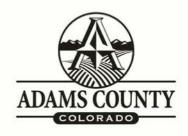
Community & Economic Development Department www.adcogov.org



4430 South Adams County Parkway 1st Floor, Suite W2000 Brighton, CO 80601-8204 PHONE 720.523.6800 FAX 720.523.6998

Re-submittal Form

 $\textbf{Case Name/ Number: DTI Trucks Zone Change} \ / \ \mathsf{PRC2022-00010} \ / \ \mathsf{EGR2022-00041}$

Case Manager: Brayan Marin
Re-submitted Items:
X Development Plan/ Site Plan
X Plat
Parking/ Landscape Plan
X Engineering Documents / EGR2022-00041
X Subdivision Improvements Agreement (<u>Microsoft Word version</u>)
X Other: Response to all comments
* All re-submittals must have this cover sheet and a cover letter addressing review comments.
Please note the re-submittal review period is 21 days.
The cover letter must include the following information:
Restate each comment that requires a response Provide a response helpsy the comment with a description of the revisions.
 Provide a response below the comment with a description of the revisions Identify any additional changes made to the original document
For County Use Only:
Date Accepted:
Staff (accepting intake):
Resubmittal Active Engineering, Environmental, Planner, ROW, Colorado
Division of Water Resources, City of Thornton

Community & Economic Development Department www.adcogov.org



1st Floor, Suite W2000
Brighton, CO 80601-8204
PHONE 720.523.6800
FAX 720.523.6998

REZONING (Zoning Map Amendment)

Application submittals must include all documents on this checklist as well as this page. Please use the reference guide (pg. 2) included in this packet for more information on each submittal item.

All applications shall be submitted electronically to epermitcenter@adcogov.org. If the submittal is too large to email as an attachment, the application may be sent as an unlocked OneDrive link. Alternatively, the application may be delivered on a flash drive to the One-Stop Customer Service Center. All documents should be combined in a single PDF. Once a complete application has been received, fees will be invoiced and payable online at https://permits.adcogov.org/CitizenAccess/.

- 1. Development Application Form (pg. 4)
- 2. Application Fees (see table)
- 3. Written Explanation of the Project
- 4. Site Plan Showing Proposed Development, including:
 - a. Proposed Building Envelope
 - b. Parking Areas
 - c. Site Access
 - d. Landscape Areas
- 5. Trip Generation Letter
- 6. Preliminary Drainage Analysis
- 7. Neighborhood Meeting Summary
- 8. Proof of Ownership (warranty deed or title policy)
- 9. Proof of Water and Sewer Services
- 10. Legal Description
- 11. Certificate of Taxes Paid
- 12. Certificate of Notice to Mineral Estate Owners/and Lessees (pg. 6)
- 13. Certificate of Surface Development (pg. 7)

Applications Fees	Amount	Due
Application	\$1,500	After complete application received
Tri-County Health	\$210 (public utilities -TCHD Level 2) \$360 (individual septic -TCHD Level 3)	

10-1-20 RZ-KM

Rezoning Guide to Development Application Submittal

All development application submittals shall comprise of one (1) electronic copy (emailed or delivered on a USB). **Application submittals that do not conform to these guidelines shall not be accepted.**

3. Written Explanation of the Project:

• A clear and concise, yet thorough, description of the proposal. Please include, if applicable, timeframe, purpose of project, and improvements that will be made to the site

4. Site Plan Showing Proposed Development:

- A detailed drawing of existing and proposed improvements
- Including:
 - o Streets, roads, and intersections
 - Driveways, access points, and parking areas
 - Existing and proposed structures, wells, and septic systems,
 - o Easements, utility lines, and no build or hazardous areas
 - Scale, north arrow, and date of preparation
- An Improvement Location Certificate or Survey <u>may be required</u> during the official review

5. Trip Generation Letter:

 Shall be determined based upon the methodologies of the most current, Institute of Transportation Engineers (ITE) Trip Generation Manual for the weekday AM peak hour and weekday PM peak hour

6. Preliminary Drainage Analysis:

 A general narrative discussing the pertinent drainage characteristics and problems, and proposed drainage characteristics if the subdivision is approved

7. Neighborhood Meeting Summary:

- Please refer to Section 2-01-02 of the Adams County Development Standards and Regulations for the specific requirements regarding time, location, and notice
- A written summary shall be prepared including the materials submittal presented at the meeting, any issues identified at the meeting, and how those issues have been addressed

8. Proof of Ownership:

- A deed may be found in the Office of the Clerk and Recorder
- A title commitment is prepared by a professional title company

9. Proof of Water:

- Public utilities-A written statement from the appropriate water district indicating that they will provide service to the property OR a copy of a current bill from the service provider
- Private utilities- Well permit(s) information can be obtained from the Colorado State Division of Water Resources at (303) 866-3587

Proof of Sewer:

- Public utilities-A written statement from the appropriate sanitation district indicating that they will provide service to the property OR a copy of a current bill from the service provider
- Private utilities-A written statement from Tri-County Health indicating the viability of obtaining Onsite Wastewater Treatment Systems

10. Legal Description:

- Geographical description used to locate and identify a property
- Visit http://gisapp.adcogov.org/quicksearch/ to find the legal description for your property

11. Certificate of Taxes Paid:

- All taxes on the subject property must be paid in full. Please contact the Adams County Treasurer's Office
- Or http://adcogov.org/index.aspx?NID=812

12. and 13. Certificate of Notice to Mineral Estate Owners/ Certificate of Surface Development:

- The State of Colorado requires notification to mineral rights owners of applications for surface development (i.e. zoning, plats, etc.)
- Mineral or Surface right owners may be found in the title commitment for the subject property
- You may also search the Office of the Clerk and Recorder for any recorded deeds, easements, or other documents.

Community & Economic Development Department www.adcogov.org



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Application Type	e:		
Sub	ceptual Review Preliminary PUD division, Preliminary Final PUD division, Final Rezone Correction/ Vacation Special Use	Temporary Use Variance Conditional Use Other:	
PROJECT NAME	:: [
APPLICANT			
Name(s):		Phone #:	
Address:			
City, State, Zip:			
2nd Phone #:		Email:	
OWNER			
Name(s):		Phone #:	
Address:			
City, State, Zip:			
2nd Phone #:		Email:	
TECHNICAL REI	PRESENTATIVE (Consultant, Engi	neer, Surveyor, Architect, etc.)	
Name:		Phone #:	
Address:			
City, State, Zip:			
2nd Phone #:		Email:	

DESCRIPTION OF SITE

Address:	8100 Steel St
City, State, Zip:	Denver, CO 80229
Area (acres or square feet):	1.945 acres
Tax Assessor Parcel Number	0171925000017
Existing Zoning:	A-3
Existing Land Use:	industrial
Proposed Land Use:	industrial, I-2
Have you attended	d a Conceptual Review? YES x
lf Yes, please list l	PRE#: 2021-00105
pertinent requirem Fee is non-refund	at I am making this application as owner of the above described property or acting ity of the owner (attached authorization, if not owner). I am familiar with all ents, procedures, and fees of the County. I understand that the Application Review able. All statements made on this form and additional application materials are my knowledge and belief.
Name:	Tony Doug IAr Date: 7 18 2022 Owner's Printed Name
Name:	Owner's Signature

CERTIFICATION OF NOTICE TO MINERAL ESTATE OWNERS

I/We,			
(the "Applicant") by signi	ng below, hereby dec	lare and certify as follows:	
With respect to the proper			
Legal Description:			
8			
Parcel #(s):			
(PLEASE CHECK ONE):			
before the inition to mineral es	tial public hearing, no tate owners pursuant		ce development was provided Colorado Revised Statutes;
Clerk and Re		identified parcel and have for	•
Date:	Applicant:		
	By:		
	•		•
	A ddmaga.		_
STATE OF COLORADO)		-
COUNTY OF ADAMS)		
Subscribed and swor	n to before me this	day of	, 20, by
Witness my hand and	d official seal.		
My Commission expires:			
		Notary Public	
After Recording Return	То:	Name and Address of Person F	Preparing Legal Description:

A recorded copy of this Certification shall be submitted to the Adams County Community and Economic Development Department with all applicable land use applications.

APPLICANT'S CERTIFICATION CONCERNING QUALIFYING SURFACE DEVELOPMENT, PURSUANT TO C.R.S. §24-65.5-103.3 (1)(b) _____, (the "Applicant") by signing below, hereby declare and certify as follows: Concerning the property located at: Physical Address: Legal Description: Parcel #(s): With respect to qualifying surface developments, that (PLEASE CHECK ONE): No mineral estate owner has entered an appearance or filed an objection to the proposed application for development within thirty days after the initial public hearing on the application; or The Applicant and any mineral estate owners who have filed an objection to the proposed application for development or have otherwise filed an entry of appearance in the initial public hearing regarding such application no later than thirty days following the initial public hearing on the application have executed a surface use agreement related to the property included in the application for development, the provisions of which have been incorporated into the application for development or are evidenced by a memorandum or otherwise recorded in the records of the clerk and recorder of the county in which the property is located so as to provide notice to transferees of the Applicant, who shall be bound by such surface use agreements; or The application for development provides: Access to mineral operations, surface facilities, flowlines, and pipelines in (i) support of such operations existing when the final public hearing on the application for development is held by means of public roads sufficient to withstand trucks and drilling equipment or thirty-foot-wide access easements: An oil and gas operations area and existing well site locations in (ii) accordance with section 24-65.5-103.5 of the Colorado Revised Statutes; That the deposit for incremental drilling costs described in section 24-(iii) 65.5-103.7 of the Colorado Revised Statutes has been made. Date: _____ Applicant: By: After Recording Return To: Print Name: Address:

STATE OF COLORADO)		
COUNTY OF ADAMS)		
COUNTY OF ADAMS		
Subscribed and sworn to before me this	day of	, 20, by
·		
Witness my hand and official seal.		
M. G		
My Commission expires:	Notary Public	
	rotary radiic	
	Name and Address of	Person Preparing Legal Description:

A recorded copy of this Certification shall be submitted to the Adams County Community and Economic Development Department within thirty days after the initial public hearing on all applicable land use applications.

APPLICANT'S CERTIFICATION CONCERNING QUALIFYING SURFACE DEVELOPMENT, PURSUANT TO C.R.S. §24-65.5-103.3 (1)(b) (the "Applicant") by signing below, hereby declare and certify as follows concerning the property located at: **Physical Address:** Legal Description: Parcel # (s): With respect to qualifying surface developments: Access to existing and proposed mineral operations, surface facilities, flowlines, and pipelines in support of such existing and proposed operations for oil and gas exploration and production, including provisions for public roads sufficient to withstand trucks and drilling equipment or thirty-foot-wide access easements, were provided for in a " " area as recorded in Reception # Date: _____ Applicant: By: Address: STATE OF COLORADO COUNTY OF ADAMS Subscribed and sworn to before me this _____day of ______, 20____, by Witness my hand and official seal. My Commission expires: _____ Notary Public

A recorded copy of this Certification shall be submitted to the Adams County Community and Economic Development Department with all applicable land use applications.

Name and Address of Person Preparing Legal Description:

After Recording Return To:



Comment Response

Date: 12.08.22

To: Brayan Marin, Adams County Planning

From: Jon Spencer

RE: PRC2022-000010 & EGR2022-00041 DTI Trucks- 1st Review

Comment Response

Thank you for the review of the DTI submittal packages for the Rezone, Subdivision, and Civil Construction Plans. The following are responses to the first round review comments.

PLNO1: Per the Welby Plan Future Land Use Map, the designated parcels intended for rezoning have a Mixed-Use Employment designation which is NOT consistent with the proposed I-2 zoning that the applicant is proposing. Mixed Use employment encompasses the following zoning designations: Commercial-4 (C-4), Commercial-5(C-5) and Industrial-1 (I-1). By rezoning the property in accordance with the Welby neighborhood, plan, the northern section of the property could be used as office space while providing a buffer between the industrial use of the property and the residential use that is directly north of the property. — While we acknowledge the Welby Plan, the parcel in question was at that time a part of the City of Thornton and functioned as an access easement. It was not formally included in the Plan. The proposed I-2 zoning and industrial use is consistent with the surrounding uses including the A-3 zoned property directly adjacent to the north. While it is zoned A-3, it is used as a concrete contractor's yard and there is no residential component even though that is an allowed use.

Welby Plan Table 4-A Mixed Use Employment-Characteristics & Uses Primary lists "light manufacturing" as a use. The stated purpose of this district is to "Accommodate a range of employment uses with a mix of supporting uses to serve employment needs, increase employment and contribute to the tax base".

DTI is a thriving business providing employment and taxes. It has both sales and manufacturing on the same property similar to the "beehive concept" outlined in the Welby Plan. While the form might not be exactly as outlined this is an ideal business for this area. While we understand the suggestion to provide office use on the north property, the business has an office that is not that old and does not plan to build any new buildings on the north property.

Steele Street not a main corridor. It is conveniently located to other industrial and highways. An I-2 designation would not detract from the goals set forth in the Comprehensive Plan or Welby Plan. Zoning directly to the south west and north is I-2 as well. This is a pocket of I-2. Allowing an I-2 designation for this small portion would maintain continuity for this business and property owner and would not change this area or adversely affect the surrounding neighborhood. It will not create additional traffic, nuisance odors, noise, or other undesired effects.

Jay M. Newell, PE Wayne T. Sterling, RLA, LEED AP



However, based on the project's narrative submitted by the applicant, outdoor storage is proposed on the north of the site of the property. Per County Code, Outdoor Storage is allowed in I-1 properties through a conditional use permit. This is an option that would allow applicant to rezone the property to a zoning that is consistent with the Welby plan and would still meet the needs of what is envisioned for the site. Please note that this would not affect the proposed consolidation of the lots regardless of the zoning designation. — Noted. Per the previous description the ownership would still like to pursue the I-2 zoning. Having a single property with two zoning designations creates confusion as to where exactly on the property the user can provide what services or have whatever storage options.

Outdoor storage in excess of 100% of the building area is what is desired as no building proposed and limiting to 25% would create a hardship for this business. Area is needed to store components such as truck beds and to provide parking of transport vehicles and for vehicle sales.

PLNO2: According to applicant project explanation, the site is 1.945 AC. Per Chapter 3, Section 3-07 for dimensional requirements, I-2 lots must have a minimum lot size of 2 acres. This issue could be resolved if applicant decided to move forward with a rezoning to I-1 as the minimum acreage on the property will only need to be one acre. — This property was relinquished by the City of Thornton and the owner purchased it with the intent of adding it to the existing property. The owner is proposing to include this property within the overall subdivision, Steele Street Industrial Filing No. 3 in order to meet the minimum lot size requirements.

PLNO3: While the current make-up of the area is industrial, any new development will need to adhere to the future land uses that are envisioned in the Welby neighborhood plan. The I-2 zoning designation does not meet the vision of the plan. – While we understand the future vision for this land, it is and has been functioning as an industrial area. The business has a solid operation and intends to maintain their business if they can secure the I-2 zoning which is prevalent in the surrounding properties except for the one directly to the north which is zoned A-3, but used as an industrial yard by a concrete contractor. The proposed land use is compatible in this area.

PLNO4: Due to the proximity to residential/Agricultural uses north of the property, applicant will need to provide a landscape buffer yard width of fifteen (15) foot with three (3) trees per sixty linear feet and six (6) foot sight obscuring fence or wall located on the interior line of the bufferyard. A formal landscape plan will need to be submitted at the time of any new development on the site to review compliance with this requirement. — Noted. A landscape plan is included in this submittal. Trees are shown as required. The fence however is shown on the north property line. Placing a fence at the south of the bufferyard would create a "hallway" between the north property and this property and become a maintenance nightmare. We do not feel this is the intent of the Code to create such a condition.

PLN05: Provide a site plan explaining how the site will work once the lots are combined, as part of this site plan, make sure to include the proposed vehicle alleys and the proposed drainage site of the property. – A site plan has been included with this submittal. This area will be used as open area with no designated vehicle alleys. There are no on-site improvements proposed at this time except for the required 15' landscape buffer. Existing drainage patterns will remain as shown in the Drainage Map in the Drainage Report.

Jay M. Newell, PE Wayne T. Sterling, RLA, LEED AP



PLNO6: Please provide a letter from your water utility provider showing that the expansion will not have any adverse impact to the water supply to the property. – A Will Serve letter from North Washington Water and Sanitation District has been included again with this submittal.

PLN07: Please review all outside comments as some agencies require clarification on the proposed use, water supply, drainage, easements, etc. – Noted. Responses to outside referral comments are included with this letter.

