilient and agile infrastructure to meet current and future operational demands.

Alternative Courses of Action

n/a

Recommendation for Action

The City Team recommends that the City Council approve A Resolution Authorizing an Agreement between the City of Arvada and One Technology Corporation for Goods and Services Relating to upgrading and supporting Arvada's Networks for an amount not to exceed \$1,400,000.00.

Suggested Motion:

I move that R25-054, A Resolution Authorizing An Agreement Between the City of Arvada and One Technology Corporation for Goods and Services Relating to Upgrading and Supporting Arvada's Networks in an Amount Not to Exceed \$1,400,000.00, be (approved) (rejected).

Prepared by:

Erin Green, Technology Infrastructure and Operations Manager

Reviewed by:

Approved by:

Craig Poley, Chief Information Officer	5/27/2025
Bryan Archer, Director of Finance	5/27/2025
Janelle Miller, Assistant City Attorney	5/28/2025
Rachel Morris, City Attorney	6/3/2025
Linda Haley, Deputy City Manager	6/3/2025
Don Wick, City Manager	6/3/2025

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R25-054

A RESOLUTION AUTHORIZING AN AGREEMENT BETWEEN THE CITY OF ARVADA
AND ONE TECHNOLOGY CORPORATION FOR GOODS AND SERVICES RELATING TO
UPGRADING AND SUPPORTING ARVADA'S NETWORKS IN AN AMOUNT NOT TO
EXCEED \$1,400,000.00

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, an Agreement that is in substantially the same form as that attached hereto.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 17th day of June, 2025.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

**AN AGREEMENT BETWEEN THE CITY OF ARVADA AND
ONE TECHNOLOGY CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING AND SUPPORTING
ARVADA'S NETWORKS AN AMOUNT NOT TO EXCEED
\$1,400,000.00**

1. PARTIES. The Parties to this Agreement are the City of Arvada, a Colorado home rule municipal corporation, whose mailing address is 8101 Ralston Road, Arvada, CO 80002 ("Arvada" or the "City") and One Technology Corporation, a Colorado Corporation whose principal place of business is located at 2000 S. Colorado Blvd., Ste 2000, Denver, CO 80222 ("Contractor"). The Parties may be referred to individually as a "Party" and collectively as the "Parties."

2. RECITALS AND PURPOSE.

2.1. Arvada requires a qualified entity to provide hardware, equipment, related licensing, and related support and training services to upgrade Arvada's wired and wireless networks in certain existing locations as the hardware and equipment for Arvada's existing networks will reach end of life status in September 2025 ("the Work"). The Work also includes the provision of hardware, equipment, related licensing, and related support and training services to add networks to new locations (e.g. the new evidence building for the Arvada Police Department set to break ground in June 2025).

2.2. Contractor has extensive experience in providing network hardware and equipment manufactured by Juniper Networks along with related support and training services. Contractor is an authorized reseller of Juniper products as stated in **Exhibit A**.

2.3. Beginning in March 2025, Contractor began submitting the Quotes listed in Section 3 in response to Arvada's request for documented quotes ("Response").

2.4. Arvada has determined that Contractor has the requisite background, skill, expertise, and insurance to provide the requested goods and services and other related services, under the terms and conditions more fully set forth below.

2.5. Arvada is obtaining the goods and services in accordance with the sole source provisions of the City's Purchasing Ordinance. Additionally, Contractor partners with its distributor, Carahsoft Technology Corporation to provide the Juniper hardware and equipment with NASPO ValuePoint pricing under the Participating Addendum to NASPO ValuePoint Cloud Solutions Administered by the State of Utah with Carahsoft Technology Corporation Master Agreement No. AR2472 and the State of Colorado Contract #139963.

2.6. Arvada and Contractor agree that Arvada contemplates using Contractor as a Contractor for the Work as described in the Contract Documents. However, Arvada and Contractor acknowledge and agree that Arvada may, at its sole discretion, use other Contractors to perform similar work, and that this Agreement in no way limits Arvada

from hiring other contractors or constitutes a contract for exclusive services from Contractor.

3. CONTRACT DOCUMENTS, EXHIBITS, AND DEFINITIONS.

3.1. Contract Documents. The Contract Documents shall consist of this Agreement together with the following:

Exhibit A: Letter from Juniper Networks dated April 16, 2025;

Exhibit B: Arvada's General Terms and Conditions;

Exhibit C: Arvada's Insurance Requirements;

Exhibit D: Contractor's Consulting Services Agreement;

Exhibit E: Contractor's Quote #OTC-31720389 for the Work pertaining to the new evidence building for the Arvada Police Department;

Exhibit F: Contractor's Quote #OTC-31720433-5 for Part 1 of the Work pertaining to replacing existing networks at the Arvada Center, Arvada Library, Arvada Water Treatment Plant, AURA, Beghtol Training Center, Blunn Ranger Station, City Hall, Impound Barn, and data center;

Exhibit G: Contractor's Quote #OTC-31720572 for Part 2 of the Work pertaining to replacing existing networks at the Jeffco backup, police stations outside of City Hall, golf courses, radio towers, wastewater facilities, streets facilities, Ralston Water Treatment Plant, Majestic View Nature Center, transit hub, Long Lake Fields, Parks facilities, and Stenger fields;

Exhibit H: Contractor's Quote #OTC-31720382 for the Work pertaining to the Ralston House remodel; and

Exhibit I: Contractor's Quote #OTC-31720494-2 for Juniper Mist Access Assurance.

All exhibits referred to in this Agreement are attached hereto and are, by reference, incorporated herein for all purposes.

3.2. Interpretation of Contract Documents. In the event any matter, term, provision, or condition that is the subject of this Agreement requires clarification or is in dispute, or is the subject of a difference of opinion, then the terms of this Agreement shall control, and then the terms of **Exhibit B**, then **Exhibit C**, and then **Exhibit D - I** (as applicable to the portion of the Work in question), and then **Exhibit A** in that order.

3.2.1. In no event may any contradictory term or provision contained in **Exhibits A, D-I** supersede the provisions of this Agreement or **Exhibits B, or C**. Any such contradictory term or provision shall be null and void.

3.3. Definitions. The following terms shall be construed and interpreted as follows:

3.3.1. **Arvada Confidential Information** means any and all Arvada Records not subject to disclosure under CORA. Arvada Confidential Information shall include, but is not limited to, PII (personally identifiable information), PHI (protected health information), PCI (payment card information), Tax Information, CJI (criminal justice information), Arvada's network map and related access, and Arvada personnel records not subject to disclosure under CORA. Arvada Confidential Information shall not include information or data concerning individuals that is not deemed confidential but nevertheless belongs to Arvada, which has been communicated, furnished, or disclosed by Arvada to Contractor which (i) is subject to disclosure pursuant to CORA; (ii) is already known to Contractor without restrictions at the time of its disclosure to Contractor; (iii) is or subsequently becomes publicly available without breach of any obligation owed by Contractor to Arvada; (iv) is disclosed to Contractor, without confidentiality obligations, by a third party who has the right to disclose such information; or (v) was independently developed without reliance on any Arvada Confidential Information.

3.3.2. **Arvada Records** means any and all Arvada data, information, and records, regardless of physical form. This includes credentials issued to Arvada by Contractor, all records relating to Arvada's use of Contractor's services; as well as account credentials, including those issued by Arvada or Contractor, account information, and all records sent, received, or created by or for end users.

3.3.3. **Day** means a calendar unless defined otherwise.

3.3.4. **Deliverable** means the outcome to be achieved or output to be provided, in the form of a tangible object or software that is produced as a result of the Work that is intended to be delivered to Arvada by Contractor.

3.3.5. **Product(s)** means the hardware, equipment, or other tangible objects and any related licenses provided by Contractor pursuant to **Exhibits E-I**.

3.3.6. **Service(s)** means any service, such as support, maintenance, set up, configuration, or other consulting service, provided by Contractor pursuant to **Exhibits D-I**.

3.3.7. **Tax Information** means federal and state tax information including, without limitation, federal and state tax returns, return information, and such other tax-related information as may be protected by federal and state law and

regulation. Tax Information includes, but is not limited to all information defined as federal tax information in Internal Revenue Service Publication 1075.

3.3.8. **Work** means the goods, services, or deliverables provided by Contractor to Arvada as stated in Section 2.2 and further defined by any applicable quote.

3.3.9. **Work product** means the tangible and intangible results of the Work, whether finished or unfinished, including drafts. Work Product includes, but is not limited to, documents, text, software (including source code), research, reports, proposals, specifications, plans, notes, studies, data, images, photographs, negatives, pictures, drawings, designs, models, surveys, maps, materials, ideas, concepts, know-how, and any other results of the Work. "Work Product" does not include any material that was developed prior to the Effective Date that is used, without modification, in the performance of the Work.

4. **TERM AND TERMINATION.**

4.1. Effective date. This Agreement will become effective and binding on both Parties upon its execution by Arvada.

4.2. Term. The term of the Agreement shall remain in effect for one year from Arvada's execution of the Agreement as described in Sec. 4.1. unless otherwise agreed to in writing by the Parties, and subject to availability of funds.

4.2.1. Termination. Notwithstanding the above, Arvada may terminate this Agreement with or without cause upon 30 calendar days' written notice and in accordance with the provisions of this Agreement and **Exhibit B**.

4.3. Renewals. This Agreement may be renewed by Arvada for no more than four consecutive one-year renewal terms. Renewals will be automatic unless the Agreement is terminated.

4.4. Warranty. Contractor shall honor and provide any warranty service stated in **Exhibits E-I** even if this Agreement has terminated or expired.

5. **COMPENSATION.**

5.1. Compensation Amount. Arvada shall pay Contractor for the Work requested by Arvada and rendered by Contractor under this Agreement in an amount not to exceed \$1,400,000.00. The Work to be provided in accordance with a specific exhibit shall not exceed the amount stated on that exhibit as listed in the table below.

Exhibit #:	Brief Description of the Work:	Purchase Type:	Amount of the Work pertaining to this Exhibit shall not exceed:
D	Consulting services for installing and	One time	\$11,000.00

	configuring the networks		
E	New networks for the new evidence building for the Arvada Police Department	One time	\$25,250.07
F	Part 1 of replacing existing networks	One time	\$769,887.34
G	Part 2 of replacing existing networks	One time	\$495,927.26
H	Replacing networks for the Ralston House remodel	One time	\$28,875.77
I	Juniper Mist Access Assurance (One year)	Recurring	\$36,151.34

5.2. Tariffs. Contractor acknowledges and agrees that all total amounts listed on an exhibit include all fees, import duties, and tariffs and that Arvada shall not be responsible for any additional fees, import duties, and tariffs once Contractor places an order for any products or services with its distributor in order to fulfill Contractor's obligations under this Agreement.

5.3. Payment.

5.3.1. For the Work provided under **Exhibit D**, Contractor shall submit itemized monthly invoices to Arvada for actual services that have been performed by Contractor and accepted by Arvada. Payment by Arvada will be due NET 30 days.

5.3.2. For the Work provided under **Exhibits E-H**, Arvada shall issue an Arvada purchase order to Contractor as Arvada desires to obtain the Work stated in a particular exhibit. Arvada shall pay in accordance with its purchase order.

5.3.3. For the Work provided under **Exhibit I**, Contractor shall invoice Arvada for the amount stated in **Exhibit I** upon Arvada's acceptance of the products under **Exhibits E-H**. Payment by Arvada will be due NET 30 days.

5.4. Additional Work. Arvada may, during the term of this Agreement, wish to purchase other related services identified and offered by Contractor, based upon the pricing/fee contained in Contract Documents. Arvada reserves the right to award these ancillary items to Contractor or another top rated Bidder based upon the negotiated scope of work and fee structure. This option, if exercised, in no way obligates Arvada to pursue additional services with Contractor.

5.5. No reimbursement of expenses. In no event shall Contractor incur or bill, and in no event shall Arvada reimburse, Contractor for any travel expenses referenced in Section 8 of **Exhibit D** or any other additional expenses without first executing an amendment to this Agreement.

5.6. Shipping fees. Contractor shall not invoice Arvada for any additional shipping fees other than what is expressly stated in the specific line items for specific products or services in **Exhibits E-I**.

6. SCOPE OF SERVICES. Contractor shall perform the Work as described in the Contract Documents and this Section 6 or as amended by the mutual consent of the Parties in writing. Should the Parties agree in writing to a change in the scope of services or a change in a deadline provided in the Contract Documents, then the Parties will timely execute an amendment, which will address the amended scope of services, revisions to necessary start and end dates, any applicable deliverables and associated due dates, reporting requirements, documentation requirements, and any other matters that the Parties deem necessary.

6.1. Scope of Exhibit D (implementation and configuration consulting services).

6.1.1. Contractor shall provide all the services listed in **Exhibit D** in accordance with the terms of **Exhibit D** to the extent the terms of **Exhibit D** do not conflict with the terms of this Agreement.

6.1.2. The service period is defined as starting on or about the Effective Date and ending on December 31, 2025. On or after December 31, 2025, Arvada may elect to continue any or all Services so long as this Agreement has been renewed and amended to reflect the new Services.

6.1.3. Contractor shall warrant the Services as stated in Section 9 of **Exhibit D**.

6.2. Scope of Exhibits E-I (products and related warranty and support).

6.2.1. Contractor shall provide all the products, warranties, and support listed in **Exhibits E-I**. Upon receipt of an Arvada purchase order from Arvada for products listed in a specific exhibit, Contractor shall place an order for such products with Carahsoft Technology Corporation within 14 calendar days of the date of the Arvada purchase order. Contractor shall deliver the products FOB Destination at the address provided by Arvada and shall ship via the method stated on the applicable exhibit. Title and risk of loss of the ordered products shall pass to Arvada upon Arvada's acceptance of delivery of the ordered products, which will not be unreasonably withheld.

6.2.2. Arvada is not obligated to request or issue a purchase order for any product(s) listed in **Exhibit E-I** and may issue purchase orders in any sequence. Likewise, Contractor is not obligated to provide the products listed in **Exhibits E - I** unless Arvada issues its purchase order for such products.

6.2.3. Contractor agrees to make timely, good faith efforts to facilitate communications between Arvada and the manufacturer of a product or Carahsoft (as applicable) in the event of an issue with a product or the order of a product. In the event Arvada receives a product deemed by Arvada to be dead on arrival "DOA," Contractor agrees to work in good faith with Arvada to assist Arvada in minimizing the risk of incurring additional shipping costs or tariffs necessary to ship the replacement product and provide other services Contractor deems

necessary to promote Arvada's satisfaction as a client.

6.2.4. Contractor shall promptly perform its obligations to timely order and deliver the products, warranties, and support listed in **Exhibits E – I**.

6.2.5. In the event Contractor is unable to provide a product or service listed in **Exhibits D-I**, and subject to Section 5.2, the Parties shall work in good faith to identify a replacement product acceptable to Arvada. If no acceptable replacement is available, Arvada may, in its sole discretion, decline to order the specific product and any other products necessary to operate the product. If such other products have already been accepted by Arvada, Arvada may return such products to Contractor at no additional cost to Arvada.

6.2.6. Contractor shall provide any documentation showing the technical specifications of any provided products or related warranty.

7. LIMITATION OF LIABILITY. Subject to Section 21 of **Exhibit B**, Each Party's liability to the other Party or any third-party concerning performance or non-performance or otherwise related to this Agreement shall in the aggregate be limited to the direct and actual damages, not to exceed the total compensation amount in Section 5.1.

8. INFORMATION TECHNOLOGY PROVISIONS.

8.1. Data confidentiality. Contractor shall keep confidential, and cause all subcontractors to keep confidential, all Arvada Records, unless those Arvada Records are publicly available. Contractor shall not, without prior written approval of Arvada, use, publish, copy, disclose to any third party, or permit the use by any third party of any Arvada Records, except as otherwise stated in the Agreement, permitted by law, or approved in writing by Arvada. Contractor shall immediately forward any request or demand for Arvada Records or Confidential Information to the Project Owner listed in the Agreement.

8.2. Data protection. Contractor shall, and shall cause its subcontractors, to meet all of the following:

8.2.1. Provide physical and logical protection for all hardware, software, applications, and data that meets or exceeds industry standards and the requirements of the Agreement for all hardware, software, applications, and data used to provide the Services;

8.2.2. Comply with all State of Colorado and federal rules and regulations related to overall security, privacy, confidentiality, integrity, availability, and auditing; and

8.2.3. Provide all Services from within the United States.

8.3. Access. Contractor shall not access any Arvada Records, network, or system without being escorted by an Arvada representative appointed by Arvada's Project Owner. In the event Contractor has access to any Arvada Records while performing the Work Contractor shall not:

8.3.1. Extract, save, store, or otherwise maintain such Arvada Records unless expressly authorized in writing by Arvada to do so;

8.3.2. Forward Arvada Records outside of Arvada's environment; and

8.3.3. Allow remote access to Arvada Records from outside the United States, including access by Contractor's employees or agents, without the prior express written consent of Arvada.

9. TERMS AND CONDITIONS IN CONTRACT DOCUMENTS & OWNERSHIP.

Contractor affirms that it has read and is familiar with all of the Contract Documents including the General Terms and Conditions set forth in the City's solicitation or otherwise attached to this Agreement, and agrees to be bound by those Terms and Conditions as modified by this Section.

9.1. Amendments to Exhibit D. Any strikethroughs on **Exhibit D** indicate the provision has been deleted in its entirety.

9.2. Exclusive Property of Arvada. All Arvada Records, data, documents, text, software (including source code), research, reports, proposal, specifications, plans, notes, studies, data, images, photographs, negatives, pictures, drawings, designs, models, surveys, maps, materials, ideas, concepts, know-how, and information provided by or on behalf of Arvada to Contractor in accordance with the Work or generated through Arvada's use of the Work remains the exclusive property of Arvada (collectively, "Arvada Materials"). Contractor shall not use, willingly allow, cause, or permit Arvada Materials to be used for any purpose other than the performance of Contractor's obligations under the Agreement without the prior written consent of Arvada.

9.3. Exclusive Property of Contractor. Contractor retains the exclusive rights, title, and ownership to any and all pre-existing materials owned or licensed to Contractor including, but not limited to, all pre-existing software, licensed products, associated source code, machine code, text images, audio and/or video, and third-party materials, delivered by Contractor under the Agreement (collectively, "Contractor Property"). Contractor Property shall be licensed to Arvada as set forth in the Agreement

10. PERFORMANCE MEASURES. Contractor's performance shall be documented as to (a) completing the agreed upon Scope of Work, (b) completing within the contracted price, (c) completing the Work within the contracted timeline, (d) completing the Work with materials that meet industry standards, and (e) completing all Services with high quality standards.

11. PROJECT OWNERS. Arvada designates Erin Green as Arvada's Project Owner. Ms. Green (egreen@arvada.org) will be Arvada's responsible staff member to provide direction to Contractor during the course of the Work. Arvada reserves the right to change the Project

Owner(s) at its discretion and will promptly notify Contractor of any such change in writing. Contractor designates Dean Jansen as Contractor's Project Owner. Mr. Jansen (djansen@one-technology.com) will be Contractor's primary contact person during the course of this Agreement. Contractor may change the Project Owner(s) with the Arvada's prior written approval.

12. INSURANCE. Contractor will be required to, at its own expense, keep in full force and effect during the term of the Agreement, and during the term of any extension or amendment of the Agreement, insurance reasonably sufficient to insure against the liability assumed by Contractor under the terms of the Contract Documents. Contractor's failure to secure and maintain sufficient insurance at any time during the pendency of this Agreement do not relieve Contractor of its obligations under this provision; Contractor's failure to fulfill the obligations of this section will make the Contractor the *per se* insurer.

13. NO LICENSE IN ARVADA LOGOS OR TRADEMARKS. Arvada does not grant Contractor any license to use its logos or trademarks in any sales promotion work, advertising, or any form of publicity.

14. ACCESSIBILITY COMPLIANCE AND INDEMNIFICATION.

14.1. Compliance standard. Contractor shall comply with, and any Work Product provided under this Agreement shall be in compliance with, all applicable provisions of C.R.S. §§24-85-101, *et seq.*, and the *Accessibility Standards for Individuals with a Disability*, as established by the State of Colorado's Office of Information Technology pursuant to C.R.S. §24-85-103(2.5). Contractor shall also comply with Level AA of the most current version of the Web Content Accessibility Guidelines (WCAG), incorporated into the State of Colorado technology standards.

14.2. Third-party determination. Arvada may require Contractor's compliance with Section 11.1 to be determined by a third party selected by Arvada to attest to Contractor's Work Product.

14.3. Accessibility compliance indemnification. Contractor shall indemnify, save, and hold harmless Arvada, its employees, agents, and assignees (the "Indemnified Parties"), against any and all costs, expenses, claims, damages, liabilities, court awards and other amounts (including attorneys' fees and related costs) incurred by any of the Indemnified Parties in relation to Contractor's failure to comply with the *Accessibility Standards for Individuals with a Disability* as established by the State of Colorado's Office of Information Technology pursuant to Section §24-85-103(2.5), C.R.S.

15. FORCE MAJEURE. Any delays in or failure of performance by any party of its obligations under this Agreement shall be excused if such delays or failure are a result of acts of God, fires, floods, strikes, labor disputes, pandemics, accidents, regulations or orders of civil or military authorities, shortages of labor or materials, or other causes, similar or dissimilar, which are beyond the control of such party.

16. INTEGRATION, AMENDMENT, AND SEVERABILITY. This Agreement represents the entire agreement between the Parties; there are no oral or collateral agreements

or understandings. The Parties, by mutual agreement, may amend this Agreement at any time. Any amendments must be in writing and will be incorporated into and made a part of this Agreement. If any provision in this Agreement is held to be invalid or unenforceable, the remainder of this Agreement will be deemed severable, and as such, the remaining provisions will continue in full force and effect.

17. NOTICES. Any notice or notification required or permitted by the Agreement shall be in writing, and may be sent to the other Party by certified or registered mail, or by electronic mail, addressed to the that Party's project owner at such street address or email address as are set forth herein or subsequently designated by the Parties. Such notice or notification shall be deemed to have been given when deposited in the United States mail or, in the case of electronic mail, upon the sent date stamp contained in the electronic mail.

18. ADDITIONAL DOCUMENTS OR ACTION. The parties agree to execute any additional documents and to take any additional action that is necessary to carry out this Agreement.

19. BINDING AUTHORITY. Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation. This Agreement may be executed in counterpart(s), each of which shall be deemed to be an original, and all of which, taken together, shall constitute one instrument.

20. NO THIRD-PARTY BENEFICIARIES. The Parties understand and agree that enforcement of the terms and conditions of this Agreement, and all rights of action relating to such enforcement, shall be strictly reserved to the Parties, and nothing contained in this Agreement shall give or allow any such claim or right of action to any other third party on this Agreement. It is the intention of the Parties that any person other than the Parties receiving services or benefits under this Agreement shall be deemed to be an incidental beneficiary only.

Remainder of page intentionally left blank.

DATED this _____ day of _____, 2025.

CITY OF ARVADA, a Colorado home
rule municipal corporation

Lauren Simpson
Mayor
8101 Ralston Road
Arvada, CO 80002

ATTEST:

City Clerk

APPROVED AS TO FORM:

Rachel A. Morris, City Attorney

By: _____

ONE TECHNOLOGY CORPORATION

Mat Brown
President
2000 S. Colorado Blvd., Ste 2000,
Denver, CO 80222
mbrown@one-technology.com

Exhibit A

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00

April 16, 2025

Re: City of Arvada

To Whom it May Concern:

Juniper Networks ("Juniper") is very pleased to confirm that as of the date of this letter the following partner is currently authorized to resell Juniper products, training services, and support and maintenance contracts to end-user customers as specified below:

Partner Name: ONE TECHNOLOGY CORP.

Partner Level: **Elite**

Partner Territory: USA

Juniper is constantly reviewing their partner programs. Partner level, product authorizations, service specializations, and buying model relationship terms are always subject to change.

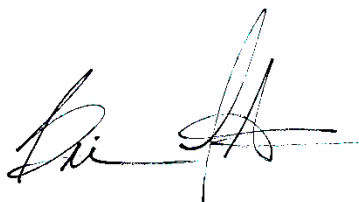
If you have any questions regarding our partnership or need additional information, please don't hesitate to contact:

Partner Account Manager: Ryan Moriarty

Phone: 414-943-4999

Email: rmoriarty@juniper.net

Sincerely,



Brian Itchon
Americas Partner Leader
Juniper Networks

Exhibit B

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00

CITY OF ARVADA
GENERAL TERMS AND CONDITIONS

1. **NO MULTI-YEAR FISCAL OBLIGATION.** Financial obligations of Arvada payable after the current fiscal year are contingent on funds for that purpose being appropriated, budgeted, and otherwise made available by the City Council for Arvada. Arvada's obligations under the Agreement shall be from year to year only and shall not constitute a multiple-fiscal year direct or indirect debt or other financial obligation of Arvada within the meaning of Article X, Section 20 of the Colorado Constitution (TABOR).
2. **TAXES.** Arvada shall not be liable for the payment of any excise, sales, or use taxes. Arvada is exempt from federal excise taxes under I.R.C. Chapter 32 (26 U.S.C., Subtitle D, Ch. 32) and from State and local government sales and use taxes under §§39-26-704(1), *et seq.*, C.R.S. (Colorado Sales Tax Exemption Identification Number 98-01789). Contractor shall not invoice Arvada for any state, federal or local taxes. Upon written notification by Arvada, Contractor shall reimburse Arvada in a timely manner for any taxes erroneously paid by Arvada.
3. **NO INDEMNIFICATION BY ARVADA.** Arvada is prohibited under Article XI, Section 1 of the Colorado Constitution from indemnifying anyone. Despite any provision in any contract document to the contrary, Arvada does not indemnify Contractor or anyone else under the Agreement.
4. **INDEMNIFICATION OF ARVADA.** Contractor shall indemnify, defend, and hold harmless Arvada, its employees, agents and assignees (the "Indemnified Parties"), against any and all costs, expenses, claims, damages, liabilities, court awards, and other amounts (including attorneys' fees and related costs) arising from or related to any act or omission by Contractor, or its employees, agents, Subcontractors, or assignees in connection with the Agreement.
 - 4.1. **Confidential Information Indemnification.** Disclosure or use of Arvada Confidential Information by Contractor may be cause for legal action by third parties against Contractor, Arvada, or their respective agents. Contractor shall indemnify, defend, and hold harmless the Indemnified Parties, against any and all claims, damages, liabilities, losses, costs, expenses (including attorneys' fees and costs) incurred by Arvada in relation to any act or omission by Contractor, or its employees, agents, assigns, or subcontractors.
 - 4.2. **Intellectual Property Indemnification.** Contractor shall indemnify, save, and hold harmless the Indemnified Parties, against any and all costs, expenses, claims, damages, liabilities, and other amounts (including attorneys' fees and costs) incurred by the Indemnified Parties in relation to any claim that any Deliverable, Good or Service, software, or Work provided by Contractor under the Agreement (collectively, "IP Deliverables"), or the use thereof, infringes a patent, copyright, trademark, trade secret, or any other intellectual property right. Contractor's obligations shall not extend to the combination of any IP Deliverables provided by Contractor with any other product, system, or method, unless the other

product, system, or method is (a) provided by Contractor or Contractor's subsidiaries or affiliates; (b) specified by Contractor to work with the IP Deliverables; (c) reasonably required in order to use the IP Deliverables in its intended manner and the infringement could not have been avoided by substituting another reasonably available product, system, or method capable of performing the same function; or (d) is reasonably expected to be used in combination with the IP Deliverables.

5. **GOVERNMENTAL IMMUNITY.** Liability for claims for injuries to persons or property arising from the negligence of Arvada, its departments, boards, commissions, committees, bureaus, offices, employees and officials shall be governed by the provisions of the Colorado Governmental Immunity Act, §§24-10-101, et seq., C.R.S. (CGIA). No term or condition of the Agreement shall be construed or interpreted as a waiver, express or implied, of any of the immunities, rights, benefits, protections, or other provisions contained in the CGIA.
6. **OPEN RECORDS REQUESTS.** Arvada is obligated to comply with the Colorado Open Records Act (C.R.S. §§24-72-200.1 *et seq.*)(CORA), which may require Arvada to disclose all or a portion of communications relating to the Agreement, any transaction under the Agreement, and other related matters. Contractor has been advised to familiarize itself with CORA. Any confidentiality provisions in any contract documents are subject to the provisions of CORA.
7. **PROTECTION OF PERSONAL IDENTIFYING INFORMATION.** In the event the Agreement includes or requires Arvada to disclose to Contractor any Personal Identifying Information as defined in C.R.S. § 24-73-101, Contractor shall comply with the applicable requirements of C.R.S. §§ 24-73-101, et seq., relating to third-party service providers.
8. **NO THIRD PARTY BENEFICIARIES.** The Agreement does not and is not intended to confer any rights or remedies upon any person or entity other than Arvada and Contractor. Enforcement of the Agreement and all related rights and obligations are reserved solely to Arvada and Contractor. Any services or benefits which third parties receive as a result of the Agreement are incidental and do not create any rights for such third parties.
9. **ASSIGNMENT.** Contractor's rights and obligations under the Agreement are personal and may not be transferred or assigned without the prior, written consent of Arvada. Any attempt at assignment or transfer without such consent shall be void. Any assignment or transfer of Contractor's rights and obligations approved by Arvada shall be subject to the provisions of the Agreement. Any provision of an assignment that enlarges any duty, responsibility, or obligation of Arvada, or that limits, curtails, or diminishes any right or privilege of Arvada, without Arvada's express written consent, shall be void.
10. **BINDING EFFECT.** This Agreement shall inure to the benefit of, and be binding upon, the parties, their respective legal representatives, successors, heirs, and assigns.

11. **SURVIVAL.** Any provision of the Agreement that imposes an obligation on a party after the Agreement's termination or expiration shall survive the termination or expiration and shall be enforceable by the other party.
12. **SUBCONTRACTS.** Contractor shall not subcontract any of its responsibilities without Arvada's prior written approval, which will not be unreasonably withheld. Contractor shall submit to Arvada a copy of each such subcontract upon Arvada's request. All subcontracts Contractor enters into in connection with the Agreement shall comply with all applicable federal, state, and local laws and regulations, shall provide that they are governed by the laws of the State of Colorado, and shall be subject to all provisions of the Agreement. Contractor agrees it is fully responsible for subcontractors performing services under the Agreement. Contractor shall be Arvada's sole point of contact regarding the services, including with respect to payment.
13. **INDEPENDENT CONTRACTOR.** Contractor shall perform its duties under the Agreement as an independent contractor and not as an employee. Neither Contractor nor any agent or employee of Contractor shall be deemed to be an agent or employee of Arvada. Contractor shall not have authorization, express or implied, to bind Arvada to any agreement, liability, or understanding, except as expressly set forth herein. **Contractor and its employees and agents are not entitled to unemployment insurance or workers compensation benefits through Arvada and Arvada shall not pay for or otherwise provide such coverage for Contractor or any of its agents or employees. Contractor shall pay when due all applicable employment taxes and income taxes and local head taxes incurred pursuant to the Agreement. Contractor shall: (i) provide and keep in force workers' compensation and unemployment compensation insurance in the amounts required by law; (ii) provide proof thereof when requested by Arvada; and (iii) be solely responsible for its acts and those of its employees and agents.**
14. **LICENSES, PERMITS, AND OTHER AUTHORIZATIONS.** Contractor shall secure, prior to the effective date, and maintain at all times during the term of the Agreement, at its sole expense, all licenses, certifications, permits, and other authorizations required to perform its obligations under the Agreement, and shall ensure that all employees, agents and subcontractors secure and maintain at all times during the term of their employment, agency or subcontract, all license, certifications, permits and other authorizations required to perform their obligations in relation to the Agreement.
15. **QUALITY OF WORK.** The Work performed by Contractor shall be done in accordance with generally accepted professional practices and with the same care, skill, and diligence presently maintained by other practicing professional contractors in the same type of work in the Denver metropolitan community.
16. **TIME OF THE ESSENCE.** Contractor acknowledges and agrees that time is of the essence for this Agreement and that it is an essential term of this Agreement that

Contractor maintain a rate of progress in the Services that will result in completion of the Services in accordance with this Agreement. To that end, Contractor agrees to proceed with all due diligence to complete the Services in a timely manner in accordance with this Agreement, and further agrees that failure to complete any of the Services during the Term of this Agreement, or as may be more specifically set forth in an attachment, exhibit, or modification, shall be deemed a breach.

17. **WAIVER OF BREACH.** A waiver by any party to the Agreement of a breach of any Agreement term shall not operate or be construed as a waiver of any subsequent breach by either party.
18. **RIGHT TO TERMINATE.** Arvada shall have the right to terminate, without cause, the Agreement. Any such termination shall not be considered a breach of the Agreement or any extension. In the event Arvada terminates for convenience, Arvada will pay Contractor for requested work performed up until the time of termination, not to exceed the total amount of the contract price agreed upon by Arvada and Contractor.
19. **EXTERNAL TERMS AND CONDITIONS.** Notwithstanding anything to the contrary, Arvada shall not be subject to any provision included in any terms, conditions, or agreements appearing on Contractor's or a subcontractor's website or any provision incorporated into any click-through or online agreements related to the Work unless that provision is specifically referenced in the Agreement.
20. **PRIVACY POLICY.** Any language in Contractor's privacy policy, if applicable, reserving to Contractor the right to change the privacy policy without notice at any time is hereby amended to provide Arvada with notice in writing pursuant to the Notice provision of the Agreement, of any material change to the privacy policy no less than thirty days prior to the date such language takes effect. Contractor warrants that any such privacy policy change will not materially reduce the level of protection afforded to Arvada or its end users.
21. **PROHIBITED TERMS.** Any term included in the Agreement that requires Arvada to indemnify or hold Contractor harmless; requires Arvada to agree to binding arbitration; limits Contractor's liability for damages resulting from death, bodily injury, or damage to tangible property; or that conflicts with this provision in any way shall be void ab initio. Any term included in the Agreement that limits Contractor's liability that is not void under this section shall apply only in excess of any insurance to be maintained under the Agreement, and no insurance policy shall be interpreted as being subject to any limitations of liability of the Agreement.
22. **COMPLIANCE WITH ALL LAWS.** Contractor shall comply with all applicable federal, Colorado and Arvada laws, rules, regulations, policies and procedures in effect or hereafter established, including, without limitation, laws applicable to discrimination and unfair employment practices.

23. **BINDING ARBITRATION PROHIBITED.** Arvada does not agree to binding arbitration by any extra-judicial body or person. Any provision to the contrary shall be null and void.
24. **GOVERNING LAW AND VENUE.** Colorado law, rules, and regulations shall be applied in the interpretation, execution, and enforcement of the Agreement. Any provision included or incorporated herein by reference which conflicts with said laws, rules, and regulations shall be null and void. All suits or actions related to the Agreement shall be filed and proceedings held in the State of Colorado and exclusive venue shall be in Jefferson County.
25. **OWNERSHIP OF WORK PRODUCT.** The originals of all plans, reports, studies, data, or other materials or information relating to the Work that are produced by Contractor shall be delivered to and become the property of Arvada. Contractor may retain copies of any originals; however, no plans, reports, studies, data, or other materials or information relating to the Work shall be released to any person or entity without the prior written consent of Arvada. Nothing in this clause is intended to affect Contractor's right to use generic know-how learned in the course of providing services under the Agreement for the future benefit of Arvada or others.
26. **SOFTWARE PIRACY PROHIBITION.** Arvada or other public funds payable under the Agreement shall not be used for the acquisition, operation, or maintenance of computer software in violation of federal copyright laws or applicable licensing restrictions. Contractor hereby certifies and warrants that, during the term of the Agreement and any extensions, Contractor has and shall maintain in place appropriate systems and controls to prevent such improper use of public funds. If Arvada determines that Contractor is in violation of this provision, Arvada may exercise any remedy available at law or in equity or under the Agreement, including, without limitation, immediate termination of the Agreement and any remedy consistent with federal copyright laws or applicable licensing restrictions.

Exhibit C

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00

INSURANCE REQUIREMENTS

1. GENERALLY. Consultant will be required to, at its own expense, keep in full force and effect during the term of the Agreement, and during the term of any extension or amendment of the Agreement, insurance reasonably sufficient to insure against the liability assumed by Consultant pursuant to the provisions of the solicitation sent by the City of Arvada or as determined by the City of Arvada Risk Manager.

2. TYPES REQUIRED. The following listed insurance requirements shall be carried by the selected vendor for the entirety of the contract. Applicable requirements for this solicitation are identified by completed check boxes.

- 2.1 ☒ **Commercial General Liability**, written on an occurrence form, for limits not less than \$1,000,000.00 for bodily injury and property damage for each occurrence and not less than \$2,000,000.00 aggregate. Coverage shall include premises and operations liability, blanket contractual, broad form property damage, products and completed operations and personal injury endorsements.
- 2.2 ☒ **Workers' Compensation and Employers Liability** as required by statute. Employers Liability coverage is to be carried for a minimum limit of \$1,000,000.00 each occurrence and \$2,000,000 general aggregate.
- 2.3 ☒ **Automobile Liability** for limits not less than \$ 1,000,000.00 combined single limit for bodily injury and property damage for each occurrence. Coverage shall include owned, non-owned and hired automobiles.
- 2.4 ☐ **Umbrella Liability** of \$[____], following form to the Commercial General Liability.
- 2.5 ☐ **Professional Liability** Professional Liability insurance in an amount of not less than \$1,000,000.00 per occurrence, covering the professional work contemplated under this proposal. The coverage shall have an extended reporting period of three years following the date of substantial completion of the work for reporting of claims.
- 2.6 ☐ **Pollution Legal Liability Insurance** for limits not less than \$1,000,000.00 per occurrence (or claims made) and not less than \$1,000,000.00 aggregate for bodily Injury, personal Injury and property Damage.
- 2.7 ☒ **Privacy/Network/Cyber Liability Insurance** for limits not less than \$1,000,000.00 for any firm providing product or services associated with IT, software, communication, or network.
- 2.8 ☐ **Builders Risk or Course of Construction** Purchased by contractor to cover

physical damage to property in construction or rehab. Contractors will ensure that City and subcontractors will be covered as additional insureds, excluding their own machinery, tools and equipment.

2.9 ☐ **Other.**

3. ADDITIONAL REQUIREMENTS.

- 3.1 Issuance of a Purchase Order/Contract is contingent upon the receipt of the insurance documents. Work shall not commence before this requirement is met. If the vendor fails to submit the required insurance documents within 14 calendar days after notice to submit such policies is given to the vendor by a City representative, the vendor may be in default of the Award.
- 3.2 Except for Workers Compensation, Employer's Liability insurance, Automobile Liability and Professional Liability insurance, the City of Arvada must be endorsed as an additional insured on a Certificate of Insurance.
- 3.3 All coverage must be written with carriers holding a minimum A.M. Best rating of A-VII, and authorized to do business in Colorado. Coverage shall be primary, and any insurance held by the City of Arvada is excess and non-contributory.
- 3.4 The City, through its Risk Manager, reserves the right to require additional insurance coverage and other requirements.
- 3.5 All proof of insurance documentation is due to the City Manager within 14 days of execution of this Agreement.

Exhibit D

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00

**One Technology Corporation
Consulting Services Agreement**

This Consulting Services Agreement ("Agreement") is made as of April 1, 2025, between **One Technology Corporation** ("One Technology"), with its principal place of business at 2000 S Colorado Blvd, Bldg. I – Suite 2000, Denver, CO 80222 and **City of Arvada** ("Client"), having principal place of business at 8101 Ralston Rd, Arvada, CO 80002.

1. **Services.** One Technology shall provide consulting services as specified in Appendix A (the "Services"). The parties shall agree upon any change in the scope of Services in writing, and One Technology shall have no obligation to perform services in connection with any change until the parties have agreed upon the effect of such a change on fees and/or schedule.
2. **Contract Amount.** The total cost of services shall not exceed **\$11,000** for the work referenced in Appendix A, to include up to **40 hours** of services at **\$275 per hour**. All services shall be billed on a Time and Materials basis.
3. **Service Period.** ~~The service period is defined as starting on or about April 1, 2025, and completing prior to December 31, 2025.~~
4. **Payment.** Fees for services detailed in this Agreement shall be invoiced monthly to Client for actual hours used with Net-30 terms.
5. **Rights in Materials.** Client shall own, upon payment of all fees incurred, any deliverables, including software programs, source and object code, files, tapes, disk, and documentation originally developed solely for Client under this agreement. Such deliverables shall be owned for client for its own internal use. One Technology shall be free to use its general knowledge, skills and experience gained while providing Services on other engagements.
6. **Personnel.** One Technology shall endeavor to honor a request for a specific consultant, subject to staffing or scheduling considerations; however, One Technology shall determine the assignment of its personnel.
7. **Location.** All services may be performed remotely except as required for the successful delivery of specified deliverables.
8. **Travel.** Travel. No travel is anticipated for the completion of this Agreement. Any service delivery requiring travel from the Denver, CO metro area by air or beyond two hours by automobile shall have reasonable travel expenses billed on a time and materials basis in accordance with the One Technology travel policy and with prior written approval by Client.
9. **Warranties.** One Technology warrants to Client that during the term of this Agreement and for a period of ninety (90) days from the completion of Services that the Services shall be performed in a workmanlike manner in accordance with applicable commercial standards.
10. **Independent Contractor.** It is understood that One Technology will fulfill this contract utilizing any combination of One Technology engineers, or sub-contracted engineers. No agency or employment relationship is to be implied or construed as part of this Agreement.
11. **Service Extension.** Client may at any time approach One Technology to extend this Agreement. Any request to extend services shall be agreed to by the parties in writing and will constitute a change in the scope of services and may involve a change in the contract amount.
12. **Termination.** Client may terminate this Agreement without cause by giving One Technology thirty (30) days written notice.
13. ~~**Limitation of Liability.** One Technology's liability to Client or any third party concerning performance or non-performance or otherwise related to this Agreement shall in the aggregate be limited to the direct and actual damages, not to exceed the fees received by One Technology hereunder for the portion of the services giving rise to such claim.~~
14. ~~**Force Majeure.** Neither party shall be liable for any delays or failures in performance due to circumstances beyond its control.~~

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized Representative.