PLN08: Per Sec 5-05-05 Parkland Dedication Requirements, The Parkland dedication (PLD) Cash-in-lieu for this subdivision project is as follows:

If the property is rezoned as an I-1 property, the Cash in Lieu would be \$25,366.16 If the property is rezoned as an I-2 property, the Cash in Lieu would be \$21,626.03 - Noted. The owner(s) would like to proceed with the I-2 designation.

ENG1: A trip generation analysis and a preliminary drainage letter will be required to be completed and submitted for review and approval during the rezoning process. – A trip generation analysis and preliminary drainage letter are included with this submittal.

ENG2: FIRM #08001C0602H. Not in floodplain. A floodplain use permit will not be required. — Noted.

ENG3: The applicant shall be aware that the property is in a MS4 permitted area. The disturbed area of the site will exceed 1 acre, therefore, in addition to the detailed engineering design and analysis required at construction, the applicant shall also be responsible to prepare the SWMP plan using the Adams County ESC Template, and obtain both a County SWQ Permit and State Permit COR-040000.

- Noted. An SWMP will be prepared as required.

ENG4: The applicant plans to subdivide the property. In a subdivision case, the developer should know that prior to scheduling the final plat/FDP BOCC hearing, the developer is required to submit for review and receive approval of all construction documents (construction plans and reports). Construction documents shall include, at a minimum, onsite and public improvements construction plans, drainage report, traffic impact study. Before final approval of the construction plans, the applicant shall enter into a Subdivision Improvement Agreement (SIA) with the county and provide a security bond for all public improvements. All construction documents must meet the requirements of the Adams County Development Standards and Regulations. The developer shall submit to the Adams County Development Review Engineering division the following: Engineering Review Application, Engineering Review Fee, and construction documents including the SIA. — Noted. Public Improvement Construction plans, Drainage Report, and Traffic Study are included with this submittal. An SIA is included however final Public Improvement Costs will be included following formal review of the proposed.

ENG5: The public improvements will include drainage facilities, streets, curb, gutter, and sidewalk. - The required items are included in the attached plans.

ENG6: Prior to the issuance of any construction or building permits, the developer shall enter into a Subdivision Improvements Agreement (SIA) with the County and provide a security bond for all public improvements. – A Draft SIA is included.

Jay M. Newell, PE Wayne T. Sterling, RLA, LEED AP



ENG7: No building permits will be issued until all public improvements have been constructed, inspected and preliminarily accepted by the Adams County Public Works Dept. - Noted

ENG8: The developer is responsible for the repair or replacement of any broken or damaged section of curb gutter and sidewalk. - Noted

ENG9: (Received via email from Mr. LaBrie on 10/24/2022) Adams County Development Engineering received some late comments from the Construction Management Department that need to be added as notes and/or details to the civil design plans. Those comments are as follows:

- 1.) Detectable Warning bricks are not acceptable. Please provide cast iron detectable warning plates.
- 2.) 4500 PSI Concrete with fiber mesh will be required. All concrete will be poured monolithically.
- 3.) Please provide a "Sidewalk Ends" sign at the north end of construction.
- 4.) Although the concrete details have been provided, we need to see a Typical Asphalt Patch detail, showing thickness on the design plans.
- The above notes have been added to the plans.

ROW1: Steele Street is classified as an industrial local street. As such it should have a half right-of-way width of 30 feet. It appears that the half right-of-way width of 30 feet, adjacent to this property, has not been dedicated to Adams County. If the rezoning is approved and the applicant decides to developed the property, the applicant will be required to dedicate 30 half feet of additional right-of-way along Steele Street to support any new development. — A ROW dedication is shown in the attached plans.

ROW2: Right-of-way Dedication Process - The services of a licensed Professional Land Surveyor should be secured to create the legal description and exhibit of the right-of-way dedication. For additional information on dedication document specifics and process please go to http://www.adcogov.org/documents/adams-county-easement-or-right-way-dedication-packet- Noted

ROW3: A preliminary and final plat are required, the applicant shall secure the services of a licensed Professional Land Surveyor to create the plat. The plat is required to support the subdivision process. The right of way dedication can be completed through the platting process. — A Preliminary Plat is included with this submittal.

Please note that the following comments will only apply once a new building permit is requested for this property

ENV1: Applicant should perform truck and repair maintenance on concrete pad. A description of truck types and equipment repair and maintenance operations, locations on site where this would take place, and a plan for the handling of fluids, used oil and material storage should be provided upon application of rezoning. — Noted.

ENV2: All hydraulic fluids, oils and other pollutant sources should be stored within covered area and in secondary containment. – Noted.

Jay M. Newell, PE Wayne T. Sterling, RLA, LEED AP



ENV3: Applicant will be required to implement dust control measures to prevent off-site impacts from truck movement on non-paved surfaces. – Noted.

ENV4: Applicant should limit engine idling to the maximum extent feasible for vehicles at their location to mitigate air quality and odor impacts to surrounding properties. — Noted.

Please note that the following comments will only apply once a new building permit is requested for this property

BSD1: Building permits would be required for each structure. Engineered plans will be required to obtain permits. – Noted.

BSD2: Applicant should refer to commercial and industrial submittal requirements. Here is a link for your reference:

https://epermits.adcogov.org/sites/default/files/Commercial_Industrial%20Submittal%20Requirements_2_0_0.pdf — Noted.

BSD3: Current adopted codes are the 2018 International Building Codes and the 2017 National Electrical Code. -Noted.

BSD4: Applicant should contact Fire Department for their requirements. This is a separate permit, review, and inspection with your local fire department - Noted.

Outside Referral Agencies:

City of Thornton Comments: INFRASTRUCTURE ENGINEERING Civil Engineer (Rachelle Plas, 720-977-6239)

1. How is Detention and Water Quality being handled for this site? There cannot be an increase in discharge to the ditch along the east side of this site. – Noted. Existing drainage is unchanged as there are no proposed on-site improvements. Should improvements be proposed they will be routed to the existing pond at the south end of the existing property.

Colorado Division of Water Resources: State Engineer's Office Opinion:

This office has no comments in regards to the rezoning of the subject property. In regards to the subdivision of the subject property, pursuant to Section 30-28-136(1)(h)(l), C.R.S., the State Engineer's Office has not received enough information to render an opinion regarding the adequacy of the proposed water supply. Prior to further review the applicant must provide the following:

1. Provide a water supply plan that clearly defines the proposed development's water demands. — A Will Serve letter is included with the submittal.

Jay M. Newell, PE Wayne T. Sterling, RLA, LEED AP



- 2. Provide information to clarify if the District is committed to serve the property. See previous response.
- 3. The applicant must clarify if the existing well operated under permit no. 122381 will be plugged and abandoned prior to subdivision approval or if the well will be re-permitted pursuant to a court approved augmentation plan. If the well will be operated pursuant to a court approved augmentation plan then evidence that such plan has been obtained must be provided. The existing well will be abandoned.

Colorado Geological Survey:

The proposed plat represents a reduction in density. The site does not contain steep slopes, is not undermined, and no geologic hazards or unusual geotechnical constraints are present that would preclude the proposed lot consolidation and rezone. CGS therefore has no objection to approval of PRC2022-00010. — Noted, thank you.

Lumen:

LUMEN Local/National facilities are under review by our LUMEN Field Engineer(s). Currently, the estimated completion date of review is 09/23/2022. — Noted.

Colorado Department of Transportation:

We have reviewed the referral for PRC2022-00010 at 8100 Steele St, rezoning and subdividing property. This project is off of the State Highway system and we have no comments. - Thank you

Regional Transportation District:

The RTD has no exceptions with this plan- Thank you

Xcel Energy:

No issues or concerns from Xcel Energy. - Thank you

Tri-County Health:

Community design to support walking and bicycling Because chronic diseases related to physical inactivity and obesity now rank among the country's greatest public health risks, TCHD encourages community designs that make it easy for people to include regular physical activity, such as walking and bicycling, in their daily routines. Because research shows that the way we design our communities can encourage regular physical activity, TCHD strongly supports community plans that incorporate pedestrian and bicycle amenities that support the use of a broader pedestrian and bicycle network. Increasing multi-modal transportation has additional co-benefits including improved air quality, which can reduce contributions to climate change and exposure to pollutants associated with a number of health problems including asthma, lung cancer, and heart disease. TCHD commends the applicant for extending the sidewalk across the west side of the property. – Noted. Public sidewalks are being added to continue the accessibility along Steele St.

There were a couple of emails from area residents expressing concern over traffic, unimproved ROW, and lack of agricultural land. We also received a direct call from an area resident inquiring about the proposed zoning impact and traffic. These comments are acknowledged.

Jay M. Newell, PE Wayne T. Sterling, RLA, LEED AP



The proposed I-2 zoning designation would not create additional traffic. ROW dedication along with landscaping is proposed along Steele St. Unfortunately agriculture is not the land owners line of business and it is unlikely this land will be used in that manner.

We look forward to your feedback and working with you to develop an exceptional project for DTI Trucks and Adams County.

Sincerely,

Jonathan Spencer, PLA

On Behalf of Sterling Design Associates, LLC

Commenting Division: ROW Review 2nd Review

Name of Reviewer: David Dittmer

Date: 12/29/2022

Email:

Resubmittal Required

1. Legal Description must match that of the title reports. The one from Land Title covers 3 parcels, and the one from Empire Title covers only the smaller of the two m/b parcels. I didn't find any other report/commitment that brings this one in.

Response: The legal descriptions DO match the referenced title commitments; 1) Land Title Commitment No. ABC70764012 pertains to Parcels 3 and 4, being Lots 2A & 3A, Steele Street Industrial Park Filing No. 2 and Lot 4, Steele Street Industrial Park; 2) Empire Title North, LLC Commitment No. 203083 pertains to Parcel 2, located in the S1/2SE1/4 of Section 25; and 3) Stewart Title Guaranty Company Policy No. O-9301-004519184 pertains to Parcel 1, located in the SW1/4SE1/4 of Section 25.

- 2. All title reports/commitments must provide usable hyperlinks to all cited documents that work. Land Title report the links don't work, and Empire didn't provide this at all, but instead provided an abstract of title. This report must use hyperlinks.
- 3. You are combining five lots into one (PURPOSE STATEMENT) so you have laid out a LOT, not Lots. *Response: Added a purpose statement, as requested.*
- 4. Type Todd Carlson's name under the signature line for the owner, and provide MEMBER after ITS. Within the Notary Affirmation Todd's name needs to be typed out with his title and for the LLC Response: Will verify the information of who will sign on behalf of DTI and add it to the plat, as requested.
- 5. No abbreviations within the title. *Response: Revised title, as requested.*
- 6. Minor Subdivision Plats are heard by the Planning Commission and the Board of County Commissioners and is not administratively approved. Signature blocks/ approval blocks should be in the following order:

Owner
Lien Holder if applicable
Surveyor
Planning Commission
Board of County Commissioners
County Attorney
Clerk and Recorder

Response: Revised the order of the signature blocks, as requested.

7. No incomplete document citations will be accepted. A citation as C0736571 is not searchable in the public records of Adams County without the date of recording. The "C" dictates what follows the year recorded. All references need to be revised accordingly.

Response: This is the recording information as stamped on the face of the document. The index numbers used for the clerk and recorder's records search web site are not the reception numbers and are not

referenced on the documents themselves. Revised labels to state the reception no and clerk & record's index no or the book/page.

8. Need to show the lot lines being vacated by the plat and stated and what subdivision they were in. This will be like a watermark on the sheet or ghosted

Response: Added another sheet to show the boundary lines of the individual parcels, as requested.

9. If the plat is within the SW4SE4 of Section 25 the title should reflect this if you are going to place the aliquot descriptive on the plat.

Response: Revised the labels to match, as requested.

10. Revise the line weight on the interior of the area of ROW being dedicated. It isn't a boundary line at this time and should be a parcel line, the dedication area as shown in correct.

Response: This portion will be dedicated to the city and the east line will be the exterior boundary line of the new lot. No Change Made.

- 11. Pending engineering review any storm water detention facilities can be dedicated by this plat if required along with access to these facilities. They will be within an easement, and dedicated to the county.
- 12. Add the case number to the top right-hand corner of all sheets.

Response: Added the case number, as requested.

13. Revise all Years provided for the signatory's

Response: Revised the years to reflect 2023, as requested.

14. See plat comments provided

STEELE STREET INDUSTRIAL PARK FILING NO. 3

A REPLAT OF LOT 4, STEELE STREET INDUSTRIAL PARK, LOT 2A & 3A, STEELE STREET INDUSTRIAL PARK FILING NO. 2 AND A PORTION OF THE SE1/4 OF SECTION 25, LOCATED WITHIN THE SE1/4 OF SECTION 25, TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH P. M., COUNTY OF ADAMS, STATE OF COLORADO SHEET 1 OF 2

	THE SOLE OWNER O			
PARCEL 1:				
DEGINNING AT A POINT 15 F OF SE 1/4 OF SECTIONO NO TO EAST AT RIGHT ANGLE		t provided ST;	ER OF THE SW 1/4 THENCE RUNNING SAID SE 1/4 ABOVE	
MENTIONED, 320 FEET; THE THENCE RUNNING WEST AT NORTH AT RIGHT ANGLES A	RIGHT ANGLES A DIS A DISTANCE OF 130	HT ANGLES A DISTA STANCE OF 320 FEET; FEET TO BEGINNING	NCE OF 130 FEET; THENCE RUNNING, EXCEPT COUNTY	Resp
ROAD OFF WEST SIDE THER PARCEL 2:	EOF; COUNTY OF AD	AMS, STATE OF COLC	РКАВО.	ABC
A TRACT OR PARCEL OF LAN RANGE 68 WEST OF THE 6TH TRACT OR PARCEL BEING M	I P <u>RINCIPAL MERIDIA</u>	N. IN ADAMS COUNT		3A, S Stree Com
BEGINNING AT A POINT ON TW. FROM WHICH POINT THE OF 887.6 FEET; THENCE S. 89	S Title		SEC. 25 T. 2S. R 68 OUTH A DISTANCE NCE N. 34°44' E., A	S1/2: Com locat
DISTANCE OF 158.0 FEET; T LESS TO THE WESTERLY LIN LINE A DISTANCE OF 40.5 F THENCE N. 89°53' W. ALONG	NE OF PARCEL NO. FEET MORE OR LES S SAID NORTH LINE E	1; THENCE N. 09°27' E S TO THE NORTH L EXTENDED, A DISTAN	E. SAID WESTERLY INE OF PARCEL 1; CE OF 413.6 FEET;	
THENCE SOUTH, A DISTANCI FEET TO THE NORTH AND SO THE NORTH AND SOUTH CEN OR LESS TO THE POINT OF E OF THE PARCEL.	OUTH CENTERLINE C NTERLINE OF SAID S	F SAID SEC. 25; THEN EC. 25 A DISTANCE O	ICE SOUTH ALONG F 40.0 FEET, MORE	
PARCEL 3:				
LOTS 2A AND 3A, STEELE ST STATE OF COLORADO.			OUNTY OF ADAMS,	<u>Gl</u> 1.
PARCEL 4: LOT 4, STEELE STREET INDU		y the Land Title	OF COLOBADO	
CONTAINING 386,752 SQUAR			OF OCCURSO.	2.
HAS BY THESE PRESENTS L				
AND EASEMENTS AS SHOW STREET INDUSTRIAL PARK STATE OF COLORADO.				
THE UNDERSIGNED DOES HITHOSE PUBLIC EASEMENTS FURTHER RESTRICTS THE U	S AND RIGHTS-OF- ¹ SE OF ALL PUBLIC E	WAY AS SHOWN ON	N THE PLAT; AND S COUNTY AND/OR	
TIS ASSIGNS, FRUVIDLD I	ALL OR ANY SUCH		S SHALL REMAIN	
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD	AMS COUNTY.	Respo	nse: Revised	
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD THERETO THIS DAY OF _		the yeareques	sted.	5.
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD		the yeareques	ar, as sted.	
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD THERETO THIS DAY OF _ OWNER: DTI HOLDINGS, LLC BY:	, A COLORADO LIMIT ITS	the year request the ye	ar, as sted. IY.	5. 6.
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD THERETO THIS DAY OF _ OWNER: DTI HOLDINGS, LLC	, A COLORADO LIMIT ITS	the year reques ED LIABILITY COMPAN	ar, as sted. IY.	6. 7.
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD THERETO THIS DAY OF _ OWNER: DTI HOLDINGS, LLC BY: Todd Carlson STATE COUNTY OF	, A COLORADO LIMIT ITS)))SS)	the year request reque	ar, as sted. IY.	6. 7. 8. Response: R signature bl
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD THERETO THIS DAY OF _ OWNER: DTI HOLDINGS, LLC BY: Todd Carlson STATE COUNTY OF THE FOREGOING INSTRUME OF	, A COLORADO LIMIT ITS)))SS INT WAS ACKNOWLE A.D. 2022, BY	the year request reque	THIS DAY	6. 7. 8. Response: R signature bl
RELEASE OR QUIT CLAIM EXCLUSIVELY VESTED IN AD THERETO THIS DAY OF _ OWNER: DTI HOLDINGS, LLC, BY: Todd Carlson STATE TODE COUNTY OF THE FOREGOING INSTRUME OF AS LIABILITY COMPANY. RESP	, A COLORADO LIMIT ITS)))SS INT WAS ACKNOWLE A.D. 2022, BY	the year request reque	THIS DAY	6. 7. 8. Response: R signature bl

HOLDINGS, LLC

MY COMMISSION EXPIRES:

VICINITY MAP e legal descriptions DO match the referenced ments; 1) Land Title Commitment No. 2 pertains to Parcels 3 and 4, being Lots 2A & reet Industrial Park Filing No. 2 and Lot 4, Steele trial Park; 2) Empire Title North, LLC it No. 203083 pertains to Parcel 2, located in the Section 25; and 3) Stewart Title Guaranty olicy No. 0-9301-004519184 pertains to Parcel 1 e SW1/4SE1/4 of Section 25. EAST 78TH PL

RPOSE STATEMENT

Response: Added

purpose statement as requested

- PROPERTY IS NOT LOCATED WITHIN THE 100-YEAR FLOODPLAIN AS SHOWN ON THE DD INSURANCE RATE MAP (FIRM) FOR ADAMS COUNTY COLORADO MAP NUMBER 1C0602H, DATED MARCH 5, 2007 AND MAP NUMBER 08001C0604H, DATED MARCH 5, 2007.
- ICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE MENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

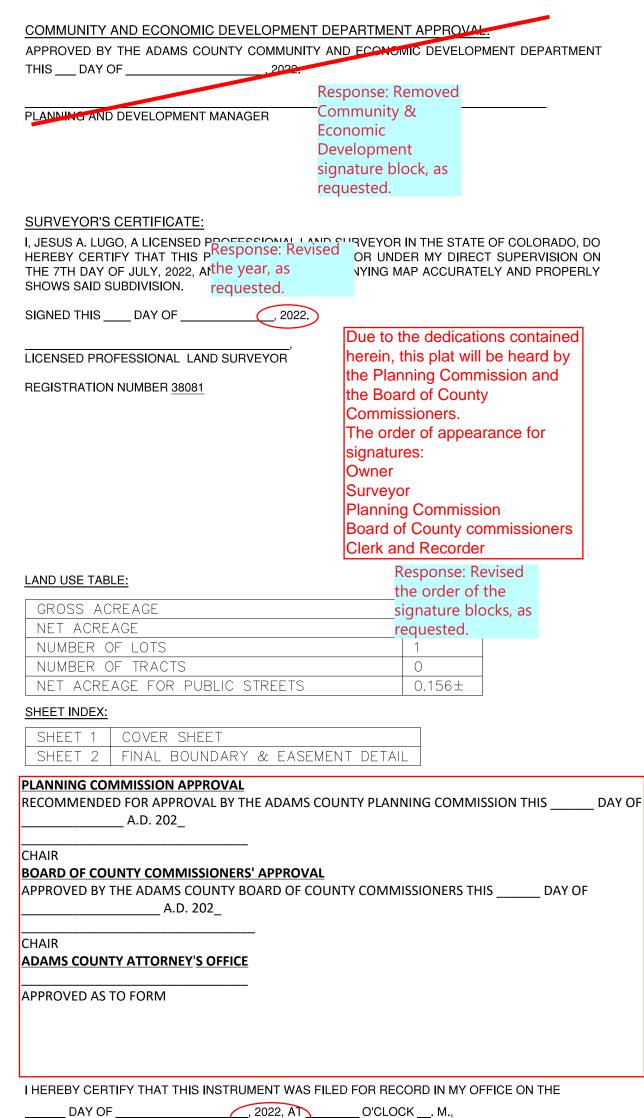
GS ARE BASED ON THE WEST LINE OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 TION 25, TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH P.M., PER THE PLAT OF STREET INDUSTRIAL PARK FILING NO. 2 RECORDED JUNE 24, 2015 AT RECEPTION NO. 10149316 IN THE OFFICE OF THE CLERK AND RECORDER FOR THE COUNTY OF ADAMS, F COLORADO, WHICH BEARS SOUTH 00°10'46" WEST (NAD 83), BETWEEN THE FOUND ENTS AS SHOWN AND DESCRIBED HEREON.

> RVEY DOES NOT CONSTITUTE A TITLE SEARCH BY ALTURA LAND CONSULTANTS, LLC RMINE OWNERSHIP OR EASEMENTS OF RECORD. FOR ALL TITLE INFORMATION OF ORD. ALTURA LAND CONSULTANTS. LLC RELIED UPON THE OWNER'S POLICY NO. 01-004519184, ISSUED BY STEWART TITLE GUARANTEE COMPANY, HAVING A DATE OF CY OF MARCH 6, 2018; COMMITMENT FOR TITLE INSURANCE NO. 203083, ISSUED BY RE TITLE NORTH, LLC, HAVING AN EFFECTIVE DATE OF MARCH 18, 2022; AND MITMENT FOR TITLE INSURANCE NO. ABC70764012, ISSUED BY LAND TITLE GUARANTEE

- LINEAL UNITS OF MEASURE SHOWN ON THIS PLAT ARE BASED UPON THE U.S. SURVEY METER TO U.S. SURVEY FOOT - 1m = 0.3048006096 U.S. SURVEY FOOT.
- EASEMENTS WITHIN THE BOUNDARY OF THIS SUBDIVISION THAT WERE PREVIOUSLY NTED BY THE PLAT OF STEELE STREET INDUSTRIAL PARK AND THE PLAT OF STEELE ET INDUSTRIAL PARK FILING NO. 2 REMAIN, EXCEPT AS IDENTIFIED ON THIS PLAT.
- RICTING ACCESS RIGHTS ACROSS THE RIGHT-OF-WAY LINES OF MAJOR HIGHWAYS. (WAYS, STREETS, OR FREEWAYS WHERE REQUIRED AS A CONDITION OF APPROVAL.

STORM DRAINAGE FACILITIES TO ASSURE CONTINUOUS OPERATIONAL CAPABILITY SYSTEM. THE PROPERTY OWNER(S) SHALL BE RESPONSIBLE FOR THE MAINTENANCE DRAINAGE FACILITIES INCLUDING INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, AJLIC STRUCTURES, AND DETENTION BASINS LOCATED ON THEIR LAND UNLESS IFIED BY THE SUBDIVISION DEVELOPMENT AGREEMENT. SHOULD THE OWNER(S) FAIL TO TAIN SAID FACILITIES, THE COUNTY SHALL HAVE THE RIGHT TO ENTER SAID LAND FOR SOLE PURPOSE OF OPERATIONS AND MAINTENANCE. ALL SUCH MAINTENANCE CAST

PANY, HAVING AN EFFECTIVE DATE OF MARCH 1, 2022. POLICY OF THE COUNTY REQUIRES THAT MAINTENANCE ACCESS SHALL BE PROVIDED BE ASSESSED TO THE PROPERTY OWNER(S). nation BY TODD CARLSON AS MEMBER OF DTI





Response: Revised

the year, as

requested.

RECEPTION NO.

DEPUTY

CLERK AND RECORDER

JOB NO. 21268

Unit C, Centennial, CO 80112

STEELE STREET INDUSTRIAL PARK FILING NO. 3 A REPLAT OF LOT 4, STEELE STREET INDUSTRIAL PARK, LOT 2A & 3A, STEELE STREET INDUSTRIAL PARK FILING NO. 2 AND A PORTION OF THE SE1/4 OF SECTION 25, LOCATED WITHIN THE SE1/4 OF SECTION 25, TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH P. M., COUNTY OF ADAMS, STATE OF COLORADO SHEET 2 OF 2 South 1/16 C-C corner of Section 25 Parcel 2 Quit Claim Deed 10' Dedication ABBREVIATION LEGEND to Adams Found 2.5" aluminum cap stamped "2000-Rec. No. 2017000090641 LS 34174" in monument box, 0.5' below County PSCo = PUBLIC SERVICE COMPANY OF COLORADO grade, no reference of record found Held NOT A PART Street. Parcel 1 & Accepted CDOT = COLORADO DEPARTMENT OF TRANSPORTATION Quit Claim Deed Rec. No. UNPLATTED Rec. No. 2017000090641 *B216577* REC. NO. = RECEPTION NUMBER NOT A PART PLS = PROFESSIONAL LAND SURVEYOR · 25.72' R.O.W. = RIGHT-OF-WAYBK./PG. = BOOK/PAGE40.00' 693.24 This should be within the Parcel A title since you are refining the aliquot description and Response: This portion SW cannot be E LEGEND 40' Dedication to Adams Courwill be dedicated to the abbreviated and all Parcel B Contains 6,800 S.F./0.156 Acticity and the east line = SUBJECT PARCEL BOUNDARY LINES descriptors need to be = SECTION LINES typed out. this is a legal This should be line | boundary line of the document = ADJOINING PARCEL BOUNDARY LINES weight of adjacent parcel boundary as Made. Response: Revised = EXISTING EASEMENT LINES Response: Added another sheet Steel Street Industrial Park Lot 4 to show the boundary lines of portion of the = EXISTING SETBACK LINES section to match each other, as requested. his should be bolder font Need to show old lot lines that are being vacated with the | 30' Metropolitan Denver Sewage statement "LOT LINE MONUMENT NOTES - Disposal District No. 1 Permanent Easement, Book 1346, Page 115 VACATED BY THIS PLAT" and provide what subdivision and INDICATES FOUND ALIQUOT CORNER AS NOTED lot or blank as with the m/b 10' Dedication to Adams County for INDICATES FOUND MONUMENT AS NOTED Steele Street, Rec. No. 2006001001970 INDICATES SET MONUMENT BEING A #5 REBAR, 18" LONG, WITH A 1 1/2" GREEN PLASTIC CAP STAMPED "ALTURA LAND PLS 38081" LOT 1, BLOCK 1 Found 1.5" aluminum cap stamped "DOUGLAS ORT PLS 37066", 0.1' above grade Held & Steel Street Industrial Park Filing No 2, Lot 3A 379,952 Square Feet Accepted as Southeast corner of Lot or 8.723 Acres± 4/Northeast corner Lot 3A 10' Drainage & Utility Easement Rec. No. 2006001001970 ncomplete document citation, must include the MISCELLANEOUS NOTES Rec. No. C1111906 recording date in order to search Adams County \vdash 1) FOR RECORD DIMENSIONS OF EASEMENTS SHOWN HEREON REFER TO Public Records for this document THE RECORDING INFORMATION AS INDICATED. IN THE EVENT THAT Response: This is the recording information as stamped on THERE IS A DISCREPANCY IN THE LOCATION OF THE RECORDED the face of the document. The index numbers used for the EASEMENT AS SHOWN HEREON, THE RECORD DOCUMENT WILL TAKE Special Warranty Deed PRECEDENCE. clerk and recorder's records search web site are not the Rec. No. C0736571 reception numbers and are not referenced on the documents themselves. Revised labels to state the Found 1.25" red plastic of stamped reception no and clerk & record's index no or the book/ "AMERICAN WEST PLS \$8046", 0.3" below grade, **Held & Accepted** for the Northwest corner of Lot 2A/Southwest corner of Lot 3A 10' Dedication to Adams County Found 1.25" red plastic cap stamped "MANHARD for Steele — GRAPHIC SCALE Found 1.25" red plastic cap PLS 36062", flush with grade, Held & Accepted street, for the Southeast corner of Lot 2A/Northeast corner of Lot 1A stamped "AMERICAN WEST PLS 0 30 60 Rec. No. 38046", 0.1' above grade, B216577 N58°59'10"W, 0.41' From PL LOT 1A EELESTEELE STREET INDUSTRIAL FEET PARK FILING NO. 2 (REC. NO. 20015000049316) Scale: 1'' = 60'____10' Drainage & Utility Easement NOT A PART Rec. No. 2006001001970 . → 30' PREPARATION DATE JULY 8, 2022 South 1/4 corner of Section 25 Found 2.5" aluminum cap stamped "ISI 2019 LS 29425", 0.2' below grade, no reference or record found, 30' Metropolitan Denver Sewage Held & Accepted - Disposal District No. 1 Permanent SHEET 2 OF 2 Easement, Book 1346, Page 115 6551 South Tucson Way Phone: (720)488-1303

Name: Lot 1, Blk 1_07.08.22

North: 1733551.7566' East: 3159469.9106'

Segment #1 : Line

Course: S89.5133E (dms) Length: 693.24'

North: 1733550.0526' East: 3160163.1485'

Segment #2 : Line

Course: S09.1619W (dms) Length: 595.75'

North: 1732962.0862' East: 3160067.1610'

Segment #3 : Line

Course: N89.4914W (dms) Length: 599.09'

North: 1732963.9625' East: 3159468.0739'

Segment #4 : Line

Course: N00.1046E (dms) Length: 417.78'

North: 1733381.7404' East: 3159469.3823'

Segment #5 : Line

Course: N00.1046E (dms) Length: 170.01'

North: 1733551.7496' East: 3159469.9148'

Perimeter: 2475.87' Area: 379952 Sq. Ft.

Error Closure: 0.0081 Course: S30.5237E (dms)

Error North: -0.00695 East: 0.00416

Precision 1: 305662.96

Name: ROW Dedication_07.08.22

North: 1733551.8549' East: 3159429.9126'

Segment #1 : Line

Course: S89.5133E (dms) Length: 40.00'

North: 1733551.7565' East: 3159469.9124'

Segment #2 : Line

Course: S00.1046W (dms) Length: 170.01'

North: 1733381.7474' East: 3159469.3800'

Segment #3 : Line

Course: N89.5133W (dms) Length: 40.00'

North: 1733381.8457' East: 3159429.3801'

Segment #4 : Line

Course: N00.1046E (dms) Length: 170.01'

North: 1733551.8549' East: 3159429.9126'

Perimeter: 420.01' Area: 6800 Sq. Ft.

Error Closure: 0.0000 Course: N00.0000E (dms)

Error North: 0.00000 East: 0.00000

Precision 1: 420020000.00

North Washington Street

Water and Sanitation

District

3172 E. 78th Avenue, Denver, CO 80229 303 - 288 - 6664

To Whom It May Concern:

Dear Sir/Madame:

The North Washington Street Water and Sanitation District ("District") provides the following in response to your request for water and sanitary, sewer service dated December 2, 2021 related to the property located at 8100 Steele Street. ("Property"). The District can provide water and sewer service to the Property based on conditions set forth herein. The following are general requirements for water and sanitary sewer service. The District Rules and Regulations and the standards and requirements of Denver Water and Metro Wastewater Reclamation District must be complied with as an on-going condition of service.

The subject Property is understood to be entirely within the service and boundary area of the District based on your assertions. The District makes no representation or warranty in regard to the Property boundaries and applicant is responsible for verification of same. If the Property is outside of the District's boundaries, applicant is responsible for undertaking and paying all costs to include the Property within the District's boundaries. Treatment of sewage generated within the District is provided by the Metro Wastewater Reclamation District. Treatment and provision of water within the District is provided by Denver Water. Conditions for water and sanitary service from the District include meeting the requirements contained herein and payment of all fees and costs as provided in District's Rules and Regulations along with those of Denver Water and Metro Wastewater Reclamation District. Timing of water and sanitary availability is subject to further coordinated by the District.

Water and Sanitary availability are subject to review and acceptance of design documents from owner/developer of the Property, by the District. Appropriate right-of-way easements and agreements are required for all water and sanitary sewer extensions. Jurisdictional coordination, approvals, permitting, license agreements and easements are to be completed prior to acceptance of plans. All costs associated with collection and distribution system improvements required to serve the Property are the responsibility of the owner/developer including guarantee of improvements and warranty periods.

Receipt of service is also subject to all costs being paid by owner/developer for engineering, reviews, construction, observation, and inspections at the then current rate fee structure established by the District, including establishing an imprest account with the District as a deposit for such accounts. Please be aware that proper tap connection and development fees are required to be paid, at the most recent fee schedule, prior to connection to the District main.