City of Arvada

One Technology Corporation

By: _____
Signature

By: _____
Signature

Printed Name and Date

Printed Name and Date

Title

Title

Appendix A Consulting Services Agreement

Description and Rate Structure for Services

Service Description:

- One Technology shall provide consulting services to include, but not limited to:
 - Initial configuration on Juniper Networks EX & QFX switches and configuration of Mist Access Points
 - Mist Integration of hardware into correct site
 - Mist Network Template Build
 - Mist Site creation
 - Other consulting services as requested
- No on-call availability of SLA for emergency consulting services is implied in the Agreement. After hours support may be provided on a best effort basis.

Cost of Services:

- Professional services shall be provided at a rate of \$275 per hour, not to exceed 40 hours of services
- Total engagement cost of services not to exceed \$11,000
- Services provided on a time and materials basis

Service Period:

- ~~April 1, 2025, to December 31, 2025~~

Deliverables:

- Documentation, as requested by Client

Client Responsibilities:

- Provide secure remote access to required systems via VPN or screen share sessions in accordance with Client security policies
- Provide a single point of contact for coordination of Client processes, approvals, or testing
- Facilitate any required change management in accordance with applicable policies and procedures
- Ensure that all systems are current on manufacturer support
- Compliance to all legal and regulatory requirements for the local jurisdiction

Exhibit E

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00



one technology

2000 S Colorado Blvd, Bldg 1-2000
Denver CO 80222

**IT INFRASTRUCTURE
CLOUD ENABLEMENT
DEVOPS
SECURITY
PRO SERVICES**

City of Arvada - Evidence Building

Quote Contact: **Erin Green**

Quote Number: **OTC-31720389**

Prepared By: **Dean Jansen**

djansen@one-technology.com

Phone: **866-ONE-TEC1**





Prepared by: Dean Jansen // djansen@one-technology.com

ACCOUNT EXECUTIVE

Name: Dean Jansen
Phone Number: 866-ONE-TEC1
Email: djansen@one-technology.com

DATE: 04/02/2025

NUMBER: OTC-31720389

PREPARED FOR:

Erin Green
City of Arvada
8101 Ralston Road
Arvada, CO 80002
Phone: (720)898-7872
Email: egreen@arvada.org

SHIP TO:

Erin Green
City of Arvada
8101 Ralston Road
Arvada, CO 80002

Line #	Item Number	Item Description	Qty.	Price	Extended
*1	AP47-US	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	3	\$ 1,322.87	\$ 3,968.61
*2	SUB-2S-5Y	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includes upgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points; Contains WIFI Assurance Subscription, Virtual Network Assistant Subscription	3	\$ 599.74	\$ 1,799.22
*3	AP64-US	High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US Only; Flush Mounting Bracket is included.	1	\$ 1,085.37	\$ 1,085.37
*4	ADV-XCH-US	Annual extended post-warranty hardware support for outdoor rated Wi-Fi access points (AP61, AP63, AP64) including advance replacement with Next Business Day - US Only	1	\$ 386.73	\$ 386.73
*5	SUB-2S-5Y	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includes upgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points; Contains WIFI Assurance Subscription, Virtual Network Assistant Subscription	1	\$ 599.74	\$ 599.74
*6	S-ME-S-5	SW, Mist Edge Assurance (SUB-ME) for Mist Edge (ME-X1, ME-X1-M, MEX5, ME-X10, ME-VM), Standard, includes upgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points, with SVC Customer Support, 5 Year; Contains WIFI Assurance Subscription for Mist Edge	4	\$ 119.95	\$ 479.80
*7	EX4400-48MP	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module: 4x10G or 4x25G	2	\$ 3,998.20	\$ 7,996.40

Line #	Item Number	Item Description	Qty.	Price	Extended
*8	CBL-PWR-C15M-HITEMP-US	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	2	\$ 31.18	\$ 62.36
*9	JPSU-1600-C-AC-AFO	1600W Compact AC AFO power supply for EX4400 switches	2	\$ 594.47	\$ 1,188.94
*10	EX4400-EM-4Y	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	2	\$ 1,327.62	\$ 2,655.24
*11	SUB-EX48-2S-5Y-N	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4000, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,549.33	\$ 3,098.66
*12	S-EX-A-C3-P	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 916.35	\$ 1,832.70
*13	QSFP-100G-DAC-50CM	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 48.15	\$ 96.30
13 item(s)			Sub-Total		\$ 25,250.07
			Tax @ 7.96%		\$ 0.00
			Freight		as applicable
			Total		\$ 25,250.07
(*) Tax exempted Part(s)					

Quote Valid Until: 05/02/2025

If applicable, all sales are subject to taxes and shipping charges. A 3.5% processing fee applies to orders paid by credit card.

All orders are subject to the manufacturer warranty and Terms & Conditions.

One Technology makes every attempt to honor pricing for the validity period of the quote but reserves the right to adjust pricing accordingly for any changes incurred as a result of trade tariffs.

Service Hours are good for up to one year from date of purchase.

Taxes and shipping/freight will be added the order as applicable.

TERMS AND CONDITIONS

PAYMENT DETAILS

Credit Card [# Expires On:]
Payment Term: Due upon Receipt

SHIPPING AND DELIVERY DETAILS

Shipping via: FEDEX Ground

Customer, by its signature below, places its order to OTC for the products and services in this Quote.

AUTHORIZED SIGNATURE _____

PRINTED NAME _____

TITLE _____

DATE _____

Exhibit F

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
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one technology

2000 S Colorado Blvd, Bldg 1-2000
Denver CO 80222

**IT INFRASTRUCTURE
CLOUD ENABLEMENT
DEVOPS
SECURITY
PRO SERVICES**

CITY OF ARVADA - Juniper 1/2
Quote Contact: **Erin Green**
Quote Number: **OTC-31720433-5**

Prepared By: **Dean Jansen**
djansen@one-technology.com
Phone: 866-ONE-TEC1





Prepared by: Dean Jansen // djansen@one-technology.com

ACCOUNT EXECUTIVE

DATE: 04/28/2025

NUMBER: OTC-31720433-5

Name: Dean Jansen

Phone Number: 866-ONE-TEC1

Email: djansen@one-technology.com

PREPARED FOR:

Erin Green

City of Arvada

8101 Ralston Road

Arvada, CO 80002

Phone: (720)898-7872

Email: egreen@arvada.org

SHIP TO:

Erin Green

City of Arvada

8101 Ralston Road

Arvada, CO 80002

Line #	Item Number	Item Description	Qty.	Price	Extended
Arvada Center MDF					
*1	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	2	\$ 4,693.39	\$ 9,386.78
*2	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	2	\$ 36.59	\$ 73.18
*3	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	2	\$ 697.85	\$ 1,395.70
*4	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*5	EX4400-EM-1C-491	1x100G MACsec AES256 extension module for EX4400 switches	1	\$ 1,558.47	\$ 1,558.47
*6	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 1,075.68	\$ 2,151.36
*7	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*8	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*9	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 2,729.79	\$ 5,459.58
*10	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	2	\$ 80.69	\$ 161.38
Group Total					\$ 25,495.54
Arvada Center 1st Floor					
*11	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*12	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*13	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*14	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*15	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.67	\$ 1,075.67
*16	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*17	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*18	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includes upgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*19	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	2	\$ 53.38	\$ 106.76
Group Total					\$ 12,244.48
Arvada Center 2nd Floor					

Line #	Item Number	Item Description	Qty.	Price	Extended
*20	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*21	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*22	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*23	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*24	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*25	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*26	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	2	\$ 53.38	\$ 106.76
				Group Total	\$ 9,987.53
Arvada Library					
*27	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*28	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*29	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*30	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
				Group Total	\$ 2,640.75
Arvada WTP					
*31	EX4400-24MP-491	24x1/2.5/5/10G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module: 4x10G or 4x25G	1	\$ 4,332.18	\$ 4,332.18
*32	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*33	JPSU-1050-C-AC-AFO-491	1050W Compact AC AFO power supply for EX4400 switches	1	\$ 542.95	\$ 542.95
*34	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*35	S-EX-A-C2-P-AR2472	SW, EX, Advanced, Class 2 (24 ports), Perpetual	1	\$ 716.72	\$ 716.72
*36	SUB-EX24-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX24 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,167.94	\$ 1,167.94
*37	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*38	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*39	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	2	\$ 80.69	\$ 161.38
*40	49408	Juniper Networks SFP-1GE-LX-20 Compatible 1000BASE-LX/LH SFP 1310nm 20km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 12.97	\$ 25.94
				Group Total	\$ 10,799.13
Aura					
*41	EX4400-24MP-491	24x1/2.5/5/10G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module: 4x10G or 4x25G	1	\$ 4,332.18	\$ 4,332.18
*42	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*43	JPSU-1050-C-AC-AFO-491	1050W Compact AC AFO power supply for EX4400 switches	1	\$ 542.95	\$ 542.95
*44	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*45	S-EX-A-C2-P-AR2472	SW, EX, Advanced, Class 2 (24 ports), Perpetual	1	\$ 716.72	\$ 716.72
*46	SUB-EX24-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX24 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,167.94	\$ 1,167.94
*47	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*48	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*49	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76

Line #	Item Number	Item Description	Qty.	Price	Extended
				Group Total	\$ 10,934.57
Beghtol Training Center					
*50	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*51	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*52	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*53	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*54	SFPP-10G-LR-C-491	SFP+, 10GBASE-LR, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector	4	\$ 33.63	\$ 134.52
*55	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*56	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
				Group Total	\$ 5,032.23
Blunn Ranger Station					
*57	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*58	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*59	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*60	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*61	SFPP-10G-LR-C-491	SFP+, 10GBASE-LR, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector	2	\$ 33.63	\$ 67.26
*62	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*63	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
				Group Total	\$ 4,964.97
City Hall 1st Floor N PD					
*64	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	7	\$ 4,693.39	\$ 32,853.73
*65	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	7	\$ 36.59	\$ 256.13
*66	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	7	\$ 697.85	\$ 4,884.95
*67	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	7	\$ 1,558.47	\$ 10,909.29
*68	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	7	\$ 1,075.68	\$ 7,529.76
*69	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	7	\$ 1,818.79	\$ 12,731.53
*70	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	6	\$ 56.52	\$ 339.12
*71	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*72	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*73	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*74	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*75	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*76	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	6	\$ 1,552.90	\$ 9,317.40
*77	AP12-US-491	High Performance Wallplate WiFi 6 802.11ax Access Point with Bluetooth Low Energy - US Deployments Only; Universal Mounting Bracketis included;	2	\$ 447.85	\$ 895.70
*78	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	8	\$ 704.06	\$ 5,632.48
*79	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 88,285.01
City Hall 2nd Floor N					
*80	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	6	\$ 4,693.39	\$ 28,160.34

Line #	Item Number	Item Description	Qty.	Price	Extended
*81	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	6	\$ 36.59	\$ 219.54
*82	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	6	\$ 697.85	\$ 4,187.10
*83	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	6	\$ 1,558.47	\$ 9,350.82
*84	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	6	\$ 1,075.68	\$ 6,454.08
*85	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	6	\$ 1,818.79	\$ 10,912.74
*86	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	5	\$ 56.52	\$ 282.60
*87	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	3	\$ 1,552.90	\$ 4,658.70
*88	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*89	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	3	\$ 704.06	\$ 2,112.18
*90	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 66,632.27
City Hall 2nd Floor South					
*91	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	3	\$ 4,693.39	\$ 14,080.17
*92	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	3	\$ 36.59	\$ 109.77
*93	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	3	\$ 697.85	\$ 2,093.55
*94	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	3	\$ 1,558.47	\$ 4,675.41
*95	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	3	\$ 1,075.68	\$ 3,227.04
*96	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	3	\$ 1,818.79	\$ 5,456.37
*97	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*98	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*99	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	3	\$ 1,552.90	\$ 4,658.70
*100	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	3	\$ 704.06	\$ 2,112.18
*101	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 36,820.40
City Hall Council Chambers					
*102	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*103	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*104	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*105	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
				Group Total	\$ 2,640.75
City Hall Studio					
*106	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*107	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*108	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*109	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*110	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*111	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
				Group Total	\$ 9,880.77
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Line #	Item Number	Item Description	Qty.	Price	Extended
*112	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	3	\$ 4,693.39	\$ 14,080.17
*113	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	3	\$ 36.59	\$ 109.77
*114	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	3	\$ 697.85	\$ 2,093.55
*115	EX4400-EM-4Y	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	3	\$ 1,558.47	\$ 4,675.41
*116	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	3	\$ 1,075.67	\$ 3,227.01
*117	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	3	\$ 1,818.79	\$ 5,456.37
*118	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*119	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*120	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*121	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	2	\$ 704.06	\$ 1,408.12
*122	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
Group Total					\$ 34,563.41
	City Hall Annex				
*123	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	3	\$ 4,693.39	\$ 14,080.17
*124	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	3	\$ 36.59	\$ 109.77
*125	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	3	\$ 697.85	\$ 2,093.55
*126	EX4400-EM-4Y	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	3	\$ 1,558.47	\$ 4,675.41
*127	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	3	\$ 1,075.67	\$ 3,227.01
*128	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	3	\$ 1,818.79	\$ 5,456.37
*129	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*130	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*131	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*132	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	2	\$ 704.06	\$ 1,408.12
*133	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
Group Total					\$ 34,672.65
	City Hall CRIT				
*134	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*135	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*136	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*137	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*138	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.67	\$ 1,075.67
*139	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*140	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*141	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
Group Total					\$ 12,137.72
	City Hall EOC				

Line #	Item Number	Item Description	Qty.	Price	Extended
*142	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*143	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*144	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*145	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*146	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*147	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*148	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*149	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*150	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
				Group Total	\$ 12,460.49
City Hall KATV					
*151	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*152	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*153	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*154	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*155	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.67	\$ 1,075.67
*156	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*157	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*158	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*159	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 12,351.24
City Hall Neighborhood Services					
*160	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*161	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*162	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*163	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*164	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.67	\$ 1,075.67
*165	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*166	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*167	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*168	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 12,351.24
City Hall Training Cart					
*169	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*170	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*171	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23

Line #	Item Number	Item Description	Qty.	Price	Extended
*172	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
				Group Total	\$ 2,640.75
City Hall Data Center Access					
*173	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	4	\$ 4,693.39	\$ 18,773.56
*174	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	4	\$ 36.59	\$ 146.36
*175	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	4	\$ 697.85	\$ 2,791.40
*176	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	4	\$ 1,558.47	\$ 6,233.88
*177	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	4	\$ 1,075.68	\$ 4,302.72
*178	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	4	\$ 1,818.79	\$ 7,275.16
*179	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	3	\$ 56.52	\$ 169.56
*180	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*181	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*182	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	2	\$ 704.06	\$ 1,408.12
*183	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 44,500.73
City Hall Data Center Net Management					
*184	EX4400-48T-AFO-491	48 x1G port switch with 2x100G uplink/stacking ports. AFO fans and psu. MACsec AES256 capable (optional license sold separately). Optional extension module(sold separately): 4x10G or 4x25G	2	\$ 3,255.13	\$ 6,510.26
*185	CBL-EX-PWR-C13-US-491	Power Cable, US	2	\$ 22.72	\$ 45.44
*186	JPSU-550-C-AC-AFO	550W compact AC AFO power supply for EX4400 switches	2	\$ 323.38	\$ 646.76
*187	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	2	\$ 1,558.47	\$ 3,116.94
*188	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 1,075.68	\$ 2,151.36
*189	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*190	JNP-100G-DAC-1M-491	QSFP28, 100GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.015W, 30 AWG	2	\$ 71.13	\$ 142.26
*191	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	4	\$ 53.38	\$ 213.52
				Group Total	\$ 16,464.12
City Hall Data Center Ring					
*192	QFX5120-48Y-AFO2-491	QFX5120-48Y, airflow out, redundant AC PSUs and FANs Ships with base S/W features.	2	\$ 9,945.21	\$ 19,890.42
*193	S-QFX5K-C1-A1-P-491	perpetual Advanced1 license for Class 1 QFX5K products	2	\$ 5,788.37	\$ 11,576.74
*194	SVC-COR-QFX5K-C1A1-491	Juniper Care Core Support for S-QFX5K-C1-A1-P	2	\$ 738.92	\$ 1,477.84
*195	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*196	SVC-ND-QFX5-48YB-491	Juniper Care Next Day Support for QFX5120-48Y-D-AFO2,QFX5120-48Y-D-AFI2,QFX5120-48Y-AFO2 & QFX5120-48Y-AFI2	2	\$ 1,344.56	\$ 2,689.12
*197	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*198	SFP-10G-SR-C-491	SFP+, 10GBASE-SR, MMF OM3 300 meters and OM4 400 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector	4	\$ 24.12	\$ 96.48
*199	104865	Juniper Networks JNP-QSFP-100G-LR4 Compatible 100GBASE-LR4 QSFP28 1310nm 10km DOM Duplex LC/UPC SMF Optical Transceiver Module	4	\$ 544.97	\$ 2,179.88
*200	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	4	\$ 2,729.79	\$ 10,919.16
*201	36621	1m (3ft) Juniper Networks EXSFP-10GE-DAC-1M Compatible 10G SFP+ Passive Direct Attach Copper Twinax Cable	4	\$ 14.90	\$ 59.60

Line #	Item Number	Item Description	Qty.	Price	Extended
*202	20666	Juniper Networks EX-SFP-1GE-T Compatible 10/100/1000BASE-T SFP SGMII Copper 100m RJ-45 Transceiver Module	4	\$ 38.48	\$ 153.92
				Group Total	\$ 52,793.78
City Hall Data Center Server Farm					
*203	QFX5120-48Y-AFI2-491	QFX5120-48Y, airflow in, redundant AC PSUs and FANs Ships with base S/W features.	2	\$ 9,945.21	\$ 19,890.42
*204	S-QFX5K-C1-A1-P-491	perpetual Advanced1 license for Class 1 QFX5K products	2	\$ 5,788.37	\$ 11,576.74
*205	SVC-COR-QFX5K-C1A1-491	Juniper Care Core Support for S-QFX5K-C1-A1-P	2	\$ 738.92	\$ 1,477.84
*206	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*207	SVC-ND-QFX5-48YB-491	Juniper Care Next Day Support for QFX5120-48Y-D-AFO2,QFX5120-48Y-D-AFI2,QFX5120-48Y-AFO2 & QFX5120-48Y-AFI2	2	\$ 1,344.56	\$ 2,689.12
*208	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*209	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	4	\$ 2,729.79	\$ 10,919.16
*210	S25P-H PM-JN P-3M-GT	SFP28 25GB Passive Twinax Cable HPE M-Series to Juniper Compatible- 3M	16	\$ 74.48	\$ 1,191.68
				Group Total	\$ 51,495.58
City Hall Data Center Mist Edge					
*211	ME-X6-491	Mist Edge Appliance, 4x25GBASE-XX (SFP28), Supports 5000 Access Points, SFP Optics not included	2	\$ 26,399.31	\$ 52,798.62
*212	ME-ADV-XCH-US-491	Annual extended hardware support for Mist Edge (ME-X5, ME-X5-M, ME-X6 and ME-X10) including advance replacement with Next Business Day shipment - US Only	2	\$ 1,713.04	\$ 3,426.08
*213	SUB-ME-1S-5Y-491	Mist Edge Subscription for 5 years for 1 Access Point (Data Tunneling Service)	2	\$ 140.81	\$ 281.62
*214	S-ME-S-5-491	SW, Mist Edge Assurance (SUB-ME) for Mist Edge (ME-X1,ME-X1-M,ME-X5,ME-X10,ME-VM), Standard, includes upgrades,cloud function subscriptions and limited lifetime warranty benefits on indoor access points, with SVC Customer Support, 5 Year	63	\$ 140.81	\$ 8,871.03
*215	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	12	\$ 53.38	\$ 640.56
				Group Total	\$ 66,017.91
Impound Barn MDF					
*216	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*217	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*218	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*219	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*220	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*221	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*222	48837	Juniper Networks Compatible 10GBASE-ER SFP+ 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 63.53	\$ 127.06
				Group Total	\$ 5,024.77
Impound Barn Gas Shed					
*223	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*224	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*225	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*226	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*227	SFPP-10G-SR-C-491	SFP+, 10GBASE-SR, MMF OM3 300 meters and OM4 400 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector	2	\$ 24.12	\$ 48.24
				Group Total	\$ 2,688.99
IS Data Center Access					
*228	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	3	\$ 4,693.39	\$ 14,080.17
*229	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	3	\$ 36.59	\$ 109.77
*230	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	3	\$ 697.85	\$ 2,093.55

Line #	Item Number	Item Description	Qty.	Price	Extended
*231	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	3	\$ 1,558.47	\$ 4,675.41
*232	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	3	\$ 1,075.68	\$ 3,227.04
*233	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	3	\$ 1,818.79	\$ 5,456.37
*234	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*235	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*236	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	5	\$ 1,552.90	\$ 7,764.50
*237	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	5	\$ 704.06	\$ 3,520.30
*238	146897	1m (3ft) Juniper Networks Compatible 25G SFP28 Active Direct Attach Copper Twinax Cable	2	\$ 51.86	\$ 103.72
Group Total					\$ 41,224.52
IS Data Center Ring					
*239	QFX5120-48Y-AFO2-491	QFX5120-48Y, airflow out, redundant AC PSUs and FANs Ships with base S/W features.	2	\$ 9,945.21	\$ 19,890.42
*240	S-QFX5K-C1-A1-P-491	perpetual Advanced1 license for Class 1 QFX5K products	2	\$ 5,788.37	\$ 11,576.74
*241	SVC-COR-QFX5K-C1A1-491	Juniper Care Core Support for S-QFX5K-C1-A1-P	2	\$ 738.92	\$ 1,477.84
*242	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*243	SVC-ND-QFX5-48YB-491	Juniper Care Next Day Support for QFX5120-48Y-D-AFO2,QFX5120-48Y-D-AFI2,QFX5120-48Y-AFO2 & QFX5120-48Y-AFI2	2	\$ 1,344.56	\$ 2,689.12
*244	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*245	104865	Juniper Networks JNP-QSFP-100G-LR4 Compatible 100GBASE-LR4 QSFP28 1310nm 10km DOM Duplex LC/UPC SMF Optical Transceiver Module	4	\$ 544.97	\$ 2,179.88
Group Total					\$ 41,564.62
IS Data Center Server Farm					
*246	QFX5120-48Y-AFI2-491	QFX5120-48Y, airflow in, redundant AC PSUs and FANs Ships with base S/W features.	2	\$ 9,945.21	\$ 19,890.42
*247	S-QFX5K-C1-A1-P-491	perpetual Advanced1 license for Class 1 QFX5K products	2	\$ 5,788.37	\$ 11,576.74
*248	SVC-COR-QFX5K-C1A1-491	Juniper Care Core Support for S-QFX5K-C1-A1-P	2	\$ 738.92	\$ 1,477.84
*249	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*250	SVC-ND-QFX5-48YB-491	Juniper Care Next Day Support for QFX5120-48Y-D-AFO2,QFX5120-48Y-D-AFI2,QFX5120-48Y-AFO2 & QFX5120-48Y-AFI2	2	\$ 1,344.56	\$ 2,689.12
*251	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*252	S25P-H PM-JN P-3M-GT	SFP28 25GB Passive Twinax Cable HPE M-Series to Juniper Compatible- 3M	16	\$ 74.48	\$ 1,191.68
Group Total					\$ 40,576.42
252 item(s)			Sub-Total		\$ 769,887.34
			Tax @ 7.96%		\$ 0.00
			Freight		as applicable
			Total		\$ 769,887.34
(*) Tax exempted Part(s)					

Quote Valid Until: 05/28/2025

If applicable, all sales are subject to taxes and shipping charges. A 3.5% processing fee applies to orders paid by credit card.

All orders are subject to the manufacturer warranty and Terms & Conditions.

One Technology makes every attempt to honor pricing for the validity period of the quote but reserves the right to adjust pricing accordingly for any changes incurred as a result of trade tariffs.

Service Hours are good for up to one year from date of purchase.

Taxes and shipping/freight will be added the order as applicable.

TERMS AND CONDITIONS

NASPO Master Contract Number: AR2472
 Contract Term: 03/17/20 - 09/15/26

PAYMENT DETAILS

Pay by: Company PO

SHIPPING AND DELIVERY DETAILS

Shipping via: FEDEX Ground

Customer, by its signature below, places its order to OTC for the products and services in this Quote.

AUTHORIZED SIGNATURE_____

PRINTED NAME_____

TITLE_____

DATE_____

Exhibit G

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00



one technology

2000 S Colorado Blvd, Bldg 1-2000
Denver CO 80222

**IT INFRASTRUCTURE
CLOUD ENABLEMENT
DEVOPS
SECURITY
PRO SERVICES**

CITY OF ARVADA - Juniper 2/2
Quote Contact: **Erin Green**
Quote Number: **OTC-31720572**

Prepared By: **Dean Jansen**
djansen@one-technology.com
Phone: 866-ONE-TEC1





Prepared by: Dean Jansen // djansen@one-technology.com

ACCOUNT EXECUTIVE

DATE: 04/28/2025

NUMBER: OTC-31720572

Name: Dean Jansen

Phone Number: 866-ONE-TEC1

Email: djansen@one-technology.com

PREPARED FOR:

Erin Green

City of Arvada

8101 Ralston Road

Arvada, CO 80002

Phone: (720)898-7872

Email: egreen@arvada.org

SHIP TO:

Erin Green

City of Arvada

8101 Ralston Road

Arvada, CO 80002

Line #	Item Number	Item Description	Qty.	Price	Extended
JeffCo Backup DC					
*1	QFX5120-48Y-AFO2-491	QFX5120-48Y, airflow out, redundant AC PSUs and FANs Ships with base S/W features.	2	\$ 9,945.21	\$ 19,890.42
*2	S-QFX5K-C1-A1-P-491	perpetual Advanced1 license for Class 1 QFX5K products	2	\$ 5,788.37	\$ 11,576.74
*3	SVC-COR-QFX5K-C1A1-491	Juniper Care Core Support for S-QFX5K-C1-A1-P	2	\$ 738.92	\$ 1,477.84
*4	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*5	SVC-ND-QFX5-48YB-491	Juniper Care Next Day Support for QFX5120-48Y-D-AFO2,QFX5120-48Y-D-AFI2,QFX5120-48Y-AFO2 & QFX5120-48Y-AFI2	2	\$ 1,344.56	\$ 2,689.12
*6	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*7	104865	Juniper Networks JNP-QSFP-100G-LR4 Compatible 100GBASE-LR4 QSFP28 1310nm 10km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 544.97	\$ 1,089.94
*8	20666	Juniper Networks EX-SFP-1GE-T Compatible 10/100/1000BASE-T SFP SGMII Copper 100m RJ-45 Transceiver Module	4	\$ 38.48	\$ 153.92
Group Total					\$ 40,628.60
Lake Arbor Community Station					
*9	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	2	\$ 4,693.39	\$ 9,386.78
*10	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	2	\$ 36.59	\$ 73.18
*11	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	2	\$ 697.85	\$ 1,395.70
*12	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*13	EX4400-EM-1C-491	1x100G MACsec AES256 extension module for EX4400 switches	1	\$ 1,558.47	\$ 1,558.47
*14	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 1,075.67	\$ 2,151.34
*15	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*16	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*17	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*18	AP64-US-491	High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US Only; Flush Mounting Bracket is included.	1	\$ 1,274.10	\$ 1,274.10
*19	ADV-XCH-US-491	Annual extended post-warranty hardware support for outdoor rated WiFi access points (e.g., AP61 or AP63) including advance replacement with next day shipment - US Only	1	\$ 122.50	\$ 122.50
*20	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	3	\$ 704.06	\$ 2,112.18

Line #	Item Number	Item Description	Qty.	Price	Extended
*21	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 2,729.79	\$ 5,459.58
*22	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	2	\$ 80.69	\$ 161.38
				Group Total	\$ 32,110.10
Lake Arbor Golf MDF					
*23	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	2	\$ 4,693.39	\$ 9,386.78
*24	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	2	\$ 36.59	\$ 73.18
*25	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	2	\$ 697.85	\$ 1,395.70
*26	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*27	EX4400-EM-1C-491	1x100G MACsec AES256 extension module for EX4400 switches	1	\$ 1,558.47	\$ 1,558.47
*28	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 1,075.68	\$ 2,151.36
*29	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*30	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*31	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*32	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*33	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 2,729.79	\$ 5,459.58
*34	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	2	\$ 80.69	\$ 161.38
				Group Total	\$ 27,752.50
Lake Arbor Golf Maintenance					
*35	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*36	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*37	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*38	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*39	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*40	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
				Group Total	\$ 4,897.71
LongLake Baseball Field					
*41	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*42	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*43	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*44	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*45	SFPP-10G-LR-C-491	SFP+, 10GBASE-LR, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector	2	\$ 33.63	\$ 67.26
				Group Total	\$ 2,708.01
LongLake Soccer Field					
*46	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*47	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*48	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23

Line #	Item Number	Item Description	Qty.	Price	Extended
*49	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
				Group Total	\$ 2,640.75
	Nature Center				
*50	EX4400-24MP-491	24x1/2.5/5/10G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module: 4x10G or 4x25G	1	\$ 4,332.18	\$ 4,332.18
*51	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*52	JPSU-1050-C-AC-AFO-491	1050W Compact AC AFO power supply for EX4400 switches	1	\$ 542.95	\$ 542.95
*53	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*54	S-EX-A-C2-P-AR2472	SW, EX, Advanced, Class 2 (24 ports), Perpetual	1	\$ 716.72	\$ 716.72
*55	SUB-EX24-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX24 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,167.94	\$ 1,167.94
*56	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*57	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
				Group Total	\$ 10,611.81
	Olde Town Transit Hub Comm Panels				
*58	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	4	\$ 1,386.86	\$ 5,547.44
*59	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*60	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	4	\$ 395.23	\$ 1,580.92
*61	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	4	\$ 813.56	\$ 3,254.24
*62	SFPP-10G-LR-C-491	SFP+, 10GBASE-LR, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector	8	\$ 33.63	\$ 269.04
				Group Total	\$ 10,696.74
	Olde Town Transit Hub Main Comm				
*63	EX4400-24X-491	24x10GbaseX switch with 2x100G uplink ports. MACsec AES256. Airflow out of PSU. Optional module-4x10G or 4x25G	1	\$ 6,812.80	\$ 6,812.80
*64	CBL-EX-PWR-C13-US-491	Power Cable, US	1	\$ 22.72	\$ 22.72
*65	JPSU-550-C-AC-AFO-491	550W compact AC AFO power supply for EX4400 switches	1	\$ 311.06	\$ 311.06
*66	S-EX-A-C2-P-AR2472	SW, EX, Advanced, Class 2 (24 ports), Perpetual	1	\$ 716.72	\$ 716.72
*67	SUB-EX24-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX24 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,167.94	\$ 1,167.94
*68	SFPP-10G-LR-C-491	SFP+, 10GBASE-LR, SMF 10 km, Extended Temperature (0 through 85 DEGREE C), Duplex LC connector	4	\$ 33.63	\$ 134.52
*69	20666	Juniper Networks EX-SFP-1GE-T Compatible 10/100/1000BASE-T SFP SGMII Copper 100m RJ-45 Transceiver Module	1	\$ 38.48	\$ 38.48
				Group Total	\$ 9,204.24
	Parks				
*70	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	3	\$ 4,693.39	\$ 14,080.17
*71	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	3	\$ 36.59	\$ 109.77
*72	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	3	\$ 697.85	\$ 2,093.55
*73	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	2	\$ 1,558.47	\$ 3,116.94
*74	EX4400-EM-1C	1x100G MACsec AES256 extension module for EX4400 switches	1	\$ 1,558.47	\$ 1,558.47
*75	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	3	\$ 1,075.68	\$ 3,227.04
*76	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	3	\$ 1,818.79	\$ 5,456.37
*77	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*78	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*79	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80

Line #	Item Number	Item Description	Qty.	Price	Extended
*80	AP64-US-491	High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US Only; Flush Mounting Bracket is included.	1	\$ 1,274.10	\$ 1,274.10
*81	ADV-XCH-US-491	Annual extended post-warranty hardware support for outdoor rated WiFi access points (e.g., AP61 or AP63) including advance replacement with next day shipment - US Only	1	\$ 122.50	\$ 122.50
*82	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	3	\$ 704.06	\$ 2,112.18
*83	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
				Group Total	\$ 36,773.34
Ralston WTP					
*84	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*85	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*86	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*87	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*88	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*89	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*90	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*91	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*92	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 2,729.79	\$ 5,459.58
*93	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	2	\$ 80.69	\$ 161.38
				Group Total	\$ 17,758.69
Senger Field					
*94	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*95	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*96	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*97	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
				Group Total	\$ 2,640.75
Streets					
*98	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*99	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*100	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*101	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*102	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*103	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*104	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*105	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	2	\$ 704.06	\$ 1,408.12
*106	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
				Group Total	\$ 14,717.45

Line #	Item Number	Item Description	Qty.	Price	Extended
Tower 55					
*107	EX4400-24MP-491	24x1/2.5/5/10G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module: 4x10G or 4x25G	1	\$ 4,332.18	\$ 4,332.18
*108	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*109	JPSU-1050-C-AC-AFO-491	1050W Compact AC AFO power supply for EX4400 switches	1	\$ 542.95	\$ 542.95
*110	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*111	S-EX-A-C2-P-AR2472	SW, EX, Advanced, Class 2 (24 ports), Perpetual	1	\$ 716.72	\$ 716.72
*112	SUB-EX24-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX24 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,167.94	\$ 1,167.94
*113	68002	Juniper Networks Compatible 25GBASE-SR SFP28 850nm 100m DOM Duplex LC/UPC MMF Optical Transceiver Module	2	\$ 53.38	\$ 106.76
Group Total					\$ 8,461.61
Tower 68					
*114	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*115	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*116	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*117	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*118	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*119	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*120	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*121	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*122	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	2	\$ 80.69	\$ 161.38
*123	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	2	\$ 2,729.79	\$ 5,459.58
Group Total					\$ 17,758.69
Tower 72					
*124	QFX5120-48Y-AFO2-491	QFX5120-48Y, airflow out, redundant AC PSUs and FANs Ships with base S/W features.	1	\$ 9,945.21	\$ 9,945.21
*125	S-QFX5K-C1-A1-P-491	perpetual Advanced1 license for Class 1 QFX5K products	1	\$ 5,788.37	\$ 5,788.37
*126	SVC-COR-QFX5K-C1A1-491	Juniper Care Core Support for S-QFX5K-C1-A1-P	1	\$ 738.92	\$ 738.92
*127	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*128	SVC-ND-QFX5-48YB-491	Juniper Care Next Day Support for QFX5120-48Y-D-AFO2,QFX5120-48Y-D-AFI2,QFX5120-48Y-AFO2 & QFX5120-48Y-AFI2	1	\$ 1,344.56	\$ 1,344.56
*129	EX4400-24MP-491	24x1/2.5/5/10G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module: 4x10G or 4x25G	1	\$ 4,332.18	\$ 4,332.18
*130	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*131	JPSU-1050-C-AC-AFO-491	1050W Compact AC AFO power supply for EX4400 switches	1	\$ 542.95	\$ 542.95
*132	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*133	S-EX-A-C2-P-AR2472	SW, EX, Advanced, Class 2 (24 ports), Perpetual	1	\$ 716.72	\$ 716.72
*134	SUB-EX24-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX24 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,167.94	\$ 1,167.94
*135	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*136	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*137	JNP-SFP-25G-DAC-5M-AR2472	SFP28, 25GE Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.5W, 26 AWG	2	\$ 63.74	\$ 127.48

Line #	Item Number	Item Description	Qty.	Price	Extended
*138	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	6	\$ 2,729.79	\$ 16,378.74
				Group Total	\$ 46,753.88
Waste Water					
*139	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*140	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	1	\$ 36.59	\$ 36.59
*141	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	1	\$ 697.85	\$ 697.85
*142	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*143	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	1	\$ 1,075.68	\$ 1,075.68
*144	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	1	\$ 1,818.79	\$ 1,818.79
*145	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	3	\$ 1,552.90	\$ 4,658.70
*146	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	3	\$ 704.06	\$ 2,112.18
*147	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
				Group Total	\$ 16,974.41
Westwoods Community Station					
*148	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	2	\$ 4,693.39	\$ 9,386.78
*149	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	2	\$ 36.59	\$ 73.18
*150	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	2	\$ 697.85	\$ 1,395.70
*151	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	2	\$ 1,558.47	\$ 3,116.94
*152	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 1,075.68	\$ 2,151.36
*153	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,818.79	\$ 3,637.58
*154	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*155	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*156	AP64-US-491	High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US Only; Flush Mounting Bracket is included.	1	\$ 1,274.10	\$ 1,274.10
*157	ADV-XCH-US-491	Annual extended post-warranty hardware support for outdoor rated WiFi access points (e.g., AP61 or AP63) including advance replacement with next day shipment - US Only	1	\$ 122.50	\$ 122.50
*158	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	3	\$ 704.06	\$ 2,112.18
*159	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
				Group Total	\$ 26,811.92
Westwood Golf Maintenance					
*160	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*161	EX-RMK-491	Rack Mount Kit for EX4400, EX4300, EX4100, EX3400, EX4100-F, and EX2300 Switches	1	\$ 45.10	\$ 45.10
*162	S-EX-A-C1-P-AR2472	SW, EX, Advanced, Class 1 (12 ports), Perpetual	1	\$ 395.23	\$ 395.23
*163	SUB-EX12-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX12 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F 12 port switches.	1	\$ 813.56	\$ 813.56
*164	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	1	\$ 1,552.90	\$ 1,552.90
*165	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
				Group Total	\$ 4,897.71

Line #	Item Number	Item Description	Qty.	Price	Extended
Westwood Golf MDF					
*166	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	3	\$ 4,693.39	\$ 14,080.17
*167	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	3	\$ 36.59	\$ 109.77
*168	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	3	\$ 697.85	\$ 2,093.55
*169	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	3	\$ 1,558.47	\$ 4,675.41
*170	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	3	\$ 1,075.68	\$ 3,227.04
*171	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	3	\$ 1,818.79	\$ 5,456.37
*172	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 56.52	\$ 113.04
*173	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*174	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	3	\$ 1,552.90	\$ 4,658.70
*175	AP64-US-491	High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US Only; Flush Mounting Bracket is included.	1	\$ 1,274.10	\$ 1,274.10
*176	ADV-XCH-US-491	Annual extended post-warranty hardware support for outdoor rated WiFi access points (e.g., AP61 or AP63) including advance replacement with next day shipment - US Only	1	\$ 122.50	\$ 122.50
*177	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	4	\$ 704.06	\$ 2,816.24
*178	84293	Juniper Networks JNP-SFP-25GLR Compatible 25GBASE-LR SFP28 1310nm 10km Duplex LC/UPC SMF DOM Optical Transceiver Module	4	\$ 80.69	\$ 322.76
Group Total					\$ 39,030.30
Whisper Creek Community Station					
*179	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	4	\$ 4,693.39	\$ 18,773.56
*180	CBL-PWR-C15M-HITEMP-US-491	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	4	\$ 36.59	\$ 146.36
*181	JPSU-1600-C-AC-AFO-491	1600W Compact AC AFO power supply for EX4400 switches	4	\$ 697.85	\$ 2,791.40
*182	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	2	\$ 1,558.47	\$ 3,116.94
*183	EX4400-EM-1C-491	1x100G MACsec AES256 extension module for EX4400 switches	2	\$ 1,558.47	\$ 3,116.94
*184	S-EX-A-C3-P-AR2472	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	4	\$ 1,075.68	\$ 4,302.72
*185	SUB-EX48-2S-5Y-N-491	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	4	\$ 1,818.79	\$ 7,275.16
*186	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	3	\$ 56.52	\$ 169.56
*187	JNP-100G-DAC-3M-AR2472	QSFP28, 100GE Direct Attach Copper Cable, 3 meters, Standard Temperature (0 through 70 DEGREE C), 0.015W, 26 AWG	1	\$ 80.65	\$ 80.65
*188	AP47-US-491	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	2	\$ 1,552.90	\$ 3,105.80
*189	AP64-US-491	High Performance Outdoor MultiGigabit WiFi 6E Access Point (6 Stream) with Bluetooth Low Energy, with built-in Internal Antenna - US Only; Flush Mounting Bracket is included.	1	\$ 1,274.10	\$ 1,274.10
*190	ADV-XCH-US-491	Annual extended post-warranty hardware support for outdoor rated WiFi access points (e.g., AP61 or AP63) including advance replacement with next day shipment - US Only	1	\$ 122.50	\$ 122.50
*191	SUB-2S-5Y-491	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	1	\$ 704.06	\$ 704.06
*192	69175	Juniper Networks QSFP-100GER4L Compatible 100GBASE-ER4L QSFP28 1310nm 40km DOM Duplex LC/UPC SMF Optical Transceiver Module	3	\$ 2,729.79	\$ 8,189.37
Group Total					\$ 53,169.12
All Access Bundle					
*193	EDU-JUN-ALL-491	All Access Bundle - provides access to OnDemand and Juniper facilitated OE courses 1 person, nondiscountable	4	\$ 0.00	\$ 0.00
Extra					
*194	EX4400-48MP-S	12x10G 36x2.5G Multigigabit POE switch spare. No fans/PSU	1	\$ 3,790.50	\$ 3,790.50
*195	SVC-CP-EX44-48MP-491	Juniper Care Core Plus Support for EX4400-48MP	1	\$ 620.34	\$ 620.34

Line #	Item Number	Item Description	Qty.	Price	Extended
*196	EX4100-F-12P-491	EX4100-F 12-Port Fanless 10/100/1000BaseT PoE+, 2x 1G/2.5G/10GBaseT Uplink ports, 4x 10G SFP+ Stacking/Uplink ports (optics sold separately) with Standard SW. PoE++ Powered.	1	\$ 1,386.86	\$ 1,386.86
*197	SVC-CP-EX41F-12P-491	Juniper Care Core Plus Support for EX4100-F-12P & EX4100-F-12P-TAA	1	\$ 195.02	\$ 195.02
*198	EX4400-48MP-491	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	1	\$ 4,693.39	\$ 4,693.39
*199	EX4400-EM-4Y-491	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	1	\$ 1,558.47	\$ 1,558.47
*200	QFX5120-48Y-AFI2-491	QFX5120-48Y, airflow in, redundant AC PSUs and FANs Ships with base S/W features.	1	\$ 9,945.21	\$ 9,945.21
*201	QSFP-100G-DAC-50CM-491	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	1	\$ 56.52	\$ 56.52
*202	QFX5110-FANAFI	Juniper QFX5110-FANAFI Fan Model, Back-to-front Airflow	5	\$ 582.21	\$ 2,911.05
*203	QFX5110-FANAFO	Juniper QFX5110-FANAFO Fan Model, Front-to-back Airflow	5	\$ 359.99	\$ 1,799.95
*204	PSU-650W-AC-AI	Juniper 650W Redundant Power Supply	2	\$ 954.43	\$ 1,908.86
*205	JPSU-650W-AC-AO	Juniper JPSU-650W-AC-AO Power Supply	2	\$ 881.10	\$ 1,762.20
*206	JNP-4PST-RMK-1U-E	Juniper Networks QFX 4 Post Rack Mount Kit	1	\$ 226.66	\$ 226.66
*207	QSFP-100G-ER4L-491	QSFP28, 100GBASE-ER4 Lite, SMF 40 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector	2	\$ 16,173.85	\$ 32,347.70
*208	SFP-1G-T-C-491	SFP, 1G, Copper 100m, Standard Temperature (0 through 70 DegC), RJ-45 connector	2	\$ 39.45	\$ 78.90
*209	JNP-SFP-25G-DAC-1M-AR2472	SFP28, 25GE Direct Attach Copper Cable, 1 meter, Standard Temperature (0 through 70 DEGREE C), 0.5W, 30 AWG	2	\$ 29.05	\$ 58.10
*210	SFP-25G-LR-C-491	SFP28, 25GBASE-LR, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector	2	\$ 245.64	\$ 491.28
*211	SFP-25G-SR-C-491	SFP28, 25GBASE-SR, MMF OM3 70 meters and OM4 100 meters, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector	2	\$ 85.05	\$ 170.10
*212	QSFP-100G-LR4-C-491	QSFP28, 100GBASE-LR4, SMF 10 km, Standard Temperature (0 through 70 DEGREE C), Duplex LC connector	2	\$ 454.99	\$ 909.98
*213	SFP-10G-LRM-C-491	SFP+, 10G, MMF 220m and SMF 300m, Standard Temperature (-5 through 85 Deg C), Duplex LC connector	2	\$ 142.98	\$ 285.96
*214	SFPP-10G-ER-C	Juniper SFPP-10G-ER-C SFP+ Module	2	\$ 1,724.43	\$ 3,448.86
*215	SFP-1G-LX-C	Juniper Networks SFP 1Gig LX Transceiver	2	\$ 77.77	\$ 155.54
*216	JNP-SFP-25G-DAC-5M-AR2472	SFP28, 25GE Direct Attach Copper Cable, 5 meters, Standard Temperature (0 through 70 DEGREE C), 0.5W, 26 AWG	2	\$ 63.74	\$ 127.48
				Group Total	\$ 68,928.93
216 item(s)			Sub-Total		\$ 495,927.26
			Tax @ 7.96%		\$ 0.00
			Freight		as applicable
			Total		\$ 495,927.26
(*) Tax exempted Part(s)					

Quote Valid Until: 05/28/2025

If applicable, all sales are subject to taxes and shipping charges. A 3.5% processing fee applies to orders paid by credit card.