Mike DeMattee,

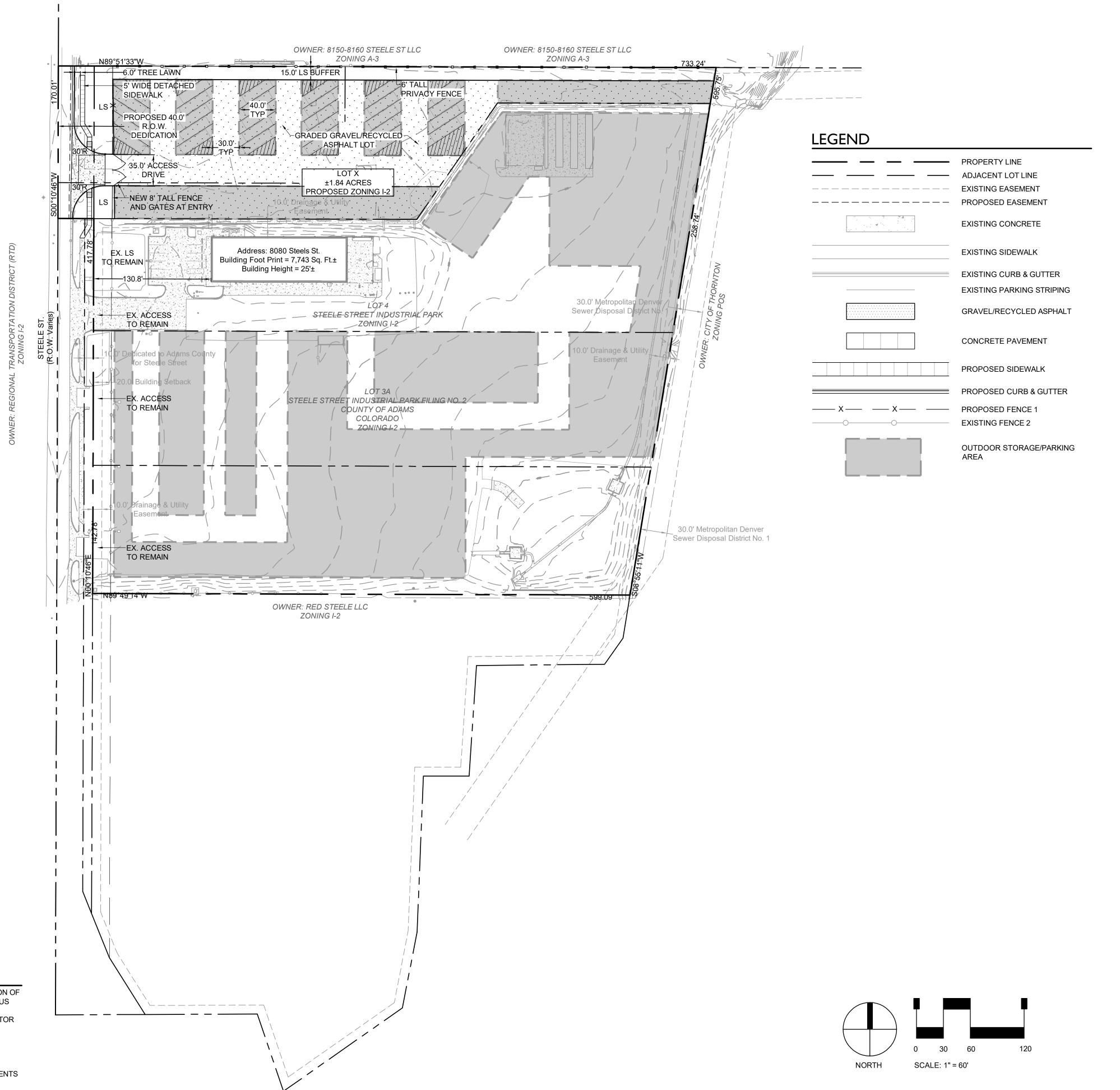
Genetter

District Manager

DTI TRUCKS

A PORTION OF THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN CITY OF DENVER, COUNTY OF ADAMS

SITE PLAN







STERLING DESIGN ASSOCIATES, LLC

NO.: 1	DATE:	BY:
DESCRIP	TION:	
NO.: 2	DATE: -	BY: -
DESCRIP	TION: -	
NO.: 3	DATE: -	BY: -
DESCRIP	TION: -	
NO.: 4	DATE: -	BY: -
DESCRIP	TION: -	
NO.: 5	DATE: -	BY: -
DESCRIP	TION: -	
	DATE: -	BY: -

DATE: 03/05/2022	SCALE:
PROJECT MANAGER:	PROJECT NO.:
	-
DRAWN BY:	DRAWING FILE:
	-

PROJECT

DTI TRUCKS 8100 STEELE ST. DENVER, CO 80229

DTI TRUCKS 8080 STEELE ST. DENVER, CO 80229

TEL: (720) 360-4022

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

1 OF 1



CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

SITE DEVELOPMENT CONSTRUCTION PLANS DTI TRUCKS

SITUATED IN THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF ADAMS, STATE OF COLORADO.

LEGAL DESCRIPTION

LOT 1, BLOCK 1, STEEL STREET INDUSTRIAL PARK FILING NO. 3, LOCATED WITHIN THE SE 1/4 OF SECTION 25, T2S, R68W OF THE 6TH P.M., COUNTY OF ADAMS, STATE OF COLORADO.

BASIS OF BEARING

BEARINGS ARE BASED ON THE WEST LINE OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 2 SOUTH, RANGE 68 WEST OF THE 6TH P.M, PER THE PLAT OF STEELE STREET INDUSTRIAL PARK FILING NO. 2 RECORDED JUNE 24, 2015 AT RECEPTION NO. 2015000049316 IN THE OFFICE OF THE CLERK AND RECORDER FOR THE COUNTY OF ADAMS, STATE OF COLORADO, WHICH BEARS SOUTH 00°10'46" WEST (NAD 83).

BENCHMARK

NGS BENCHMARK "E 392"

LOCATED AT THE JUNCTION OF THE UNION PACIFIC RAILROAD AND EAST 72ND AVENUE, 219.8 FEET NORTHEAST OF THE CENTERLINE OF THE AVENUE, 28.2 FEET SOUTHEAST OF THE NEAR RAIL.

ELEVATION = 5133.10 FEET (NAVD 1988)

CONCRETE NOTE

4500 PSI CONCRETE WITH FIBER MESH WILL BE REQUIRED. ALL CONCRETE WILL BE POURED MONOLITHICALLY

OWNER

DTI HOLDINGS LLC 8955 WEST 44TH AVENUE WHEAT RIDGE, CO 80033 303-524-3820

CIVIL ENGINEER

PERCEPTION DESIGN GROUP, INC. 6901 SOUTH PIERCE STREET, SUITE 315, LITTLETON, CO 80128 303-232-8088 CONTACT: JERRY DAVIDSON, PE

DEVELOPER

COMMERCIAL BUILDING SERVICES 7561 SOUTH GRANT STREET, SUITE A-4 LITTLETON, CO 80122 303-730-3001 CONTACT: DAVID SPRATLEN

SURVEYOR

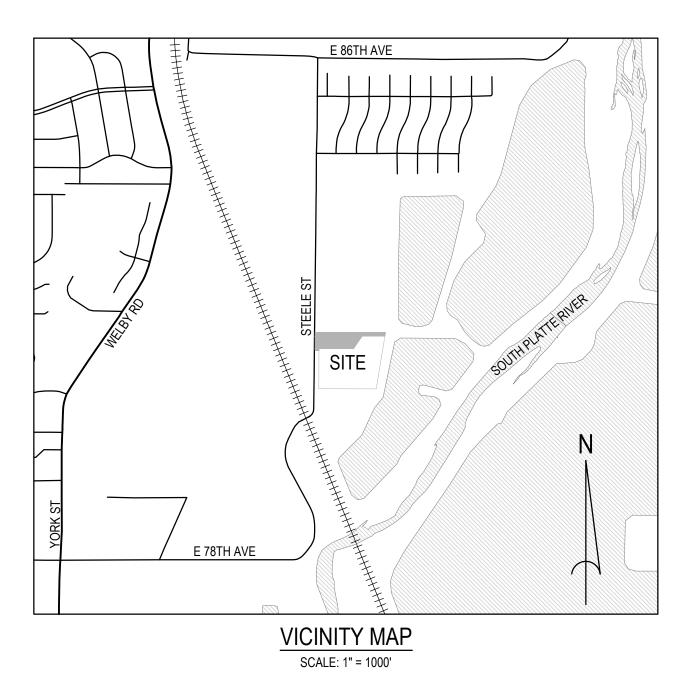
ALTURA LAND CONSULTANTS 6950 SOUTH TUSCON WAY, UNIT C CENTENNIAL, CO 80112 720-488-1303 CONTACT: JESUS A. LUGO, PLS

ADAMS COUNTY

DEVELOPMENT SERVICES DIVISION 4430 SOUTH ADAMS COUNTY PARKWAY 1ST FLOOR, SUITE W2000B BRIGHTON, CO 80601 720-523-6824

LANDSCAPE ARCHITECT

STERLING DESIGN ASSOCIATES, LLC 2009 WEST LITTLETON BOULEVARD, SUITE 300 LITTLETON, CO 80210 303-794-4727 CONTACT: JON SPENCER, PLA



SHEET INDEX

C0.00 COVER SHEET
C0.01 GENERAL NOTES
C3.10 SITE AND GRADING PLAN
C5.10 EROSION CONTROL PLAN
C5.90-C5.91 EROSION CONTROL DETAILS
C9.10-C9.11 CONSTRUCTION DETAILS

<u>LEGEND</u>						
	PROPERTY LINE	6260°	EXISTING CONTOUR			
LS	PROPOSED LANDSCAPED AREA	59	PROPOSED CONTOUR			
	PROPOSED SIDEWALK	\ 159.40 \ 159.40	PROPOSED SPOT ELEVATION EXISTING SPOT ELEVATION			
	PROPOSED HANDICAP RAMP	FL TC	FLOWLINE ELEVATION TOP OF CURB ELEVATION			
	PROPOSED SITE SIGNAGE	SW HP	SIDEWALK ELEVATION HIGH POINT ELEVATION			
	EXISTING CURB AND GUTTER	LP	LOW POINT ELEVATION			
	PROPOSED CURB AND GUTTER WITH SPILL PAN	E/T/G/FO	EXISTING ELECTRIC/ TELEPHONE/GAS/FIBER LINE			
	PROPOSED CURB AND GUTTER WITH CATCH PAN	ST 18"RCP	EXISTING STORM SEWER WITH MANHOLE			
	PROPOSED ASPHALT PAVEMENT	S8"SAN	EXISTING SANITARY SEWER WITH MANHOLE			
	SAWCUT LINE	≪ ───₩	EXISTING WATERLINE WITH HYDRANT			
	EASEMENT					

GENERAL NOTES:

- 1. TOPOGRAPHIC MAPPING AS OF 02/14/21 PREPARED BY ALTURA LAND CONSULTANTS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN HE SHALL, AT HIS EXPENSE, HAVE NEW MAPPING PREPARED BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR ACCEPTANCE AND APPROVAL.
- 2. CONTRACTOR SHALL REFER TO THE GRADING, EROSION AND SEDIMENT CONTROL (GESC) PLAN FOR ADDITIONAL REQUIREMENTS. NO WORK SHALL OCCUR UNTIL THE BMPs DEPICTED ON THE GESC HAVE BEEN INSTALLED AND ARE APPROVED BY THE CITY. THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 3. EXISTING CONTOURS ARE SHOWN AT 1-FOOT INTERVALS; PROPOSED OVERLOT CONTOURS ARE SHOWN AT 1-FOOT INTERVALS.
- 4. ALL EARTHWORK, GRADING, OVERLOT GRADING, BACKFILLING, FILLING, EXCAVATION, COMPACTION, PAVEMENT AND FLATWORK SHALL BE IN CONFORMANCE WITH THE GEOTECHNICAL REPORT PREPARED BY ______. THE CONTRACTOR IS REQUIRED TO HAVE A SIGNED AND SEALED COPY OF THE REPORT AT THE SITE AT ALL TIMES. DURING CONSTRUCTION, IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED. THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED BY THE CONTRACTOR FOR RECOMMENDATIONS.

5. THE CONTRACTOR IS RESPONSIBLE FOR:

- a. VERIFYING ALL UTILITIES, WHETHER SHOWN OR NOT SHOWN, AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. ALL UTILITIES TO REMAIN (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE PROTECTED FROM DAMAGE AND ADJUSTED TO FINAL GRADE.
- b. PREPARING ANY TRAFFIC CONTROL PLANS, AS MAY BE REQUIRED TO PERFORM THE WORK, AND PROVIDING ALL NECESSARY TRAFFIC CONTROL (SIGNS, BARRICADES, FLAGMEN, LIGHTS, ETC) IN ACCORDANCE WITH THE MUTCD, CURRENT EDITION, AS REQUIRED FOR THE WORK. THE PLAN FOR TRAFFIC CONTROL SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO COMMENCING ANY WORK IN THE RIGHTS-OF-WAY.
- c. OBTAINING <u>ALL</u> NECESSARY PERMITS AND APPROVALS REQUIRED TO PERFORM THE WORK AND TO OBTAIN A COPY OF <u>ALL</u> APPLICABLE CODES, LICENSES, SPECIFICATIONS, AND STANDARDS NECESSARY TO PERFORM THE WORK, AND BE FAMILIAR WITH THEIR CONTENTS PRIOR TO COMMENCING ANY WORK.
- d. KEEPING ONE COPY OF THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR TO VERIFY WITH PROJECT ENGINEER THE LATEST REVISION DATE OF THE APPROVED CONSTRUCTION PLANS.
- e. COORDINATING PRIOR TO CONSTRUCTION WITH THE GEOTECHNICAL ENGINEER, THE COUNTY, AND UTILITY AND STORMWATER DISTRICT INSPECTORS TO IDENTIFY PROJECT INSPECTION AND TESTING REQUIREMENTS.
- f. KEEPING TRACK OF ALL APPROVED DEVIATIONS FROM THE PLANS AND PROVIDING THE PROJECT ENGINEER WITH AS-BUILT DRAWINGS OF ALL IMPROVEMENTS REQUIRED FOR THE WORK.
- g. COMPLYING WITH COUNTY GENERAL REQUIREMENTS, STANDARDS, AND SPECIFICATIONS.
- h. PROVIDING AS-BUILT DRAWINGS OF CONSTRUCTED UTILITIES UPON COMPLETION OF THE WORK.

ADA NOTES:

ALL HANDICAP SPACES SHALL BE PAINTED AND SIGNED IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.

THE FOLLOWING CRITERIA SHALL APPLY TO ALL CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT.

- A. THE MAXIMUM CROSS SLOPE OF ANY SIDEWALK OR PEDESTRIAN ACCESS ROUTE SHALL BE 2.0%. THE SLOPE SHALL BE MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- B. SIDEWALKS AND PEDESTRIAN ACCESS ROUTES SHALL HAVE A MAXIMUM GRADE OF 5.0 PERCENT MEASURED IN THE DIRECTION OF TRAVEL. SIDEWALKS OR PEDESTRIAN ACCESS ROUTES WHICH ARE DESIGNATED AS RAMPS MAY HAVE A MAXIMUM SLOPE OF 8.0 PERCENT FOR A MAXIMUM RISE OF 30 INCHES. A 5-FOOT BY 5-FOOT PAD (2.0 PERCENT MAXIMUM SLOPE IN ANY DIRECTION) SHALL BE CONSTRUCTED AT THE BOTTOM AND TOP OF ANY RAMP.
- C. ALL HANDICAP RAMPS SHALL HAVE A MAXIMUM SLOPE OF 8.0 PERCENT MEASURED IN THE DIRECTION OF TRAVEL. FLARED SIDES SHALL NOT BE CONSIDERED ACCESSIBLE AND ARE NOT TO BE INCLUDED IN THE DIRECTION OF TRAVEL. A 5-FOOT BY 5-FOOT AREA (2 PERCENT MAXIMUM SLOPE IN ANY DIRECTION) SHALL BE PROVIDED AT THE BOTTOM AND TOP OF ALL HANDICAP RAMPS. THE TRAVEL PORTION OF ALL RAMPS SHALL HAVE COLORED RAMPS.
- D. THE GRADE IN A HANDICAP PARKING SPACE SHALL NOT EXCEED 2.0 PERCENT IN ANY DIRECTION. ALL HANDICAP PARKING SPACES SHALL HAVE AN ACCESSIBLE ROUTE TO THE BUILDING ENTRY AS SHOWN ON THE DRAWINGS.