All orders are subject to the manufacturer warranty and Terms & Conditions.

One Technology makes every attempt to honor pricing for the validity period of the quote but reserves the right to adjust pricing accordingly for any changes incurred as a result of trade tariffs.

Service Hours are good for up to one year from date of purchase.

Taxes and shipping/freight will be added the order as applicable.

TERMS AND CONDITIONS

NASPO Master Contract Number: AR2472
 Contract Term: 03/17/20 - 09/15/26

PAYMENT DETAILS

Pay by: Company PO

SHIPPING AND DELIVERY DETAILS

Shipping via: FEDEX Ground

Customer, by its signature below, places its order to OTC for the products and services in this Quote.

AUTHORIZED SIGNATURE_____

PRINTED NAME_____

TITLE_____

DATE_____

Exhibit H

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00



one technology

2000 S Colorado Blvd, Bldg 1-2000
Denver CO 80222

**IT INFRASTRUCTURE
CLOUD ENABLEMENT
DEVOPS
SECURITY
PRO SERVICES**

City of Arvada - Ralston House
Quote Contact: **Erin Green**
Quote Number: **OTC-31720382**

Prepared By: **Dean Jansen**
djansen@one-technology.com
Phone: 866-ONE-TEC1





Prepared by: Dean Jansen // djansen@one-technology.com

ACCOUNT EXECUTIVE

DATE: 04/01/2025

NUMBER: OTC-31720382

Name: Dean Jansen

Phone Number: 866-ONE-TEC1

Email: djansen@one-technology.com

PREPARED FOR:

Erin Green

City of Arvada

8101 Ralston Road

Arvada, CO 80002

Phone: (720)898-7872

Email: egreen@arvada.org

SHIP TO:

Erin Green

City of Arvada

8101 Ralston Road

Arvada, CO 80002

Line #	Item Number	Item Description	Qty.	Price	Extended
*1	AP47-US-2	Premium Performance MultiGigabit Wi-Fi 7 Access Point (4x4:4) with vBLE Array for Advanced Location based services, with built in Internal Antenna - US only; Universal Mounting Bracket is included	5	\$ 1,407.31	\$ 7,036.55
*2	SUB-2S-5Y-2	Subscriptions for 2 services (specify from SUB-MAN, SUB-ENG, SUB-AST, SUB-VNA, SUB-PMA) for one access point for 5 years: includesupgrades, cloud function subscriptions and limited lifetime warranty benefits on indoor access points	5	\$ 638.01	\$ 3,190.05
*3	S-ME-S-5-2	SW, Mist Edge Assurance (SUB-ME) for Mist Edge (ME-X1,ME-X1-M,ME-X5,ME-X10,ME-VM), Standard, includes upgrades,cloud function subscriptions and limited lifetime warranty benefits on indoor access points, with SVC Customer Support, 5 Year	5	\$ 127.61	\$ 638.05
*4	EX4400-48MP-2	12x1/2.5/5/10G, 36x1/2.5G Multigigabit switch with 2x100G uplink/stacking ports. 90W POE. MACsec AES256. Optional extension module:4x10G or 4x25G	2	\$ 4,253.40	\$ 8,506.80
*5	CBL-PWR-C15M-HITEMP-US-2	Power Cord, AC, US/Canada, C15M, 13A/125V, 2.5m, Straight Nema N5-15 to straight high temp C15M	2	\$ 33.16	\$ 66.32
*6	JPSU-1600-C-AC-AFO-2	1600W Compact AC AFO power supply for EX4400 switches	2	\$ 632.42	\$ 1,264.84
*7	EX4400-EM-4Y-2	4x25G SFP28 extension module for EX4400 series of switches. MACsec AES256	2	\$ 1,412.36	\$ 2,824.72
*8	SUB-EX48-2S-5Y-N-2	5 Year Wired Assurance and Virtual Network Assistant (VNA) Subscription for EX48 port switches; Includes Juniper Care Next Day Support for EX2300, EX4100-F, EX3400, EX4100, EX4300, EX4400 24 ports switches.	2	\$ 1,648.21	\$ 3,296.42
*9	QSFP-100G-DAC-50CM-2	QSFP28, 100GE Direct Attach Copper Cable, 50 cm, Standard Temperature (0 through 70 deg C)	2	\$ 51.22	\$ 102.44
*10	S-EX-A-C3-P-2	SW, EX, Advanced, Class 3 (32 or 48 ports), Perpetual	2	\$ 974.79	\$ 1,949.58
10 item(s)			Sub-Total		\$ 28,875.77
			Tax @ 0%		\$ 0.00
			Freight		as applicable
			Total		\$ 28,875.77
(*) Tax exempted Part(s)					

Quote Valid Until: 05/01/2025

If applicable, all sales are subject to taxes and shipping charges. A 3.5% processing fee applies to orders paid by credit card.

All orders are subject to the manufacturer warranty and Terms & Conditions.

One Technology makes every attempt to honor pricing for the validity period of the quote but reserves the right to adjust pricing accordingly for any changes incurred as a result of trade tariffs.

Service Hours are good for up to one year from date of purchase.

Taxes and shipping/freight will be added the order as applicable.

TERMS AND CONDITIONS

PAYMENT DETAILS

Credit Card [# Expires On:]
Payment Term: Due upon Receipt

SHIPPING AND DELIVERY DETAILS

Shipping via: FEDEX Ground

Customer, by its signature below, places its order to OTC for the products and services in this Quote.

AUTHORIZED SIGNATURE _____

PRINTED NAME _____

TITLE _____

DATE _____

Exhibit I

AN AGREEMENT BETWEEN THE CITY OF
ARVADA AND ONE TECHNOLOGY
CORPORATION FOR GOODS AND
SERVICES RELATING TO UPGRADING
AND SUPPORTING ARVADA'S
NETWORKS AN AMOUNT NOT TO
EXCEED \$1,400,000.00



one technology

2000 S Colorado Blvd, Bldg 1-2000
Denver CO 80222

**IT INFRASTRUCTURE
CLOUD ENABLEMENT
DEVOPS
SECURITY
PRO SERVICES**

City of Arvada - Juniper - NAC -1 Year
Quote Contact: **Erin Green**
Quote Number: **OTC-31720494-2**

Prepared By: **Dean Jansen**
djansen@one-technology.com
Phone: 866-ONE-TEC1





Prepared by: Dean Jansen // djansen@one-technology.com

ACCOUNT EXECUTIVE

Name: Dean Jansen
Phone Number: 866-ONE-TEC1
Email: djansen@one-technology.com

DATE: 04/29/2025

NUMBER: OTC-31720494-2

PREPARED FOR:

Erin Green
City of Arvada
8101 Ralston Road
Arvada, CO 80002
Phone: (720)898-7872
Email: egreen@arvada.org

SHIP TO:

Erin Green
City of Arvada
8101 Ralston Road
Arvada, CO 80002

Line #	Item Number	Item Description	Qty.	Price	Extended
*1	S-CLIENT-SS-M	Advanced Access & IOT assurance subscription Site Survivability Term: 12 months	2000	\$ 2.39	\$ 4,780.00
*2	S-CLIENT-A-1-2	Advanced Access & IOT assurance subscription for 1 active client for 1 year Term: 12 months	2000	\$ 3.83	\$ 7,660.00
*3	JUNIPER-PRO-SVC	Juniper Pro Services	1	\$ 23,711.34	\$ 23,711.34
3 item(s)			Sub-Total		\$ 36,151.34
			Tax @ 7.96%		\$ 0.00
			Freight		as applicable
			Total		\$ 36,151.34
(*) Tax exempted Part(s)					

Quote Valid Until: 05/29/2025

If applicable, all sales are subject to taxes and shipping charges. A 3.5% processing fee applies to orders paid by credit card.

All orders are subject to the manufacturer warranty and Terms & Conditions.

One Technology makes every attempt to honor pricing for the validity period of the quote but reserves the right to adjust pricing accordingly for any changes incurred as a result of trade tariffs.

Service Hours are good for up to one year from date of purchase.

Taxes and shipping/freight will be added the order as applicable.

TERMS AND CONDITIONS

PAYMENT DETAILS

Credit Card [# Expires On:]
Payment Term: Due upon Receipt

SHIPPING AND DELIVERY DETAILS

Shipping via: FEDEX Ground

Customer, by its signature below, places its order to OTC for the products and services in this Quote.

AUTHORIZED SIGNATURE

PRINTED NAME _____

TITLE _____

DATE _____



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
8.B.1.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: R25-055, A Resolution Authorizing an Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program (Presenter:Padraic Emerine, Sr. Asst. City Attorney)

Report in Brief

PRESENTER: Padraic Emerine.

This Intergovernmental Agreement ("IGA") allows for the continued establishment of a school resource officer ("SRO") program in which sworn officers will be assigned to schools that are within the City of Arvada and part of the Jefferson County R-1 school district. The goal of this program is: to reduce criminal activity on District property and events; enhance the safety of the learning environment; foster educational programs and activities between students and law enforcement; and many other goals. By virtue of this IGA, Jefferson County R-1 School District will pay the City of Arvada a "service fee" that will account for 50% of each SRO's salary including overtime.

The Arvada team recommends that the City Council approve R25-055, A Resolution Authorizing an Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program.

Financial Impact

This IGA will have a positive fiscal impact for the City of Arvada. Pursuant to this agreement Jefferson County R-1 School District will reimburse the City of Arvada for 50% of the cost of each SRO's annual salary, including overtime. This impacts the salary of up to 9 full time police officers and one police sargent. By entering this agreement, the City of Arvada will incur salary savings for several full time employees.

Background

Jefferson County R-1 School District includes a number of educational facilities that are located within the City of Arvada. The City of Arvada has a long history of providing sworn officers from its police department to serve as school resource officers ("SROs") for schools located within the City of Arvada. APD has a specific unit of sworn officers that make up the SRO team and are assigned to specific schools so that they can better foster relationships with youth, utilize creative enforcement options for juvenile offenders, and provide safety and security to the school system within the City of Arvada.

Discussion

This IGA provides a positive fiscal benefit to the COA because Jefferson County will pay for 50% of the salary of the sworn officers and supervisor assigned to the SRO Unit. This IGA is a continuation of a valuable use of police resources assigned to create a safe learning environment for youth enrolled in our schools.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

SUBJECT: R25-055, A Resolution Authorizing an Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program (Presenter:Padraic Emerine, Sr. Asst. City Attorney)

PAGE: 2
ITEM: 8.B.1.

N/A

Strategic Alignment

This IGA will support the City of Arvada's safe communities strategic plan by providing police officers to our community's school system for their safety and security, and the safety and security of the children of our community.

Alternative Courses of Action

N/A

Recommendation for Action

Staff recommends that City Council approve R25-055, A Resolution Authorizing an Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program.

Suggested Motion:

I move that R25-055, A Resolution A Resolution Authorizing an Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program, be (approved) (rejected).

Prepared by:
Padraic Emerine, Assistant City Attorney I

Reviewed by:

Approved by:

Rachel Morris, City Attorney	5/21/2025
Edward Brady, Police Chief	5/21/2025
Linda Haley, Deputy City Manager	5/22/2025
Don Wick, City Manager	5/22/2025

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R25-055

A RESOLUTION AUTHORIZING AN INTERGOVERNMENTAL AGREEMENT
BETWEEN JEFFERSON COUNTY R-1 SCHOOL DISTRICT AND THE
CITY OF ARVADA ON BEHALF OF THE ARVADA POLICE DEPARTMENT
FOR THE SCHOOL RESOURCE OFFICER PROGRAM

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, an Intergovernmental Agreement Between Jefferson County R-1 School District and the City Of Arvada on behalf of the Arvada Police Department for the School Resource Officer Program, which is in substantially the same form as that attached hereto.

Section 2. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 17th day of June, 2025.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

Rachel Morris, City Attorney

By: _____

**INTERGOVERNMENTAL AGREEMENT
BETWEEN JEFFERSON COUNTY R-1 SCHOOL DISTRICT AND
THE CITY OF ARVADA ON BEHALF OF THE ARVADA POLICE DEPARTMENT
FOR THE SCHOOL RESOURCE OFFICER PROGRAM**

This Intergovernmental Agreement for School Resource Officer Program (“Agreement”) is made this ____ day of _____, 2025, between the City of Arvada on behalf of the Arvada Police Department (“Arvada”) and the Jefferson County R-1 School District (“District”) (hereinafter Arvada and District are referred to as “Party” in the singular and “Parties” in the plural).

RECITALS

WHEREAS, pursuant to C.R.S. §§ 29-1-203 and 22-32-122, the District and Arvada have cooperated to establish and develop a School Resource Officer Program (“SRO Program”), wherein Arvada assigns one or more police officers to function as school resource officers (each an “SRO” or “SROs” in the plural) at certain District schools for a service fee as defined herein; and

WHEREAS, the joint goals of the SRO Program are to:

1. Reduce criminal activity on District property and at District-sponsored events;
2. Foster educational programs and activities that will increase students’ knowledge of and respect for the law and the function of law enforcement agencies;
3. Improve communications between police officers and the school community;
4. Enhance the safety of the learning environment; and
5. Reduce and prevent delinquency, alcohol and substance abuse, gang involvement, possession and use of dangerous weapons, and other unlawful or disorderly activities among District students; and

WHEREAS, the SROs serve as positive role models for District students, work in a cooperative, proactive, and problem-solving partnership with District students, staff, and parents to enhance the quality of life in the school community, and enforce the laws of the State of Colorado; and

WHEREAS, the District and Arvada wish to continue the SRO Program subject to the terms and conditions of this Agreement, which replaces and supersedes in all respects all prior agreements between the Parties as it relates to the agreements contained herein between the District and Arvada.

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals incorporated by reference herein, by the mutual promises and covenants herein contained, and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the Parties hereby agree as follows:

ARTICLE I

Term

This Agreement, and performance of the duties called for herein by the SROs, shall begin on July 1, 2025, (the “Effective Date”), and shall continue in effect through and including June 30, 2026, unless earlier terminated as provided in Article VIII of this Agreement. Thereafter, this Agreement shall automatically renew for successive one-year terms unless either Party provides written notice of termination to the other Party on or before May 1 of the then-current year.

ARTICLE II

SRO Program

A. Assignment of School Resource Officers

1. Arvada shall initially assign SROs to service the following schools:

- Arvada High School
- Pomona High School
- Ralston Valley High School
- Three Creeks K-8 School
- Arvada West High School
- Oberon Middle School
- North Arvada Middle School

The school assignment will be set by mutual agreement of Arvada and the District, assuring to the extent reasonably possible the presence of an SRO between each of the schools. SROs shall be assigned to work with the administration, faculty, and students at the SRO’s assigned school or schools on the schedule as provided for in this Agreement. The Parties may agree to assign an existing SRO to one or more District elementary schools located within the City of Arvada on a temporary or “as needed” basis.

2. Arvada shall assign the duties of supervision of the SROs to one or more SRO Supervisor(s), who shall oversee the SROs and may perform scheduled and/or non-scheduled visits to the schools. The SRO Supervisor(s) may include one or more Arvada sergeants, lieutenants, or commanders, as determined at the sole discretion of Arvada. The SROs assigned pursuant to this Agreement will report to an SRO Supervisor. When practicable, during scheduled visits, the SRO Supervisor will meet with the assigned SRO and may meet with school administrators and any staff designated by the principal.

3. Arvada may, from time to time, and at its sole discretion, reassign its employees and designate one or more replacement SROs or SRO Supervisors at any time. The District reserves the right to request the removal or reassignment of any SRO for any reasonable cause and upon written notice to Arvada as specified in Article VI.

4. SROs may at any time be reassigned, and/or a new SRO may be appointed and assigned as determined by the SRO Supervisor and Arvada.

5. SROs will not be assigned to Charter Schools in the District under the terms of this Agreement. Nothing herein will be construed to preclude Arvada from otherwise agreeing to provide SROs to Charter Schools or other schools located in the City of Arvada as determined by Arvada.

6. The SROs may also respond to and handle non-emergency calls at other schools of the District where there is not an assigned SRO. Nothing in this Agreement shall be construed to limit or otherwise preclude a non-SRO Arvada officer to be assigned to respond to any call for service at any District school, regardless of whether an SRO is assigned to such school.

B. Service Fee

1. Each SRO shall receive salary and employee benefits and normally issued equipment and supplies from Arvada. The District shall pay a service fee equal to fifty percent (50%) of the cost of each SRO's annual salary, including any overtime, for SRO services provided under this Agreement ("Service Fee") as of the Effective Date. On or before December 1, 2026, and each December 1 thereafter, Arvada shall provide written notice to the District of the Service Fee then in effect. The District shall pay the Service Fee to Arvada in four (4) quarterly payments, payable within thirty (30) days of receipt of a statement from Arvada during the term of this Agreement. The Parties acknowledge and agree that the Service Fee may be subject to change, that the written notice of the Service Fee provided by Arvada represents a good faith estimate, and that the final amount may be up to ten percent (10%) more once adjusted based on actual costs. The Parties agree to be bound by a final amount up to ten percent (10%) more than the estimate provided on or before December 1 of the then-current term. The Parties agree that overtime, if any, shall be paid at Arvada's standard overtime rate for the SRO accruing such hours, which shall be included in an invoice submitted by Arvada to the District detailing the number of overtime hours and setting forth the total amount owed by the District.

2. As of the Effective Date, the Arvada SRO Unit is staffed by eight (8) police officers and one (1) police sergeant. There is one (1) vacant Arvada SRO police officer position as of the Effective Date. In the event the Arvada SRO Unit becomes fully staffed or the number of personnel assigned to the Arvada SRO Unit is otherwise increased or reduced in the future, Arvada will notify the District, and the Parties will cooperate to recalculate the Service Fee accordingly.

3. If the District must use remote learning or another model that does not involve in-person instruction or other in-person student services at a school or schools that results in a total in-person school closure for ten (10) school days or more ("Extended School Closure") and the District determines, in its sole discretion, that the presence of SROs at a school or schools is no longer needed based on the Extended School Closure, subsequent quarterly payment(s) will be prorated, for the period of the Extended School closure. The prorated amount will be determined based upon a daily rate of \$274.33, multiplied by the total number of school days that the SROs worked at a school or schools in the prior quarter, before or after the Extended School Closure. The District shall notify Arvada as soon as reasonably possible once it determines that the presence of SROs is no longer needed based on the Extended School Closure. If the Extended School Closure exceeds more than nine (9) weeks of scheduled school days, the Parties agree to meet and review this Agreement to discuss revisions, if any, that may be necessary.

C. Regular Duty Hours of the SROs

1. The SROs shall be assigned to their primary school(s) on a full-time basis on those days and during those hours that the schools are in regular session in accordance with the calendar established by the Board of Education of the District, as amended from time to time. The District acknowledges and agrees that Arvada SROs work a 9-hour per day “flex” schedule. Each Arvada SRO works one five-day week and one four-day week during each City of Arvada pay period. Each Arvada SRO is off duty on alternating Fridays. Another SRO or Arvada patrol officer may be assigned to assist at a school on an SRO’s regularly scheduled day off. The primary purpose of the SRO Program is to provide services during normal school hours. However, the District may request that the SRO be assigned additional hours and/or days beyond the normal working hours. The principal(s) of the assigned school(s) and the SRO Supervisor may agree to adjust the working hours of the SRO; provided, however, that overtime hours are not worked. The Superintendent or their designee, in cooperation with the SRO Supervisor, may request assignments of SROs beyond the assigned contracted hours.

a. The SRO may be temporarily assigned other duties by Arvada during school holidays and vacations or as otherwise determined by Arvada at its discretion. The SRO will make good faith efforts to attend school or District in-service training that applies to SRO duties and responsibilities as may be requested by school or central administrators. SROs will promptly notify the SRO Supervisor in the event the SRO is unable to attend a school or District in-service training as requested. The SRO Supervisor will then determine if another SRO may be designated to attend the requested training. The SRO may also attend non-required District training where appropriate.

b. It is understood and agreed that time spent by the SRO attending juvenile court and/or criminal cases arising from and/or out of their employment as an Arvada police officer shall be considered as hours worked under this Agreement.

c. The SRO will generally attempt to schedule vacations and floating holidays during periods when school is not in session. Any exception may be granted if approved by the SRO Supervisor. The SRO Supervisor may rotate or temporarily reassign an existing remaining SRO associated with the SRO Program or provide a substitute SRO to cover the shortage at any assigned school(s) affected by the SRO’s absence so that the assigned school(s) are not completely left without coverage. When a substitute SRO is required, Arvada will, if feasible as determined by Arvada, assign an SRO who has previous experience as an SRO to the extent possible or an officer who is otherwise compatible with school environments. Whenever possible, Arvada will utilize the same officers for substitute/replacement purposes so that there are not different officers every day.

2. Subject to Article II.C.1, the SRO will generally work during the hours school is in session and coordinate their schedule with the school principal or their designee of the SRO’s assigned school. When schools are closed due to in-service training, the SRO, if invited by the school administrators, will make reasonable efforts to attend District in-service training. The SRO may attend the training or use those hours for other Arvada or SRO administrative duties.

3. Notwithstanding any provisions of this Agreement to the contrary, nothing herein shall preclude, limit, or impair, as determined by Arvada in its sole discretion, Arvada's duty to provide an adequate level of service and protection within its own jurisdiction, or any other existing aid agreements Arvada may have with any other party or entities as of the date of this Agreement. Arvada reserves all rights to recall SROs from their assignments at District schools at any time to respond to any incident or request for police services whatsoever. In such case, the SRO or Arvada shall make good faith efforts to notify the building administrator as soon as practicable that the SRO was required to leave his or her assigned school.

4. Other than Arvada's obligation to consider a request from the District to remove or reassign an SRO pursuant to Article II.A.3, Arvada shall have exclusive authority to assign, remove, re-assign, or take any other personnel action whatsoever with respect to any SRO or SRO Supervisor.

D. Summer Duty of the SROs

The Parties shall meet during the term of this Agreement to determine the number of SROs. if any, that may be assigned to provide services in accordance with this Agreement during the summer school period.

E. Duties of the SROs

SROs will provide focused law enforcement services to students, staff, and the surrounding community to include routine patrol, traffic enforcement, preliminary crime investigation, and responding to calls for service, including but not limited to the following:

1. The SRO shall wear Arvada-approved uniforms and drive a marked patrol unit in performance of the duties required by this Agreement. In the event the SRO is authorized to wear civilian clothes for a specific event, the SRO shall comply with the Arvada dress code.

2. Subject to the SRO's discretion and law enforcement authority, the SRO shall take appropriate law enforcement action or as required by law or Arvada policy. The SRO must notify the school administrator as soon as practicable of any violations or actions that could reasonably be expected to impact school discipline, order or safety, or such other violations and actions as the District reasonably requests be reported.

a. This may include interviewing suspects and victims of criminal violations, issuing summonses, and addressing traffic concerns. Should it become necessary to conduct formal law enforcement interviews with students, the SRO shall adhere to District policy, regulations, and guidelines, Arvada policy, and applicable law.

b. The SRO shall handcuff a student only in accordance with applicable law. C.R.S. § 26-20-111 (b) ("A school resource officer or a law enforcement officer acting in the officer's official capacity on school grounds, in a school vehicle, or at a school activity or sanctioned event shall not use handcuffs on any student, unless there is a danger to themselves or others or handcuffs are used during a custodial arrest that requires transport.").

3. The SRO shall assist other SROs, if applicable, or law enforcement agencies in conducting investigations when requested or required.

4. The SRO may, to the extent practicable, develop teaching expertise and assist faculty in conducting specialized classes on such topics as the role of policing in the community, search and seizure, traffic laws, crime prevention, victims' rights, community involvement, and youth programs. In addition, the SRO will encourage and participate in discussion during classes to establish rapport with students. Any additional areas of instruction or SRO participation in school activities must be mutually agreed upon by Arvada, the SRO Supervisor, and the principal or their designee of the affected school.

5. The SRO shall seek permission, advice, and guidance from school administrators prior to implementing any program within the SRO's assigned school.

6. The SRO shall assist school administrators, staff, and faculty in developing emergency procedures and emergency management plans to include prevention and/or minimization of dangerous situations which may result from student unrest.

7. The SRO shall be familiar with and abide by all relevant District policies, regulations and guidelines related to safety, student conduct and discipline, including the District's Code of Conduct except to the extent such policies, regulations, code and guidelines conflict with their responsibilities as a law enforcement officer. The District shall provide Arvada and each SRO with copies of all such District policies prior to each school year.

8. The SRO shall assist administrators, faculty and staff with the investigation of any suspected violations of law occurring on District premises. SROs will conduct their duties in accordance with applicable law. The SRO shall not be assigned to lunchroom duties, hall monitoring, or other campus monitoring duties, unless there is a specific problem, in which case, the SRO may assist the school with those duties until the problem is remedied. SROs shall not be responsible to enforce any District policies.

9. The SRO will, to the extent practicable, seek to establish working relationships with student organizations, faculty, staff members, District administrators and community members. In addition, the SRO may attend parent, faculty, student, administration or other meetings to provide information regarding the SRO Program and provide opportunities for involvement and support.

10. The SRO will generally coordinate enforcement efforts with campus supervisory personnel, including but not limited to campus supervisors, campus security officers, hall monitors, parking attendants, and private security firm personnel.

11. The SRO shall maintain detailed, accurate, and up to date records as required by Arvada, and submit reports as requested.

12. The SRO shall work proactively with all law enforcement agencies that serve the District's community.

13. The SRO, principal of each school, and necessary school staff will, to the extent practicable, work proactively with students, parents, and faculty regarding public safety and use problem solving teams and programs to address outstanding problems.

14. The SRO will, to the extent practicable, provide information and referrals regarding community programs to school administrators, staff, students, and parents so that appropriate assistance can be assessed. These programs may include but are not limited to mental health clinics, peer support, and drug treatment centers. The SRO may make referrals to community agencies and programs when necessary. The SRO shall refer students to the school or District counselor as needed. Referral guidelines shall be determined by the school administrator.

15. The SRO may attend, whenever practicable, selected school functions as recommended by school administrators.

16. The SRO shall maintain the confidentiality of any information obtained pursuant to Title 19 of the Colorado Children's Code and shall not disclose the information except as provided by law or court order.

17. The SRO shall maintain the confidentiality of District records and personally identifiable information (PII) in accordance with Parts 2 and 3, Article 72 of Title 24, Colorado Revised Statutes, and the Family Educational Rights and Privacy Act of 1974 (FERPA) and its regulations, and District policies and shall not access such records and information unless the SRO has a legitimate educational interest in the records and that access is necessary to perform the SRO's duties under this Agreement.

18. Unless otherwise directed by an Arvada supervisor or to avoid compromising an ongoing investigation, the SRO shall coordinate with the SRO Supervisor and inform the school principal or their designee of investigations and cases which have a significant impact on a school or the District, or other such matters as are designated by them or as required by law.

19. The SRO may perform other duties which will promote the goals of the SRO Program and which are mutually agreed upon by the District and Arvada.

F. Training

Arvada shall provide at least basic SRO training to all new SROs prior to their beginning assignment as the SRO, or as soon as reasonably possible. Basic SRO training may be obtained through the Colorado Association of School Resource Officers (CASRO), the National Association of School Resource Officers (NASRO), or any other organization which provides similar training.

G. Records; Information-Sharing; Confidentiality

1. For purposes of this Agreement, the SRO is deemed a "school official" as provided in the Family Educational Rights and Privacy Act (FERPA), 20 U.S.C. 1232g with whom the District may share any records that are deemed necessary by the District for use by the SRO in connection with the SRO Program. To demonstrate compliance with FERPA and its regulations, including but not limited to 34 C.F.R. § 99.31(a)(1)(i)(B), the Parties affirm and agree to the following:

a. School safety is an institutional service for which the District would otherwise use its employees.

b. The District will only disclose personally identifying information (PII) in education records when the SRO has a legitimate educational interest in such information and access is necessary to perform the SRO's duties under this Agreement.

c. The SRO is subject to the use and re-disclosure requirements in FERPA and District policy. The SRO shall use PII contained in education records only in the performance of the SRO's duties under such program as described above in Article II, Section D and shall not re-disclose PII contained in education records to outside parties, who are not "school officials," without consent or unless the disclosure satisfies an exception to FERPA.

d. The SRO shall not access the District's Student Information System (Infinite Campus or IC) unless the SRO has a legitimate educational interest in such records or the disclosure satisfies an exception to FERPA.

e. The Terms in this Section G(1) shall survive termination of this Agreement.

2. The Parties acknowledge the responsibilities each party has under the Colorado Revised Statutes as well as the District's responsibilities under Title IX of the Education Amendments of 1972.

a. The District Title IX Coordinator or assigned designee will be the District's central point of contact for Arvada to contact and facilitate response to reported incidents of sexual abuse and/or assault and to act as a liaison for information. Arvada agrees to identify a central point of contact within their agency for the District Title IX Coordinator to communicate with and facilitate response to reported incidents.

b. The Parties recognize the paramount importance of coordinating both administrative and criminal investigative efforts so as not to compromise either's objectives. There is an independent responsibility under Title IX for the District to conduct an investigation (apart from any separate criminal investigation) and to address sexual abuse and/or assault. The District may delay their administrative investigation at the request of Arvada for a reasonable period of time but no longer than thirty (30) days. Arvada's designated point of contact shall communicate status of the investigation to the Title IX Coordinator, unless such communication may compromise an ongoing criminal investigation. The District's Title IX Coordinator shall notify Arvada if the District must begin to conduct their administrative investigation.

c. The District will participate in the exchange of information with Arvada regarding incidents of sexual assault to the extent permitted by FERPA. Arvada agrees to promptly share relevant documentation and other information created, including but not limited to interview transcriptions, reports, and interview recordings, with the District as a fellow criminal justice agency as defined at C.R.S. § 24-72-302(3) with an independent responsibility under Title IX to conduct its own administrative investigation, and with the purpose to minimize duplicative interviews.

3. All records of police reports and citations associated with the SRO's duties will be maintained by Arvada and will comply with the school reporting requirements set forth in C.R.S. § 22-32-146.

ARTICLE III

Facilities and Equipment; District Responsibilities

A. Facilities and Equipment

The District shall provide to each full-time SRO the following facilities and equipment, which are deemed necessary to the performance of the SRO's duties under this Agreement.

1. The District's Superintendent or their designee, in consultation with the principal at each assigned school, shall designate an office space at each assigned school for the exclusive use by the SRO. The designated office space shall be available to the assigned SROs at all times when the school is open for educational or extracurricular activities. In addition, the District shall make reasonable effort to accommodate the SRO's needs to use such designated space at other hours when the school building may not otherwise be open in furtherance of the duties required of the SRO under this Agreement. Except in emergency circumstances, the District shall provide the SRO at least seventy-two (72) hour notification if the portion of the building allocated herein to the SRO becomes temporarily unavailable.

2. The District shall provide for the use of each SRO a desk and any necessary office furniture, a computer, a school radio, and access to a printer. If requested, the District shall purchase and install lockers. Arvada shall be responsible for keeping any lockers secured and shall remove weapons if there is not a full-time SRO assigned at the school and during summer months.

B. Maintenance of Facilities and Equipment

All Arvada or District facilities and equipment, including vehicles, utilized by the SROs or SRO Supervisor in connection with the SRO Program shall be maintained by and at the expense of the respective owners of such facilities and equipment.

C. Effect of Termination

In the event this Agreement is terminated, any Arvada or District facilities or equipment utilized in connection with the SRO Program shall be returned to or retained by the respective owners.

D. Other District Responsibilities

Principals and administrators at schools where an SRO is assigned will cooperate with the SRO and facilitate a positive working relationship between the SRO, the principal, and school staff.

District staff and SROs shall comply with mandatory reporter provisions applicable to school personnel pursuant to C.R.S. § 19-3-304.

ARTICLE IV
Employment Status of SRO

A. SRO Employment Status

It is expressly understood that, at all times during the term of this Agreement, the SROs and SRO Supervisor are employees only of Arvada. The District and Arvada acknowledge that the SRO is a law enforcement officer under the direct and exclusive supervision of Arvada. The SRO shall remain responsive to the chain of command of Arvada. No District employee shall have the authority to supervise, direct, or otherwise dictate the actions of any SRO acting in their official capacity. SROs shall not represent that they are employees or agents of the District in any capacity.

B. Compliance with Employment Laws

Arvada will be responsible for providing SROs with payment of wages, health care benefits, and workers' compensation insurance (including occupational disease). Arvada will comply with all withholding taxes, social security, unemployment, workers' compensation, and/or other federal, state, and local employment taxes and other requirements of federal, state, or local laws, regulations, rules, and ordinances.

C. Supplies and Equipment Provided by Arvada

Arvada shall provide the SROs with all supplies and equipment as are normally issued by Arvada to law enforcement officers to be used by the SROs in performance of the duties required under this Agreement.

D. Disciplinary Action

Arvada, at its sole discretion, shall be responsible for taking any necessary or appropriate disciplinary action against any SRO or SRO Supervisor. In exercising these responsibilities, Arvada may consult with the District at Arvada's discretion. The District will provide input and feedback to the SRO and the SRO's Supervisor and may, as determined by Arvada, participate in reviews, evaluations, and planning for particular SRO positions. The District shall regularly advise Arvada of the SRO's work performance and shall immediately report to Arvada any instances of alleged misconduct or discrimination. The District shall make its employees available as witnesses in any Arvada-conducted disciplinary or termination proceeding or workplace investigation.

ARTICLE V
Appointment of the SROs

A. SRO Selection

Arvada shall recruit, interview, and evaluate SRO applicants in accordance with Arvada policies and procedures applicable to special assignments.

B. Applicant Requirements

SRO applicants must satisfy all of the following requirements:

1. The applicant must voluntarily seek the SRO position and must indicate a willingness to hold the position for four (4) years.
2. The applicant must be a full-time peace officer, as defined by C.R.S. § 16-2.5-10. Arvada SRO applicants will generally be required to have a minimum of three (3) years of law enforcement experience unless reasonably determined otherwise by Arvada. Arvada will confer with District if such occasion should arise. In no event shall an Arvada SRO applicant have less than two (2) years of law enforcement experience.
3. The applicant must be employed as a police officer with Arvada.
4. The applicant must indicate a willingness that, if appointed to the SRO position, they will not schedule time off for vacations and floating holidays during periods when school is in session except as provided for in Article II.C.1.(c).

C. Other Considerations

Arvada may consider, among other criteria as determined by Arvada, job knowledge, experience, training, education, attitude, communication skills, prior service as an SRO, prior training, education, or experience with youth as part of its SRO selection process.

D. Application Review

The SRO Supervisor shall appoint officers as SROs at their sole discretion from the recommended list of applicants in accordance with Arvada policies and personnel rules.

ARTICLE VI

Dismissal, Reassignment, Retirement or Resignation of SROs; Replacement

A. Removal of SRO

In the event the school administrator to which the SRO is assigned believes that the SRO is not effectively performing their duties and responsibilities, the administrator may contact the SRO Supervisor to clearly outline the responsibilities and expectations. Should the school administrator continue to be dissatisfied with the performance of the SRO, the school principal may recommend to the SRO Supervisor that the SRO be removed from the SRO Program. The SRO Supervisor shall review the reasons provided by the school principal for the recommendation of removal of the SRO with the Chief of Police or Deputy Chief, and then shall advise the school principal as to Arvada's decision whether to remove the SRO. The Chief of Police or designee may elect to meet with the Superintendent or designee and the SRO Supervisor to discuss the SRO's performance. At such meeting, specified school staff members may be requested to be present. If the issues cannot be

resolved, then the SRO shall be removed from the school or from the SRO Program as determined by Arvada in consultation with the District.

B. Reassignment

The SRO Supervisor may dismiss or reassign the SRO or SRO Supervisor from the SRO Program at any time based upon Arvada rules, regulations, policies, or directives, or when it is in the best interests of Arvada as determined by the SRO Supervisor. Any vacancy in the SRO Program created by such dismissal or reassignment shall be filled in the manner described in Subsection D of this Article.

C. SRO Transfers, Promotions

The SRO or SRO Supervisor may be transferred or promoted from their SRO position at any time as determined by Arvada. Any vacancy created by such transfer or promotion shall be filled in accordance with Arvada policies and procedures applicable to special assignments.

D. Effect of SRO Vacancy

In the event of resignation, dismissal, promotion, retirement, rotation, or transfer of the SRO, or in the case of long-term absences due to injury, illness, disability, or other cause of more than thirty (30) calendar days, Arvada will make reasonable efforts to provide a replacement for the SRO within thirty (30) calendar days of receiving notice of such resignation, dismissal, promotion, retirement, rotation, transfer, or absence. When a replacement SRO is required, Arvada shall assign SROs who have previous experience as an SRO to the extent possible or an officer who is otherwise compatible with school environments. If such replacement cannot be provided within the thirty (30) day timeframe based on personnel and staffing constraints of the Agency, the Chief of Police may temporarily reallocate the school assignments of any existing SRO(s) to ensure that the school is assigned an SRO and the SRO Program is assigned an SRO Supervisor. Any reallocation of assignments shall be done in consultation with the District. Notwithstanding the foregoing, in the event Arvada determines, at its sole discretion, that an SRO vacancy will not be filled after thirty (30) calendar days, the Service Fee shall be prorated subject to daily rate calculation set forth in Article II.B.3 until such time as the SRO vacancy is filled, or until termination of this Agreement.