PARED UNDER THE DIRECT ERVISION OF RY W. DAVIDSON, P.E. ORADO REG # 30226								
AND ON BEHALF OF CEPTION DESIGN GROUP, INC.								
				12/08/22 CITY COMMENTS	07/07/22 INITIAL SUBMITTAL	△ DATE DESCRIPTION	REVISIONS	

I TRUCKS REET INDUSTRIAL PARK FILING NO. 3 OF SEC 25, T2S, R68W 6TH P.M. MS, STATE OF COLORADO

DTI TRU I, BLOCK 1, STEELE STREET IN PARCEL IN THE SE 1/4 OF SEC COUNTY OF ADAMS, STA

COVER

Design By: Approved By: Project No.:

t No.: 2022-013 06-15-2022

SHEET

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GENERAL NOTES

- 1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF IMPROVEMENTS SHALL MEET OR EXCEED THE CITY AND APPLICABLE UTILITY DISTRICT STANDARDS AND SPECIFICATIONS, AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS AND ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S STANDARDS AND SPECIFICATIONS. ALL REFERENCES TO PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARDS, UNLESS SPECIFICALLY STATED OTHERWISE.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE PLANS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED, AND RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.
- 3. UTILITY TRENCHES ARE TO BE SLOPED OR BRACED AND SHEETED AS NECESSARY TO FURNISH SAFE WORKING CONDITIONS FOR THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL HEALTH AND SAFETY RULES AND REGULATIONS.
- 4. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT CONNECTION POINTS AND POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS AND TO COORDINATE SUCH RELOCATIONS WITH THE APPROPRIATE UTILITY PROVIDER AND ALL AFFECTED PARTIES.
- 5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE APPROPRIATE UTILITY COMPANY/DISTRICT TO OBTAIN TEMPORARY POWER, TELEPHONE, AND WATER SERVICE DURING CONSTRUCTION. ALL COST FOR TEMPORARY SERVICES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY AND ALL UTILITY COMPANIES/DISTRICTS INVOLVED WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.
- 7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS, WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF PROJECT SAFETY INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION FENCE PRIOR TO, AND THROUGHOUT CONSTRUCTION.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK AND INSPECTIONS AS REQUIRED BY THE CITY, STATE, OR LOCAL DISTRICTS. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST ASSOCIATED WITH INSPECTION.
- 11. THE CONTRACTOR SHALL NOTIFY THE CITY AND LOCAL UTILITY COMPANIES/DISTRICTS AT LEAST 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- 12. THE CONTRACTOR SHALL NOTIFY THE CITY AND LOCAL UTILITY COMPANIES/DITRICTS AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- 14. INCLUDED IN THIS PACKAGE IS THE DEMOLITION AND DISPOSAL OF ALL EXISTING UTILITIES, SITE IMPROVEMENTS AND SITE FURNISHINGS NEEDED FOR CONSTRUCTION OF THE IMPROVEMENTS SHOWN IN THIS SET OF CONSTRUCTION DRAWINGS. ALL QUESTIONS IN REGARD TO DEMOLITION SHALL BE SUBMITTED TO THE OWNER IN WRITING PRIOR TO BID.
- 15. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. IF PERTINENT DIMENSIONS ARE NOT SHOWN, CONTACT THE CONSULTING ENGINEER FOR CLARIFICATION, AND ANNOTATE THE DIMENSION ON THE AS-BUILT RECORD DRAWINGS.
- COORDINATES PROVIDED ON THE DRAWING SHALL BE VERIFIED. ANY WORK DONE INCORRECTLY BASED UPON THE PROVIDED COORDINATES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND FIXED AT HIS OWN EXPENSE.
- 16. RIM ELEVATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL USE PRECAST CONCRETE ADJUSTMENT RINGS, GROUT, AND STEEL SHIMS TO ADJUST THE MANHOLE FRAMES TO THE REQUIRED FINAL GRADE IN CONFORMANCE WITH THE CITY OR UTILITY COMPANY/DISTIRCT STANDARD SPECIFICATIONS. ALL FRAMES SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- 17. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES, WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER, JERRY DAVIDSON AT 303-232-8088 IMMEDIATELY.
- 18. <u>BENCHMARK VERIFICATION</u>: THE CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
- 19. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S STANDARDS AND SPECIFICATIONS.
- 20. THE CONTRACTOR SHALL VERIFY ALL POINTS OF CONNECTION TO BUILDING UTILITIES BOTH HORIZONTAL AND VERTICAL PRIOR TO BEGINNING CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER AND ARCHITECT FOR RESOLUTION.

SITE/GRADING GENERAL NOTES

- CONTOURS SHOWN REPRESENT FINISHED ELEVATIONS. ADJUSTMENT TO SUBGRADE FOR ALL STRUCTURES (IE PAVING, SIDEWALKS, SLABS, ETC) IS THE RESPONSIBILITY OF THE CONTRACTOR. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.
- 2. EXISTING SPOT ELEVATIONS AT MATCH POINTS WERE DERIVED FROM CONTOURS PROVIDED WITH THE SITE MAPPING AND ARE ANTICIPATED TO BE +/- AND SHALL BE VERIFIED PRIOR TO ANY CONSTRUCTION. ANY DEVIATION SHALL BE REPORTED TO THE ENGINEER.
- 3. PRIOR TO PLACING ANY CONCRETE CURB, GUTTER, PANS, AND ACCESSIBLE RAMPS, THE FORMWORK ELEVATIONS SHALL BE VERIFIED TO MEET ADA GRADE REQUIREMENTS. ANY WORK THAT DOES NOT COMPLY WITH THIS REQUIREMENT AND IS PLACED IN ERROR WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. NO PROPOSED LANDSCAPED SLOPE SHALL EXCEED 3H:1V, OR AS SPECIFIED OTHERWISE BY LOCAL CODE.

5 [DELETED]

- 6. ALL LANDSCAPED AREAS ARE TO BE CONDITIONED PER THE REQUIREMENTS OF THE LANDSCAPE PLANS. ALL DISTURBED AREAS THAT ARE NOT DESIGNATED TO BE PAVED SHALL BE LANDSCAPED OR SEEDED ACCORDING TO THE LANDSCAPE PLAN(S) AND GRADING, EROSION AND SEDIMENT CONTROL PLAN(S).
- 7. ALL PROPOSED SPOT ELEVATIONS ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED. SPOT ELEVATIONS TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. CONTRACTOR SHALL NOTIFY ENGINEER OF SPOT ELEVATIONS WHICH DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DATA SHALL BE USED FOR SETTING ELEVATIONS OF CURB AND GUTTER AND UTILITIES. THE CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- 8. ASPHALT GRADES SHALL NOT BE LESS THAN 1.80% IN THE DIRECTION OF FLOW OVER ADA ROUTES AND PARKING STALLS, AND SHALL NOT BE LESS THAN 2.00% IN ALL OTHER AREAS; CURB AND GUTTER AND CONCRETE PAN GRADES SHALL NOT BE LESS THAN 0.50% IN THE DIRECTION OF FLOW. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG ALL CURBS. PAVEMENT OR CURBS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. GRADES ON ADA PARKING STALLS AND ACCESSIBLE ROUTES SHALL NOT BE LESS THAN 1.8%.
- 9. HANDICAP PARKING STALLS SHALL BE PAINTED AND SIGNED IN ACCORDANCE WITH CURRENT ADA STANDARDS AND REGULATIONS AND THE DETAIL DRAWINGS.
- 10. HANDICAP RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS AND REGULATIONS.
- 11. THE FOLLOWING IS APPLICABLE TO ALL CONSTRUCTION WITHIN THE LIMITS OF THIS PROJECT:
 - THE MAXIMUM CROSS SLOPE OF ANY SIDEWALK OR PEDESTRIAN ACCESS ROUTE SHALL BE 2.0%. THE SLOPE SHALL BE MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
 - b. THE GRADE OF HANDICAP PARKING STALLS SHALL NOT EXCEED 2.0% IN ANY DIRECTION. HANDICAP PARKING SHALL HAVE AN ACCESSIBLE ROUTE TO THE BUILDING ENTRY AS SHOWN ON THE DRAWINGS.
 - c. HANDICAP ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM LONGITUDINAL GRADE OF 5.0%. ACCESSIBLE ROUTES EXCEEDING 5.0% SHALL BE CONSTRUCTED WITH RAMPS AND HAND RAILS HAVING A MAXIMUM SLOPE OF 8.33% FOR A MAXIMUM RISE OF 30 INCHES. A 5-FOOT BY 5-FOOT LANDING PAD (WITH A 2 PERCENT MAXIMUM SLOPE IN ANY DIRECTION) SHALL BE CONSTRUCTED AT THE BOTTOM AND TOP OF ALL RAMP.
- 12. PRIOR TO PLACEMENT OF CURB AND PAVEMENT CONTRACTOR SHALL VERIFY COMPLIANCE WITH ADA STANDARDS.
- 13. IF DURING THE GRADING AND CONSTRUCTION PROCESS CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER, JERRY DAVIDSON AT 303-232-8088
- 14. ALL GRATES, MANHOLE RIMS, VALVE BOXES, VALVE COVERS, CLEANOUTS, AND VAULT OR BOX COVERS SHALL BE ADJUSTED TO "AS CONSTRUCTED" FINISHED GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- 15. ALL CONCRETE PAVEMENT, CONCRETE FLATWORK, CONCRETE STRUCTURES, AND CONCRETE UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE MATERIAL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY _____
- 16. CONCRETE PAVEMENT JOINTS SHALL MEET THE REQUIREMENTS OF CDOT STANDARDS AND SPECIFICATIONS, AND CDOT STANDARD PLAN NO. M-412-1, UNLESS NOTED OTHERWISE.
- 17. ALL SIGNING AND STRIPING WILL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- 18. REFER TO ARCHITECTURAL PLANS FOR BUILDING SIGNAGE LOCATIONS.
- 19. CONTRACTOR SHALL COORDINATE SIGNAGE PERMIT, INSTALLATION, AND SPECIFICATIONS WITH OWNER AND SIGNAGE
- 20. DELETED.
- 21. REFER TO THE SITE PLAN FOR EXTENT OF PAVEMENT AND REFER TO GEOTECHNICAL REPORT (PREPARED SPECIFICALLY FOR THIS SITE) FOR PAVEMENT SECTIONS AND SPECIFICATIONS.
- 22. GRADES WITHIN ASPHALT PAVING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE.
 HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG CURBS. CURBS
 OR PAVEMENT AREAS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE
 CONTRACTOR'S EXPENSE.
- 23. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL LANDSCAPED AND PAVED AREAS. SEE REQUIREMENTS IN THE GEOTECHNICAL REPORT PREPARED BY _____.
- 24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ANY EXISTING IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO STREET PAVEMENT, FENCES, SOD, LANDSCAPING, SPRINKLER SYSTEMS, AND UTILITIES DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL LOCATION AND CONDITION.
- 25. IF ANY EXISTING STRUCTURES, SIDEWALK, AND/OR CURB AND GUTTER MODIFIED OR TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER PRIOR TO PROJECT CLOSE OUT.
- 26. THE CONTRACTOR SHALL PROTECT THE PROJECT BENCHMARK(S) THROUGHOUT CONSTRUCTION AND SET ADDITIONAL PROJECT BENCHMARKS AS NECESSARY TO MAINTAIN VERTICAL CONTROL THROUGHOUT THE DURATION OF THE PROJECT.
- 27. THE CONTRACTOR SHALL INSPECT AND REPAIR EXISTING DRAINAGE STRUCTURES AS NEEDED, AND CLEAN OUT EXISTING PIPES TO REMOVE ALL SILT AND DEBRIS.



THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ON THE SITE, AND OFFSITE IN WORK AREAS. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DATE OF CONSTRUCTION. FOR INFORMATION CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) — 1-800-922-1987. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.



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					12/08/22 CITY COMMENTS	07/07/22 INITIAL SUBMITTAL	△ DATE DESCRIPTION	REVISIONS
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GENERAL NOTES

DTI TRUCKS
TEELE STREET INDUSTRIAL PAR

Design By: J

BLOCK PARCEL CO

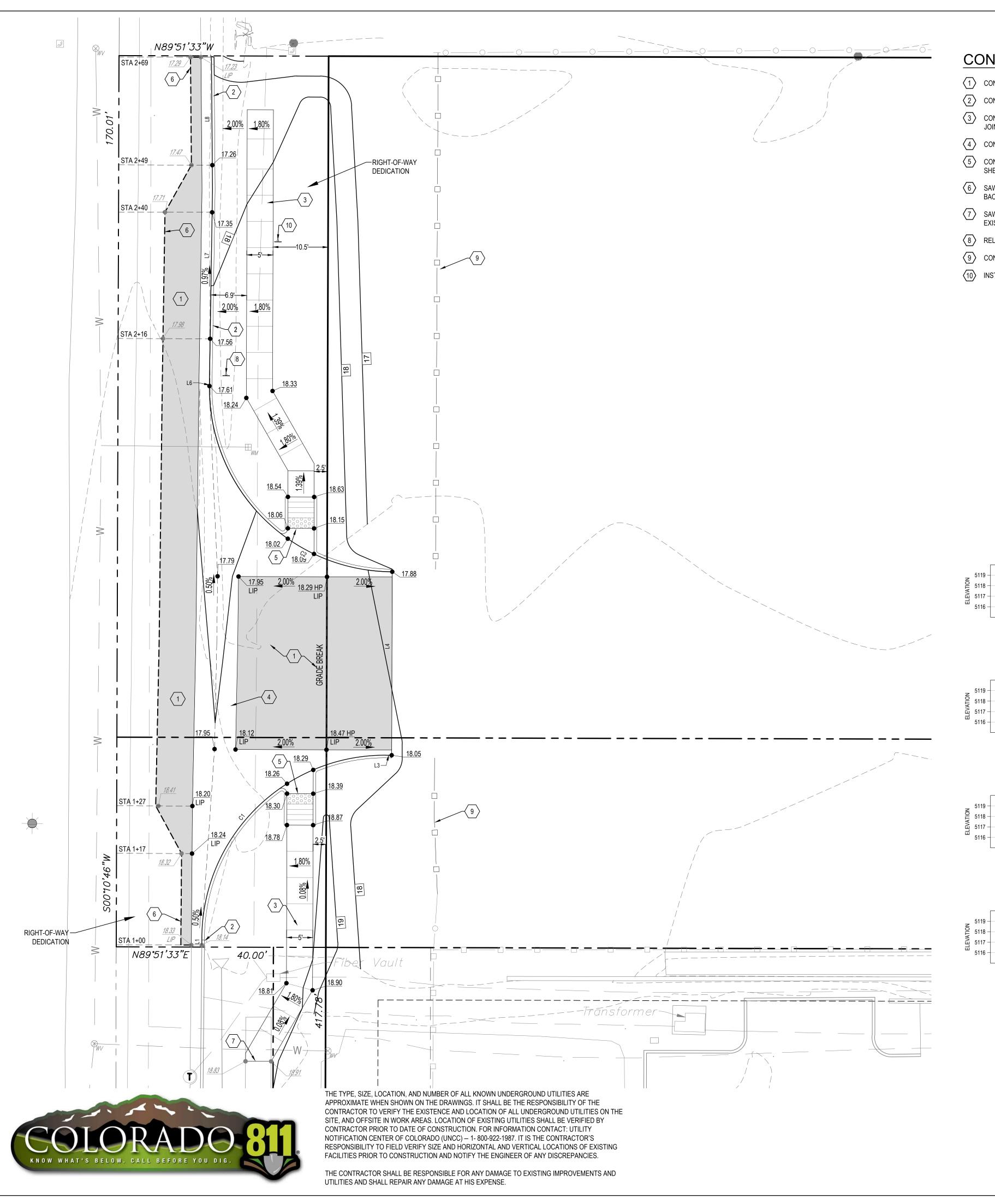
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Approved By: Project No.: Date:

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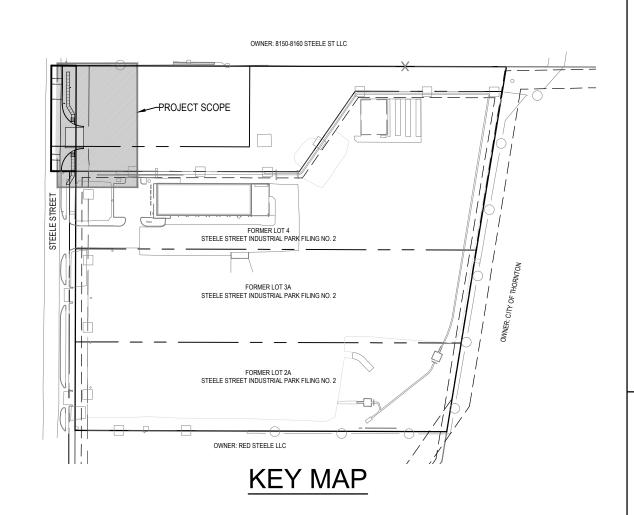
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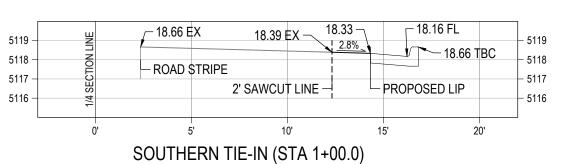


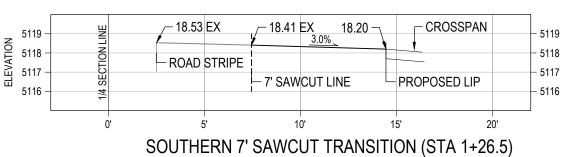
CONSTRUCTION NOTES

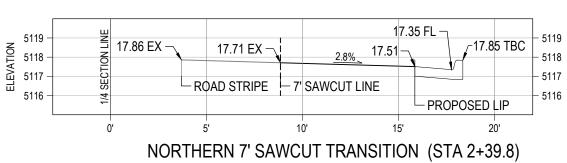
- (1) CONSTRUCT HEAVY DUTY ASPHALT PAVEMENT, MATCH DEPTH OF EXISTING PUBLIC ROAD PAVEMENT.
- (2) CONSTRUCT VERTICAL CURB WITH 2' GUTTER. SEE DETAIL FOR "VERTICAL CURB & GUTTER" ON SHEET C9.11.
- CONSTRUCT 5' CONCRETE SIDEWALK. SEE DETAIL FOR "DETACHED WALK OR DRIVE TIE-IN" AND "CONTROL JOINT" ON SHEET C9.11.
- (4) CONSTRUCT 8' WIDE CROSSPAN. SEE DETAIL ON SHEET C9.11.
- 5) CONSTRUCT CURB RAMP WITH DETECTABLE WARNING. SEE DETAIL FOR "PARALLEL CURB RAMP (TYPE B)" ON
- 6 SAWCUT PAVEMENT AS SHOWN, 2' AND 7' OFF PROPOSED CONCRETE LIP. DISPOSE OF OFF SITE. PATCH BACK WITH SAME DEPTH.
- SAWCUT SIDEWALK AT LEAST 8.5' FROM THE END OF THE EXISTING WALK TO THE NEXT JOINT AND MATCH
- 8 RELOCATE / REPLACE EXISTING SPEED LIMIT (R2-1) SIGN. SEE DETAIL ON SHEET 9.11.
- 9 CONSTRUCT STEEL PICKET FENCE. MATCH FENCE ON ADJACENT LOT SOUTH.
- 10 INSTALL SIDEWALK ENDS SIGN. SEE DETAIL ON SHEET 9.11.

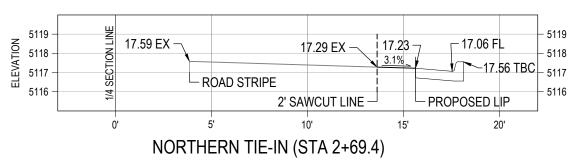
Parcel Line and Curve Table							
Line #/Curve #	Length	Bearing/Delta	Radius				
C1	54.81'	89°43'44"	35.00				
C2	55.30'	90°31'11"	35.00				
L1	1.50	N0°27'02"E					
L3	1.11	S89°49'14"E					
L4	35.00	N0°10'46"E					
L6	0.57	N0°41'57"E					
L7	36.92	N0°53'59"E					
L8	25.25	N0°27'27"W					









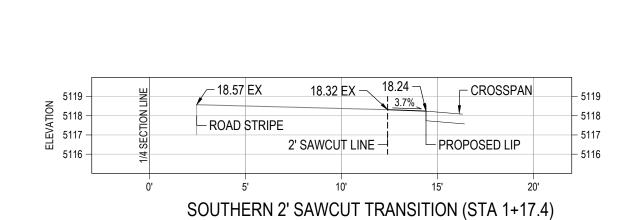


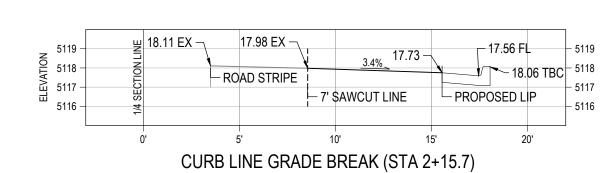
BENCHMARK

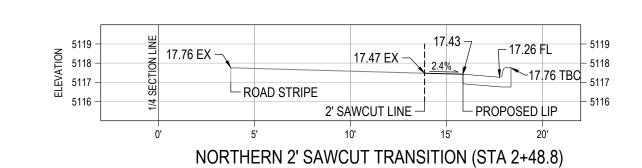
NGS BENCHMARK "E 392"

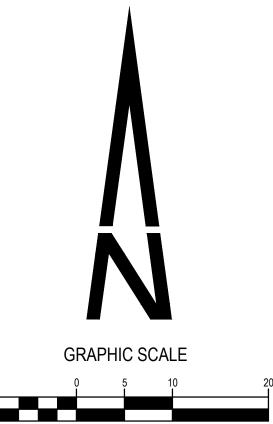
LOCATED AT THE JUNCTION OF THE UNION PACIFIC RAILROAD AND EAST 72ND AVENUE, 219.8 FEET NORTHEAST OF THE CENTERLINE OF THE AVENUE, 28.2 FEET SOUTHEAST OF THE NEAR RAIL.

ELEVATION = 5133.10 FEET (NAVD 1988)

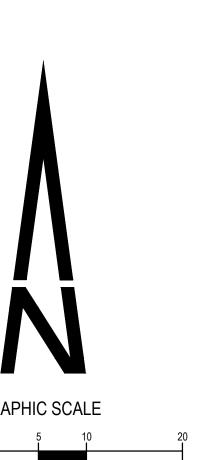








1 INCH = 10 FEET



Design By: JWD Approved By: 2022-013 Project No.: 06-15-2022 SHEET

TI TRUCKS TREET INDUSTRIAL PARK FILING NO. 4 OF SEC 25, T2S, R68W 6TH P.M. AMS, STATE OF COLORADO

LOT1, BLOCK 1, STEELE S PARCEL IN THE SE 1 COUNTY OF AD

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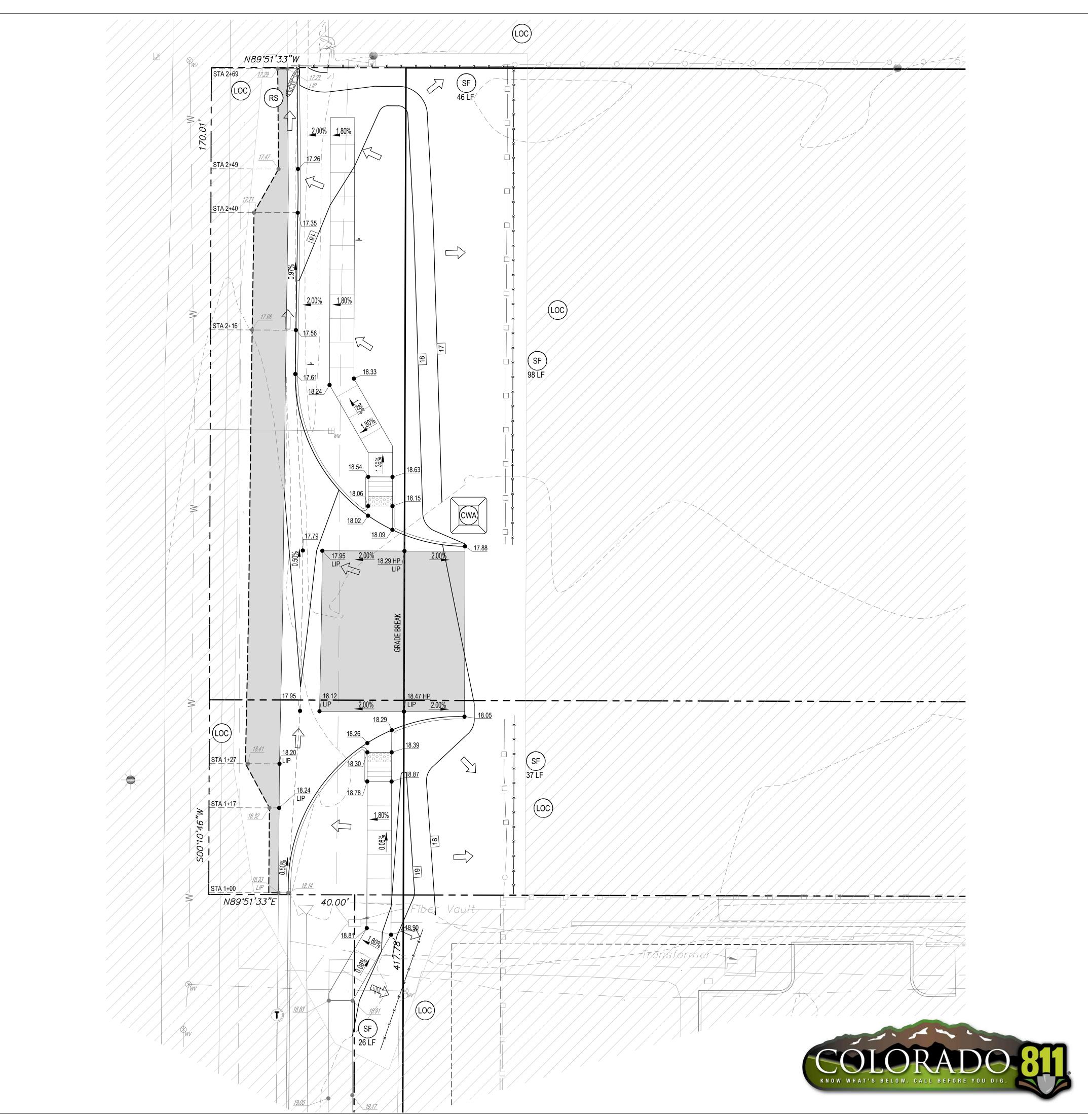
GRADING

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PREPARED UNDER THE DIRECT

SUPERVISION OF JERRY W. DAVIDSON, P.E. COLORADO REG # 30226 FOR AND ON BEHALF OF PERCEPTION DESIGN GROUP, INC

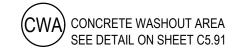
C3.10





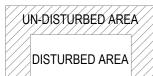
















FLOW DIRECTION

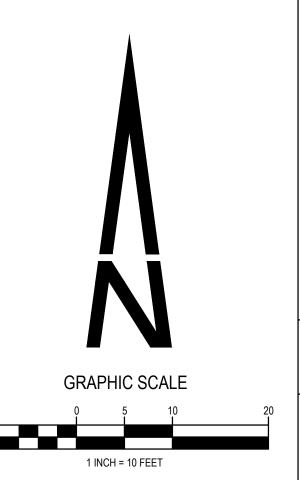
BENCHMARK

NGS BENCHMARK "E 392"

LOCATED AT THE JUNCTION OF THE UNION PACIFIC RAILROAD AND EAST 72ND AVENUE, 219.8 FEET NORTHEAST OF THE CENTERLINE OF THE AVENUE, 28.2 FEET SOUTHEAST OF THE NEAR RAIL.

ELEVATION = 5133.10 FEET (NAVD 1988)

NOTE: ELEVATIONS SHOWN ARE FLOWLINE UNLESS DESIGNATED OTHERWISE.



THE TYPE, SIZE, LOCATION, AND NUMBER OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ON THE SITE, AND OFFSITE IN WORK AREAS. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO DATE OF CONSTRUCTION. FOR INFORMATION CONTACT: UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) — 1-800-922-1987. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS AND UTILITIES AND SHALL REPAIR ANY DAMAGE AT HIS EXPENSE.

PERCEPTION
DESIGN GROUP, INC.
6901 SOUTH PIERCE STREET, SUITE 315, LITTLETON, CO 80128 303-232-8088
WWW.PERCEPTIONDESIGNGROUP.COM