ARTICLE VII
Evaluation

Effectiveness of the SRO Program shall be evaluated annually by the Parties to determine if any modifications to the SRO Program are necessary or advisable. The evaluation shall include, where appropriate, compliance with the terms and conditions of this Agreement, identification of issues or problems and recommendations for improvement, and assessment of quality of services provided. This evaluation is critical to continue a successful program and the Parties agree to invest sufficient time and effort in the evaluation process.

Each principal will prepare, in a format determined by the District, an annual evaluation of the SRO(s) assigned to principal's school. Each principal will provide the evaluation to the SRO

Supervisor no later than thirty (30) days after the end of the school year, to be considered by Arvada as part of the SRO's annual personnel evaluation.

ARTICLE VIII

Termination of Agreement

This Agreement may be terminated by either party upon thirty (30) days' prior written notice to the other party.

ARTICLE IX

Good Faith

The Parties, their agents and employees agree to cooperate in good faith in fulfilling the terms of this Agreement. The Parties agree that they will attempt to resolve any disputes concerning the interpretation of this Agreement and unforeseen questions and difficulties which may arise in implementing the Agreement by good faith negotiations before resorting to termination of this Agreement.

ARTICLE X

No Indemnification; Legal Contingencies

The Parties are governmental entities in the State of Colorado. As such, each Party is prohibited under Article XI, Section 1 of the Colorado Constitution from indemnifying anyone. Therefore, notwithstanding any provision in the Agreement to the contrary, neither Party will indemnify the other Party or anyone else under this Agreement.

Each Party agrees to release, waive and discharge, and covenants not to sue the other Party and its officers, employees, and insurers, from and against any and all claims, damages, liabilities, demands and court awards of any kind whatsoever which arise from any acts or omissions of employees of the other Party while those employees are engaged in activities under this Agreement. The Parties understand, are relying upon, and do not waive or intend to waive by any provision of this Agreement the monetary limitations or any other rights, immunities, defenses, or protections, provided by the Colorado Governmental Immunity Act, §§ 24-10-101, C.R.S. *et seq.*, C.R.S., as from time to time amended, or otherwise available to either Party or its officers or employees.

ARTICLE XI

Notices

Any and all notices or any other communication required or permitted shall be deemed to have been given when personally delivered or deposited in the United States Postal Service as regular mail, postage prepaid, and addressed as follows or to such other person or address as a Party may designate in writing to the other Party:

To the District:

Superintendent of Schools
Jefferson County R-1 School District
1829 Denver West Drive, Bldg. #27
Golden, Colorado 80401

President
Jefferson County Board of Education
1829 Denver West Drive, Bldg. #27
Golden, Colorado 80401

To Arvada:

SRO Program Commander
Arvada Police Department
8101 Ralston Road
Arvada, CO 80002

ARTICLE XII **Modification**

This document constitutes the full understanding of the Parties, and no term, condition, understanding or agreement purporting to modify or vary the terms of this Agreement shall be binding unless in writing signed by both Parties.

ARTICLE XIII **Non-Assignment; No Third-Party Beneficiary**

This Agreement, and each and every covenant within, shall not be capable of assignment except with the prior written consent of both Parties. This Agreement is not intended and shall not create any duty to any student, teacher, District employee, parent or any other person, firm or entity with regard to the provision of any law enforcement services, security, level of safety, or activities undertaken by the SROs or Arvada, or conditions resulting therefrom. No student, teacher, District employee, parent or other person, firm or entity shall be granted or have any private right of action, claim or civil liability remedy against any SRO individually, Arvada, or the District, or their respective officers, employees or agents, by virtue of this Agreement. Nothing in this Agreement shall be construed to create any liability, or to waive any of the immunities, limitations on liability or other provisions of the Governmental Immunity Act, C.R.S. §§ 24-10-101 *et seq.*, or to waive any immunities or limitations on liability otherwise available to Arvada, the District, or their officers, employees or agents.

ARTICLE XIV **Merger**

This Agreement constitutes a final written expression of all the terms of this Agreement and is a complete and exclusive statement of those terms.

ARTICLE XV
Counterparts; Electronic Signatures

This Agreement may be signed in counterparts and/or electronically, and each counterpart shall be deemed an original, and all the counterparts taken as a whole shall constitute one and the same instrument.

ARTICLE XVI
Supersedes Previous Agreement

This Agreement replaces and supersedes in its entirety the Intergovernmental Agreement Between Jefferson County R-1 School District and the City of Arvada on Behalf of the Arvada Police Department for the School Resource Officer Program, dated October 29, 2023.

ARTICLE XVII
Waiver

The waiver of any breach of any provision of this Agreement by a Party hereto shall not constitute a continuing waiver of any subsequent breach of said Party, for either breach of the same or any other provision of this Agreement.

ARTICLE XVIII
Severability; Headings

In the event this Agreement or any material provision hereof shall be declared to be invalid, unenforceable, or in violation of any applicable federal, state or local laws or regulations, the remaining provisions shall remain in full force and effect. The Parties will immediately begin negotiations to modify or amend this Agreement in order that this Agreement shall, as amended, express and contain the understanding and intentions of the Parties. The subject heading of the paragraphs of this Agreement are included for purposes of convenience only and shall not affect the construction or interpretation of its provisions.

ARTICLE XIX
Governing Law; Venue

This Agreement shall be governed by the laws of the State of Colorado and any legal action concerning the provision hereof shall be brought in Jefferson County, Colorado.

[Signature Page is Next Page]

WHEREFORE, the Parties have caused this Agreement to be executed upon the date first-stated above.

CITY OF ARVADA ON BEHALF OF THE ARVADA
POLICE DEPARTMENT

Lauren Simpson, Mayor

Date

ACKNOWLEDGEMENT OF REVIEW AND
AGREEMENT BY HIGHEST RANKING LAW
ENFORCEMENT EXECUTIVE FOR THE
CITY OF ARVADA

Edward Brady, Chief of Police

Date

ATTEST:

Kristen Rush, City Clerk

APPROVED AS TO FORM:

BY: _____
Rachel A. Morris, City Attorney

JEFFERSON COUNTY R-1 SCHOOL DISTRICT

Tracy Dorland
Superintendent

Date



REPORT TO CITY COUNCIL ORDINANCE FIRST READING

AGENDA ITEM
8.C.1.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: CB25-013, An Ordinance Amending Section 102-32, Definitions, and Repealing and Reenacting Section 102-40, Property Owners Responsible for Charges, of Article II, Water and Sewer, of Chapter 102, Utilities, of the Arvada City Code (Public Hearing to be set for July 1, 2025 at 6:15 p.m.)

Report in Brief

This ordinance authorizes updates to section 102-40 of the Arvada City Code that make all property owners responsible for payment of system development charges, assessments, costs of materials, and other fees. The property owner shall be responsible for all utility administrative charges assessed pursuant to section 102-37. This ordinance allows for repealing and reenacting the current shut-off process for water due to non-payment of water or sewer fees, rates, charges or penalties to make updates to the process.

This update to City Code provides a more robust notice and review process for customers to dispute their water shut-off, allowing for a review by potentially both the director (or their designee) and the city manager.

Following the adoption of this ordinance, the City team will restart water shut-offs with a more robust shutoff notice and review process.

The Arvada team recommends that the City Council approve CB25-013, An Ordinance Amending Section 102-32, Definitions, and Repealing and Reenacting Section 102-40, Property Owners Responsible for Charges, of Article II, Water and Sewer, of Chapter 102, Utilities, of the Arvada City Code.

PRESENTER: Jacqueline Rhoades, Director of Infrastructure

Financial Impact

Resuming the water shut-off process is expected to significantly reduce the number of liens filed annually and recover a greater portion of delinquent revenue on a more regular basis. Maintaining the current practice of relying solely on annual liens has proven inefficient and increasingly costly. Since 2020, the volume of liens has more than tripled, placing a substantial burden on city resources without effectively encouraging timely payments. Additionally, increased fees from the City Clerk and Recorder's office further exacerbate the financial impact, for example in 2024, the City processed 572 liens and releases, costing \$7,436.00. At the current rates, the same volume now costs \$24,596.00, due to increased Clerk and Recording fees. In 2024, the City filed 313 liens. By resuming the shut-off process, the City anticipates a return to pre-pandemic lien volumes (67 liens in 2018 and 72 in 2019), representing a reduction of over 75%.

Based on November and December 2024, there were 1,267 delinquent accounts, representing \$625,937.02 in unpaid water and sewer charges. These funds could potentially be recovered through bi-monthly shut-off enforcement, reducing the burden on both City resources and customers.

By shifting from only a once-a-year lien model to a proactive, bi-monthly shut-off and recovery approach in addition to the lien model, the City can:

- Reduce the financial burden on customers by addressing smaller, more manageable past-due balances

- Recover revenue more consistently and promptly
- Lower administrative costs
- Improve operational efficiency

Background

The City Code allows the City to suspend water service for unpaid water and sewer charges. In 2020, the water shut-off process was suspended due to the global COVID-19 pandemic. This decision was made to ensure all residents, regardless of account delinquency, had access to fresh water for hygiene purposes, specifically handwashing, to help prevent the spread of the virus.

As of now, the shut-off process remains inactive and instead, delinquent accounts are managed only through an annual lien process. Liens for unpaid water and sewer charges are coordinated once per year and require the involvement of multiple departments: Utility Billing, Finance, Legal, City Clerk's Office, and the City Manager's Office. However, the cost of staffing to process the liens has increased significantly, and the total number of liens has more than tripled. Additionally, the City is experiencing substantial revenue loss due to unpaid water bills. This affects other areas of operations and the time dedicated to other efforts.

A review of current practices indicates that relying solely on the lien process is inefficient, consuming significant staff resources while failing to effectively encourage timely customer payments. Therefore, the City intends to resume the water shut-off process to help influence customer behavior and reinforce payment priorities.

Updates to the shut off process are recommended to clarify notice requirements and due process. Recognizing that extenuating circumstances may affect customers' ability to pay, a review provision will be established. Customers subject to disconnection may request a review by the Director or their designee. If disconnection is upheld, customers may appeal the decision to the City Manager or their designee.

Discussion

The ordinance amends Section 102-32, definitions, and repeals and reenacts section 102-40, property owners responsible for charges, of article II, water and sewer, of chapter 102, Utilities, of the Arvada City Code.

The primary goal of this ordinance is to provide updates to the water shut-off process, which was suspended in 2020 due to COVID-19 pandemic. Resuming this process is expected to improve customer payment behavior, as regular bi-monthly past-due amounts are more manageable for most customers than large, annual lien amounts. This will be done by:

- Encouraging timely payment of water and sewer bills by making service continuity contingent on account status.
- Offering flexible payment options for customers facing financial hardship, such as: budget billing, arrangements, and hardship credit.
- Reducing the number of annual liens, thereby enhancing organizational efficiency, decreasing the staff time required to process liens, and improving overall revenue collection.

The ordinance also includes a review and appeal process to ensure fair treatment of property owners. This updated process gives property owners 14 calendar days prior to the shut-off date the ability to submit to the director or designee a water shut-off review request form. This form allows the applicant to express that reasonable cause does not exist for the suspension of service. The director or designee will determine whether there exists reasonable cause for the suspension of water. Additionally, if the director or designee determines reasonable cause exists for the suspension of water service, a provision for the property owner to submit an appeal of that decision to the City Manager or designee has been formalized. This process ensures due process and that a reasonable cause is considered upon request before potential service disconnection.

SUBJECT: CB25-013, An Ordinance Amending Section 102-32, Definitions, and Repealing and Reenacting Section 102-40, Property Owners Responsible for Charges, of Article II, Water and Sewer, of Chapter 102, Utilities, of the Arvada City Code (Public Hearing to be set for July 1, 2025 at 6:15 p.m.)

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Overall, the shut-off process is a critical mechanism to recover uncollected revenue, provide efficient internal operations, and reinforce customer accountability for utility payments.

Public Contact

Posting of the council agenda.

Commission Recommendation

N/A

Strategic Alignment

The recommended action aligns with the Infrastructure Work System Services within the City Council Strategic Plan. The recommended action is consistent with the work system service INF1: Provides the community with a safe, resilient, high-quality water supply, drainage system, wastewater disposal and solid waste management services for full city build-out, as defined by the Comprehensive Plan. This includes maintaining utility rates at lowest practical levels with accurate billing that supports robust and reliable infrastructure.

Alternative Courses of Action

1. Approve the ordinance making updates to the water shut-off process prior to resuming the process, which was suspended in 2020 due to the COVID-19 pandemic. Resuming the shut-off process is anticipated to:

- Improve customer payment behavior by establishing regular consequences for non-payment.
- Enhance organizational efficiency by reducing the volume of annual lien processing.
- Recover delinquent revenue more promptly on a bi-monthly basis.
- Lower administrative costs associated with lien filing and release, which have significantly increased.

The ordinance also includes provisions for customers experiencing extenuating circumstances. These include flexible payment options such as budget billing, arrangements, and hardship credit, along with a formal review and appeal process to ensure fair treatment.

2. Do not approve the ordinance. The city team does not recommend this alternative. Water shut offs may resume without updates to the process.

Recommendation for Action

The Arvada team recommends that the City Council approve CB25-013, An ordinance amending section 102-32, definitions, and repealing and reenacting section 102-40, property owners responsible for charges, of article II, water and sewer, of chapter 102, Utilities, of the Arvada City Code.

Suggested Motion:

I move that CB25-013, An Ordinance amending section 102-32, definitions, and repealing and reenacting section 102-40, property owners responsible for charges, of article II, water and sewer, of chapter 102, Utilities, of the Arvada City Code, be (approved on first reading, ordered published in full, and a public hearing set for July 1, 2025 at 6:15 p.m.) (rejected).

Prepared by:
Deborah Baumgartner, Utility Services Manager

SUBJECT: CB25-013, An Ordinance Amending Section 102-32, Definitions, and Repealing and Reenacting Section 102-40, Property Owners Responsible for Charges, of Article II, Water and Sewer, of Chapter 102, Utilities, of the Arvada City Code (Public Hearing to be set for July 1, 2025 at 6:15 p.m.)

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Reviewed by:

Approved by:

Jessica Morales, Assistant City Attorney	5/8/2025
Jacqueline Rhoades, Director of Infrastructure	5/29/2025
Christine Gray, Utilities Business Manager	5/29/2025
Bryan Archer, Director of Finance	5/29/2025
Tammy Hedlund, Legal Specialist	5/30/2025
Megan McCall, Assistant City Attorney II	5/30/2025
Rachel Morris, City Attorney	6/3/2025
Linda Haley, Deputy City Manager	6/3/2025
Don Wick, City Manager	6/3/2025

Enclosure, exhibits & attachments required to support the report

COUNCIL BILL NO. 25-013
ORDINANCE NO. _____

AN ORDINANCE AMENDING SECTION 102-32, DEFINITIONS, AND REPEALING AND
REENACTING SECTION 102-40, PROPERTY OWNERS RESPONSIBLE FOR CHARGES,
OF ARTICLE II, WATER AND SEWER, OF CHAPTER 102, UTILITIES,
OF THE ARVADA CITY CODE

WHEREAS, the City of Arvada is a home rule municipality, organized and existing under Article XX, Section 6 of the Colorado Constitution; and

WHEREAS, the city owns and operates a public water system; and

WHEREAS, pursuant to section 102-40 of Article II of Chapter 102, owners of properties are responsible for payment of water or sewer fees, rates, charges, or penalties and if these are not paid, or if property owners are otherwise in violation of Article II of Chapter 102, water service may be shut off by the city after the property owner is provided notice and an opportunity to be heard; and

WHEREAS, the city paused suspending water service for unpaid water or sewer fees, rates, charges, or penalties at the onset of the COVID-19 pandemic; and

WHEREAS, the city anticipates resuming suspension of water service as permitted by section 102-40 of Article II of Chapter 102; and

WHEREAS, the provisions of section 102-40 of Article II of Chapter 102 have not been substantively updated in twenty years; and

WHEREAS, the City Council has determined that section 102-40 of Article II of Chapter 102 should be updated to clarify the process for suspension of water service, specifically the process concerning notice and opportunity to be heard.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. Section 102-32, Definitions, of Article II, Water and Sewer, of Chapter 102, Utilities, is hereby amended by adding two definitions to read as follows:

“City manager means the city manager or a designee thereof.

Director means the director of the infrastructure department or a designee thereof.”

The remaining definitions in section 102-32 shall remain unchanged.

Section 2. Section 102-40, Property owners responsible for charges, of Article II, Water and Sewer, of Chapter 102, Utilities, is hereby repealed and reenacted to read as follows:

“Sec. 102-40. Property owners responsible for charges.

- (a) *Generally.* Owners of properties are responsible for payment of all system development charges, assessments, costs of materials, and other fees and user charges set forth in this article. All billing to users may be by address only, and the fact that the person receiving the service may not be identified thereon by name does not preclude collection of the charge from the owner. The property owner shall be responsible for all utility administrative charges assessed pursuant to section 102-37.
- (b) *Suspension of water service.* Subject to the provisions of this subsection (b), water service may be shut off by the city any time that water or sewer fees, rates, charges, or penalties are not paid or for any other violations of this article.
 - (1) *Shut off notice.* If a property owner fails to pay any water or sewer fee, rate, charge, or penalty, or otherwise violates this article, the city will send to the property owner a notice that the city may shut off water because of the non-payment or violation. The notice must be sent to the property owner no later than 14 calendar days prior to the date water service may be shut off. The notice must include the following information:
 - i. If the property owner has failed to pay any water or sewer fee, rate, charge, or penalty, the amount of the past due payment and the date and time that payment must be properly received by the city to avoid suspension of service;
 - ii. If the property owner has violated any other provision of this article, a description of the violation and the date and time by which the violation must be cured to avoid suspension of service;
 - iii. Any additional fees the property owner may be responsible for under this section or section 102-37 of this article;
 - iv. A statement that if any water or sewer fee, rate, charge, or penalty remains unpaid or any other violation of this article remains uncured as of the shut off date and time, water service may be shut off after that date and time;
 - v. Notice that under section 18-525 of this code, disconnection from a public water system, an approved private water system, or well is a violation of this Code and the property owner may be subject to additional enforcement mechanisms permitted by this Code including but not limited to posting the property as being uninhabitable; and
 - vi. Notice that if the property owner does not believe reasonable cause

exists for the suspension of service, the property owner may, no later than seven calendar days after the date of the notice, submit to the director a water shut off review request form.

- (2) *Submitting a water shut off review request.* A property owner may, within seven days of the date of the shut off notice, submit to the director a water shut off review request form on a form prescribed by the city and available from the director on the city's website or by hard copy, setting forth the property owner's explanation as to why reasonable cause does not exist for the suspension of service. Compliance with the seven-day time limit noted in this subsection (2) is a jurisdictional prerequisite to any appeal brought under this section. Failure to comply bars the director's review of the request and any subsequent appeal by the property owner.
- (3) *Director's review of request.* The director will, within seven days of the date of the submission of a completed water shut off review request form in accordance with subsections (2) and (7) of this section, determine whether there exists reasonable cause for the suspension of water service. In making this determination, the director may review the property owner's submission and any relevant city documents. The director will provide the property owner with a written determination stating whether and why reasonable cause exists for the suspension of water service. The decision may be mailed by first class U.S. Mail or furnished to the property owner electronically. Failure by the director to issue a written decision within seven days will be considered a denial of the property owner's request.
- (4) *Submitting an appeal.* A property owner may appeal to the city manager the director's denial of the property owner's assertion that reasonable cause does not exist for water service to be shut off. The appeal must be submitted by the property owner within seven days of the date of the director's written decision, or in the event no written decision is issued by the director, within fourteen days of the date the property owner submitted the request for review, and must be submitted on a form prescribed by the city and available from the director on the city's website or by hard copy. The appeal must be submitted to the city clerk in accordance with subsection (7) of this section. Compliance with the seven-day or, if applicable, fourteen-day time limit noted in this subsection (4) is a jurisdictional prerequisite to any appeal brought under this article. Failure to comply bars the appeal.
- (5) *City manager's review of appeal.* The city manager will, within fourteen days of the date of submission of a completed appeal form, determine whether there exists reasonable cause for the suspension of water service. In making this determination, the city manager may review the property owner's submission and any relevant city documents. The city manager will provide the property owner with a written determination stating whether and why reasonable cause exists for the suspension of water service. The

decision may be mailed by first class U.S. Mail or furnished to the property owner electronically. Failure by the city manager to issue a written decision on the appeal within the time frame set forth in this subsection (5), will be considered a denial of the property owner's appeal and the property owner may proceed as if an adverse decision has been issued.

- (6) *Appeal of city manager's decision.* The city manager's decision, or denial of an appeal as a result of the city manager's failure to issue a written decision, shall be considered a final agency decision. The appeal may proceed under Rule 106 of the Colorado Rules of Civil Procedure.
- (7) *Complete forms required.* A water shut off review request form or an appeal form that is not complete in all respects shall be promptly returned to the property owner and will not be submitted to the director or the city manager, as applicable, for review. The property owner may resubmit a water shut off review request form or an appeal form deemed incomplete, and the city shall accept it, if the resubmitted form is complete and submitted within the seven-day or fourteen-day, as applicable, time limits set forth in this section for submitting a water shut off review request form or an appeal form.
- (8) *Suspension of service not tolled during appeal process.* Suspension of service will not be tolled during any active appeals process brought pursuant to subsection (4), (5), or (6) of this section, including the time periods that a property owner may submit an appeal, if the past due water or sewer fees, rates, charges, or penalties remain unpaid or the violation remains uncured. If a property owner pays their balance in full to restore service during an appeal and receives a decision in their favor from the appeal, then any amount deemed to have been paid in error as a result of the appeal decision will be promptly credited to the property owner.
- (9) *Restoration of service.* The city will restore water service when the balance is paid in full, including any restoration of service fees or other applicable fees and charges, when a violation is cured, upon a decision in favor of the property owner by the city manager of a property owner's appeal, or upon a decision in favor of the property owner in an appeal of the city manager's decision. The city will only restore water service during the city's regular business hours.
- (10) *Fees.* The city may assess service charges, delinquent charges, and any other fee or charge it deems appropriate. The property owner is responsible for paying any charges or fees assessed pursuant to this section. Notwithstanding anything in this Code to the contrary, the director may reduce or waive any amount assessed if the director determines there are significant extenuating circumstances. The director will establish a policy for evaluating claims of significant extenuating circumstance for purposes of this subsection (10)."

Section 3. Severability. Should any provision of this ordinance be declared by a court to be unconstitutional or invalid, such decision shall not affect the validity of the ordinance as a whole, or any part thereof, other than the part so declared unconstitutional or invalid. The city council declares it would have adopted this ordinance and each part or parts hereof irrespective of the fact that any one part or parts be declared unconstitutional or invalid.

Section 4. This ordinance shall be effective five days after publication following final passage.

INTRODUCED, READ, AND ORDERED PUBLISHED this 17th day of June, 2025.

PASSED, ADOPTED AND APPROVED this ____ day of _____, 2025.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney:

BY: _____

Publication Dates: June 19, 2025

REDLINE/STRIKETHROUGH VERSION

FOR INFORMATION ONLY -- NOT PART OF THE ORDINANCE

Underlined indicates new material
Strikethrough indicates deleted material

“Sec. 102-32. – Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Abandoned tap means a water or sewer tap through which there has been no usage for 15 consecutive years and the property owner evidences in writing or otherwise, the intent to abandon the service connection, or the hearing officer, based on evidence presented at the administrative hearing held in accordance with section 102-67, determines that the water or sewer tap is abandoned by the owner and that water or sewer service should be terminated and disconnected at the city main.

Active connected water or sewer service means that water usage has been recorded through the connection during the last consecutive 12 months and the utility billing account is coded active.

Base usage means the volume of actual water use as determined by the average of the bimonthly amount of water metered to the user during any four-month period between November 1 and April 13 in each 12-month period.

Bathroom facilities means any or all of the following: toilet, bathtub, shower.

City manager means the city manager or a designee thereof.

Connected sewer service means a single sewer service connection to a city sewer main.
Connected water service means a single service connection to a city water main in which there is a meter serving potable water to a facility or purpose.

Connection means the connection of a service line to a city water or sewer main which, together with appropriate permit and payment of fees, results in service to a permitted premises. The act of making the connection is called "tapping," and the connection is called a "tap."

Director means the director of the infrastructure department or a designee thereof.

Distributor and institution class of service means contractual water or sewer service to user-owned and user-maintained water distribution or sewage collection systems in or out of the city through one or more master meters.

Duplex residential facility means a building containing only two attached residential units. A duplex may be considered a multifamily residential facility and shall pay the multifamily residential system development charges if the duplex building is part of a larger planned multifamily unit development project, is located within the same lot as other multifamily buildings of three or more units, and the water and sewer user charges and fees for the units will be paid through a homeowners association. The building may have separate water and sewer connections to each unit or have single water and sewer connections that serve both units. If a duplex residential facility is not a part of a larger planned multifamily unit development project, then a duplex residential facility will pay a system development charge based on the duplex residential nature of the building. Upon severing the ownership of a one owner duplex residential facility, separate connected water and sewer services shall be installed to each unit. Except as provided in this subsection, duplex units constructed after 1997 shall have separate water and sewer connections from the city mains to each unit.

Golf course class of service means water service to golf courses owned and operated by the city or by the Apex Recreation and Park District.

Household water means water use by a connected service during any given period for consumption and use of the occupants thereof for any purpose.

Inactive connected water or sewer service means that no water usage has been recorded through the connection during the last consecutive 12 months or more, up to a maximum of 15 consecutive years, and the utility billing account is coded inactive.

Inspection fee means a charge charged by the city to an applicant for a water or sewer permit to reimburse the city's cost of inspecting the service line or meter installation, or both, for compliance with city standard specifications and drawings.

Kitchen facilities mean any or all of the following: sink, range, stove, conventional oven, microwave oven.

Landscaped common area shall mean the landscaped lots or area immediately adjacent to the facilities within a development, owned or maintained, or both by the property owner or the responsible caretaker association, that is irrigated from a common irrigation system that is owned or maintained, or both by the property owner or responsible caretaker association. Open space is not included in landscaped common area.

Main means those city-owned pipes used for distributing water or collecting sewage from users' properties along public streets or other rights-of-way or easements.

Multifamily residential facility means a building containing three or more residential units. The units either have only one connected water service to the building and one or more connected sewer service line to the building, or the units have a separate connected water and sewer service to each unit. Multifamily residential facility includes apartment buildings, condominium buildings, townhouse buildings, and artists lofts or other combination residence/work space in buildings that are primarily residential facilities.

Municipal park class of service means water service to parks owned by the city or by Apex Park and Recreation District.

Nonresidential class of service means water service to any nonresidential facility and usage qualifying as irrigation, distributor, institutional, municipal park, golf course, special metered construction water, tankload and unmetered, as provided in this article.

Nonresidential facility means any building or other property which does not contain a residential unit. Nonresidential facilities include buildings specifically designed for transient occupancy such as dormitories, motels, hotels, hospitals, and nursing homes, or buildings designed only for commercial, industrial, institutional, or governmental purposes, or other combination nonresidence/living space in buildings that are primarily nonresidential facilities. The term "nonresidential facility" also includes open space, unless the context otherwise excludes it.

Nonwater conserving open space means that open space in which any type of grass and an irrigation system are incorporated in accordance with landscape plans approved by the public works and planning departments of the city.

Open space means both public and private land areas which serve to separate or buffer developed areas from one another or to enhance a developed area by providing landscape, vistas, green belts, or similar amenities within a development. Open space may be native or landscaped, and includes trails, parks, golf courses and recreational areas.

Reactivation charges means charges assessed by the city to a water or sewer user to reimburse the city for costs incurred to turn on the water service and reactivate an inactive connected water or sewer service, including the charges set forth in sections 102-39 and 102-67.

Residential class of service means water service to a facility used solely as a residence containing one or more residential units inclusive of single-family, duplex and multifamily residential facilities, mobile homes and any other structure in which one or more persons reside. *Residential facility* means any building used solely as a residence containing one or more residential units.

Residential unit means a room or group of rooms which includes kitchen and bathroom facilities and in which one or more persons could reasonably reside on a permanent and nontransient basis.

Senior citizen designated unit means a unit in a multifamily residential facility that is governmentally or privately sponsored and built for occupancy by solely elderly households where the head of each household is 62 years old or older.

Service charge means a fixed charge for water or sewer service, regardless of the volume of usage.

Service line means all pipes, fittings, and appurtenances for conveying water from the city water system main to the plumbing or fire protection system of a unit or conveying wastewater from a unit to the city sewer system main.

Single family residential equivalent (SFRE) means the volume of water or sewer capacity required for a single family facility.

Single-family residential facility means a residential unit that is located in a separate building and that has both kitchen and bathroom facilities, a connected water service, and a connected sewer service to the building.

Special hydrant metered construction water means water delivered from a city hydrant to a user that has obtained a hydrant permit and paid the appropriate fees to use a specific fire hydrant equipped with a meter.

Stub-in means a connection made for the purpose of installing service lines prior to the paving of streets. Such a connection shall include fittings necessary to extend the service line to the property line, but no meter has been set.

System development charge means a one time charge assessed to an applicant for a permit to take water from the city water system or to discharge sewage into the city sewer system. System development charges are formulated using a methodology that considers the value of assets conveyed at no cost to the city. To the extent agreements entered into by the city prior to July 1, 2023, refer to "tap fees" or "tap fee," those phrases will be interpreted to mean "system development charges" or "system development charge." To the extent agreements entered into by the city prior to July 1, 2023, refer to "water tap fees" or "water tap fee," those phrases will be interpreted to mean "water system development charges" or "water system development charge." To the extent agreements entered into by the city prior to July 1, 2023, refer to "sewer tap fees" or "sewer tap fee," those phrases will be interpreted to mean "sewer system development charges" or "sewer system development charge."

System development charge credit means a dollar amount credited toward the purchase of a new water or sewer tap connection, based upon the previous existence of a water or sewer tap serving the same property, or based on prior payment of a system development charge which has expired as described in section 102-34.

Tapping fee means a charge assessed to a service applicant to reimburse city costs for making the connection to a city water or sewer main.

Terminated tap means a water or sewer tap that has been declared abandoned and disconnected from the city main.

Townhouse residential facility means a residential unit in a multifamily residential facility that contains three or more such attached units, each of which has either individually connected water and sewer service lines to each unit, or interconnected water service lines and interconnected sewer service lines to the building.

Usage charge means a charge based on a water or sewer usage rate.

Usage rate means a price per 1,000 gallons of water used from the city water system or the volume of sewage discharged into the city sewer system.

User means the person receiving water service or sewer service at a property or building, and includes but is not limited to the property owner, lessee, tenant, or any occupant of the property or building.

User charges mean periodic charges, according to customer classification, for water or sewer service which include a service charge plus a usage charge.

Water conserving open space means that open space in which nongrass vegetation and an irrigation system are incorporated in accordance with landscape plans approved by the public works and planning departments of the city.

Water or sewer permit means an invoice for a water or sewer tap that has been certified as paid by the director of utilities or designee thereof.

Water service shut-off means the action taken by the city to turn off the connected water service to a property being served upon the specific request of the user, or by the city for the user's nonpayment of a water or sewer bill.”

“Sec. 102-40.-_Property owners responsible for charges.

(a) *Generally.* Owners of properties are responsible for payment of all system development charges, assessments, costs of materials, and other fees and user charges set forth in this article. Billings to users may be by address only, and the fact that the person receiving the service may not be identified thereon by name does not preclude collection of the charge from the owner. ~~After notice and opportunity to be heard, water service may be shut off by the city at any time that water or sewer fees, rates, charges, or penalties are not paid or for any other violations of this article.~~ The Pproperty owner shall be responsible for all utility administrative charges assessed pursuant section 102-37.

(b) *Suspension of water service.* Subject to the provisions of this subsection (b), water service may be shut off by the city any time that water or sewer fees, rates, charges, or penalties are not paid or for any other violations of this article.

(1) *Shut off notice.* If a property owner fails to pay any water or sewer fee, rate, charge, or penalty, or otherwise violates this article, the city will send to the property owner a notice that the city may shut off water because of the non-payment or violation. The notice must be sent to the property owner no later than 14 calendar days prior to the date water service may be shut off. The notice must include the following information:

- i. If the property owner has failed to pay any water or sewer fee, rate, charge, or penalty, the amount of the past due payment and the date and time that payment must be properly received by the city to avoid suspension of service;
 - ii. If the property owner has violated any other provision of this article, a description of the violation and the date and time by which the violation must be cured to avoid suspension of service;
 - iii. Any additional fees the property owner may be responsible for under this section or section 102-37 of this article;
 - iv. A statement that if any water or sewer fee, rate, charge, or penalty remains unpaid, or any other violation of this article remains uncured as of the shut off date and time, water service may be shut off after that date and time;
 - v. Notice that under section 18-525 of this code, disconnection from a public water system, an approved private water system, or well is a violation of this Code and the property owner may be subject to additional enforcement mechanisms permitted by this Code including but not limited to posting the property as being uninhabitable; and
 - vi. Notice that if the property owner does not believe reasonable cause exists for the suspension of service, the property owner may, no later than seven calendar days after the date of the notice, submit to the director a water shut off review request form.
- (2) *Submitting a water shut off review request.* A property owner may, within seven days of the date of the shut off notice, submit to the director a water shut off review request form on a form prescribed by the city and available from the director on the city's website or by hard copy, setting forth the property owner's explanation as to why reasonable cause does not exist for the suspension of service. Compliance with the seven-day time limit noted in this subsection (2) is a jurisdictional prerequisite to any appeal brought under this section. Failure to comply bars the director's review of the request and any subsequent appeal by the property owner.
- (3) *Director's review of request.* The director will, within seven days of the date of the submission of a completed water shut off review request form in accordance with subsections (2) and (7) of this section, determine whether there exists reasonable cause for the suspension of water service. In making this determination, the director may review the property owner's submission and any relevant city documents. The director will provide the property owner with a written determination stating whether

and why reasonable cause exists for the suspension of water service. The decision may be mailed by first class U.S. Mail or furnished to the property owner electronically. Failure by the director to issue a written decision within seven days will be considered a denial of the property owner's request.

- (4) *Submitting an appeal.* A property owner may appeal to the city manager the director's denial of the property owner's assertion that reasonable cause does not exist for water service to be shut off. The appeal must be submitted by the property owner within seven days of the date of the director's written decision, or in the event no written decision is issued by the director, within fourteen days of the date the property owner submitted the request for review, and must be submitted on a form prescribed by the city and available from the director on the city's website or by hard copy. The appeal must be submitted to the city clerk in accordance with subsection (7) of this section. Compliance with the seven-day or, if applicable, fourteen-day time limit noted in this subsection (4) is a jurisdictional prerequisite to any appeal brought under this article. Failure to comply bars the appeal.
- (5) *City manager's review of appeal.* The city manager will, within fourteen days of the date of submission of a completed appeal form, determine whether there exists reasonable cause for the suspension of water service. In making this determination, the city manager may review the property owner's submission and any relevant city documents. The city manager will provide the property owner with a written determination stating whether and why reasonable cause exists for the suspension of water service. The decision may be mailed by first class U.S. Mail or furnished to the property owner electronically. Failure by the city manager to issue a written decision on the appeal within the time frame set forth in this subsection (5), will be considered a denial of the property owner's appeal and the property owner may proceed as if an adverse decision has been issued.
- (6) *Appeal of city manager's decision.* The city manager's decision, or denial of an appeal as a result of the city manager's failure to issue a written decision, shall be considered a final agency decision. The appeal may proceed under Rule 106 of the Colorado Rules of Civil Procedure.
- (7) *Complete forms required.* A water shut off review request form or an appeal form that is not complete in all respects shall be promptly returned to the property owner and will not be submitted to the director or the city manager, as applicable, for review. The property owner may resubmit a water shut off review request form or an appeal form deemed incomplete, and the city shall accept it, if the resubmitted form is complete and submitted within the seven-day or fourteen-day, as applicable, time limits

set forth in this section for submitting a water shut off review request form or an appeal form.

- (8) *Suspension of service not tolled during appeal process.* Suspension of service will not be tolled during any active appeals process brought pursuant to subsection (4), (5), or (6) of this section, including the time periods that a property owner may submit an appeal, if the past due water or sewer fees, rates, charges, or penalties remain unpaid or the violation remains uncured. If a property owner pays their balance in full to restore service during an appeal and receives a decision in their favor from the appeal, then any amount deemed to have been paid in error as a result of the appeal decision will be promptly credited to the property owner.
- (9) *Restoration of service.* The city will restore water service when the balance is paid in full, including any restoration of service fees or other applicable fees and charges, when a violation is cured, upon a decision in favor of the property owner by the city manager of a property owner's appeal, or upon a decision in favor of the property owner in an appeal of the city manager's decision. The city will only restore water service during the city's regular business hours.
- (10) *Fees.* The city may assess service charges, delinquent charges, and any other fee or charge it deems appropriate. The property owner is responsible for paying any charges or fees assessed pursuant to this section. Notwithstanding anything in this Code to the contrary, the director may reduce or waive any amount assessed if the director determines there are significant extenuating circumstances. The director will establish a policy for evaluating claims of significant extenuating circumstance for purposes of this subsection (10)."



REPORT TO CITY COUNCIL RESOLUTION

AGENDA ITEM
9.A.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.(Continued from June 3, 2025) (Presenter: Jacqueline Rhoades, Director of Infrastructure)

Report in Brief

Presenter: Jacqueline Rhoades, Director of Infrastructure

The resolution updates the fee schedule for the solid waste services provided by Republic Services, Inc. (Republic), and for the services provided by the City, effective July 1, 2025. Section 90-35, Waste Services Fees, of Arvada's City Code requires that the City Council, by resolution, establish the fees to be imposed on all City residents to provide funding for City waste services.

The Resolution also amends the contract to extend to July 1, 2028 to allow the Minimum Service/Opt Out Fee charged by Republic to be held at the current amount of \$4.55 per month through that date.

Finally, the resolution includes the extension of Republic's solid waste and compostable roll off pricing for City events to our residential program participants.

The Arvada team recommends that the City Council approve R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.

Financial Impact

This adjustment to solid waste services fees is a combination of a pass-through of a service price change from Republic and an increase of the City fees, and increases the amount that the City customers will pay for the solid waste and recycling services provided by Republic and the City. This fee increase will be effective to customers on July 1, 2025.

Background

The solid waste services fee schedule is being updated to reflect a price increase from Republic Services in accordance with our contract. The increase in fees is 3.50% and is effective July 1, 2025. The solid waste services fee schedule is also being updated to reflect the increased cost of services that the City provides to the program. Customers will see an increase in their bills effective after July 1, 2025.

Finally, the contract is being amended to extend the expiration date to July 1, 2028, to hold the Minimum Service/Opt Out Fee at \$4.55 per month.

Discussion

SUBJECT: R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.(Continued from June 3, 2025) (Presenter: Jacqueline Rhoades, Director of Infrastructure)

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ITEM: 9.A.

In July 2020, City Council approved a contract with Republic to provide solid waste and recycling services to the City of Arvada. The prices adopted in 2020, and implemented for the initial service date of July 2021, were effective for two years and remained the same until August 2023, when Republic increased their fees per the contract.

Per the contract, Republic has the ability to request a price increase annually (no higher than the contractual ceiling of 3.50%), provided that they can demonstrate that the National Water/Sewer/Trash Index increased during the previous 12 months. The Republic team has provided that information. Effective July 1, 2025, the prices for the services that Republic provides will increase by 3.50%.

The Waste Hauling Program is an Enterprise Fund, which is defined as a government-owned business that receives revenue in return for providing a good or service. The recommended City fee increases will allow the program to be fully funded by revenues received from customers who receive Waste Hauling Program services. The City also charges fees to customers to pay for items such as: salaries/benefits for City team members who support the program, principal and interest to repay the Water Fund for a 2020 loan to start the program; the mattress recycling contract; the leaf recycling contract and expenses; and normal expenses associated with running an enterprise program. The City team continually assesses the requirements to run the program, and is recommending an increase to the City's fee to support the program. The City team is also recommending a decrease in the cart fee for extra trash and recycling cart fees to provide consistency across the program.

The overall increase to a customer receiving service for a 35-gallon trash cart will be \$0.59/month.

The overall increase to a customer receiving service for a 65-gallon trash cart will be \$0.75/month.

The overall increase to a customer receiving service for a 95-gallon trash cart will be \$0.90/month.

The overall increase to a customer who lives in an HOA and receives the Minimum Program services will be \$0.19/month.

The overall increase to a customer who does not live in an HOA and receives the Minimum Program services will be \$0.19/month.

The overall decrease to a customer who has an extra trash cart and receives the extra trash cart fee will be -\$0.15/month.

The overall decrease to a customer who has an extra recycling cart and receives the extra recycling cart fee will be -\$0.05/month.

Our customers will see this on their bills beginning on July 1, 2025.