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TROL PLAN
JCKS

DTI TRUCKS
CK 1, STEELE STREET INDUSTR
EL IN THE SE 1/4 OF SEC 25, T28

LOT1, BLOCK 1, STEELE S PARCEL IN THE SE 1 COUNTY OF AD

Design By: JWD
Approved By: JWD
Project No.: 2022-013
Date: 06-15-2022

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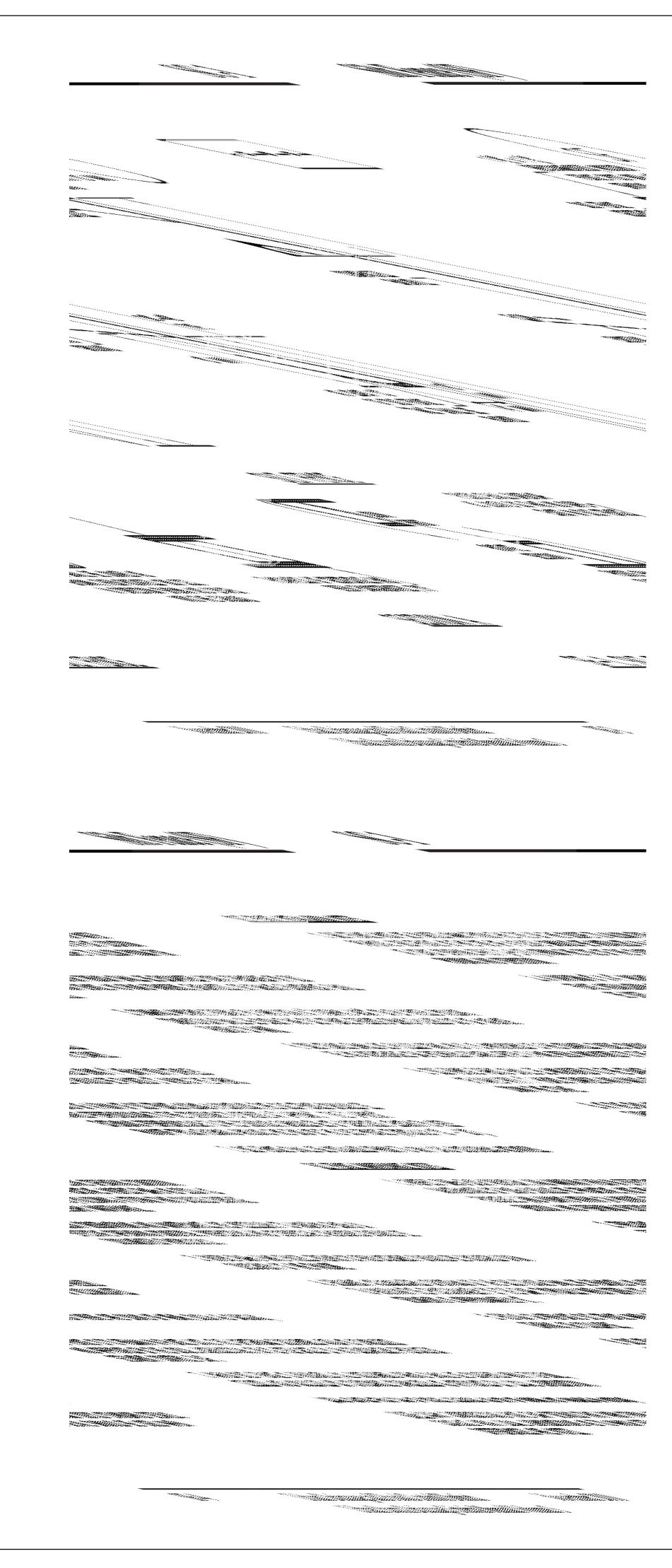
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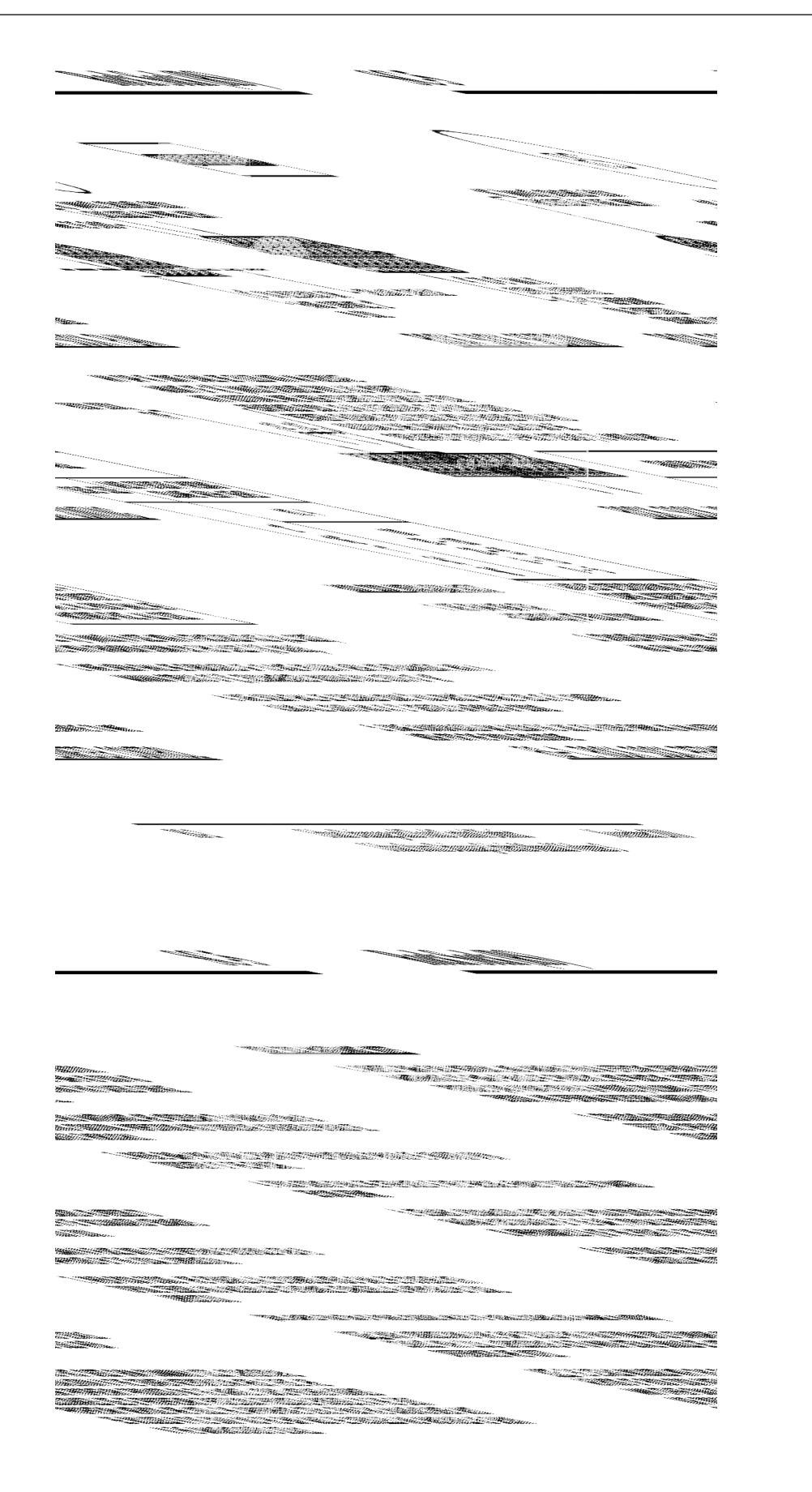
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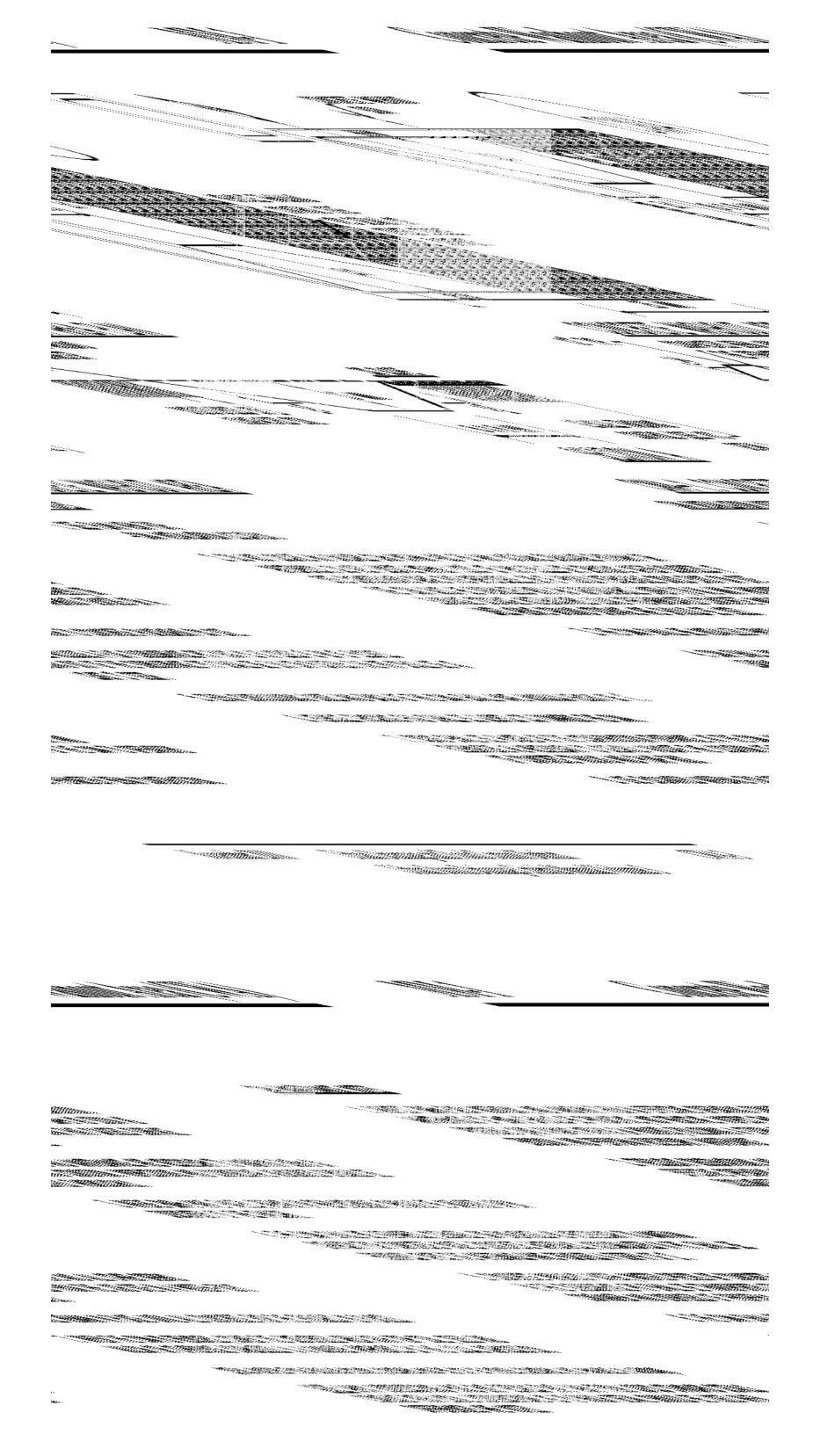
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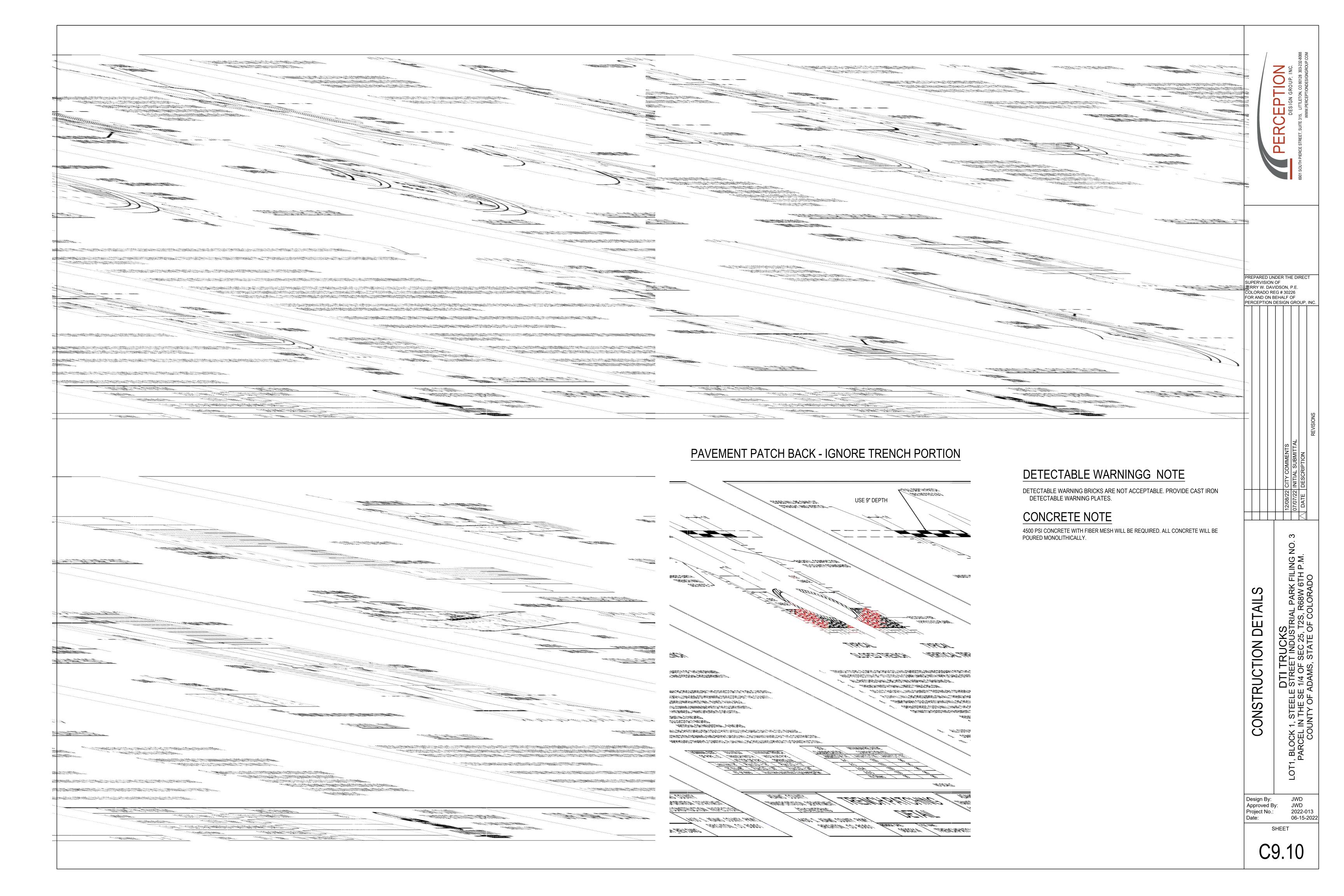
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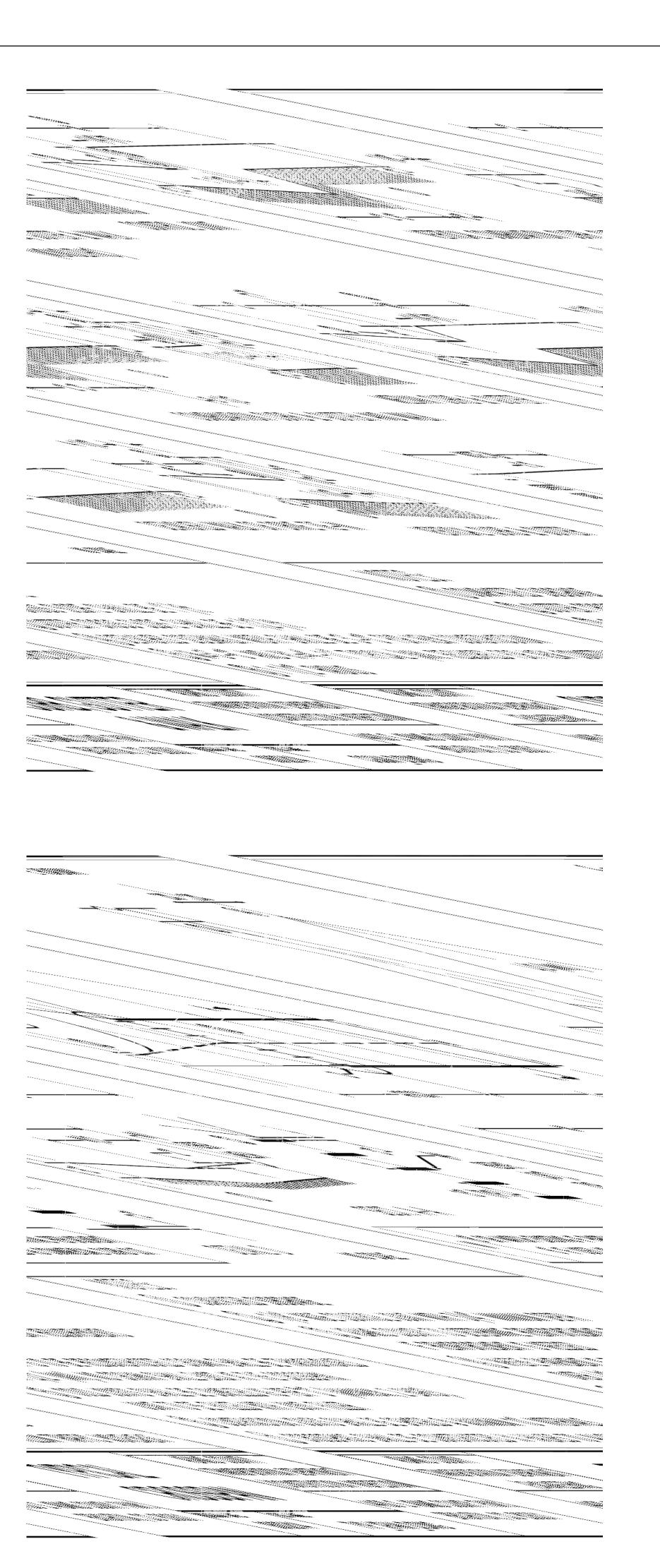
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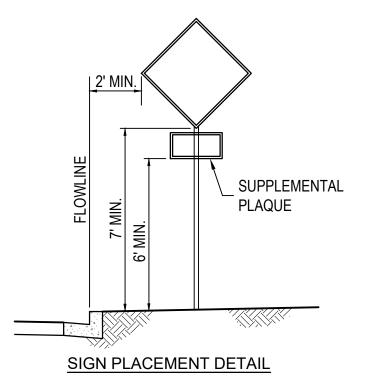
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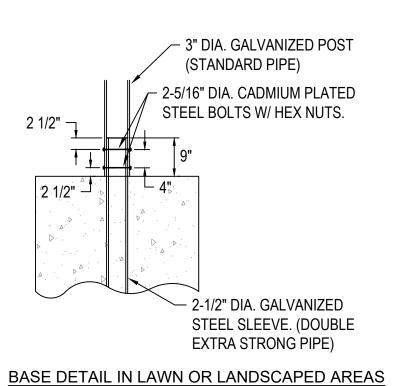
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PROVIDE TRAFFIC CONTROL SIGNS COMPLYING WITH U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION'S MANUAL "UNIFORM TRAFFIC CONTROL DEVICES", AND LOCAL CODES.

SITE SIGNAGE DETAILS

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CONSTRUCTION DETAILS

DTI TRUCKS

K 1, STEELE STREET INDUSTRIAL PARK FILING NO. SEL IN THE SE 1/4 OF SEC 25, T2S, R68W 6TH P.M.

SOUNTY OF ADAMS, STATE OF COLORADO

Design By:
Approved By:
Project No.:
Date:

Design By:
JWD
JWD
2022-013
06-15-2022

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FINAL DRAINAGE REPORT DTI TRUCKS

PREPARED FOR:

DTI HOLDINGS LLC 8955 W 44TH AVE WHEAT RIDGE, CO 80033



6901 SOUTH PIERCE STREET, SUITE 315 LITTLETON, CO 80128 CONTACT: JERRY W. DAVIDSON, P.E. (303) 232-8088

JOB #2022-013

MAY 11, 2023

ENGINEER'S STATEMENT

I hereby attest that this report for the Final drainage design of DTI Trucks, was prepared by me
or under my direct supervision, in accordance with the provisions of the Weld County
Engineering and Construction Guidelines for the responsible parties thereof.