Republic has also agreed to extend the City's pricing for solid waste and green (compostable) waste roll offs to our program participants. Residents who participate in the City's program will be able to rent one of each type of roll off once per contract year (July 1 through June 30) for a period of 14 days at the pricing shown below:

Solid Waste 30-yard roll off: \$305.07

Green Waste 30-yard roll off: \$415.77

Program participants who are interested in renting one of these roll offs from Republic will sign an agreement with Republic, and schedule drop off/pickup dates directly with the Republic team. Fees at a prorated amount of \$100.00 per month will be assessed if a resident keeps the roll off for longer than the 14-day rental period. There are also specific items that may not be put into either type of roll off. Other fees may be assessed if unauthorized materials are put into a solid waste or green waste roll off, or if Republic cannot access the roll off for removal.

The contract is also being amended to extend the expiration date to July 1, 2028. The original contract was for five years from the Initial Service Date of July 1, 2021, with an expiration date of July 1, 2026. The contract also included language that allowed the City to extend the contract for two consecutive one-year terms, which if used, would extend the contract to July 1, 2028. Earlier this spring, the Republic team provided the City with an option to hold the Minimum Service/Opt Out Fee at the current \$4.55 per month through July 1, 2028 if the City would agree to the contract extension to July 1, 2028. City Council directed the City team to accept this proposal.

SUBJECT: R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.(Continued from June 3, 2025) (Presenter: Jacqueline Rhoades, Director of Infrastructure)

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ITEM: 9.A.

Finally, the City team is working with the Republic team to monitor the implementation of the state's Producer Responsibility Program and how it will impact the costs paid by our residents.

Public Contact

Posting of the City Council agenda.

Commission Recommendation

N/A.

Strategic Alignment

This action aligns with the Infrastructure Principle in the City Council Strategic Plan:

INF1: Provides the community with a safe, resilient, high-quality water supply, drainage system, wastewater disposal and solid waste management services for full city build-out, as defined by the Comprehensive Plan. This includes maintaining utility rates at lowest practical levels with accurate billing that supports robust and reliable infrastructure.

Alternative Courses of Action

1. Approve the Resolution, adopting the amended waste and recycling service fees per the city's contract with Republic, adopting an increase/alignment to the City's fees, and extending the contract to July 1, 2028.
2. Do not approve the Resolution. The city team does not recommend this alternative, as Republic has provided the appropriate documentation to support the increase, and the City fee recommendation has been calculated to fully fund the program. In addition, Republic has proposed holding the Minimum Service/Opt Out fee at the current \$4.55 per month if the contract is extended to July 1, 2028 as allowed in the contract. If the Resolution is not approved, the Minimum Service/Opt Out Fee will continue to be subject to the annual contract increases. Additionally, charging the appropriate fees to maintain the program aligns with the definition of an Enterprise Fund. This alternative would also put the City out of compliance with contractual obligations.

Recommendation for Action

The Arvada team recommends that the City Council approve R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.

Suggested Motion:

I move that R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees, be (approved) (rejected).

Prepared by:
Christine Gray, Utilities Business Manager

SUBJECT: R25-051, A Resolution Adopting the Amended Fee Schedule for the Waste Hauling Program Pursuant to Chapter 90, Solid Waste, of the Arvada City Code, and Authorizing the Third Amendment to "An Agreement Between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services" Thereby Increasing Waste Services Fees.(Continued from June 3, 2025)
(Presenter: Jacqueline Rhoades, Director of Infrastructure)

PAGE: 4
ITEM: 9.A.

Reviewed by:

Approved by:

Deborah Baumgartner, Utility Services Manager	6/13/2025
Christine Gray, Utilities Business Manager	6/13/2025
Jacqueline Rhoades, Director of Infrastructure	6/13/2025
Bryan Archer, Director of Finance	6/13/2025
Tammy Hedlund, Legal Specialist	6/13/2025
Jessica Morales, Assistant City Attorney	6/13/2025
Rachel Morris, City Attorney	6/13/2025
Don Wick, City Manager	6/13/2025

Enclosure, exhibits & attachments required to support the report

RESOLUTION NO. R25-051

A RESOLUTION ADOPTING THE AMENDED FEE SCHEDULE FOR THE WASTE HAULING PROGRAM PURSUANT TO CHAPTER 90, SOLID WASTE, OF THE ARVADA CITY CODE, AND AUTHORIZING THE THIRD AMENDMENT TO “AN AGREEMENT BETWEEN THE CITY OF ARVADA AND ALLIED WASTE TRANSPORTATION, INC. D/B/A REPUBLIC SERVICES OF DENVER FOR RESIDENTIAL SOLID WASTE COLLECTION SERVICES” THEREBY INCREASING WASTE SERVICES FEES

WHEREAS, upon approval of the City Council, the City and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver (“Republic”) entered into an agreement on June 17, 2020, wherein Republic would provide residential trash and recycling collection services for the residents of the City (the “Original Agreement”); and

WHEREAS, section 19.1 of the Original Agreement allows for annual price changes, beginning July 1, 2023; and

WHEREAS, in compliance with section 19.1 of the Original Agreement, this Third Amendment to the Original Agreement will increase Republic’s pricing by 3.5%; and

WHEREAS, the City needs to increase its Waste Hauling Program fees, which are imposed on all city residents; and

WHEREAS, pursuant to section 90-35(a) of the Arvada City Code the “City council shall, by resolution, establish the waste services fees to be imposed on all city residents receiving city utility services, regardless of whether the city's residential waste collection services are actually utilized by such resident. The fees shall be billed in conjunction with the charge for city utility services and such fees shall be due and payable at the same time and place as the charge for city utility services.”

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. The City Council hereby adopts the Amended Fee Schedule for the Waste Hauling Program in accordance with Chapter 90 of the Arvada City Code, as attached hereto, and any prior version of said fee schedule inconsistent with that attached hereto is amended to conform.

Section 2. The Mayor or Mayor Pro Tem is authorized to sign and the City Clerk to attest, in form approved by the City Attorney, the Third Amendment to an Agreement between the City of Arvada and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver for Residential Solid Waste Collection Services, which is in substantially the same form as that attached hereto, thereby increasing Republic’s prices in accordance with Chapter 90 of the Arvada City Code.

Section 3. This Fee Schedule set forth herein shall be effective July 1, 2025.

Section 4. This resolution shall be effective upon its approval by the City Council.

APPROVED AND ADOPTED this 17th day of June, 2025.

ATTEST:

City Clerk

Lauren Simpson, Mayor

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney:

BY: _____

FEE SCHEDULE
FOR
WASTE HAULING PROGRAM
PURSUANT TO CHAPTER 90, SOLID WASTE, OF THE ARVADA CITY CODE
EFFECTIVE JULY 1, 2025

Item	Republic Fee
35 Gallon Cart Service	\$9.34
65 Gallon Cart Service	\$13.92
95 Gallon Cart Service	\$18.50
Extra Trash cart	\$4.06
Extra Recycling cart	\$2.49
Minimum Service Fee	\$4.55
Bulk Item Collection	\$16.82
Roll-off: Waste - City Event cost	\$305.07
Roll-off: Green Waste (composted) – City Event cost	\$415.77
Roll-off: Waste – Program Customer cost (one per contract year)	\$305.07
Roll-off: Green Waste (composted) – Program Customer cost (one per contract year)	\$415.77
Unacceptable Disposed Items	\$50.00/Item Dry Run Fee \$253.00 Roll Off Cost \$305.07 or \$415.77
Additional Daily Fee Beyond 14 Days	\$100.00/Month Prorated
Cart Exchange more than twice per year	\$16.72

Item	City Fee
Enterprise Fee + Cart Replacement Fees	\$2.26
City Program Fee	\$1.69
Cart Replacement Fee for Extra Trash Cart	\$ 0.60
Cart Replacement Fee for Extra Recycle Cart	\$ 0.60

REDLINE/STRIKETHROUGH VERSION

**FOR INFORMATION ONLY -- NOT PART OF THE WASTE SERVICE FEE
SCHEDULE**

Underlined indicates new material
~~Strikethrough~~ indicates deleted material

Item	Republic Fee
35 Gallon Cart Service	<u>\$9.34</u> 8.94
65 Gallon Cart Service	\$ <u>13.92</u> 13.36
95 Gallon Cart Service	\$ <u>18.50</u> 17.79
Extra Trash cart	\$ <u>4.06</u> 3.84
Extra Recycling cart	\$ <u>2.49</u> 2.41
Minimum Service Fee	\$ 4.55
Bulk Item Collection	<u>\$16.82</u> 16.16
Roll-off: Waste – <u>City Event cost</u>	<u>\$305.07</u> 294.67
Roll-off: Green Waste (composted) – <u>City Event cost</u>	<u>\$415.77</u> 401.74
<u>Roll-off: Waste – Program Customer cost (one per contract year)</u>	<u>\$305.07</u>
<u>Roll-off: Green Waste (composted) – Program Customer cost (one per contract year)</u>	<u>\$415.77</u>
Unacceptable Disposed Items	\$50.00/Item Dry Run Fee \$253.00 Roll Off Cost \$305.07 or \$415.77
Additional Daily Fee Beyond 14 Days	\$100.00/Month Prorated
Cart Exchange more than twice per year	<u>\$16.72</u> 16.06

Item	City Fee
Enterprise Fee + Cart Replacement Fees	\$2.26
City Program Fee	<u>\$1.69</u> 1.50
<u>Cart Replacement Fee for Extra Trash Cart</u>	<u>\$0.60</u> 0.75
<u>Cart Replacement Fee for Extra Recycle Cart</u>	<u>\$0.60</u> 0.65

**THIRD AMENDMENT
TO “AN AGREEMENT BETWEEN THE CITY OF ARVADA
AND ALLIED WASTE TRANSPORTATION, INC. D/B/A
REPUBLIC SERVICES OF DENVER FOR RESIDENTIAL
SOLID WASTE COLLECTION SERVICES”**

- 1. PARTIES.** The parties to this Agreement are the City of Arvada, a Colorado home rule municipal corporation, whose mailing address is 8101 Ralston Road, Arvada, Colorado 80002 ("Arvada") and Allied Waste Transportation, Inc. d/b/a Republic Services of Denver, a Colorado corporation whose principal place of business is located at 18500 North Allied Way, Phoenix, Arizona 85054 ("Contractor"). Arvada and Contractor may be referred to individually as the “Party,” and collectively as the “Parties.”
- 2. RECITALS AND PURPOSE.**
 - 2.1. Arvada required a qualified firm to provide residential trash and recycling collection services for the City of Arvada.
 - 2.2. On or about May 24, 2019, Arvada issued a Request for Proposal for Arvada Organized Waste Hauling, RFP-19-Organized Waste Hauling ("Original RFP") seeking proposals from qualified firms to provide professional services as described in Sec. 2.1. On September 6, 2019, Arvada issued an additional Request for Best and Final Proposal, RFP-19-Organized Waste Hauling BAFP ("BAFP") to the four pre-qualified Contractors from the Original RFP.
 - 2.3. On or about June 17, 2020, Arvada and Contractor entered into an agreement for these residential trash and recycling services (“Original Agreement”).
 - 2.4. On or about July 18, 2023, the Parties executed the First Amendment to the Original Agreement (“First Amendment”). The purpose of the First Amendment was to accept and incorporate Contractor’s increase in pricing, in compliance with Section 19.1 of the Original Agreement.
 - 2.5. On or about June 18, 2024, the Parties executed the Second Amendment to the Original Agreement (“Second Amendment”). The purpose of the Second Amendment was to accept and incorporate Contractor’s increase in pricing, in compliance with Section 19.1 of the Original Agreement.
 - 2.6. For the convenience of the parties, (due to the voluminous nature of the Original Agreement, First Amendment, and Second Amendment), the Original Agreement, First Amendment, and Second Amendment are not attached hereto but are incorporated herein by reference.
 - 2.7. Section 19.1 of the Original Agreement allows for annual price changes, beginning July 1, 2023. Specifically, the Original Agreement states as follows:

"19 .1 Annual price change: Annually, effective at the end of the second

year of the Agreement, July 1, 2023, Contractor shall have the option to increase prices. During the option periods, the City will consider an adjustment to the pricing structure. For consideration of price increases above, the Contractor must document that it was subject to price increases by the agreed upon National Water/Sewer/Trash Index. This change shall be based on the most recent 12 month period available. Price adjustments shall not fall below a floor of 2.5% and shall not exceed a ceiling of 3.5% annually, plus any new Regulatory fees imposed by state or national agencies or law, subject to approval by City Council Resolution. The Contractor shall request in writing 90 days prior to the annual initial service contract renewal date the calculated price change and updated price form exhibits."

- 2.8. The purpose of this Third Amendment to the Original Agreement ("Third Amendment") is to accept and incorporate Contractor's increase in pricing, in compliance with Section 19.1 of the Original Agreement, to amend the term of the Original Agreement from five years to seven years, to add Roll Off services for Arvada residents participating in Arvada's Waste Hauling Program, and to document the Parties intent to participate in Colorado's Extended Producer Responsibility Program.

3. **CONTRACT DOCUMENTS AND EXHIBITS.** The Contract Documents shall consist of this Third Amendment, the Second Amendment, the First Amendment, and the Original Agreement, together with the following:

Exhibit A: Contractor's 2025 Notification of Price Increase;

Exhibit B: Contractor's 2025 Price Increases (Replaces Exhibit 5 of Original Agreement);

Exhibit C: Contractor's Documentation of Basis for Price Increase; and

Exhibit D: Contractor's Temporary Large Container Services Agreement.

All exhibits referred to in this Agreement are attached hereto and are, by reference, incorporated herein for all purposes. In the event any matter, term, provision, or condition that is the subject of this Agreement requires clarification or is in dispute, or is the subject of a difference of opinion, the purpose and intent of the Agreement shall be first ascertained by reference to the Contract Documents in their entirety. In the event of any dispute or differences between the respective documents that constitute the Contract Documents, then Contractor shall secure the written instructions from Arvada before proceeding with the performance of the services affected by such conflicts, omissions, or discrepancies.

4. **CHANGES IN PRICING FOR THIS THIRD AMENDMENT.** The residential waste collection services rates will change as shown in **Exhibits A, B, and D** to this Third Amendment. The pricing contained in **Exhibit B** to this Third Amendment shall replace the pricing on **Exhibit 5** of the Original Agreement, as amended by the First and Second

Amendments.

5. AMENDMENT TO SECTION 18, TERM, OF THE ORIGINAL AGREEMENT.

- 5.1. Subsection 18.2 of Section 18, *Term*, of the Original Agreement, is amended as follows:

“18.2. The term of the Agreement shall be for **seven** years from the Initial Service Date, July 1, 2021, unless sooner terminated by either party as provided herein, with collection services beginning on July 5, 2021.”

- 5.2. Subsection 18.3 of Section 18, *Term*, of the Original Agreement, is hereby deleted.

- 5.3. In exchange for extending the contract term from five years to seven years, Contractor agrees as follows:

5.3.1. The opt-out fee for year 2025/2026 of the Agreement will be held at the current amount of \$4.55 and shall remain that amount for year 2026/2027 of the Agreement and year 2027/2028 of the Agreement.

6. ADDITION OF ROLL OFF SERVICES.

- 6.1. Arvada residents who have opted into Arvada’s Waste Hauling Program for waste collection services (“Customers”) now have access to temporary large container (“Roll Off”) services at an additional cost, as set out in **Exhibits A, B, and D**.
- 6.2. Customers will have access to only one yard waste Roll Off container and one solid waste Roll Off container per contract term, July 1st through June 30th.
- 6.3. Customers choosing to use the Roll Off services will need to contact Contractor to set up those services in accordance with the terms of **Exhibit D**.

7. PRODUCER RESPONSIBILITY PROGRAM FOR RECYCLING, HB22-135.

- 7.1. HB22-135, also known as “Extended Producer Responsibility,” (EPR) shifts financial and operational responsibility for the end-of-life management of a product from local governments and taxpayers to the producer, by requiring producers (i.e., brand owners, retailers, restaurants, first importers) to either partially or fully fund the collection, sortation, and processing of the packaging materials and paper items (“covered products”) that they supply into Colorado.
- 7.2. The Circular Action Alliance (“CAA”) is the Producer Responsibility Organization (“PRO”) responsible under the EPR for developing and implementing a plan for managing products covered under the EPR (the “Plan”). Through the Plan developed by the CAA, producers will fund and manage the collection, processing, and recycling of covered products.

- 7.3. The CAA has submitted its draft Plan to the Colorado Department of Public Health and Environment (“CDPHE”). It is anticipated that CDPHE will approve the Plan in December of 2025. Once the Plan is approved by CDPHE, the CAA will begin a six-month implementation of their program, which is anticipated to be in operation by July of 2026. The CAA is not yet signing service agreements with waste haulers or government agencies to provide reimbursement for recycling expenses as set out in the Plan.
- 7.4. It is Arvada’s intent to participate in the program set out in the Plan, in order to receive reimbursement for recycling expenses under the City’s Waste Hauling Program.
- 7.5. Once the Plan is approved by CDPHE, the Parties agree to work together to execute any necessary amendment to this Agreement to ensure Arvada’s participation in the program as set out in the CAA’s Plan. As such, to the extent required under the Plan to receive reimbursement funds, Contractor agrees it will separate out the cost of providing recycling to each residence from the trash collection services.
- 8. FULL FORCE AND EFFECT.** All other terms and conditions shall be as set forth in the Original Agreement, First Amendment, and Second Amendment. In the event of a conflict between the terms of this Third Amendment and the terms of the Original Agreement, First Amendment, and Second Amendment, the terms of this Third Amendment shall control.
- 9. BINDING AUTHORITY.** Contractor represents and affirms that the signature page hereof accurately states the full legal name of Contractor (whether as a corporation, partnership, limited liability company, sole proprietorship, or other), contains all requisite signature(s) on behalf of Contractor, and in all other respects is effective to bind Contractor, in accordance with all applicable statutes, regulations, resolutions, rules, bylaws, agreements, or similar sources of authority or limitation. This Agreement may be executed in counterpart(s), each of which shall be deemed to be an original, and all of which, taken together, shall constitute one instrument.

(Remainder of page intentionally left blank. Signatures on next page.)

DATED this _____ day of _____, 2025.

CITY OF ARVADA, a Colorado home
rule municipal corporation

Lauren Simpson, Mayor
8101 Ralston Road
Arvada, CO 80002

ATTEST:

City Clerk

APPROVED AS TO FORM:
Rachel A. Morris, City Attorney

By: _____

**ALLIED WASTE TRANSPORTATION, INC.
D/B/A REPUBLIC SERVICES OF DENVER**

Bryant Thornton
Area President Mountain West
5075 East 74th Avenue
Commerce City, CO 80022
bthornton@republicservices.com

Exhibit A

Third Amendment

**To "An Agreement Between the City of Arvada and Allied
Waste Transportation, Inc. D/B/A Republic Services of Denver
for Residential Solid Waste Collection Services"**



Sustainability in Action

March 25, 2025

City of Arvada Price Increase Calculation Attn:

Deborah Baumgartner

Republic Services is sending notification of the upcoming price increase that will go into effect on July 1, 2025. Below is the contract language giving direction on the price increase process.

The contractor shall have the option to increase prices. During the option periods, the city will consider an adjustment to the pricing structure. For consideration of price increases above, the Contractor must document that it was subject to price increases by the agreed upon National Water/Sewer/Trash Index. This change shall be based on the most recent 12month period available. Price adjustments shall not fall below a floor of 2.5% and shall not exceed a ceiling of 3.5% annually, plus any new Regulatory fees imposed by state or national agencies or law, subject to approval by City Council Resolution. The Contractor shall request in writing 90 days prior to the annual initial service contract renewal date the calculated price change and updated price form exhibits.

Based on the above contract language, the City of Arvada Residential Solid Waste Collection Services will see a rate increase of 3.5%, the contractual ceiling. Currently, the 12-month running average for Water/Sewer/Trash based on the Bureau of Labor Statistics is 4.86% through February 2025, the most current data available.

The Colorado Hazardous Materials and Waste Management Division is allowed a pass-through fee which contractors will pass onto to users who have a contractor dispose of waste. An additional \$0.10 for 2025 would normally have been charged to the City of Arvada. Republic Services will forgo that increase and maintain the 2024 levels of \$0.09. The following services are exempt from this solid waste fee: the Opt-Out Fee, the Extra Recycle Cart, and the Green Waste Roll-Offs.

Below are the new service rates that will be invoiced by Republic Services. The rates do not include the service fees from the City of Arvada.

- ▶ Minimum Service \$4.55 if contract is extended.
- ▶ 35-gallon Trash Waste Cart\$ 9.34
- ▶ 65-gallon Trash Waste Cart \$13.92
- ▶ 95-gallon Trash Waste Cart\$ 18.50
- ▶ Extra Cart Trash- any size\$ 4.06
- ▶ Extra Recycle Cart - Any size \$ 2.49
- ▶ Cart Exchanges (more than 2 per year)- \$16.72

- ▶ Bulk Items Collection per item \$16.82
- ▶ Extra Bag Trash Tags \$3.75

Resident rates offered for Roll Offs – Residents in the City’s program only.

- Only one roll off per contract term July 1st through June 30th for yard waste and solid waste will be accepted at the City Pricing Structure.
- Roll Off – Solid Waste \$305.07 includes haul plus disposal up to 4 tons.
- \$30.00 per ton over 4 tons
- 14- day rental
- Roll off -Green Waste (composted) \$415.77 includes haul and disposal
- 14 days rental
- A Dry Run Fee of \$253.00 will be assessed to the customer if Republic is unable to remove the roll off due to excessive weight, inability to access the roll off or the inclusion of unauthorized materials. This fine amount will be set throughout the City’s contract term.
- Unacceptable Disposed Item will be \$50.00 per item if an unacceptable is found upon disposal, an additional Dry Run Fee \$253.00, and Roll Off Fee of \$305.07 or \$415.77 dependent on the roll off type will apply to transport items back to the customer for disposal.
- A Rental Fee will be charged \$100.00 per month if the roll off is held by the customer for longer than 14 days. The fee will be prorated daily.

City Event Roll Off Rates:

- ▶ Roll Off- Solid Waste\$ 305.07
- ▶ Roll off -Green Waste(composted) \$415.77

Republic Services is committed to the long-term viability of your program, and we have concerns that shifting opt-out price increases to people in the program would have negative consequences to the program. We have also heard from the Council that there is some concern regarding additional price increases on the opt-out fee. We have proposed a win-win situation, which is that Republic will forgo any price increases associated with the opt-out fee if the City were to extend the existing agreement by exercising either one or two of the options left on the original contract. This gives the city additional time to plan for the next steps of your program, eliminates additional price increases to opt-out residents, and secures very favorable rates for the citizens of Arvada.

The opt-out fee for 2025-2026 will be held at the current amount of \$4.55 and shall remain that amount for 2026/2027 but only if it is agreed upon that the first of the optional renewal periods are amended and extended until July 1, 2027.

The opt-out fee for 2025/2026 will be held at the current amount of \$4.55 and shall remain that amount for 2026/2027 and 2027/2028 but only if it is agreed upon that both optional renewal periods are amended and extended until July 1, 2028.

Republic Services appreciates the partnership we have developed with Arvada and the ongoing business relationship. Please reach out with any questions.

Regards,

Steve Gilmore Republic
Services

Pricing Form July 2025

Waste and Recycle Services: performed by Republic Services. City Wide based on approximately 26,000 households. Volume based pricing. Residents select 35, 65, or 95 gallon carts. 95 gallon recycle cart is included.

Service for 35 Gallon Waste Cart	<u>\$9.34 per household, per month</u>
Service for 65 Gallon Waste Cart	<u>\$13.92 per household, per month</u>
Service for 95 Gallon Waste Cart	<u>\$18.50 per household, per month</u>
Extra Cart Pricing – Trash - Any Size	<u>\$4.06/mo</u>
Extra Cart Pricing – Recycle - Any Size	<u>\$2.49/mo</u>
Minimum Service (Opt-Out) Fee	\$4.55 per household, per month

To qualify for an additional Trash or Recycle Cart, a resident must already subscribe to the largest trash or recycle cart, which is 95 gallon in size.

Additional Optional Services:

Cart Exchange more than twice per year	<u>\$16.72 per cart/per exchange</u>
Extra Bag Trash Tags	<u>\$3.75 per tag</u>
*Roll Off – Solid Waste	<u>\$305.07</u>
*Roll off -Green Waste(composted)	<u>\$415.77</u>
*Additional Fees for Roll Off Pickup/Disposal	<u>\$253.00</u>
*Additional Daily Fee Beyond 14 Days	<u>\$100.00/Month Prorated</u>
*Additional Disposal of Unauthorized Materials	<u>\$50.00 per item if an unacceptable is found upon disposal, an additional Dry Run Fee (\$253.00), and Roll Off Fee (fee depends on type of roll off that was rented) will apply to transport items back to the customer for disposal</u>

*Customer pricing must conform with “Temporary Large Container Services Agreement.” The agreement states specific line-item eligibility and pricing regarding eligibility, time limits, disposal limitations, fees, and additional pricing if applicable.

Bulk Program is NOT included in the pricing above and only for City Bulky Item Events.

- A. Bulky item collection performed as drop off events 3 times per year, one day per event, and billed to the City. \$305.07 per 30 yard roll off

15 -30 yard roll offs provided to the city Free each contract year

- B. Curbside bulk pick-up for a fee billed to the Household:
- a. Curbside Bulk \$16.82 per bulk item

Fall Leaf and Debris Drop Off is NOT included in the pricing above and only for City Fall Leaf Events:

Three (3) Saturday and two (2) Monday through Friday events, for Fall Leaf Recycling. Pricing below reflects the collected material will be composted.

Fall Leaf Events

\$415.77 per 30 yard roll off

Exhibit C

Third Amendment

To “An Agreement Between the City of Arvada and Allied
Waste Transportation, Inc. D/B/A Republic Services of Denver
for Residential Solid Waste Collection Services”



COLORADO

Hazardous Materials & Waste Management Division

Department of Public Health & Environment

MEMORANDUM

To: All Operating Colorado Solid Waste Disposal Sites and Facilities
From: David Snapp, Solid Waste and Materials Management Program (303-726-6836)
Date: September 23, 2024
Subject: Solid Waste User Fee Notice - Circular Colorado Communities Enterprise Fee Modification

On June 13, 2024, the Hazardous Materials and Waste Management Division notified Colorado Solid Waste Disposal Sites and Facilities of changes to the solid waste user fees established in House Bill 24-1449, Environmental Sustainable Circular Economy. The bill replaced the Recycling Resources Economic Opportunity Grant Program (RREO) and Front Range Waste Diversion Grant Program (FRWD) fees with the Colorado Circular Communities Enterprise (C3) fee. The C3 fees vary depending on whether the facility is located in or accepts waste from the Front Range.

For facilities in the Front Range¹, the fee from July 1, 2024, through December 31, 2024, is \$0.74 per cubic yard, which is equivalent to \$2.47 per ton. On and after January 1, 2025, the C3 fee is \$0.78 per cubic yard, which is equivalent to \$2.60 per ton. This amount reflects the fee level that was in place before July 1, 2024, Section 25-16-104.5(3.9)(c.5) C.R.S. The C3 fee is also assessed on waste originating from the Front Range, but transported for disposal to facilities in Custer, Fremont, Morgan, or Otero Counties.

For facilities outside of the Front Range, the C3 fee is unchanged. The C3 fee continues to be \$0.14 per cubic yard, which is equivalent to \$0.47 per ton, two cents per load transported by a motor vehicle that is commonly used for the noncommercial transport of persons over public highways, and four cents per load transported by a truck commonly used for the noncommercial transport of persons and property over the public highways. There are no exemptions to the C3 fee assessed on solid waste accepted at facilities outside of the Front Range Counties.

All solid waste user fees assessed at solid waste disposal sites and facilities taking effect January 1, 2025, are identified in the tables below. The Colorado Circular Communities Enterprise fee is the only fee that is changing, but all fees are shown in the tables to provide an understanding of the various portions of the solid waste user fee.

¹ Section 25-16-104.5(3.9)(c.5), C.R.S. defines the Front Range as Adams, Arapahoe, Boulder, Douglas, Elbert, El Paso, Jefferson, Larimer, Pueblo, Teller, and Weld and the Cities and Counties of Broomfield and Denver.





COLORADO

Hazardous Materials & Waste Management Division

Department of Public Health & Environment

Front Range Solid Waste Disposal Sites Fees beginning January 1, 2025

The only fee change is the Front Range C3 fee at Row 5.

Fee/Fund	Car*	Truck*	Cubic Yard	Ton (MSW)	Ton* (Soil)	Gallon* (1,000G)
Solid waste program*	\$0.07	\$0.15	\$0.22	\$0.73*	\$0.17	\$1.10
Hazardous substance response fund*	---	---	---	---	---	---
Department of Law*	\$0.01	\$0.02	\$0.03	\$0.10*	\$0.02	\$0.15
Front Range C3 fee**	N/A	N/A	\$0.78**	\$2.60**	N/A	N/A
Total Solid Waste User Fee**	\$0.08	\$0.17	\$1.03**	\$3.43**	\$0.19	\$1.25

* Waste volume types converted to cubic yards using the conversion factors found in Section 1.7.4 of the Regulations

** Calculated total fee may be less due to exemptions for certain waste as specified in § 25-16-104.5(3.9)(c)(IV), C.R.S.

Non-Front Range Disposal Sites Fees beginning July 1, 2024

Fee/Fund	Car*	Truck*	Cubic Yard	Ton (MSW)	Ton* (Soil)	Gallon* (1,000G)
Solid waste program*	\$0.07	\$0.15	\$0.22	\$0.73*	\$0.17	\$1.10
Hazardous substance response fund	---	---	---	---	---	---
Department of Law*	\$0.01	\$0.02	\$0.03	\$0.10*	\$0.02	\$0.15
Non-Front Range C3 fee*	\$0.02**	\$0.04**	\$0.14	\$0.47	\$0.47	\$0.70
Total Solid Waste User Fee	\$0.10	\$0.21	\$0.39	\$1.30	\$0.66	\$1.95

* Waste volume types converted to cubic yards using the conversion factors found in Section 1.7.4 of the Regulations

** Rates for non-commercial vehicle types as specified in § 25-16-104.5(3.9)(a), C.R.S.

C3 fees for waste originating in Front Range Counties that is disposed of in Custer, Fremont, Morgan and Otero Counties beginning January 1, 2025

C3 fee for waste from the front range received in Custer, Fremont, Morgan, and Otero Counties	N/A	N/A	\$0.78	\$2.60*	N/A	\$3.70
---	-----	-----	--------	---------	-----	--------

* Waste volume types converted to cubic yards using the conversion factors found in Section 1.7.4 of the Regulations



Exhibit D

Third Amendment

To “An Agreement Between the City of Arvada and Allied
Waste Transportation, Inc. D/B/A Republic Services of Denver
for Residential Solid Waste Collection Services”



Sustainability in Action

TEMPORARY LARGE CONTAINER SERVICES AGREEMENT

Solid Waste Large Container 30 yard or Yard Waste 30yd

This Customer Service Agreement is made between Allied Waste Transportation, Inc., Allied Waste Services of Denver, Republic Services of Denver ("Company") and the customer listed on the order form ("Customer") during the checkout process of order"). **By using the City of Arvada program and Republic Services to agree to this Customer Service Agreement, you are electronically signing and agreeing to transact electronically and to the following Terms and Conditions** (together with the Online Order and confirmation, the "Agreement").

SERVICES. Customer grants to Company the exclusive right to collect, transport and dispose of or recycle all of Customer's non-hazardous solid waste materials (including Recyclable Materials) (collectively, "Waste Materials"), and Company agrees to furnish such services as permitted by Applicable Laws.

TERM. THE TERM OF THIS AGREEMENT SHALL START ON THE DATE ON WHICH SERVICE UNDER THIS AGREEMENT COMMENCES AND SHALL CONTINUE UNTIL THE EARLIER OF (i) COMPANY'S REMOVAL AND INSPECTION OF ALL EQUIPMENT PROVIDED TO CUSTOMER, OR (ii) TERMINATION BY COMPANY AT ANY TIME BY ORAL OR WRITTEN NOTICE TO CUSTOMER. UNLESS OTHERWISE AGREED BY THE PARTIES, COMPANY SHALL PROVIDE THE EQUIPMENT TO CUSTOMER FOR A PERIOD of 14 BUSINESS DAYS. MUST SCHEDULE FOR REMOVAL AT TIME OF ORDER PLACEMENT- MUST CONTACT 720-590-4334.

- In accordance with Arvada City Code Sec. 94-5, the roll off cannot be placed in whole or in part, upon any street, alley, sidewalk or public ground, without first obtaining a permit. It is Customer's responsibility to obtain any necessary permit. As such, in the absence of a permit, the roll off must be placed on Customer's driveway or property.
- **Only one roll off per contract term July 1st through June 30th for yard waste and solid waste will be accepted at the City Pricing Structure.**
- \$305.07 for solid waste haul rate and disposal up to 4 tons. Any disposal above 4 tons will be charged at \$30.00 per ton. Up to 14- days rental.
- \$415.77 for yard waste haul and yard waste processing for up to 14-days rental.
- THE CUSTOMER MUST SCHEDULE THE ROLL OFF REMOVAL BY THE 14TH DAY (EXCLUDING SATURDAY AND SUNDAY).

If Republic is unable to remove the roll off due to excessive weight, inability to access the roll off or the inclusion of unauthorized materials, the customer will be liable for a \$253.00 Dry Run Fee. This fine amount will be set throughout the City's contract term.

- Inclusion of unauthorized material found in container: Republic will not dispose of unauthorized items on the customer's behalf. Instead, Republic will return the items to the customer to dispose of. Fees will be assessed as follows: \$50.00 per unauthorized item, a Dry Run Fee (\$253.00) to return the roll off to the customer and a roll off rental fee (dependent on type of roll off rented) for the return of the unauthorized items to the customers for disposal. Customer must then schedule the roll off removal with Republic within the 14 day rental period.
- Organic materials shall not be mixed with other non-organic waste. Organic waste should not be bagged.
- Rentals fees will apply after 14 days – \$100.00 per month, prorated daily.

WASTE MATERIALS. The Waste Materials shall not contain any hazardous materials, wastes or substances; toxic substances, wastes or pollutants; contaminants; pollutants; infectious wastes; medical wastes; or radioactive wastes (collectively, "Excluded Waste"), each as defined by applicable federal, state or local laws or regulations (collectively, "Applicable Laws"). **CUSTOMER SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS COMPANY FROM AND AGAINST ANY AND ALL CLAIMS, DAMAGES, SUITS, PENALTIES, FINES, REMEDIATION COSTS, AND LIABILITIES (INCLUDING COURT COSTS AND REASONABLE ATTORNEYS' FEES) (COLLECTIVELY "LOSSES") RESULTING FROM THE INCLUSION OF EXCLUDED WASTE IN THE WASTE MATERIALS.**

TITLE. Company shall acquire title to Waste Materials when they are loaded onto Company's truck. Title to and liability for any Excluded Waste shall remain with Customer and shall at no time pass to Company.

USE OF THE CONTAINER.

- Company will not haul Excluded Waste (as defined above).
- Company will not accept drums, medical waste, hazardous waste, freezers, refrigerators, appliances containing freon, tires, batteries, electronics, paint, solvents, chemicals or other such materials which would be considered flammable or explosive or other materials not permitted to be disposed of at the designated disposal facility. If we are unable to haul an improperly loaded container, it will be the Customer's responsibility to off-load the impermissible materials and make the container permissible to haul, and Customer will be charged a Dry Run fee for each attempted trip.
- **If the container is loaded with extremely heavy material, such as block concrete, asphalt, or roofing, the container should be filled no more than half-way.** If

Company hauls an overloaded container, the Customer is responsible for all tickets, fines, etc. due to the weight of the container. If Company is unable to safely haul an overloaded container, it will be the Customer's responsibility to off-load enough material to allow the container to be safely hauled, and Customer will be charged a Dry Run fee for each attempted trip where hauling did not occur.

- Please do not load materials above the top of the container. If materials are loaded above the top of the container in a manner that prevents Company's safe hauling of the container, it will be the Customer's responsibility to off-load enough material to allow the container to be safely hauled, and Customer will be charged a Dry Run fee for each attempted trip where hauling did not occur.
- Please do not force back door closed. Complete container loading only after the door has been closed and latched.
- Please do not place any object(s) around the container which will restrict access by the Company's trucks. If a container is blocked, cannot be safely hauled due to conditions at the service location (e.g., ground too wet, icy or muddy, etc.), it will be the Customer's responsibility to remove the blockage or condition so Company can safely access the container(s). Customer will be charged a Dry Run fee for each attempted trip where hauling did not occur.
- Please do not move the container without prior written permission from Company.



REPORT TO CITY COUNCIL PUBLIC HEARING

AGENDA ITEM
11.A.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20 (Ordinance No. 4898) (Presenter: Deirdre Oster, Civil Engineer)

Report in Brief

Presenter: Deirdre Oster, Civil Engineer

Council action is requested on the attached Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20.

The Arvada team recommends that the City Council approve CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20.

Financial Impact

The acquisition of this right-of-way (fee simple right-of-way and easements) is necessary to facilitate construction of this project. Funding for ROW acquisition is estimated at approximately \$30,000 and available in the Pierce Street Sidewalk Project budget (Project No. PRJ21091639).

Background

This project will construct an ADA-compliant sidewalk along Pierce Street between West 60th Avenue and West 64th Avenue. This is a Safe Routes to School project that received a federal grant. The sidewalk will provide connection for pedestrians and school children. The project also includes new curb and gutter, drainage improvements, utility relocation, and street work.

Discussion

In order to complete construction, the acquisition of three fee simple rights-of-way and 27 temporary construction easements is necessary. The size, extent, and type of easement needs for each impacted property will be more specifically delineated as design progresses. Attached is a legal description and map describing the areas and locations of the proposed acquisitions.

Public Contact

Posting of the City Council agenda.

The City team conducted a survey of Secrest Elementary parents during the conceptual phase of the project. The survey provided feedback on existing student walking paths, desired student walking paths, and parent interest in having their children walk and bike to school.

Commission Recommendation

SUBJECT: CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20 (Ordinance No. 4898) (Presenter: Deirdre Oster, Civil Engineer)

PAGE: 2
ITEM: 11.A.

N/A

Strategic Alignment

This action aligns with the City Council Strategic Plan Priority Area of Infrastructure. This project provides safe, accessible, and efficient connections to modes of transportation, including streets, sidewalks, and bikeways, with a focus on improving safety and minimizing traffic congestion.

Alternative Courses of Action

N/A

Recommendation for Action

The Arvada team recommends approval of CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20.

Suggested Motion:

I move that CB25-012, An Ordinance Authorizing the Acquisition of Certain Property Along Pierce Street, Generally from West 60th Avenue to West 64th Avenue for the Construction of Street, Sidewalk, Utility, Drainage, and Other Related Improvements as part of the Pierce Street Sidewalk, Project No. 19-ST-20, be (approved on final reading, numbered 4898 and ordered published by title only) (rejected).

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Claudia Vaughan, City Engineer	5/28/2025
Jacqueline Rhoades, Director of Infrastructure	5/29/2025
Bryan Archer, Director of Finance	5/29/2025
Tammy Hedlund, Legal Specialist	5/30/2025
Kelsy Sargent, Assistant City Attorney	5/30/2025
Rachel Morris, City Attorney	6/3/2025
Linda Haley, Deputy City Manager	6/3/2025
Don Wick, City Manager	6/3/2025

Enclosure, exhibits & attachments required to support the report

COUNCIL BILL NO. 25-012

ORDINANCE NO. 4898

AN ORDINANCE AUTHORIZING THE ACQUISITION OF CERTAIN PROPERTY ALONG PIERCE STREET, GENERALLY FROM WEST 60TH AVENUE TO WEST 64TH AVENUE, FOR THE CONSTRUCTION OF STREET, SIDEWALK, UTILITY, DRAINAGE AND OTHER RELATED IMPROVEMENTS AS PART OF THE PIERCE STREET PROJECT, PROJECT NO. 19-ST-20

WHEREAS, the City of Arvada as a Colorado home rule municipality, under the authority of the Constitution of the State of Colorado; and

WHEREAS, it is vested with all powers of eminent domain and condemnation pursuant to Article XX of the Colorado Constitution and Chapter 13 of the Arvada Charter; and

WHEREAS, it is desirous of making certain street, sidewalk, utility, drainage, and/or related improvements as part of the improvements for Pierce Street, generally from West 60th Avenue to West 64th Avenue, Project ST-19-20.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ARVADA, COLORADO:

Section 1. It is hereby determined that it is necessary to the public health, safety, and welfare that certain sidewalk, street, utility, drainage, and/or related improvements be installed in those areas set forth in the title hereto (the “Project”) and as further described in Exhibit A, and that property interests are necessary to accomplish the Project and may be acquired by donation or negotiation and purchase if possible, and by condemnation if necessary, such Project being for and constituting a public purpose.

Section 2. The City Attorney and her designees are hereby specifically authorized to take any necessary and legal measures, including condemnation, to acquire the private real property interests within the area legally described in Exhibit A, or any portion thereof, as may be determined necessary for the Project, including requesting immediate possession thereof.

Section 3. The City Attorney and her designees are hereby authorized to amend the legal description of the parcels to be acquired, or any interest therein, as may be necessary in the course of acquiring the property necessary for the Project.

Section 4. The Mayor or her designee is authorized to execute purchase and sale agreements, memoranda of agreement, or related documents in furtherance of the acquisition(s) authorized herein.

Section 5. This ordinance shall take effect five (5) days after publication following final passage.

INTRODUCED, READ, AND ORDERED PUBLISHED this 3rd day of June, 2025.

PASSED, ADOPTED, AND APPROVED this 17th day of June, 2025.

Lauren Simpson, Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

Rachel A. Morris, City Attorney

By: _____

Publication Dates: June 5, 2025
June 19, 2025

Exhibit A

AN ORDINANCE AUTHORIZING THE ACQUISITION
OF CERTAIN PROPERTY ALONG PIERCE STREET,
GENERALLY FROM WEST 60TH AVENUE TO WEST
64TH AVENUE, FOR THE CONSTRUCTION OF
SIDEWALK, UTILITY, DRAINAGE AND OTHER
RELATED IMPROVEMENTS AS PART OF THE PIERCE
STREET PROJECT, PROJECT NO. 19-ST-20

**EXHIBIT A
PROPERTY DESCRIPTION
RIGHT OF WAY PARCEL NUMBER: RW-6
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A right of way parcel (RW-6) of Project No. 23-PW-046 over and across that parcel of land described as the north 83 feet of the east 160 feet of the north 167 feet of Tract 5 (5E), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2021078150 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 02°24'42" West, a distance of 632.64 feet to the east line of that parcel of land described as the north 83 feet of the east 160 feet of the north 167 feet of Tract 5 (5E), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2021078150 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE North 45°02'29" West, a distance of 9.92 feet to the north line of said Tract 5 (5E) and the south right of way line of W. 61st Avenue;

THENCE South 89°56'09" East, along said north line and said south right of way line, a distance of 7.00 feet to said east line of Tract 5 (5E) and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 7.00 feet to the Point of Beginning.

Containing 24 Square Feet, or 0.001 Acres, more or less.



**OWNER
KIRTI NAHAR AND
CHRISTOPHER D. ROCCA**

APN. 39-111-13-013
CALC: AVV DATE: 12/2/2024
DRWN: AVV JOB No. 1503-070
SHEET 1 OF 2

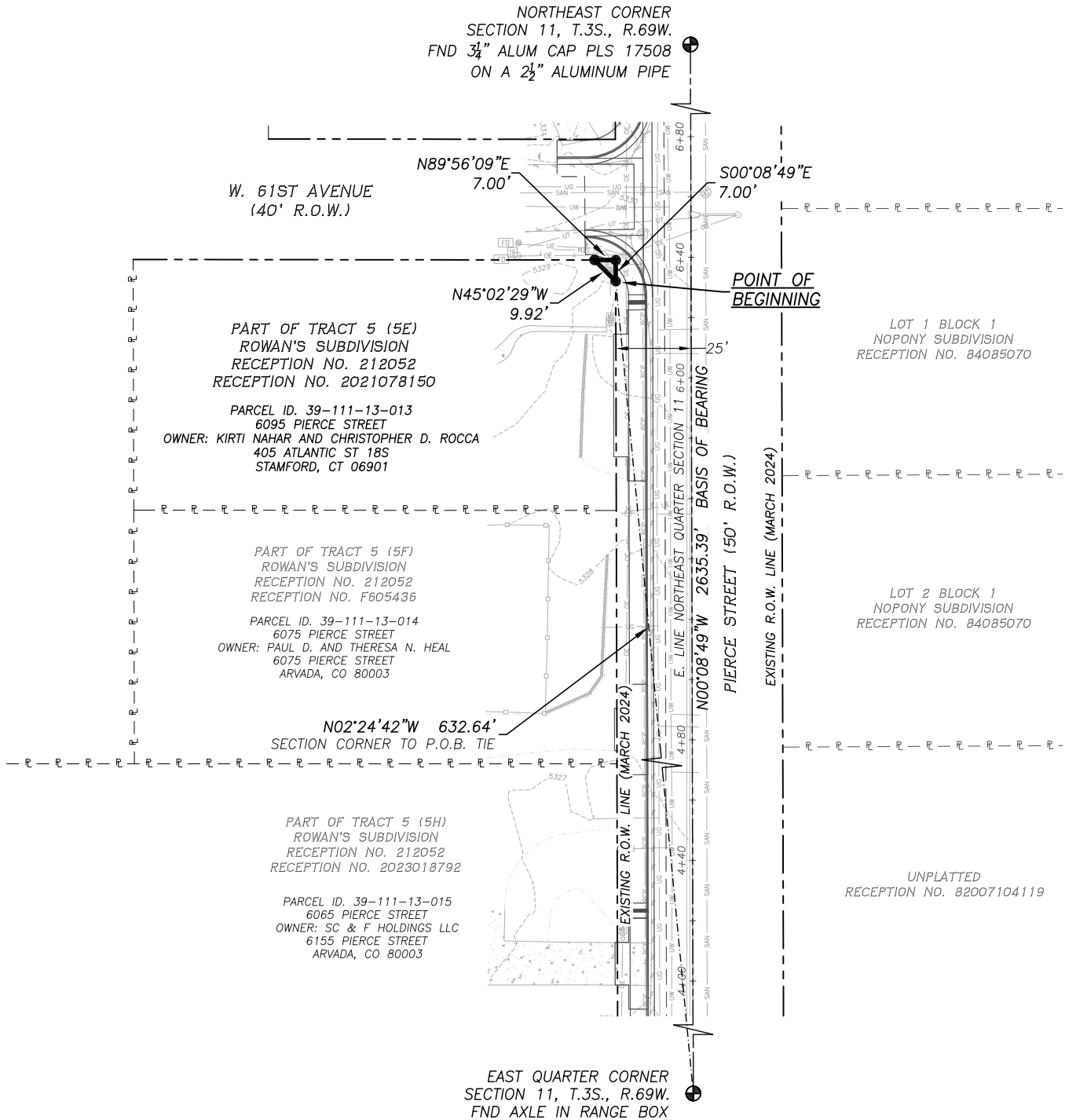
**RIGHT OF WAY
PARCEL NO. RW-6**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



ILLUSTRATION TO EXHIBIT A



OWNER

KIRTI NAHAR AND
CHRISTOPHER D. ROCCA

APN. 39-111-13-013

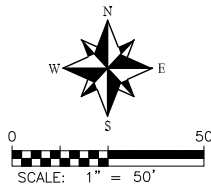
CALC: AVV DATE: 12/2/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

RIGHT OF WAY
PARCEL NO. RW-6

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
RIGHT OF WAY PARCEL NUMBER: RW-7
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A right of way parcel (RW-7) of Project No. 23-PW-046 over and across that parcel of land described as Lot 2, Fidelman Subdivision recorded at Reception No. 79065530 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 02°13'29" West, a distance of 689.60 feet to a point on the east line of Lot 2, Fidelman Subdivision recorded at Reception No. 79065530 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 10.00 feet to the southeast corner of said Lot 2;

THENCE North 89°56'09" West, along the south line of said Lot 2 and the north right of way line of W. 61st Avenue, a distance of 27.00 feet;

THENCE North 69°42'56" East, a distance of 28.76 feet to the east line of said Lot 2, said west right of way line and the Point of Beginning.

Containing 135 Square Feet, or 0.003 Acres, more or less.



OWNER LAURA M. COMPTON AND JACOB J. O'KEEFE	
APN. 39-111-11-017	
CALC: AVV	DATE: 10/25/2024
DRWN: AVV	JOB No. 1503-070
SHEET 1 OF 2	

RIGHT OF WAY PARCEL NO. RW-7
NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO

--

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.

**DALEY LAND
SURVEYING, INC.**

17011 LINCOLN AVE #361
PARKER, CO 80134

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3 $\frac{1}{4}$ " ALUM CAP PLS 17508
ON A 2 $\frac{1}{2}$ " ALUMINUM PIPE



SHEET 2 OF 2

**DALEY LAND
SURVEYING, INC.**
17011 LINCOLN AVE #361
PARKER, CO 80134

**EXHIBIT A
PROPERTY DESCRIPTION
RIGHT OF WAY PARCEL NUMBER: RW-14
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A right of way parcel (RW-14) of Project No. 23-PW-046 over and across that parcel of land described as Lot 38, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°05'08" West, a distance of 1345.46 feet to the east line of that parcel of land described as Lot 38, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE along said east line and said west right of way line along a curve to the right an arc length of 15.71 feet, said curve having a radius of 15.00 feet, a delta angle of 60°00'00", a chord bearing of South 60°03'49" West, and a chord length of 15.00 feet to the south line of said Lot 38 and the north right of way line of W. 62nd Avenue;

THENCE North 89°56'11" West, along said south line and said north right of way line, a distance of 23.44 feet to the southwest corner of said Lot 38;

THENCE North 25°33'03" West, along the west line of said Lot 38, a distance of 8.32 feet;

THENCE South 89°56'11" East, a distance of 40.03 feet to the Point of Beginning.

Containing 258 Square Feet, or 0.006 Acres, more or less.



**OWNER
JOHN D. DUNLOP AND
XUE LIU DUNLOP**

APN. 39-111-01-008
CALC: AVV DATE: 10/31/2024
DRWN: AVV JOB No. 1503-070
SHEET 1 OF 2

**RIGHT OF WAY
PARCEL NO. RW-14**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

LOT 39
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
PARCEL ID. 39-111-01-007
6215 PIERCE STREET
OWNER: HEATON FAMILY TRUST
5704 FIG WAY
ARVADA, CO 80002

LOT 38
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
PARCEL ID. 39-111-01-008
6205 PIERCE STREET
OWNER: JOHN D. DUNLOP AND
XUE LIU DUNLOP
6205 PIERCE STREET
ARVADA, CO 80003

LOT 37
CHERYL CREST
(PART TWO)
RECEPTION NO.
602056

NORTHEAST QUARTER
SECTION 11
T.3S., R.69W.

WESTERHOFF SUBDIVISION
RECEPTION NO. 54588700

W. 62ND AVENUE
(45' R.O.W.)

W. 62ND AVENUE

NORTH SIXTEENTH CORNER
SECTION 11/12, T.3S., R.69W.
CALCULATED POSITION:

N01°05'08"W 1345.46'
SECTION CORNER TO P.O.B. TIE

LOT 1 AND 2
RESUBDIVISION OF THE EAST 1/2
OF TRACT 1 ROWAN'S SUBDIVISION
RECEPTION NO. 60832132
PARCEL ID. 39-111-11-011
6820 W. 62ND AVENUE
OWNER: ABIGAIL E AND MICHAEL P. GRIFFITH
6820 W. 62ND AVENUE
ARVADA, CO 80003

DEMANSKIS SUBDIVISION
RECEPTION NO. 52539532

EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

POINT OF
BEGINNING

A=15.71'
R=15.00'
D=60°00'00"
CH. BRG.=S60°03'49"W
CH. D. =15.00'

OWNER

JOHN D. DUNLOP AND
XUE LIU DUNLOP

APN. 39-111-01-008

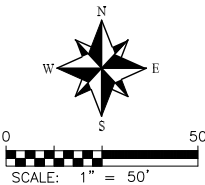
CALC: AVV DATE: 10/31/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

RIGHT OF WAY
PARCEL NO. RW-14

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-4
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-4) of Project No. 23-PW-046 over and across that parcel of land described as part of Tract 5 (5H), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2023018792 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 03°45'06" West, a distance of 397.64 feet to the east line of said Tract 5 (5H), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2023018792 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 4.00 feet;

THENCE North 00°08'49" West, a distance of 18.00 feet;

THENCE North 89°51'11" East, a distance of 4.00 feet to said east line of Tract 5 (5H) and said west right of way line of Pierce Street;

THENCE South 00°08'49" East, along said east line of Tract 5 (5H) and said west right of way line of Pierce Street a distance of 18.00 feet to the Point of Beginning.

Containing 72 Square Feet, or 0.002 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

OWNER
SC & F HOLDINGS LLC

APN. 39-111-13-015

CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 1 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-4**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



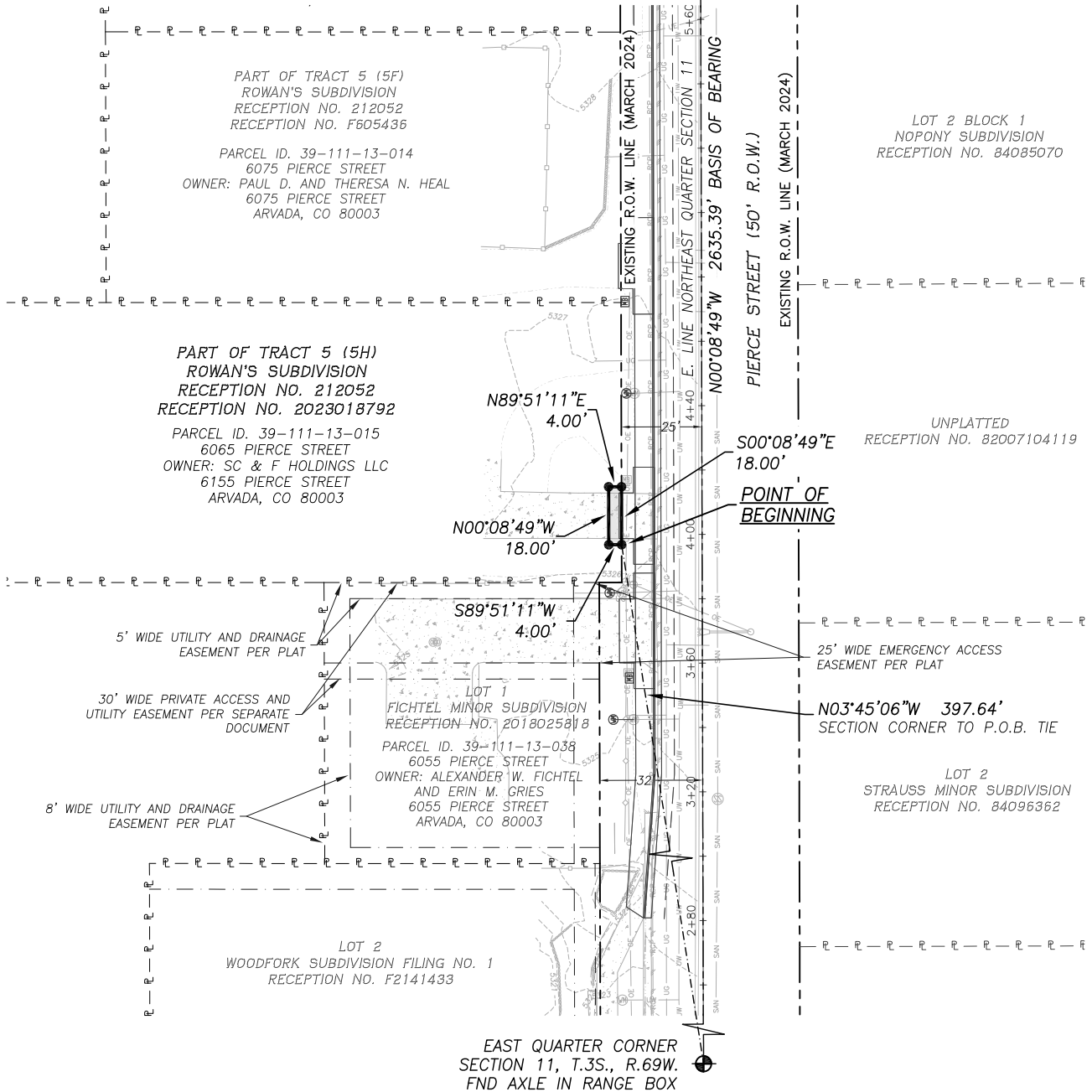
FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND $\frac{3}{4}$ " ALUM CAP PLS 17508
ON A $\frac{1}{2}$ " ALUMINUM PIPE



OWNER

SC & F HOLDINGS LLC

APN. 39-111-13-015

CALC: AVV

DATE: 4/18/2024

DRWN: AVV

JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-4

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



0 50
SCALE: 1" = 50'

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-5
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-5) of Project No. 23-PW-046 over and across that parcel of land described as the south 84 feet of the east 160 feet of the north 167 feet of Tract 5 (5F), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F605436 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 03°09'47" West, a distance of 475.14 feet to the west right of way line of Pierce Street, the east line of the south 84 feet of the east 160 feet of the north 167 feet of Tract 5 (5F), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F605436 in the records of Jefferson County, Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F605436 in the records of Jefferson County and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 4.00 feet;

THENCE North 00°08'49" West, a distance of 18.00 feet;

THENCE North 89°51'11" East, a distance of 4.00 feet to said east line of Tract 5 (5F) and said west right of way line of Pierce Street;

THENCE South 00°08'49" East, along said east line and said west right of way line of Pierce Street, a distance of 18.00 feet to the Point of Beginning.

Containing 72 Square Feet, or 0.002 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

OWNER PAUL D. AND THERESA N. HEAL		TEMPORARY EASEMENT PARCEL NO. TE-5 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY. DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134
APN. 39-111-13-014			
CALC: AVV	DATE: 12/2/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			



ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

W. 61ST AVENUE
(40' R.O.W.)

PART OF TRACT 5 (5E)
ROWAN'S SUBDIVISION
RECEPTION NO. 212052
RECEPTION NO. 2021078150

PARCEL ID. 39-111-13-013
6095 PIERCE STREET
OWNER: KIRTI NAHAR AND CHRISTOPHER D. ROCCA
405 ATLANTIC ST 18S
STAMFORD, CT 06901

PART OF TRACT 5 (5F)
ROWAN'S SUBDIVISION
RECEPTION NO. 212052
RECEPTION NO. F605436
PARCEL ID. 39-111-13-014
6075 PIERCE STREET
OWNER: PAUL D. AND THERESA N. HEAL
6075 PIERCE STREET
ARVADA, CO 80003

PART OF TRACT 5 (5H)
ROWAN'S SUBDIVISION
RECEPTION NO. 212052
RECEPTION NO. 2023018792

PARCEL ID. 39-111-13-015
6065 PIERCE STREET
OWNER: SC & F HOLDINGS LLC
6155 PIERCE STREET
ARVADA, CO 80003

LOT 1 BLOCK 1
NOPONY SUBDIVISION
RECEPTION NO. 84085070

LOT 2 BLOCK 1
NOPONY SUBDIVISION
RECEPTION NO. 84085070

UNPLATTED
RECEPTION NO. 82007104119

EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

EXISTING R.O.W. LINE (MARCH 2024)

EXISTING R.O.W. LINE (MARCH 2024)

N00°08'49"W 2635.39' BASIS OF BEARING

PIERCE STREET (50' R.O.W.)

S00°08'49"E
18.00'
POINT OF
BEGINNING

N89°51'11"E
4.00'
N00°08'49"W
18.00'

S89°51'11"W
4.00'

N03°09'47"W 475.14'
SECTION CORNER TO P.O.B. TIE

OWNER

PAUL D. AND
THERESA N. HEAL

APN. 39-111-13-014

CALC: AVV DATE: 12/2/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-5

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



0 50
SCALE: 1" = 50'

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-6
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-6) of Project No. 23-PW-046 over and across that parcel of land described as the north 83 feet of the east 160 feet of the north 167 feet of Tract 5 (5E), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2021078150 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 02°39'16" West, a distance of 571.45 feet to the east line of that parcel of land described as the north 83 feet of the east 160 feet of the north 167 feet of Tract 5 (5E), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2021078150 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 4.00 feet;

THENCE North 00°08'49" West, a distance of 48.00 feet;

THENCE South 89°51'11" West, a distance of 3.00 feet;

THENCE North 00°08'49" West, a distance of 15.00 feet;

THENCE South 89°51'11" West, a distance of 8.00 feet;

THENCE North 00°08'49" West, a distance of 5.30 feet to the north line of said Tract 5 (5E) and the south right of way line of W. 61st Avenue;

THENCE South 89°56'09" East, along said north line and said south right of way line, a distance of 8.00 feet;

THENCE South 45°02'29" East, a distance of 9.92 feet to said east line of Tract 5 (5E) and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 61.24 feet to the Point of Beginning.

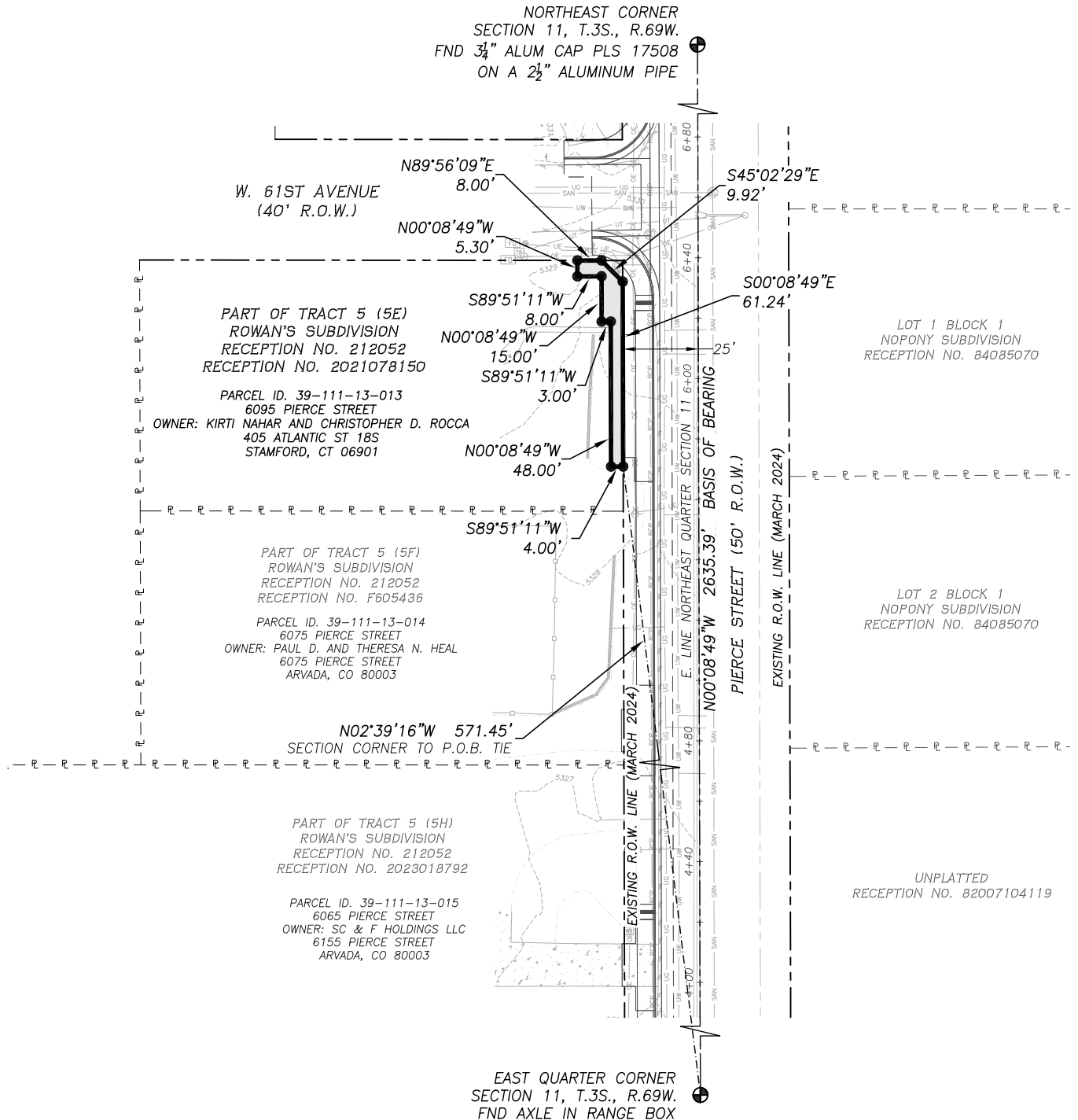
Containing 352 Square Feet, or 0.008 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



OWNER KIRTI NAHAR AND CHRISTOPHER D. ROCCA		TEMPORARY EASEMENT PARCEL NO. TE-6	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-13-013			
CALC: AVV	DATE: 12/2/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT B



OWNER

**KIRTI NAHAR AND
CHRISTOPHER D. ROCCA**

APN. 39-111-13-013

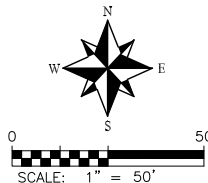
CALC: AVV DATE: 12/2/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-6**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-7
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-7) of Project No. 23-PW-046 over and across that parcel of land described as Lot 2, Fidelman Subdivision recorded at Reception No. 79065530 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 02°13'29" West, a distance of 689.60 feet to a point on the east line of Lot 2, Fidelman Subdivision recorded at Reception No. 79065530 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 69°42'56" West, a distance of 28.76 feet to the south line of said Lot 2 and the north right of way line of West 61st Avenue;

THENCE North 89°56'09" West, along said south line and said north right of way line, a distance of 2.00 feet;

THENCE North 56°46'09" East, a distance of 34.61 feet to said east line of Lot 2 and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line a distance of 9.00 feet to the Point of Beginning.

Containing 141 Square Feet, or 0.003 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

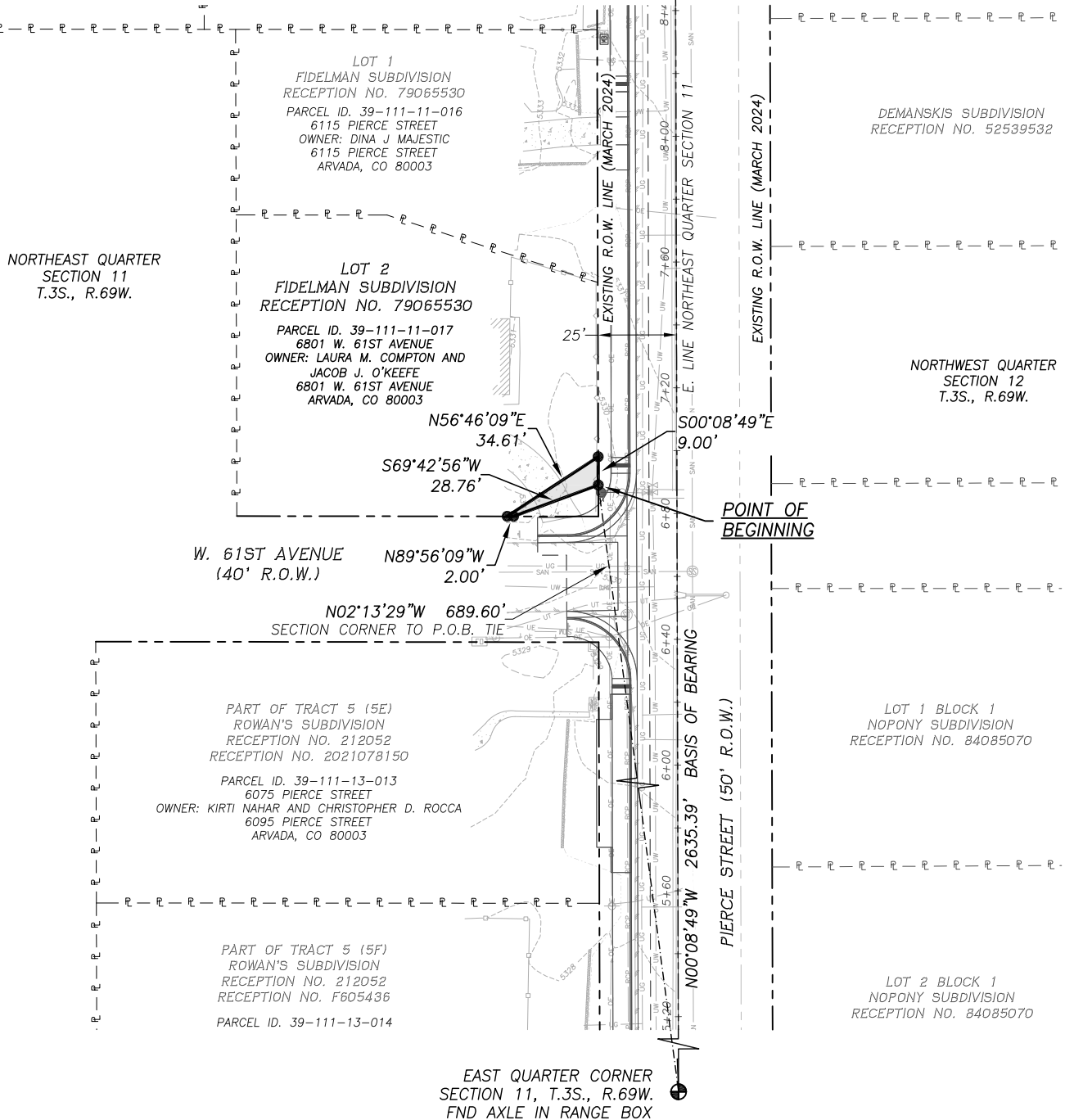


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER LAURA M. COMPTON AND JACOB J. O'KEEFE		TEMPORARY EASEMENT PARCEL NO. TE-7 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-11-017			
CALC: AVV	DATE: 10/25/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			

ILLUSTRATION TO EXHIBIT B

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE



OWNER

**LAURA M. COMPTON AND
JACOB J. O'KEEFE**

APN. 39-111-11-017

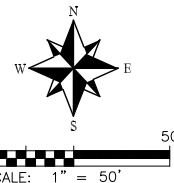
CALC: AVV DATE: 10/25/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-7**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-8
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-8) of Project No. 23-PW-046 over and across that parcel of land described as Lot 1, Fidelman Subdivision recorded at Reception No. 79065530 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°57'06" West, a distance of 793.86 feet to a point on the east line of Lot 1, Fidelman Subdivision recorded at Reception No. 79065530 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE North 89°56'09" West, a distance of 3.00 feet;

THENCE North 00°08'49" West, a distance of 14.82 feet;

THENCE South 89°56'09" East, a distance of 3.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East along said east line and said west right of way line, a distance of 14.82 feet to the Point of Beginning.

Containing Containing 44 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER DINA J. MAJESTIC		TEMPORARY EASEMENT PARCEL NO. TE-8	NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-11-016				
CALC: AVV	DATE: 10/25/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 1 OF 2				DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

PART OF TRACT 4 (4A) ROWAN'S SUBDIVISION
RECEPTION NO. 212052
RECEPTION NO. F0296746

PARCEL ID. 39-111-11-014
6145 PIERCE STREET
OWNER: RICHARD F. AND SHIRLEY A. NEALE
6145 PIERCE STREET
ARVADA, CO 80003

PART OF TRACT 4 (4J) ROWAN'S SUBDIVISION
RECEPTION NO. 212052
RECEPTION NO. 2022024958

PARCEL ID. 39-111-11-015
6135 PIERCE STREET
OWNER: MICHAEL CHAMBERLAIN
AND KATIE TUCK
6135 PIERCE STREET
ARVADA, CO 80003

LOT 1
FIDELMAN SUBDIVISION
RECEPTION NO. 79065530

PARCEL ID. 39-111-11-016
6115 PIERCE STREET
OWNER: DINA J MAJESTIC
6115 PIERCE STREET
ARVADA, CO 80003

LOT 2
FIDELMAN SUBDIVISION
RECEPTION NO. 79065530

PARCEL ID. 39-111-11-017
6801 W. 61ST AVENUE
OWNER: LAURA M. COMPTON AND
JACOB J. O'KEEFE
6801 W. 61ST AVENUE
ARVADA, CO 80003

NORTHEAST QUARTER
SECTION 11
T.3S., R.69W.

DEMANSKIS SUBDIVISION
RECEPTION NO. 52539532

NORTHWEST QUARTER
SECTION 12
T.3S., R.69W.

W. 61ST AVENUE
(40' R.O.W.)

N01°57'06"W 793.86'
SECTION CORNER TO P.O.B. TIE

EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

OWNER

DINA J. MAJESTIC

APN. 39-111-11-016

CALC: AVV DATE: 10/25/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-8

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



0 50
SCALE: 1" = 50'

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-9
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-9) of Project No. 23-PW-046 over and across that parcel of land described as the east 125 feet of the north 75 feet of the south 229.78 feet of Tract 4 (4J), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2022024958 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°45'55" West, a distance of 885.28 feet to east line of that parcel of land described as the east 125 feet of the north 75 feet of the south 229.78 feet of Tract 4 (4J), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. 2022024958 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 3.00 feet;

THENCE North 00°08'49" West, a distance of 24.01 feet to the north line of said parcel described at Reception No. 2022024958 (4J) (portion of Tract 4) and the south line of that parcel described at Reception No. F0296746 (4A) (portion of Tract 4);

THENCE South 89°56'09" East, along said north line and said south line, a distance of 3.00 feet to the northeast corner of said parcel described at Reception No. 202202958 (4J) (portion of Tract 4);

THENCE South 00°08'49" East, along the east line of said Tract 4 (4J) and said west right of way line of Pierce Street, a distance of 24.00 feet to the Point of Beginning.

Containing 72 Square Feet, or 0.002 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER
MICHAEL CHAMBERLAIN
AND KATIE TUCK

APN. 39-111-11-015
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070

SHEET 1 OF 2

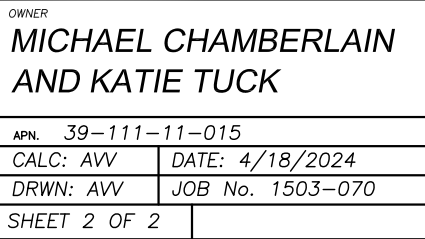
TEMPORARY EASEMENT
PARCEL NO. TE-9

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3 $\frac{1}{4}$ " ALUM CAP PLS 17508
ON A 2 $\frac{1}{2}$ " ALUMINUM PIPE



NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-10
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-10) of Project No. 23-PW-046 over and across that parcel of land described as the east 255.31 feet of Tract 4 except the south 229.78 feet of Rowan's Subdivision together with the west 130.31 feet of the east 255.31 feet of the north 75 feet of the south 229.78 feet of TRACT 4 (4A) Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F0296746 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°42'22" West, a distance of 918.79 feet to east line of that parcel of land described as the east 255.31 feet of Tract 4 except the south 229.78 feet of Rowan's Subdivision together with the west 130.31 feet of the east 255.31 feet of the north 75 feet of the south 229.78 feet of Tract 4 (4A), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F0296746 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 4.00 feet;

THENCE North 00°08'49" West, a distance of 22.00 feet;

THENCE North 89°51'11" East, a distance of 4.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 22.00 feet to the Point of Beginning.

Containing 88 Square Feet, or 0.002 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER RICHARD F. AND SHIRLEY A. NEALE		TEMPORARY EASEMENT PARCEL NO. TE-10 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-11-014			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
			

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3 $\frac{1}{4}$ " ALUM CAP PLS 17508
ON A 2 $\frac{1}{2}$ " ALUMINUM PIPE



APN. 39-111-11-014	
CALC: AVV	DATE: 4/18/2024
DRWN: AVV	JOB No. 1503-070
SHEET 2 OF 2	

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-10A
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-10A) of Project No. 23-PW-046 over and across that parcel of land described as the east 255.31 feet of Tract 4 except the south 229.78 feet of Rowan's Subdivision together with the west 130.31 feet of the east 255.31 feet of the north 75 feet of the south 229.78 feet of TRACT 4 (4A) Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F0296746 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°36'05" West, a distance of 985.02 feet to east line of that parcel of land described as the east 255.31 feet of Tract 4 except the south 229.78 feet of Rowan's Subdivision together with the west 130.31 feet of the east 255.31 feet of the north 75 feet of the south 229.78 feet of Tract 4 (4A), Rowan's Subdivision recorded at Reception No. 212052 and Reception No. F0296746 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 4.00 feet;

THENCE North 00°08'49" West, a distance of 4.00 feet to the north line of said parcel described at Reception No. F0296746 (portion of Tract 4 (4A)) and the south line of Lot 6, Resubdivision of the East 1/2 of Tract 1, Rowan's Subdivision recorded at Reception No. 60832132 in the records of Jefferson County;

THENCE North 89°49'17" East, along said north line and said south line, a distance of 4.00 feet to the northeast corner of said portion of Tract 4 (4A) and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 4.00 feet to the Point of Beginning.

Containing 16 Square Feet, or 0.001 Acres, more or less.

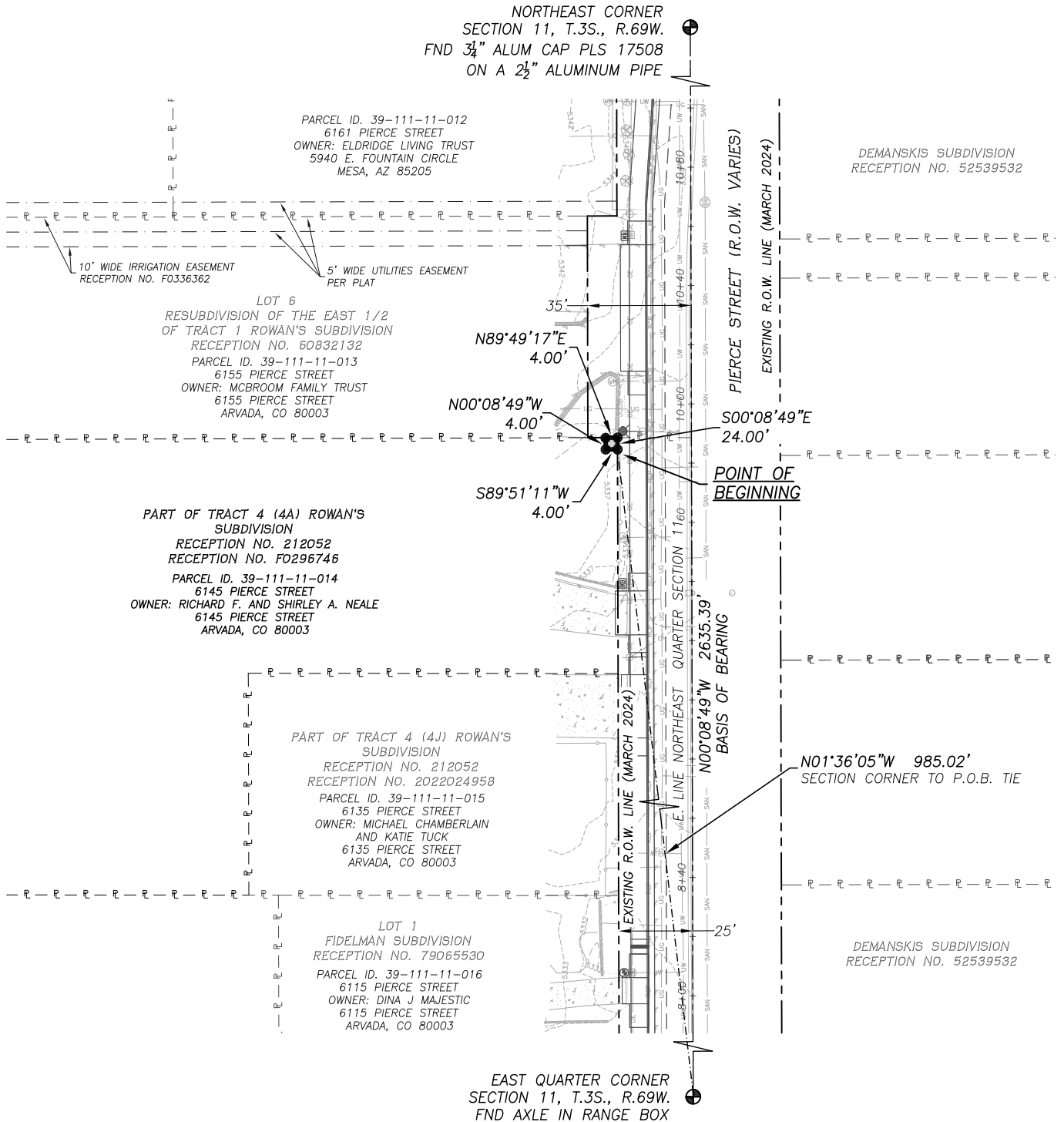
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER RICHARD F. AND SHIRLEY A. NEALE		TEMPORARY EASEMENT PARCEL NO. TE-10A	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-11-014			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT B



OWNER

**RICHARD F. AND
SHIRLEY A. NEALE**

APN. 39-111-11-014

CALC: AVV

DATE: 4/18/2024

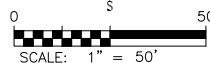
DRWN: AVV

JOB No. 1503-070

SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-10A**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-11
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-11) of Project No. 23-PW-046 over and across that parcel of land described as Lot 6, a resubdivision of the east half of Tract 1, Rowan's Subdivision, recorded at Reception No. 60832132 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 02°06'06" West, a distance of 1026.12 feet to a point on the east line of Lot 6, a resubdivision of the east half of Tract 1, Rowan's Subdivision, recorded at Reception No. 60832132 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 18.00 feet;

THENCE North 00°08'49" West, a distance of 30.00 feet;

THENCE North 89°51'11" East, a distance of 18.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East along said east line and said west right of way line, a distance of 30.00 feet to the Point of Beginning.

Containing Containing 540 Square Feet, or 0.012 Acres, more or less.

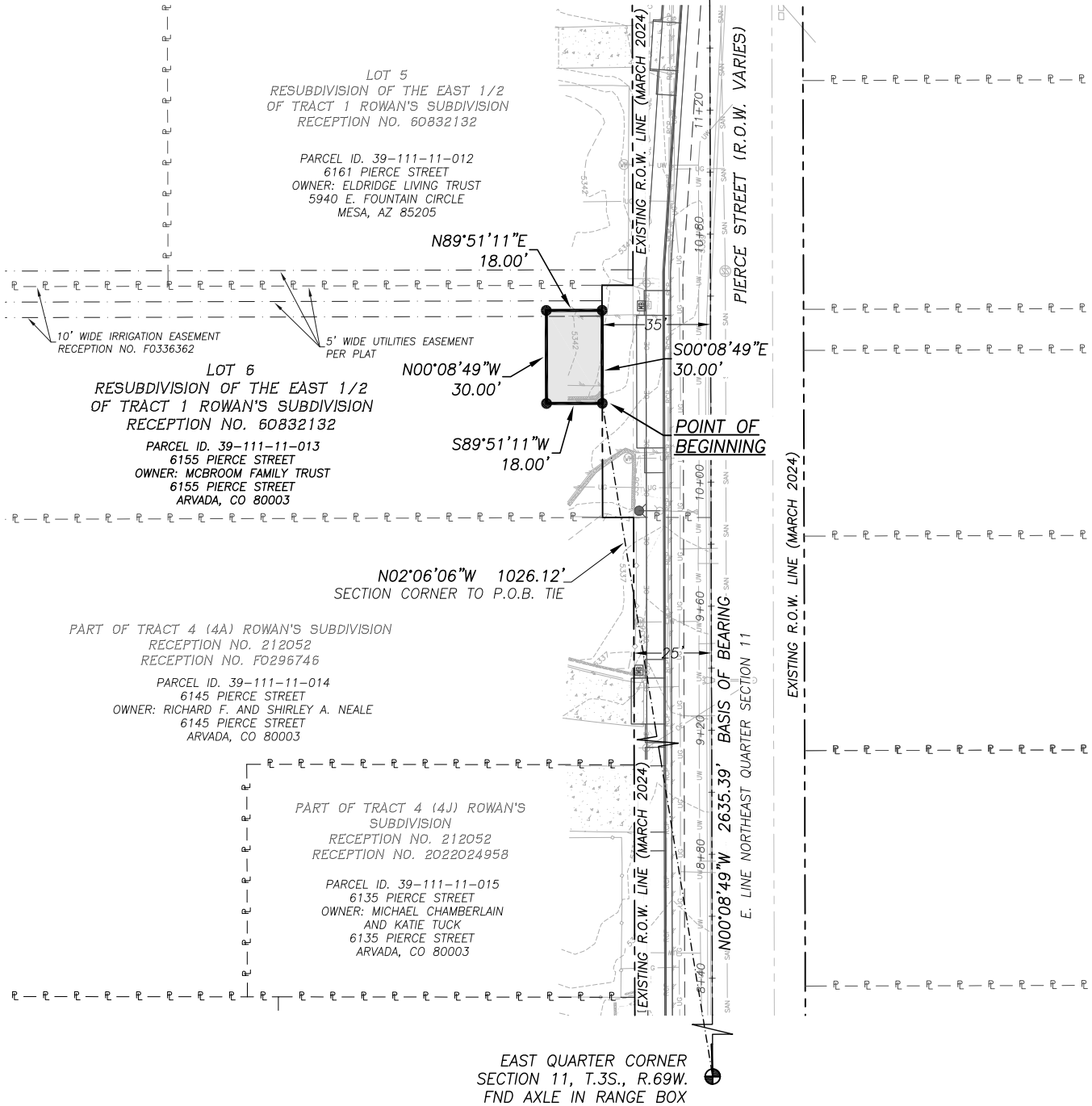
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



OWNER MCBROOM FAMILY TRUST		TEMPORARY EASEMENT PARCEL NO. TE-11 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-11-013			
CALC: AVV	DATE: 10/25/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE



OWNER

MCBROOM FAMILY TRUST

APN. 39-111-11-013

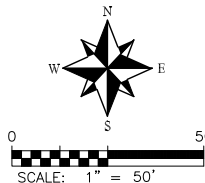
CALC: AVV DATE: 10/25/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-11**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-12
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-12) of Project No. 23-PW-046 over and across that parcel of land described as Lot 5, Resubdivision of the East 1/2 of Tract 1, Rowan's Subdivision recorded at Reception No. 60832132 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°29'37" West, a distance of 1063.89 feet to the southeast corner of that parcel of land described as Lot 5, Resubdivision of the East 1/2 of Tract 1, Rowan's Subdivision recorded at Reception No. 60832132 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°52'15" West, along the south line of said Lot 5, a distance of 5.00 feet;

THENCE North 00°08'49" West, a distance of 26.00 feet;

THENCE North 89°51'11" East, a distance of 5.00 feet to the east line of said Lot 5 and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 26.00 feet to the Point of Beginning.

Containing 130 Square Feet, or 0.003 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

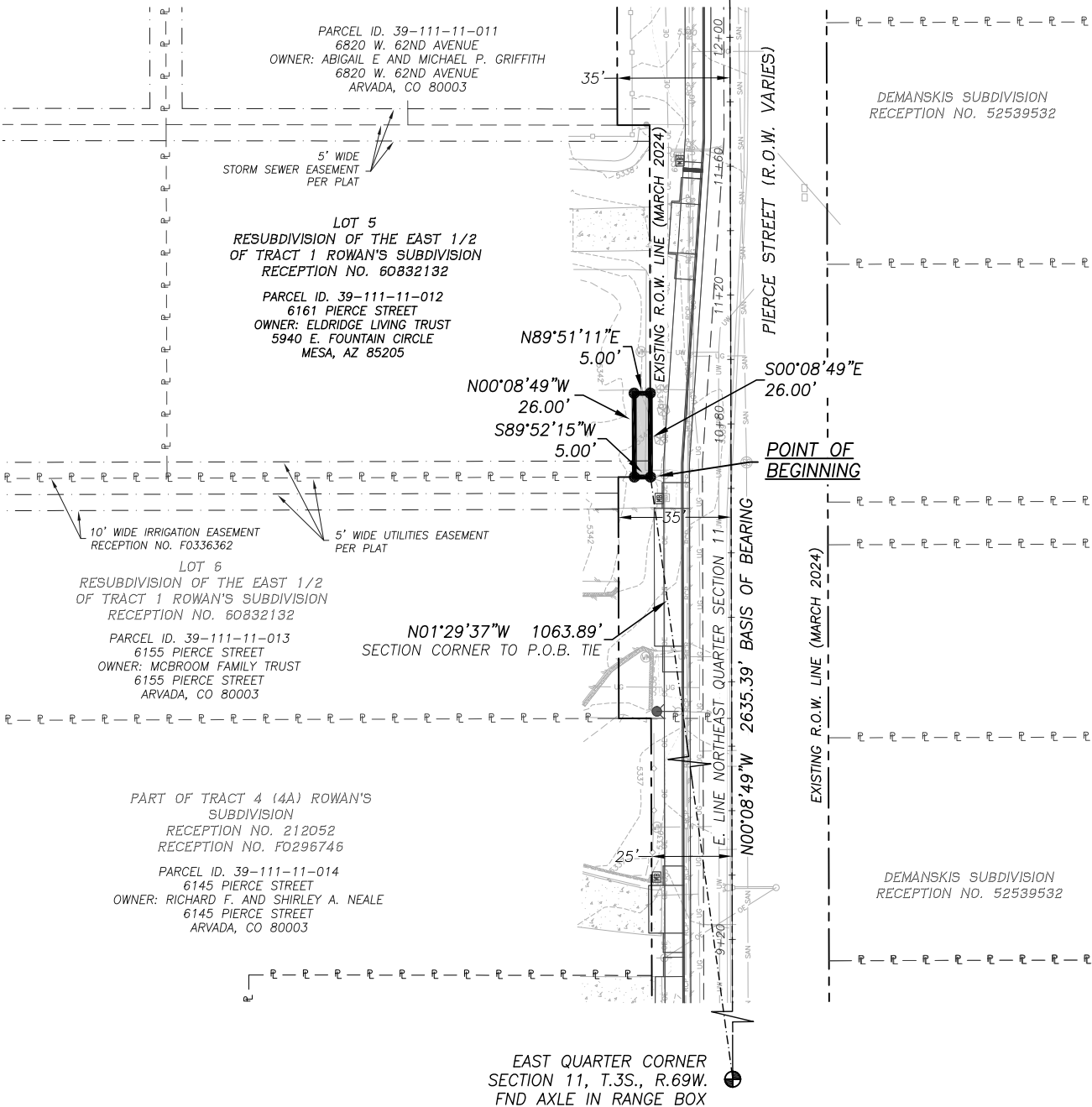


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER ELDRIDGE LIVING TRUST		TEMPORARY EASEMENT PARCEL NO. TE-12	NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.	
APN. 39-111-11-012					
CALC: AVV	DATE: 4/18/2024				
DRWN: AVV	JOB No. 1503-070				
SHEET 1 OF 2					
					

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE



OWNER

ELDRIDGE LIVING
TRUST

APN. 39-111-11-012

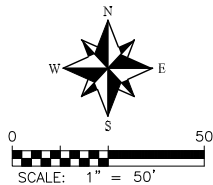
CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-12

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-13
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-13) of Project No. 23-PW-046 over and across that parcel of land described as Lot 1, Resubdivision of the East 1/2 of Tract 1, Rowan's Subdivision recorded at Reception No. 60832132 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°42'18" West, a distance of 1287.30 feet to the east line of that parcel of land described as Lot 1, Resubdivision of the East 1/2 of Tract 1, Rowan's Subdivision recorded at Reception No. 60832132 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE North 89°56'11" West, a distance of 7.00 feet;

THENCE North 00°08'49" West, a distance of 6.00 feet to the north line of said Lot 1 and the south right of way line of W. 62nd Avenue;

THENCE South 89°56'11" East, along said north line and said south right of way line, a distance of 2.06 feet;

THENCE along said north line and said south right of way line along a curve to the right an arc length of 5.04 feet, said curve having a radius of 15.00 feet, a delta angle of 19°15'38", a chord bearing of South 80°18'22" East, and a chord length of 5.02 feet to said east line and said west right of way line;

THENCE continuing along said east line and said west right of way line South 00°08'49" East, a distance of 5.16 feet to the Point of Beginning.

Containing 41 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

OWNER

**ABIGAIL E. AND
MICHAEL P. GRIFFITH**

APN. 39-111-11-011

CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 1 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-13**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO

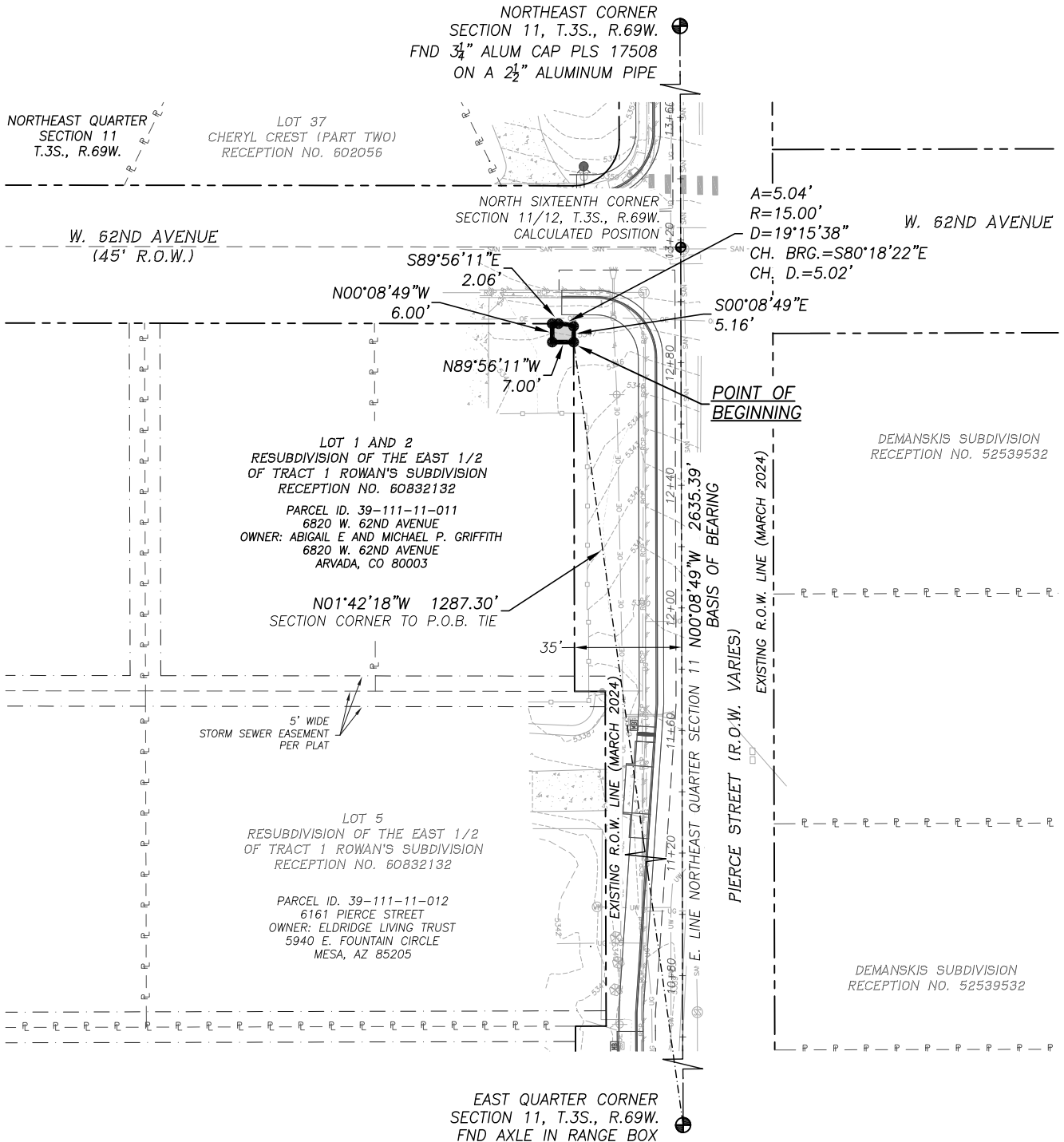


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



ILLUSTRATION TO EXHIBIT A



OWNER

**ABIGAIL E. AND
MICHAEL P. GRIFFITH**

APN. 39-111-11-011

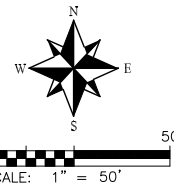
CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-13**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-14
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-14) of Project No. 23-PW-046 over and across that parcel of land described as Lot 38, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the East Quarter Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE North 01°05'08" West, a distance of 1345.46 feet to the east line of that parcel of land described as Lot 38, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE North 89°56'11" West, a distance of 40.03 feet to the westerly line of said Lot 38;

THENCE North 25°33'03" West, along said westerly line, a distance of 8.19 feet;

THENCE North 89°51'11" East, a distance of 45.58 feet to said east line and said west right of way line;

THENCE along said east line and said west right of way line along a curve to the right an arc length of 7.91 feet, said curve having a radius of 15.00 feet, a delta angle of 30°12'38", a chord bearing of South 14°57'30" West, and a chord length of 7.82 feet to the Point of Beginning.

Containing 323 Square Feet, or 0.007 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER JOHN D. DUNLOP AND XUE LIU DUNLOP		TEMPORARY EASEMENT PARCEL NO. TE-14	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-008			
CALC: AVV	DATE: 10/31/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT B

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

LOT 39
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
PARCEL ID. 39-111-01-007
6215 PIERCE STREET
OWNER: HEATON FAMILY TRUST
5704 FIG WAY
ARVADA, CO 80002

LOT 38
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
PARCEL ID. 39-111-01-008
6205 PIERCE STREET
OWNER: JOHN D. DUNLOP AND
XUE LIU DUNLOP
6205 PIERCE STREET
ARVADA, CO 80003

NORTHEAST QUARTER
SECTION 11
T.3S., R.69W.

LOT 37
CHERYL CREST
(PART TWO)
RECEPTION NO. 602056

WESTERHOFF SUBDIVISION
RECEPTION NO. 54588700

A=7.91'
R=15.00'
D=30°12'38"
CH. BRG.=S14°57'30"W.
CH. D.=7.82'

W. 62ND AVENUE
(45' R.O.W.)

W. 62ND AVENUE

NORTH SIXTEENTH CORNER
SECTION 11/12, T.3S., R.69W.
CALCULATED POSITION

N01°05'08"W 1345.46'
SECTION CORNER TO P.O.B. TIE

LOT 1 AND 2
RESUBDIVISION OF THE EAST 1/2
OF TRACT 1 ROWAN'S SUBDIVISION
RECEPTION NO. 60832132
PARCEL ID. 39-111-11-011
6820 W. 62ND AVENUE
OWNER: ABIGAIL E AND MICHAEL P. GRIFFITH
6820 W. 62ND AVENUE
ARVADA, CO 80003

DEMANSKIS SUBDIVISION
RECEPTION NO. 52539532

EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

OWNER

JOHN D. DUNLOP AND
XUE LIU DUNLOP

APN. 39-111-01-008

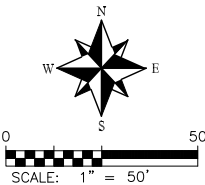
CALC: AVV DATE: 10/31/2024

DRWN: AVV JOB No. 1503-070

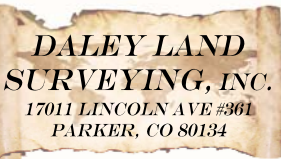
SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-14

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-15
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-15) of Project No. 23-PW-046 over and across that parcel of land described as Lot 39, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 00°51'52" West, a distance of 1132.89 feet to the east line of that parcel of land described as Lot 39, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 24.16 feet to the north line of said Lot 39;

THENCE North 89°50'50" East, along said north line, a distance of 2.00 feet to the northeast corner of said Lot 39;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 24.16 feet to the Point of Beginning.

Containing 48 Square Feet, or 0.001 Acres, more or less.

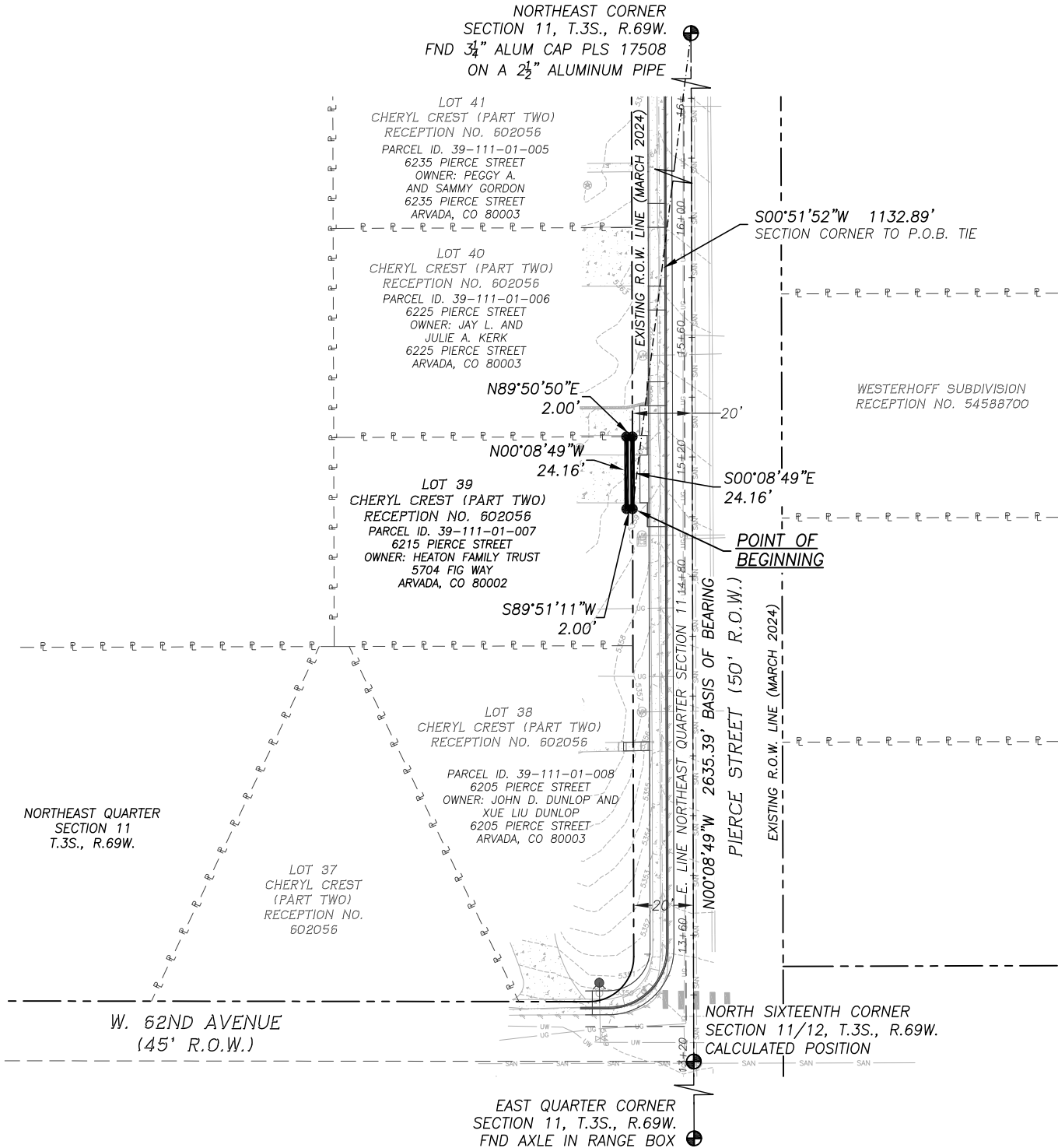
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER HEATON FAMILY TRUST		TEMPORARY EASEMENT PARCEL NO. TE-15	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-007			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT A



OWNER

HEATON FAMILY TRUST

APN. 39-111-01-007

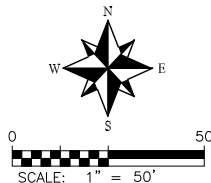
CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-15

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-16
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-16) of Project No. 23-PW-046 over and across that parcel of land described as Lot 40, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 00°53'12" East, a distance of 1108.73 feet to the southeast corner of that parcel of land described as Lot 40, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°50'50" West, along the south line of said Lot 40, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 12.35 feet;

THENCE North 89°51'11" East, a distance of 2.00 feet to the east line of said Lot 40 and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 12.35 feet to the Point of Beginning.

Containing 25 Square Feet, or 0.001 Acres, more or less.

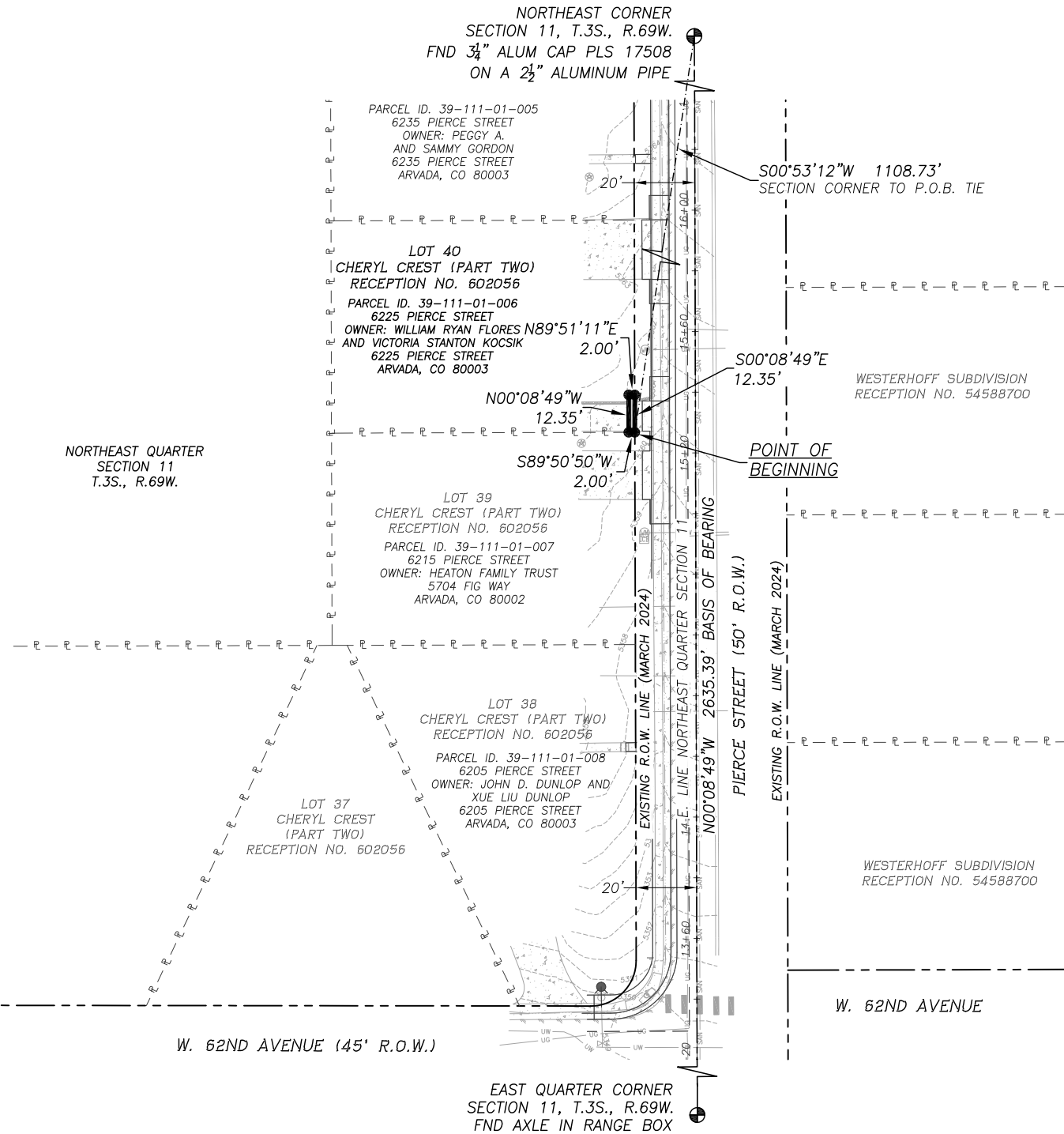
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER WILLIAM RYAN FLORES AND VICTORIA STANTON KOCSIK		TEMPORARY EASEMENT PARCEL NO. TE-16	NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-006				
CALC: AVV	DATE: 12/2/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 1 OF 2	REV. 2/18/2025			
		DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134		

ILLUSTRATION TO EXHIBIT A



OWNER WILLIAM RYAN FLORES AND VICTORIA STANTON KOCSIK		TEMPORARY EASEMENT PARCEL NO. TE-16		THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-006				
CALC: AVV	DATE: 12/2/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 2 OF 2	REV. 2/18/2025			
		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO		

EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-16A
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-16A) of Project No. 23-PW-046 over and across that parcel of land described as Lot 40, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 00°56'02" West, a distance of 1060.21 feet to the east line of that parcel of land described as Lot 40, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 21.43 feet to the north line of said Lot 40;

THENCE North 89°50'50" East, along said north line, a distance of 2.00 feet to the northeast corner of said Lot 40;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 21.43 feet to the Point of Beginning.

Containing 43 Square Feet, or 0.001 Acres, more or less.

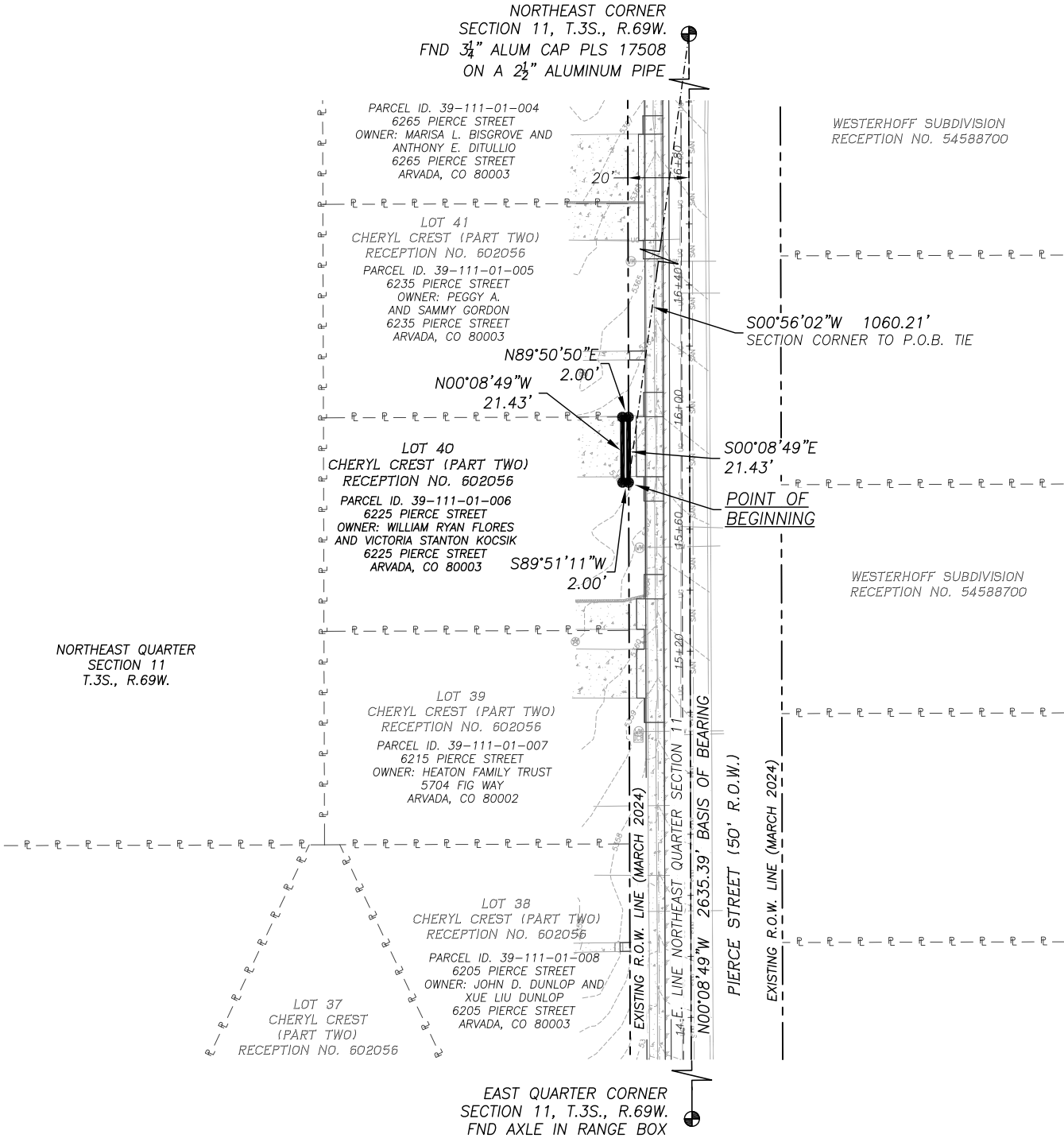
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER WILLIAM RYAN FLORES AND VICTORIA STANTON KOCSIK		TEMPORARY EASEMENT PARCEL NO. TE-16A	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-006			
CALC: AVV	DATE: 12/2/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2	REV. 2/18/2025	NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT B



OWNER WILLIAM RYAN FLORES AND VICTORIA STANTON KOCSIK		TEMPORARY EASEMENT PARCEL NO. TE-16A	 N W E S 0 50 SCALE: 1" = 50'	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-006				
CALC: AVV	DATE: 12/2/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 2 OF 2	REV. 2/18/2025			
NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO		 DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134		

EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-17A
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-17A) of Project No. 23-PW-046 over and across that parcel of land described as Lot 41, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 01°01'08" West, a distance of 982.85 feet to the east line of that parcel of land described as Lot 41, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 14.00 feet to the north line of said Lot 41;

THENCE North 89°50'50" East, along said north line, a distance of 2.00 feet to the northeast corner of said Lot 41;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 14.00 feet to the Point of Beginning.

Containing 28 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

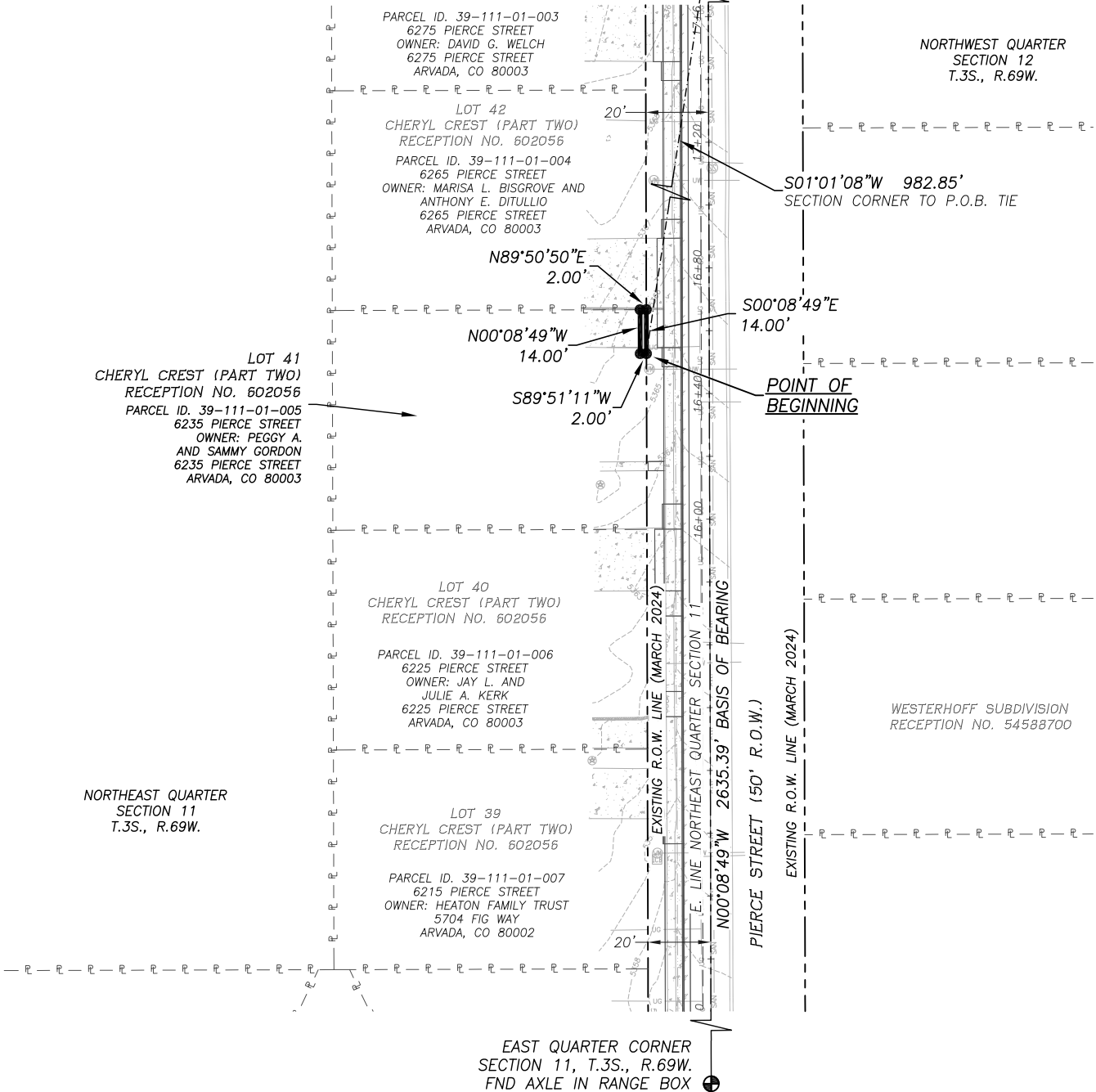


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER PEGGY A. AND SAMMY GORDON		TEMPORARY EASEMENT PARCEL NO. TE-17A NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY. 
APN. 39-111-01-005			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			

ILLUSTRATION TO EXHIBIT B

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE



OWNER

PEGGY A. AND
SAMMY GORDON

APN. 39-111-01-005

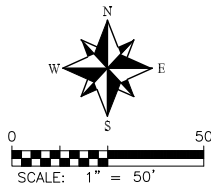
CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-17A

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-18
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-18) of Project No. 23-PW-046 over and across that parcel of land described as Lot 42, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
THENCE South 01°02'09" West, a distance of 968.86 feet to the southeast corner of that parcel of land described as Lot 42, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°50'50" West, along the south line of said Lot 42, a distance of 2.00 feet;
THENCE North 00°08'49" West, a distance of 25.00 feet;
THENCE North 89°51'11" East, a distance of 2.00 feet to said east line and said west right of way line;
THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 25.00 feet to the Point of Beginning.

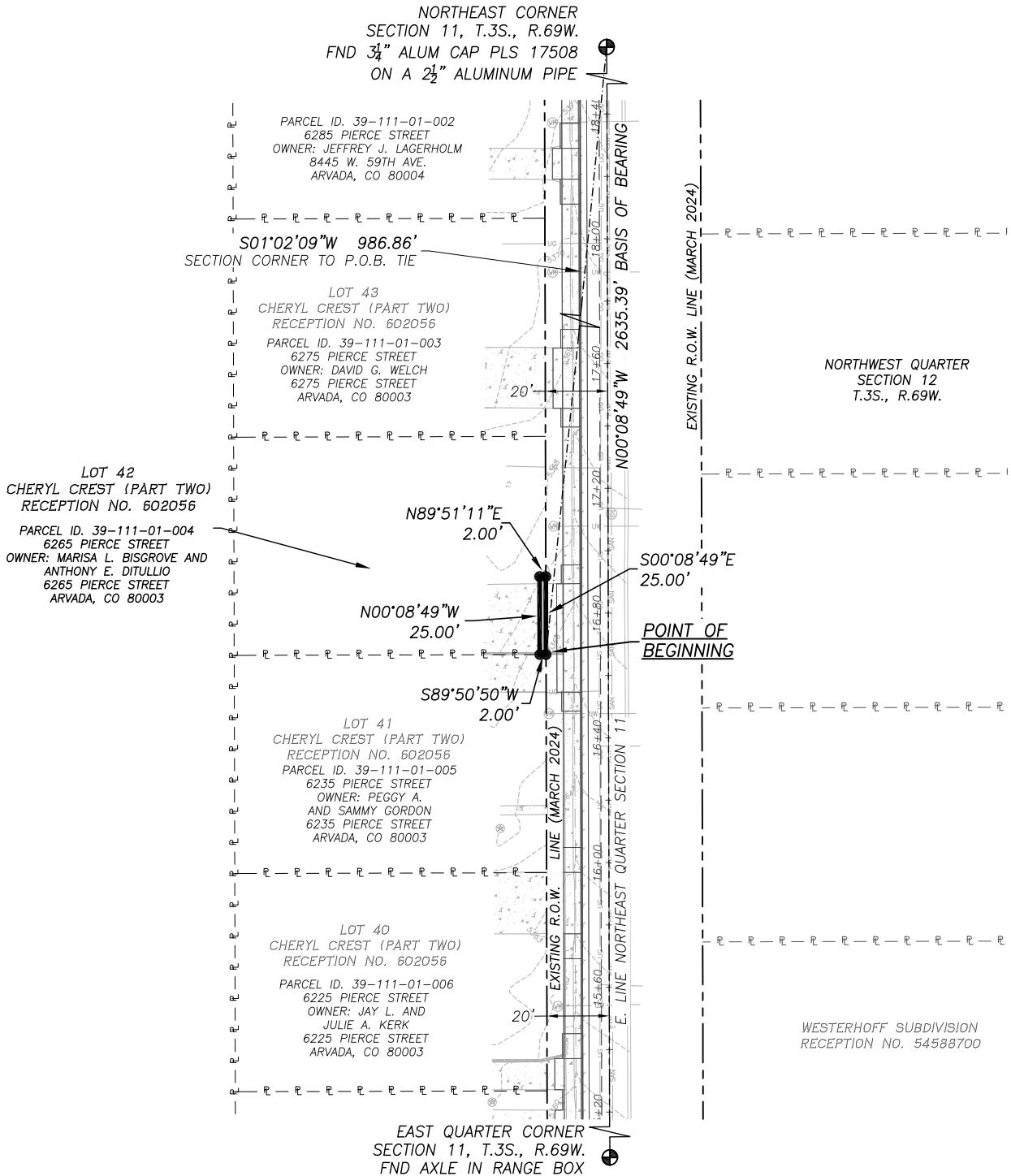
Containing 50 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



OWNER MARISA L. BISGROVE AND ANTHONY E. DITULLIO		TEMPORARY EASEMENT PARCEL NO. TE-18 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-004			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
			

ILLUSTRATION TO EXHIBIT A

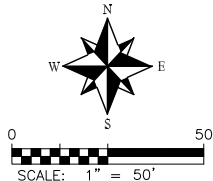


OWNER
**MARISA L. BISGROVE AND
ANTHONY E. DITULLIO**

APN. 39-111-01-004
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-18**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.

**DALEY LAND
SURVEYING, INC.**
17011 LINCOLN AVE #361
PARKER, CO 80134

EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-19
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-19) of Project No. 23-PW-046 over and across that parcel of land described as Lot 43, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 01°08'14" West, a distance of 892.28 feet to the east line of that parcel of land described as Lot 43, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 24.00 feet;

THENCE North 89°51'11" East, a distance of 2.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 24.00 feet to the Point of Beginning.

Containing 48 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

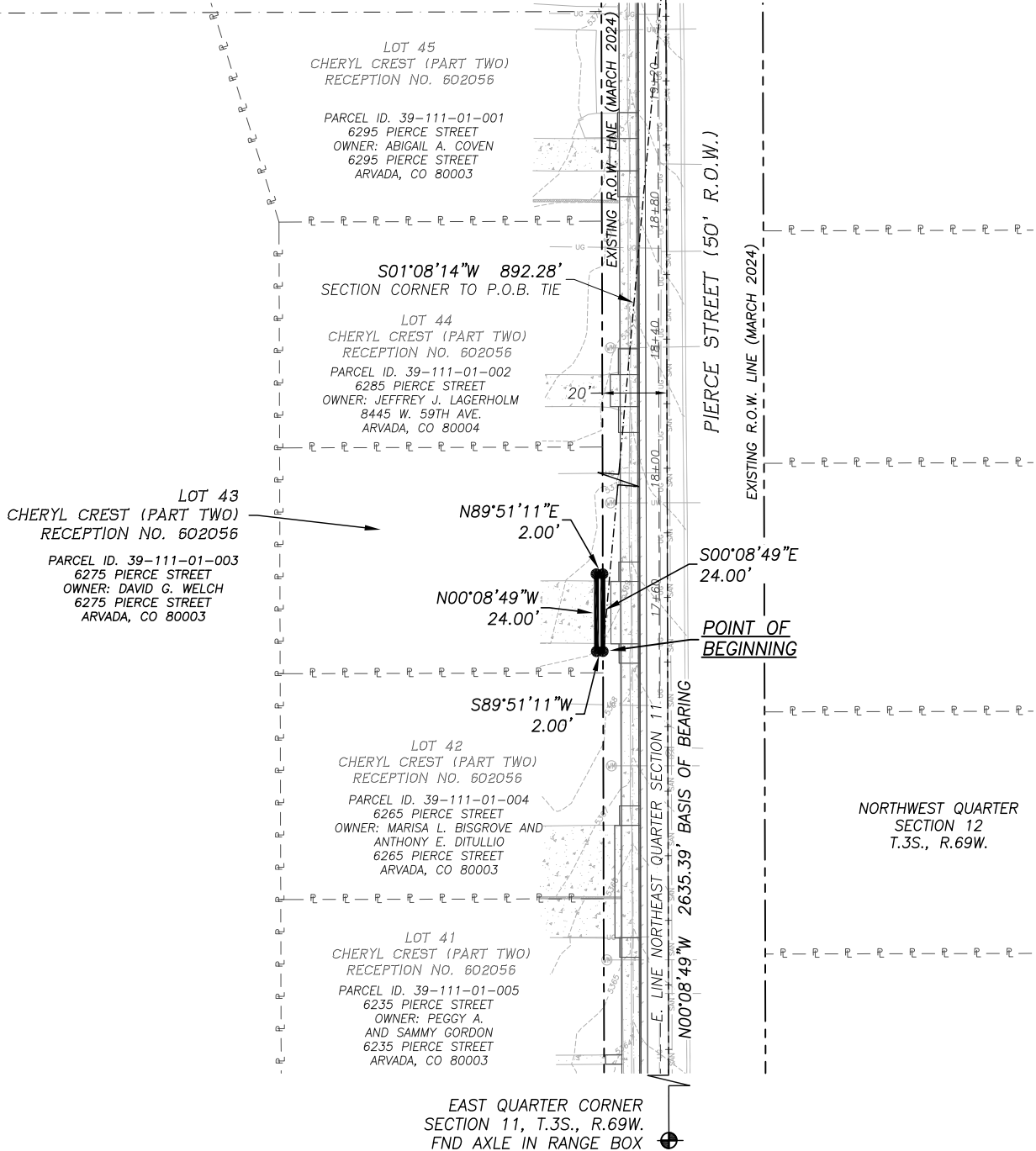


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER DAVID G. WELCH		TEMPORARY EASEMENT PARCEL NO. TE-19 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY. DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134
APN. 39-111-01-003			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND $3\frac{1}{4}$ " ALUM CAP PLS 17508
ON A $2\frac{1}{2}$ " ALUMINUM PIPE

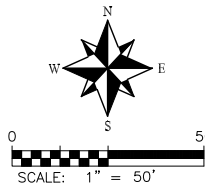


OWNER
DAVID G. WELCH

APN. 39-111-01-003
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-19**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-20
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-20) of Project No. 23-PW-046 over and across that parcel of land described as Lot 44, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 01°15'11" West, a distance of 818.54 feet to the east line of that parcel of land described as Lot 44, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 14.00 feet;

THENCE North 89°51'11" East, a distance of 2.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 14.00 feet to the Point of Beginning.

Containing 28 Square Feet, or 0.001 Acres, more or less.

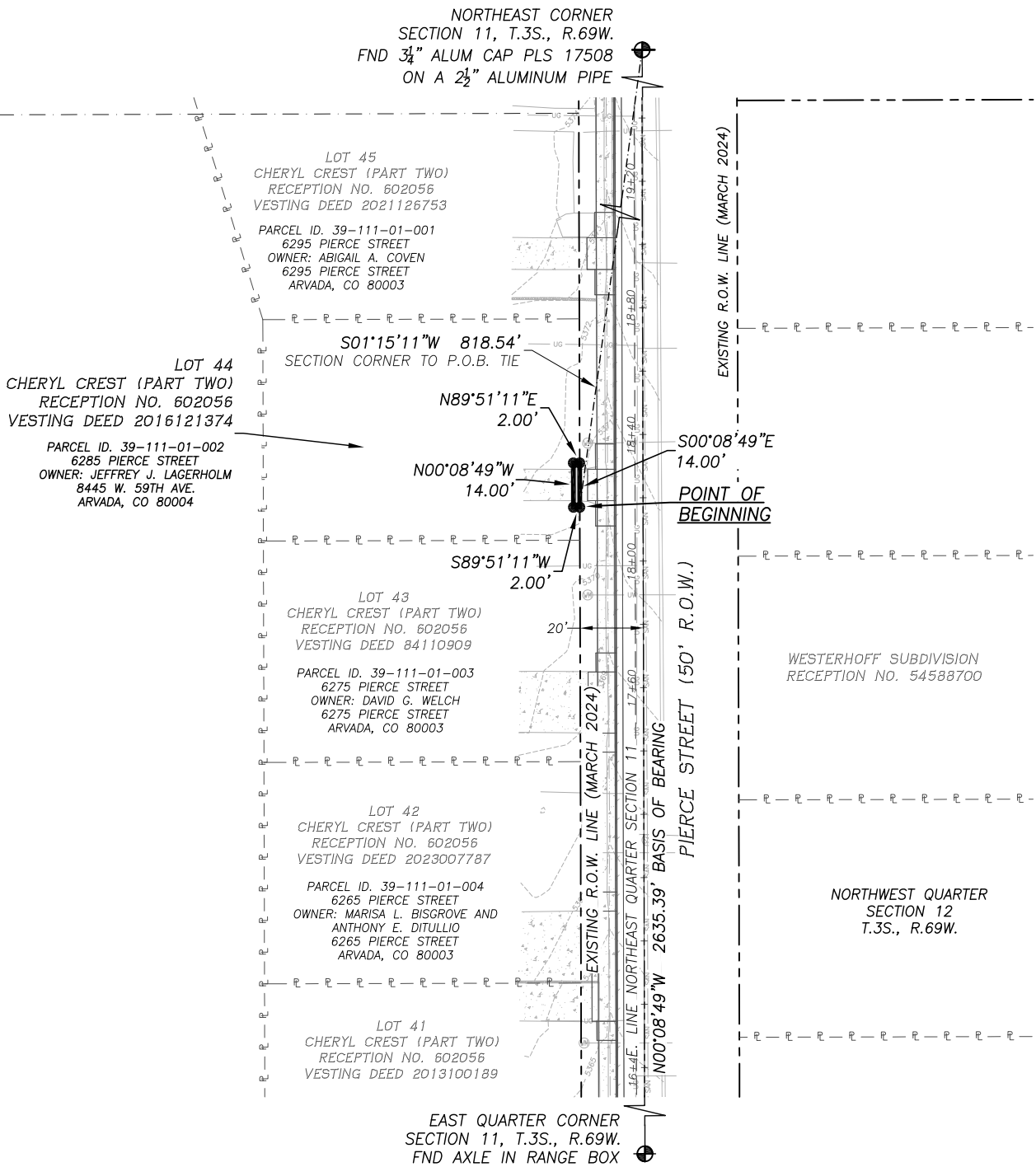
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

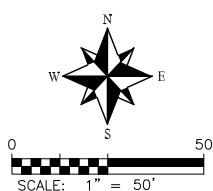
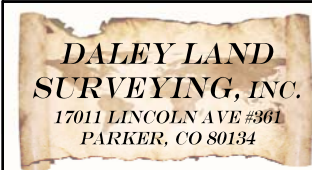


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER JEFFERY J. LAGERHOLM		TEMPORARY EASEMENT PARCEL NO. TE-20 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.	
APN. 39-111-01-002				
CALC: AVV	DATE: 4/18/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 1 OF 2				

ILLUSTRATION TO EXHIBIT A



OWNER JEFFERY J. LAGERHOLM		TEMPORARY EASEMENT PARCEL NO. TE-20 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO		THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-002				 DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134
CALC: AVV	DATE: 4/18/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 2 OF 2				

**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-21
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-21) of Project No. 23-PW-046 over and across that parcel of land described as Lot 45, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 01°23'25" West, a distance of 745.48 feet to the east line of that parcel of land described as Lot 45, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 14.00 feet;

THENCE North 89°51'11" East, a distance of 2.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 14.00 feet to the Point of Beginning.

Containing 28 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER ABIGAIL A. COVEN		TEMPORARY EASEMENT PARCEL NO. TE-21	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-01-001			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

UNPLATTED
VESTING DEED RECEPTION NO. 2019098946
PARCEL ID. 39-111-00-003
6315 PIERCE STREET
OWNER: CLINTON AND TERESA ROWE
6315 PIERCE STREET
ARVADA, CO 80003-4811

S01°23'25"W 745.48'
SECTION CORNER TO P.O.B. TIE

UNPLATTED
VESTING DEED
RECEPTION NO. 2017104991
PARCEL ID. 39-111-00-004
6305 PIERCE STREET
OWNER: SEAN MCKINNEY
6305 PIERCE STREET
ARVADA, CO 80003-4811

15' WIDE UTILITY EASEMENT
PER PLAT

LOT 45
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
VESTING DEED 2021126753

PARCEL ID. 39-111-01-001
6295 PIERCE STREET
OWNER: ABIGAIL A. COVEN
6295 PIERCE STREET
ARVADA, CO 80003

LOT 44
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
VESTING DEED 2016121374

PARCEL ID. 39-111-01-002
6285 PIERCE STREET
OWNER: JEFFREY J. LAGERHOLM
8445 W. 59TH AVE.
ARVADA, CO 80004

LOT 43
CHERYL CREST (PART TWO)
RECEPTION NO. 602056
VESTING DEED 84110909

PARCEL ID. 39-111-01-003
6275 PIERCE STREET
OWNER: DAVID G. WELCH
6275 PIERCE STREET
ARVADA, CO 80003

EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

EXISTING R.O.W. LINE (MARCH 2024)

W. 63RD AVENUE

POINT OF
BEGINNING

WESTERHOFF SUBDIVISION
RECEPTION NO. 54588700

EXISTING R.O.W. LINE (MARCH 2024)
E LINE NORTHEAST QUARTER SECTION 11, T.3S., R.69W.
N00°08'49"W 2635.39' BASIS OF BEARING
PIERCE STREET (50' R.O.W.)

OWNER

ABIGAIL A. COVEN

APN. 39-111-01-001

CALC: AVV DATE: 4/18/2024

DRWN: AVV JOB No. 1503-070

SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-21

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



0 50
SCALE: 1" = 50'

THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.

DALEY LAND
SURVEYING, INC.
17011 LINCOLN AVE #361
PARKER, CO 80134

EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-21A
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-21A) of Project No. 23-PW-046 over and across that parcel of land described as Lot 45, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;

THENCE South 01°31'59" West, a distance of 682.14 feet to the east line of that parcel of land described as Lot 45, Cheryl Crest (Part Two) recorded at Reception No. 602056 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;

THENCE North 00°08'49" West, a distance of 3.00 feet to the north line of said Lot 45;

THENCE North 89°50'50" East, along said north line, a distance of 2.00 feet to the northeast corner of said Lot 45 and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 3.00 feet to the Point of Beginning.

Containing 6 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

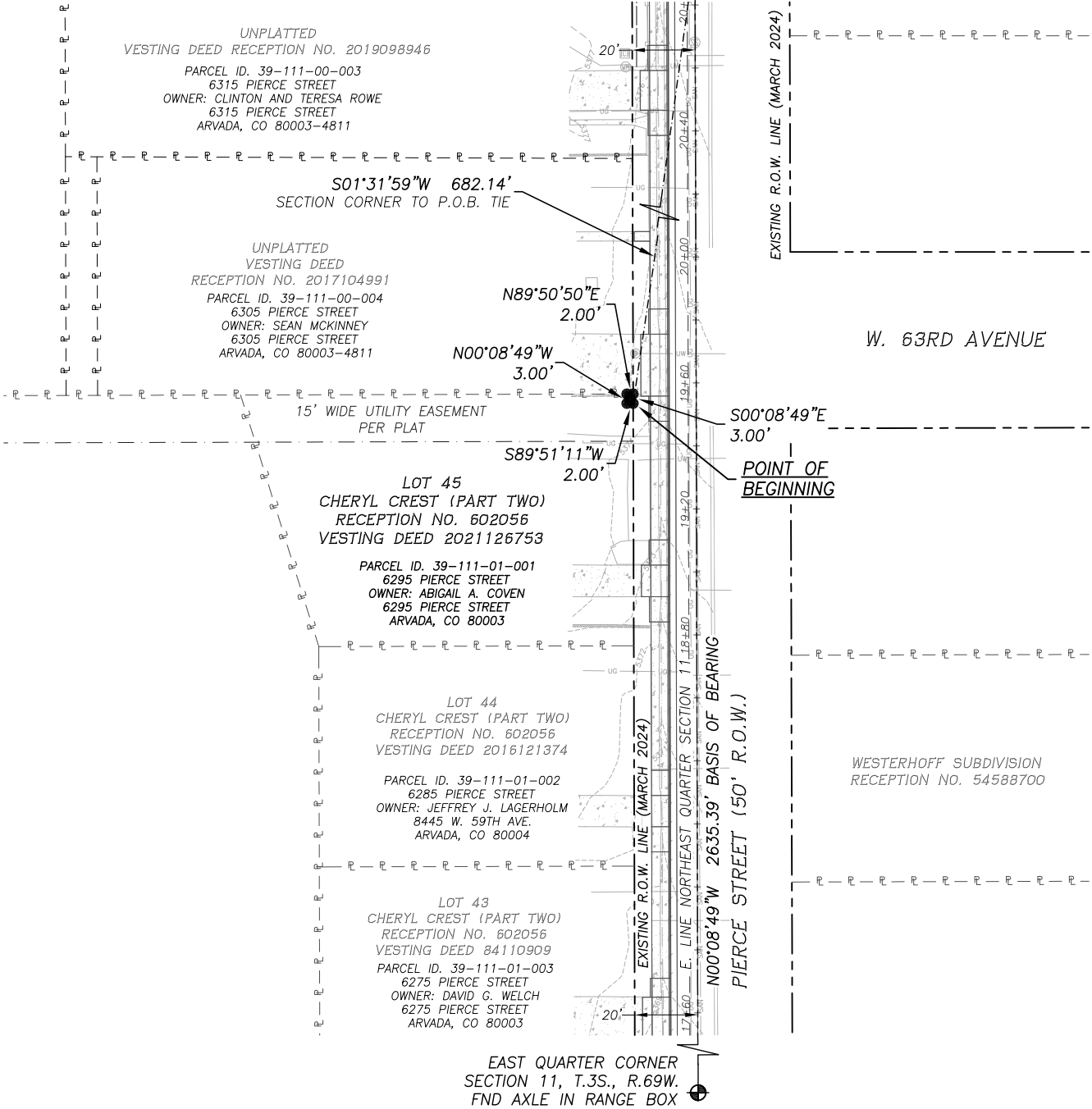


FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER ABIGAIL A. COVEN		TEMPORARY EASEMENT PARCEL NO. TE-21A NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY. 
APN. 39-111-01-001			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			

ILLUSTRATION TO EXHIBIT B

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE



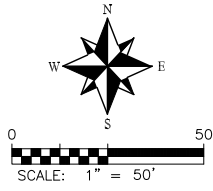
EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

OWNER
ABIGAIL A. COVEN

APN. 39-111-01-001
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-21A**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.

**DALEY LAND
SURVEYING, INC.**
17011 LINCOLN AVE #361
PARKER, CO 80134

EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-22
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-22) of Project No. 23-PW-046 over and across that parcel of land described at Reception No. 2017104991 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
 THENCE South 01°32'26" West, a distance of 679.14 feet to the southeast corner of that parcel of land described at Reception No. 2017104991 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°50'50" West, along the south line of said parcel of land, a distance of 2.00 feet;
 THENCE North 00°08'49" West, a distance of 22.00 feet;
 THENCE North 89°51'11" East, a distance of 2.00 feet to the east line of said parcel of land and said west right of way line;
 THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 22.00 feet to the Point of Beginning.

Containing 44 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.

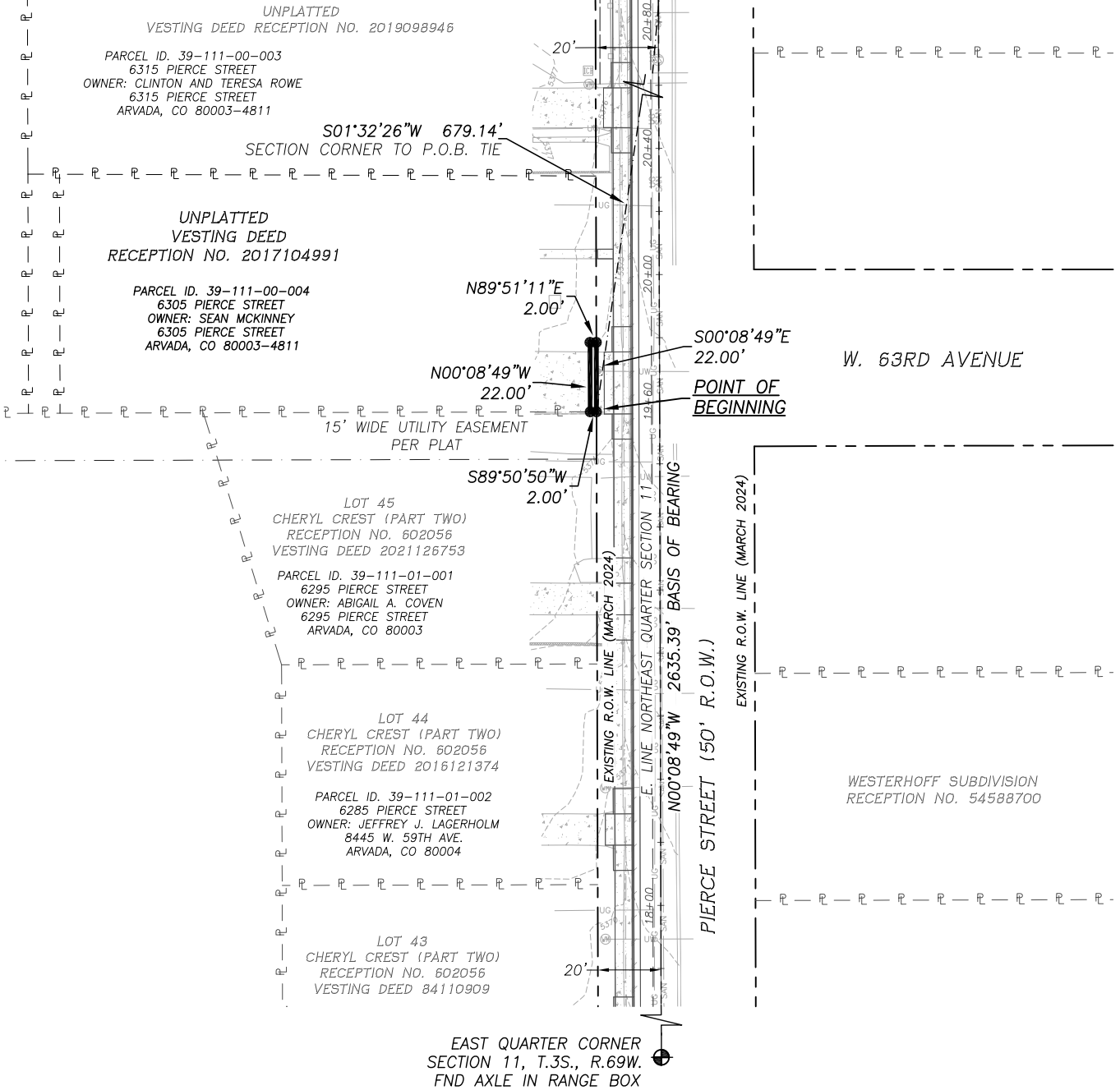


FOR AND ON BEHALF OF
 DALEY LAND SURVEYING INC.,
 Robert Daley, PLS 35597

OWNER SEAN MCKINNEY		TEMPORARY EASEMENT PARCEL NO. TE-22 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-00-004			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

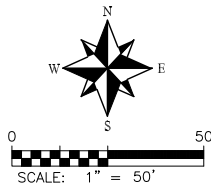


OWNER
SEAN MCKINNEY

APN. 39-111-00-004
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-22**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-23
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-23) of Project No. 23-PW-046 over and across that parcel of land described at Reception No. 2019098946 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
THENCE South 01°46'36" West, a distance of 595.82 feet to the east line of that parcel of land described at Reception No. 2019098946 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;
THENCE North 00°08'49" West, a distance of 21.00 feet;
THENCE North 89°51'11" East, a distance of 2.00 feet to said east line and said west right of way line;
THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 21.00 feet to the Point of Beginning.

Containing 42 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER CLINTON AND TERESA ROWE		TEMPORARY EASEMENT PARCEL NO. TE-23 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.	
APN. 39-111-00-003			 DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134	
CALC: AVV	DATE: 11/08/2024			
DRWN: AVV	JOB No. 1503-070			
SHEET 1 OF 2				

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3 $\frac{1}{4}$ " ALUM CAP PLS 17508
ON A 2 $\frac{1}{2}$ " ALUMINUM PIPE



**DALEY LAND
SURVEYING, INC.**
17011 LINCOLN AVE #361
PARKER, CO 80134

**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-24
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-24) of Project No. 23-PW-046 over and across that parcel of land described at Reception No. F0087783 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
THENCE South 02°06'08" West, a distance of 509.57 feet to the east line of that parcel of land described at Reception No. F0087783 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 2.00 feet;
THENCE North 00°08'49" West, a distance of 20.00 feet;
THENCE North 89°51'11" East, a distance of 2.00 feet to said east line and said west right of way line;
THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 20.00 feet to the Point of Beginning.

Containing 40 Square Feet, or 0.001 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

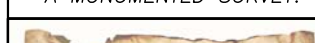
OWNER NANCY H. AND PAUL E. GISH		TEMPORARY EASEMENT PARCEL NO. TE-24 NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-00-002			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
			

ILLUSTRATION TO EXHIBIT A

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

UNPLATTED
VESTING DEED RECEPTION NO. 2009019921

PARCEL ID. 39-111-00-001
6391 PIERCE STREET
OWNER: TIMOTHY R. AND MICHELLE L. NEFF
6391 PIERCE STREET
ARVADA, CO 80003

S02°06'08"W 509.57'
SECTION CORNER TO P.O.B. TIE

UNPLATTED
VESTING DEED RECEPTION NO. F0087783

PARCEL ID. 39-111-00-002
6325 PIERCE STREET
OWNER: NANCY H. AND PAUL E. GISH
6325 PIERCE STREET
ARVADA, CO 80003

N89°51'11"E 2.00'
N00°08'49"W 20.00'
S89°51'11"W 2.00'

PIERCE STREET (50' R.O.W.)

S00°08'49"E 20.00'
POINT OF BEGINNING

UNPLATTED
VESTING DEED RECEPTION NO. 2019098946

PARCEL ID. 39-111-00-003
6315 PIERCE STREET
OWNER: CLINTON AND TERESA ROWE
6315 PIERCE STREET
ARVADA, CO 80003-4811

UNPLATTED
VESTING DEED
RECEPTION NO. 2017104991

PARCEL ID. 39-111-00-004
6305 PIERCE STREET
OWNER: SEAN MCKINNEY
6305 PIERCE STREET
ARVADA, CO 80003-4811

EXISTING R.O.W. LINE (MARCH 2024)

N00°08'49"W 2635.39' BASIS OF BEARING

EXISTING R.O.W. LINE (MARCH 2024)

UNPLATTED

W. 63RD AVENUE

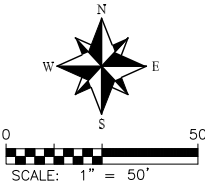
EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

OWNER
NANCY H. AND
PAUL E. GISH

APN. 39-111-00-002
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-24

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



**EXHIBIT A
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-25A
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046**

A temporary easement (TE-25A) of Project No. 23-PW-046 over and across that parcel of land described at Reception No. 2009019921 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
THENCE South 03°49'04" West, a distance of 289.26 feet to the east line of that parcel of land described at Reception No. 2009019921 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 6.00 feet;

THENCE North 00°08'49" West, a distance of 18.00 feet;

THENCE North 89°51'11" East, a distance of 6.00 feet to said east line and said west right of way line;

THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 18.00 feet to the Point of Beginning.

Containing 108 Square Feet, or 0.002 Acres, more or less.

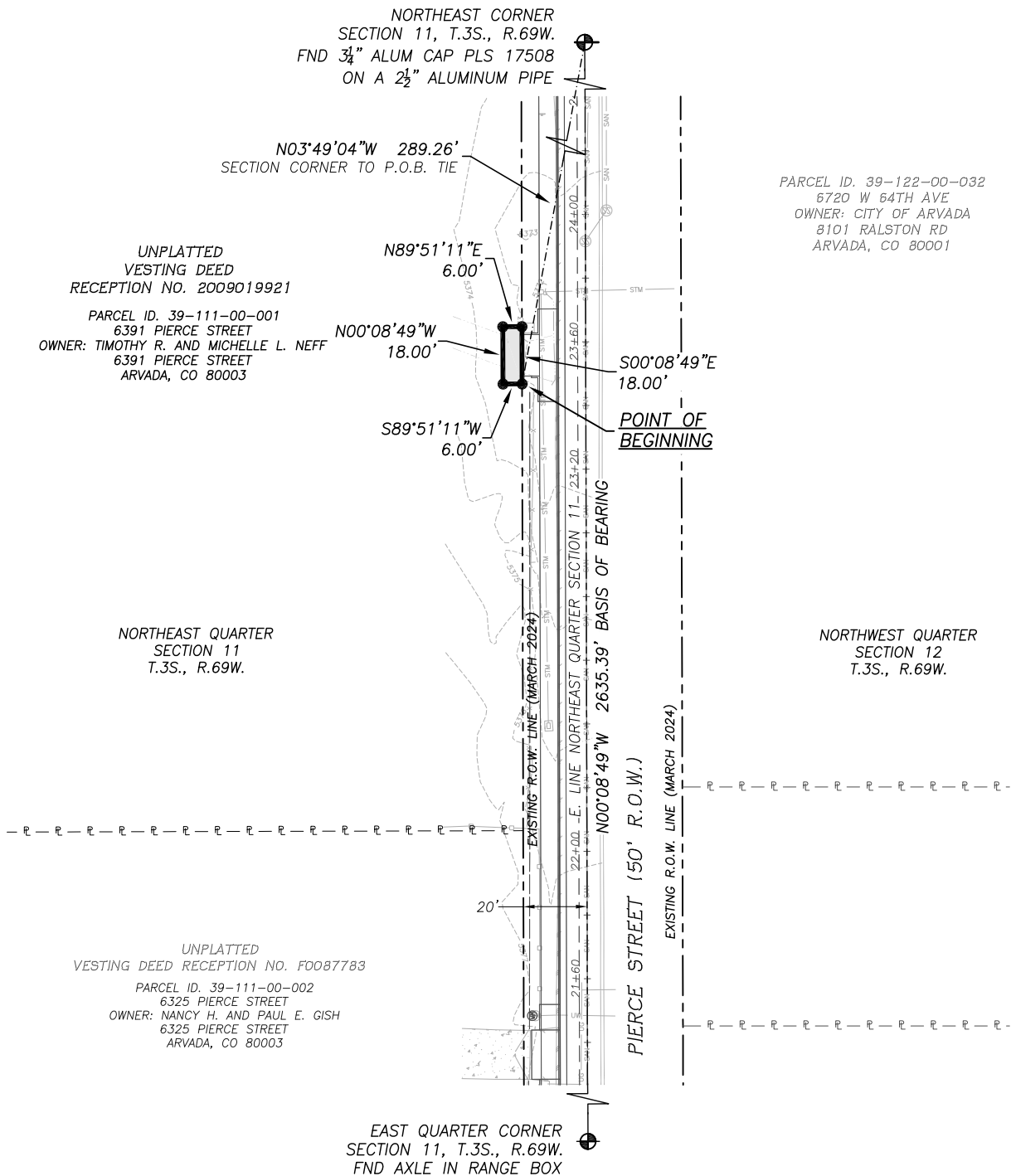
The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
DALEY LAND SURVEYING INC.,
Robert Daley, PLS 35597

OWNER MICHELLE L. AND TIMOTHY R. NEFF		TEMPORARY EASEMENT PARCEL NO. TE-25A	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-00-001			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
		NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	

ILLUSTRATION TO EXHIBIT A

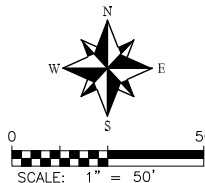


OWNER
**MICHELLE L. AND
TIMOTHY R. NEFF**

APN. 39-111-00-001
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-25A**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT B
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-25B
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-25B) of Project No. 23-PW-046 over and across that parcel of land described at Reception No. 2009019921 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
 THENCE South 05°42'48" West, a distance of 195.87 feet to the east line of that parcel of land described at Reception No. 2009019921 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 3.00 feet;
 THENCE North 00°08'49" West, a distance of 74.00 feet;
 THENCE North 89°51'11" East, a distance of 3.00 feet to said east line and said west right of way line;
 THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 74.00 feet to the Point of Beginning.

Containing 222 Square Feet, or 0.005 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
 DALEY LAND SURVEYING INC.,
 Robert Daley, PLS 35597

OWNER MICHELLE L. AND TIMOTHY R. NEFF		TEMPORARY EASEMENT PARCEL NO. TE-25B NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-00-001			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
		 DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134	

ILLUSTRATION TO EXHIBIT B

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

W. 64TH AVENUE (30' R.O.W.)

S05°42'48"W 195.87'
SECTION CORNER TO P.O.B. TIE

N89°51'11"E
3.00'

S00°08'49"E
74.00'

N00°08'49"W
74.00'

NORTHEAST QUARTER
SECTION 11
T.3S., R.69W.

POINT OF
BEGINNING

S89°51'11"W
3.00'

UNPLATTED
VESTING DEED
RECEPTION NO. 2009019921

PARCEL ID. 39-111-00-001
6391 PIERCE STREET
OWNER: TIMOTHY R. AND MICHELLE L. NEFF
6391 PIERCE STREET
ARVADA, CO 80003

PARCEL ID. 39-122-00-032
6720 W 64TH AVE
OWNER: CITY OF ARVADA
8101 RALSTON RD
ARVADA, CO 80001

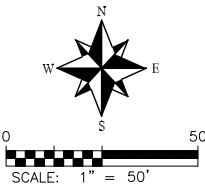
EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

OWNER
MICHELLE L. AND
TIMOTHY R. NEFF

APN. 39-111-00-001
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

TEMPORARY EASEMENT
PARCEL NO. TE-25B

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.



EXHIBIT C
PROPERTY DESCRIPTION
TEMPORARY EASEMENT PARCEL NUMBER: TE-25C
CITY OF ARVADA – SECREST ELEMENTARY SAFE ROUTES
PROJECT NUMBER: 23-PW-046

A temporary easement (TE-25C) of Project No. 23-PW-046 over and across that parcel of land described at Reception No. 2009019921 in the records of Jefferson County, located in the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the Sixth Principal Meridian, City of Arvada, County of Jefferson, State of Colorado, said tract or parcel being more particularly described as follows:

For the purpose of this description the bearings are referenced to the east line of the Northeast Quarter of Section 11, Township 3 South, Range 69 West of the 6th P.M., assumed to bear North 00°08'49" West, a distance of 2635.39 feet, monumented by an axle in a range box at the East Quarter Corner and by a 3 1/4" aluminum cap marked PLS 17508 1998 on a 2 1/2" pipe at the Northeast Corner.

Commencing at the Northeast Corner of Section 11, Township 3 South, Range 69 West of the 6th Principal Meridian;
 THENCE South 10°24'23" West, a distance of 109.20 feet to the east line of that parcel of land described at Reception No. 2009019921 in the records of Jefferson County, the west right of way line of Pierce Street and the Point of Beginning;

THENCE South 89°51'11" West, a distance of 7.00 feet;
 THENCE North 00°08'49" West, a distance of 30.00 feet;
 THENCE North 89°51'11" East, a distance of 7.00 feet to said east line and said west right of way line;
 THENCE South 00°08'49" East, along said east line and said west right of way line, a distance of 30.00 feet to the Point of Beginning.

Containing 210 Square Feet, or 0.005 Acres, more or less.

The purpose of the above described Temporary Easement is for sidewalk improvement and construction.



FOR AND ON BEHALF OF
 DALEY LAND SURVEYING INC.,
 Robert Daley, PLS 35597

OWNER MICHELLE L. AND TIMOTHY R. NEFF		TEMPORARY EASEMENT PARCEL NO. TE-25C NE 1/4 SEC. 11, T.3S., R.69W. JEFFERSON COUNTY, COLORADO	THIS DOES NOT REPRESENT A MONUMENTED SURVEY.
APN. 39-111-00-001			
CALC: AVV	DATE: 4/18/2024		
DRWN: AVV	JOB No. 1503-070		
SHEET 1 OF 2			
		 DALEY LAND SURVEYING, INC. 17011 LINCOLN AVE #361 PARKER, CO 80134	

ILLUSTRATION TO EXHIBIT C

NORTHEAST CORNER
SECTION 11, T.3S., R.69W.
FND 3/4" ALUM CAP PLS 17508
ON A 2 1/2" ALUMINUM PIPE

W. 64TH AVENUE (30' R.O.W.)

S10°24'23"W 109.20'
SECTION CORNER TO P.O.B. TIE

NORTHEAST QUARTER
SECTION 11
T.3S., R.69W.

NORTHWEST QUARTER
SECTION 12
T.3S., R.69W.

UNPLATTED
VESTING DEED
RECEPTION NO. 2009019921
PARCEL ID. 39-111-00-001
6391 PIERCE STREET
OWNER: TIMOTHY R. AND MICHELLE L. NEFF
6391 PIERCE STREET
ARVADA, CO 80003

PARCEL ID. 39-122-00-032
6720 W 64TH AVE
OWNER: CITY OF ARVADA
8101 RALSTON RD
ARVADA, CO 80001

POINT OF
BEGINNING

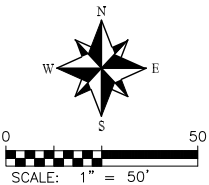
EAST QUARTER CORNER
SECTION 11, T.3S., R.69W.
FND AXLE IN RANGE BOX

OWNER
**MICHELLE L. AND
TIMOTHY R. NEFF**

APN. 39-111-00-001
CALC: AVV DATE: 4/18/2024
DRWN: AVV JOB No. 1503-070
SHEET 2 OF 2

**TEMPORARY EASEMENT
PARCEL NO. TE-25C**

NE 1/4 SEC. 11, T.3S., R.69W.
JEFFERSON COUNTY, COLORADO



THIS DOES NOT REPRESENT
A MONUMENTED SURVEY.





REPORT FROM CITY COUNCIL

AGENDA ITEM
13.A.

DATE: June 17, 2025

SUBJECT: Council Committee Reports

Report in Brief

City Council members are appointed to various committees and boards as set out on the attached listing. As meetings are held, individual council members will report back to the full City Council any relevant discussions and issues that occurred.

Prepared by:
Chris Koch, CCO Admin

Lauren Simpson	Arvada City Attorney Committee Arvada Municipal Court/Judicial Committee Arvada Urban Renewal Authority Arvada Visitors Center Committee *Metro Mayors' Caucus Urban Drainage and Flood Control District West Connect Coalition E-470 Authority (Alternate)
Randy Moorman	Arvada Audit Committee Arvada Center for the Arts and Humanities Arvada Sustainability Committee CML Policy Committee Jefferson Parkway Public Highway Authority Northwest Parkway Authority (Alternate)
Shawna Ambrose	Adams County Regional Economic Partnership (ACREP) Arvada Audit Committee Bond Oversight Committee Jefferson County R-1 Schools Coordinating Committee Arvada Visitors Center Committee (Alternate) Housing Advisory Committee Olde Town Business Improvement (BID) (Alternate)
Sharon Davis	Apex Coordinating Committee Arvada Municipal Court/Judicial Committee

	CML Policy Committee Denver Regional Council of Governments (DRCOG) Jefferson Economic Development Council (JDEC) E-470 Authority (Alternate) Jeffco Transportation Action & Advisory Group (JEFFTAAG) Jefferson County Community Corrections Board
Bob Fifer	Arvada City Attorney Committee Arvada Fire Protection District Coordinating Committee Arvada Transportation Committee Jefferson Parkway Public Highway Authority Smart City Advisory Committee Northwest Parkway Authority (Alternate)
John Marriott	Arvada Economic Development Association Board Bond Oversight Committee Olde Town Business Improvement (BID)
Brad Rupert	Adams County Regional Economic Partnership (ACREP) (Alternate) Arvada Chamber of Commerce Government Affairs Committee Arvada Fire Protection District Coordinating Committee Denver Regional Council of Governments (DRCOG) (Alternate) Jeffco Transportation Action & Advisory Group (JEFFTAAG) Jefferson County Community Corrections Board (Alternate) Smart City Advisory Committee Jefferson County R-1 Schools Coordinating Committee West Connect Coalition (Alternate)

*asterisked committees are not appointed by Council



REPORT TO CITY COUNCIL

AGENDA ITEM
14.A.

TO: THE HONORABLE CITY COUNCIL

DATE: June 17, 2025

SUBJECT: Review of Future Workshops and Presentations

Report in Brief

The City Manager's Office maintains a list of upcoming workshops and presentations to be scheduled for City Council meetings. During City Manager Reports, at the end of City Council business meetings, Don Wick, City Manager, will review with City Council the tentative schedule and make any adjustments necessary.

Prepared by:
Chris Koch, CCO Admin

Reviewed by:

Approved by:

Rachel Morris, City Attorney 5/27/2025

Linda Haley, Deputy City Manager 5/27/2025

Don Wick, City Manager 5/27/2025

Enclosure, exhibits & attachments required to support the report

2025 CITY COUNCIL WORKSHOPS, STUDY SESSIONS, PRESENTATIONS AND RETREATS (TENTATIVE)

WORKSHOPS	Date	Lead
No Meeting – CML Conference	June 24	
Utilities Rate / Fee Process (#2) @Business Meeting In this workshop the City team will review the direction the Council provided in May and discuss initial financial scenarios.	July 1	PW
Micromobility The Shared Micromobility workshop will provide a comprehensive status update on the program which has been operational since January 2022. It will highlight key metrics, including usage trends and operational changes, to inform a discussion of future plans for the program.	July 8	PW
Transportation System Plan This workshop will focus on sharing the final plan and executive summary. The team will provide an overview of key findings, priorities, and implementation strategies.	July 8	PW
Waste Diversion Action Plan @Business Meeting	July 15	PW
No Meeting – Appointee Evaluations	Jul 22	
Utilities Rate / Fee Scenarios (#3) This workshop will review direction provided at the July workshop and discuss refined scenarios that the City team will provide.	Aug 12	PW
Climate Action Plan	Aug 12	PW
Boards and Commissions	Aug 26	
Final Rates / Fees (#4) This workshop will include a final discussion about the proposed fee scenarios, and seek direction for the water, sewer and stormwater scenarios to bring back for final adoption in October.	Sept 9	PW
Certified Local Government (CLG) Discussion and Consideration (Tentative)	Sept 23	CED
Budget Workshop	Sept 23	Fin
Budget Workshop	Oct 14	Fin
	Oct 28	
Comp Plan Update	Dec 9	CED
End of Year City Council Strategic Plan Update	Jan 13 (2026)	CMO
Building Code Update	TBD	CED
Climate Action and Sustainability Plan Update @Business Meeting The City team and consultants will be providing an update on the draft Climate Action and Sustainability Plan. We will be seeking input from the Council on direction and priorities to include in the final plan we intend to bring forward for adoption in January.	TBD	Utilities
Sidewalk Assistance (formerly 50/50 program)	TBD	PW
Parks Master Plan	TBD	VCN
PRESENTATIONS		
STUDY SESSIONS		
Transportation System Plan @4:00 This study session will provide an opportunity to review the Implementation Strategy of the Transportation System Plan, including the prioritized project list, long-term funding outlook, and potential strategies to fund the plan's unfunded projects.	May 20	PW
W. 64th Avenue Sub-Area Planning Workshop @Business Meeting	June 3	CED
City Expenditures, BID and Chamber funding	TBD	Finance

Waste Diversion Plan	TBD	PW
COUNCIL JOINT MEETINGS/DINNERS:		
Denver Water Board Apex Board AURA Board Arvada Center Board—Per Coop Agreement - Annually after October 1 of each year Jefferson Parkway Meeting with Jeffco and Broomfield Council Annual Retreat		