Jerry W. Davidson, P.E. Colorado Registration No. 30226 For and on behalf of Perception Design Group, Inc.

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- C FIRM AND SOILS DATA
- D DRAINAGE MAP

Section 1: GENERAL LOCATION & DESCRIPTION

1.1 Purpose

The purpose of this report is to analyze the DTI Trucks property in its present condition to determine the adequacy of the existing on-site detention facility. This report serves as an addendum to the original approved report for the property entitled "Final Drainage Report For DTI Holdings LLC 8040 Steele Street Lots 2A, 3A, 4 Steele Street Industrial Park Filing No. 2 Part Of SW ½ SE ½ SEC 25, T2S, R68W Adams County Colorado" prepared by Western Engineering Consultants (WEC), Inc, LLC and dated December 30, 2015.

1.2 Site Location

The DTI Trucks project shown on Figure 1, is located in an unincorporated part of Adams County. The Project Site is currently developed with a building and parking lot used for commercial truck sales and service. The site is bounded to the south by industrial development, to the east by a reservoir, to the north by industrial development and to the west by Steele Street.

The project consists of Lot 1, Block 1, Steele Street Industrial Park Filing No. 3, a parcel located in the Southeast ¼ of Section 25, Township 2 South, Range 68 West of the 6th P.M., Adams County, Colorado. Lot 1 indicated above includes the original lots 2A, and 3A of Steele Street Industrial Park Filing No. 2 and Lot 4 of Steele Street Industrial Park referenced in the original report as well as two additional parcels north of Lot 4.

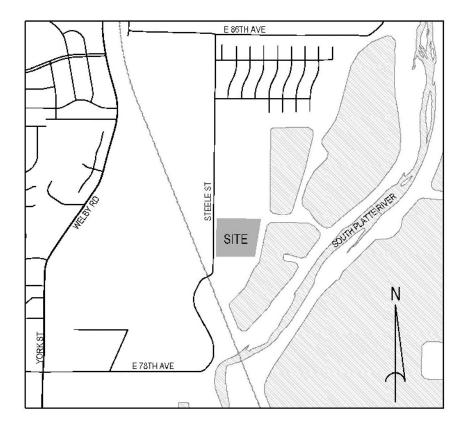


Figure 1: Vicinity Map (not to scale)

1.3 Description of Property

The site is developed with unpaved parking areas used for vehicle storage as well as paved portions and a building. Minimal landscaped areas are present. Site access is from curb cuts on Steele Street.

1.4 Existing Conditions

The Site encompasses approximately 8.7± acres of developed property. Existing topography has a gradual gradient from northwest to southeast. There is a drainage gutter that runs north-south along the east property line which accepts site runoff and conveys it southerly to the existing detention facility at the southeast corner of the site. The entirety of the site lies within flood zone X.

1.4.1 Soil Types

Natural Resource Conservation Service (NRCS) depict the Site soils to be in hydrological soils group A and C, Table 1 and Figure 2. Soil type C is noted by the NRCS as being well drained when wetted.

Map Unit Symbol	Hydrological Soils Group	Percent of AOI
NuA	С	97%
Tc	А	3%

 Table 1:
 Hydrological Soil Group Summary (Courtesy NRCS Web Soil Survey Website)



Figure 2: NRCS Soil Map (Courtesy NRCS Web Soil Survey Website)

1.4.2 Existing Irrigation and Major Drainage

There are no known wetlands, irrigation facilities or jurisdictional waters on the site. The site is traversed by a drainage channel along the south property line. The ultimate receiving water is the South Platte River located to the east of the project site.

1.4.3 Existing Drainage

Direct runoff from the site drains by overland sheet flow generally from northwest to southeast to a channel running parallel to the eastern property line. There is an existing detention and water quality facility at the southeast corner of the site.

1.4.4 History of Flooding

The entirety of the site lies within flood zone X.

Section 2: MAJOR DRAINAGE BASINS & SUB-BASINS

2.1 Major Basin

The Project Site is not traversed by a major drainage way. The ultimate receiving water is the South Platte River located to the east of the project site.

The Project Site is shown on Flood Insurance Rate Maps (FIRM) 08001C0602H, Effective March 5, 2007, and 08001C0604H, Effective March 5, 2007 Figure 3. The site is shown to be in Zone X Flood Areas on this FIRM map. Zone X Flood Areas are "Areas of Minimal Flood Hazard".

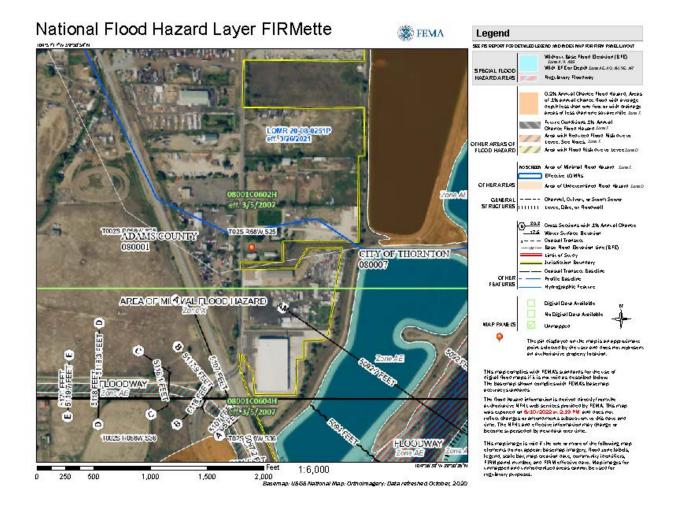


Figure 3: FIRM Map, Panel 08001C0602H, Effective March 5, 2007 (Courtesy FEMA)

Direct Runoff in the major basin drains from the southwest to northeast.

The basin in the area of the project is developed with a mixed use of residential, commercial, and industrial land. Predominate land use in the vicinity of the site is industrial development.

2.2 Sub-Basins

As previously indicated direct runoff from the site drains by overland sheet flow from the northwest to the southeast and discharges into the existing detention basin. The existing site is analyzed as a single basin with limits defined more or less by the property line and designated as DEV for "developed site". The developed site is analyzed as a single basin used to quantify detention and water quality requirements for the site as a whole.

Section 3: DRAINAGE DESIGN CRITERIA

3.1 Regulations

Onsite drainage design will adhere to Adams County Development Standards and Regulations and Urban Storm Drainage Criteria Manual. Proposed drainage concepts and patterns will adhere to existing drainage patterns.

3.2 Hydrologic Criteria

As the purpose of this report is to analyze existing detention and water quality improvements only, detailed runoff calculations are not needed. The site is divided into areas of various ground cover to determine site imperviousness for detention calculations.

Table 6.3 Recommended Percent Impervious Values and Table 6-5 Runoff Coefficients, from MHFD Volume I standards were referenced to determine Site drainage hydrology with the following deviation. Large portions of the site are compacted gravel / roadbase. MHFD Table calls for 40% imperviousness for this material. In our experience, there is a potential for greater imperviousness for this material when heavily compacted. As such, a value of 80% is selected which also matches suggested imperviousness for light industrial areas.

Sub- Basin	Percent Impervious (%)	Runoff Coefficient 5-year	Runoff Coefficient 100-year
DEV	73.47 %	0.64	0.78

Table 2: Percent Impervious & Runoff Coefficients

3.3 Hydraulic Criteria

There is no proposed storm sewer on the site.

3.4 Detention Criteria

The criteria used for detention and water quality analysis is the MHFD Full Spectrum method as presented on the MHFD Detention v4-06 spreadsheet. Rainfall data location is selected as Commerce City Civic Center as the closest available location.

3.5 Waivers

No waivers are requested as part of this analysis.

Section 4: DRAINAGE FACILITY DESIGN

4.1 Detention and Water Quality Analysis

The original approved WEC report calls for detention and water quality provision for basins L2A1, L2A2, L3A, and L4 as illustrated on the WEC Developed Drainage Plan. The report indicates that 6.88 acres are tributary to the detention facility with an imperviousness of 76.0%. WEC calculations indicate that a total detention and water quality volume required is 44,447 cubic feet which includes 50% water quality volume.

The current site analysis is presented in a single basin noted as DEV. This basin includes basins L2A1, L2A2, L3A, and L4 from the WEC study as well as additional area to the north added to the property via re-plat. Land area currently tributary to the existing pond is 8.49 acers at 73.47% impervious. When entered into the MHFD spreadsheet, required 100 year volume is 42,907 cubic feet. As-built pond volume provided at overflow is 50,618 cubic feet. Additional volume is not added for water quality per MHFD recommendations. In order to bring the existing pond into full compliance, a new orifice plate is required to control outfalls to required rates.

Section 5: CONCLUSIONS

The existing pond has adequate volume for the current site conditions. A new orifice plate is required to bring the release rates into compliance with current requirements. The project was analyzed in accordance with Mile High Flood District's criteria.

References

- 1. Adams County Development Standards and Regulations.
- 2. <u>Urban Storm Drainage Criteria Manual, Vol. 1 and Vol. 2</u>, Mile High Flood District, 2016.
- 3. <u>Urban Storm Drainage Criteria Manual, Vol. 3</u>, Mile High Flood District, November 2010.
- 4. <u>US Department of Agriculture Web Soil Survey</u>, Custom Soil Resource Report Larimer County Area, Colorado.
- 5. Federal Emergency Management Agency, Firmett Web Service, Flood Insurance Rate Map
- 6. <u>Final Drainage Report for DTI Holdings LLC</u>, Western Engineering Consultants (WEC), Inc, LLC and dated December 30, 2015

Appendix A: HYDROLOGY

- 1. Table 6-3 "Recommended Percent Impervious Values"
- 2. Table 6-5 "Run Off Coefficients (c)"
- 3. Basin Composite Imperviousness and Runoff Coefficients

Runoff Chapter 6

Table 6-3. Recommended percentage imperviousness values

Land Use or	Percentage Imperviousness
Surface Characteristics	(%)
Business:	
Downtown Areas	95
Suburban Areas	75
Residential lots (lot area only):	-
Single-family	
2.5 acres or larger	12
0.75 – 2.5 acres	20
0.25 - 0.75 acres	30
0.25 acres or less	45
Apartments	75
Industrial:	
Light areas	80
Heavy areas	90
Parks, cemeteries	10
Playgrounds	25
Schools	55
Railroad yard areas	50
Undeveloped Areas:	·
Historic flow analysis	2
Greenbelts, agricultural	2
Off-site flow analysis (when land use not defined)	45
Streets:	
Paved	100
Gravel (packed)	40
Drive and walks	90
Roofs	90
Lawns, sandy soil	2
Lawns, clayey soil	2

Chapter 6 Runoff

Total or Effective	NRCS Hydrologic Soil Group C						
% Impervious	2-Year	5-Year	10-Year	25-Year	50-Year	100-Year	500-Year
2%	0.01	0.05	0.15	0.33	0.40	0.49	0.59
5%	0.03	0.08	0.17	0.35	0.42	0.5	0.6
10%	0.06	0.12	0.21	0.37	0.44	0.52	0.62
15%	0.1	0.16	0.24	0.4	0.47	0.55	0.64
20%	0.14	0.2	0.28	0.43	0.49	0.57	0.65
25%	0.18	0.24	0.32	0.46	0.52	0.59	0.67
30%	0.22	0.28	0.35	0.49	0.54	0.61	0.68
35%	0.26	0.32	0.39	0.51	0.57	0.63	0.7
40%	0.3	0.36	0.43	0.54	0.59	0.65	0.71
45%	0.34	0.4	0.46	0.57	0.62	0.67	0.73
50%	0.38	0.44	0.5	0.6	0.64	0.69	0.75
55%	0.43	0.48	0.54	0.63	0.66	0.71	0.76
60%	0.47	0.52	0.57	0.65	0.69	0.73	0.78
65%	0.51	0.56	0.61	0.68	0.71	0.75	0.79
70%	0.56	0.61	0.65	0.71	0.74	0.77	0.81
75%	0.6	0.65	0.68	0.74	0.76	0.79	0.82
80%	0.65	0.69	0.72	0.77	0.79	0.81	0.84
85%	0.7	0.73	0.76	0.79	0.81	0.83	0.86
90%	0.74	0.77	0.79	0.82	0.84	0.85	0.87
95%	0.79	0.81	0.83	0.85	0.86	0.87	0.89
100%	0.83	0.85	0.87	0.88	0.89	0.89	0.9

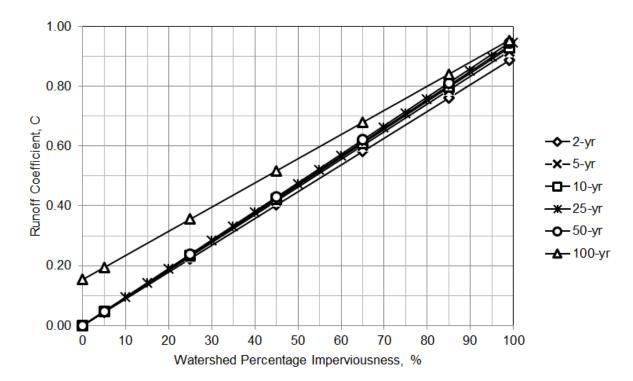


Figure 6-1. Runoff coefficient vs. watershed imperviousness NRCS HSG A

Perception Design Group, Inc.

6901 South Pierce Street, Suite 315

Littleton, Colorado 80128

(303) 232-8088 Fax (303) 232-5255

Designed by: JWD

Date: 12-May-23

Job Number: 2022-013

Project: DTI Trucks

COMPOSITE RUNOFF COEFFICIENTS

	ROOF		ROADBA	<u>ISE</u>	PAVEME	:NT	LANDSCAF	PING			
Catchment	Area (Ac.)	С	Area (Ac.)	С	Area (Ac.)	С	Area (Ac.)	С	Composite C	Catchment Area (Ac.)	Imperviousness
	Imperviousness = 90%	0.90	Imperviousness = 80%	0.80	Imperviousness = 100%	1.00	Imperviousness = 2%	0.02			
Developed Site (5-Year)	0.22	0.77	6.45	0.69	0.86	0.85	0.96	0.05	0.64	8.49	
Developed Site (100-Year)	0.22	0.85	6.45	0.81	0.86	0.89	0.96	0.49	0.78	8.49	73.47%

Appendix B: DETENTION AND WATER QUALITY

1. MHFD Spreadsheet Output

DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.06 (July 2022)

Project: <u>DTI Trucks</u> Basin ID: Entire Site 200 YR OCUME EURY WOOT TOO YEAR

PERIMANENT CONE 1 AND 2 ORIFICES
POOL Example Zone Configuration (Retention Pond)

Watershed Information

	EDB	Selected BMP Type =
acres	8.49	Watershed Area =
ft	780	Watershed Length =
ft	390	Watershed Length to Centroid =
ft/ft	0.010	Watershed Slope =
percent	73.47%	Watershed Imperviousness =
percent	3.0%	Percentage Hydrologic Soil Group A =
percent	0.0%	Percentage Hydrologic Soil Group B =
percent	97.0%	Percentage Hydrologic Soil Groups C/D =
hours	40.0	Target WQCV Drain Time =
y - Civic Cente	Commerce City	Location for 1-hr Rainfall Depths =

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

the embedded Colorado Urban Hydro	graph Procedul	re.
Water Quality Capture Volume (WQCV) =	0.206	acre-feet
Excess Urban Runoff Volume (EURV) =	0.614	acre-feet
2-yr Runoff Volume (P1 = 0.84 in.) =	0.396	acre-feet
5-yr Runoff Volume (P1 = 1.12 in.) =	0.566	acre-feet
10-yr Runoff Volume (P1 = 1.37 in.) =	0.734	acre-feet
25-yr Runoff Volume (P1 = 1.75 in.) =	1.019	acre-feet
50-yr Runoff Volume (P1 = 2.08 in.) =	1.256	acre-feet
100-yr Runoff Volume (P1 = 2.43 in.) =	1.522	acre-feet
500-yr Runoff Volume (P1 = 3.35 in.) =	2.194	acre-feet
Approximate 2-yr Detention Volume =	0.387	acre-feet
Approximate 5-yr Detention Volume =	0.565	acre-feet
Approximate 10-yr Detention Volume =	0.680	acre-feet
Approximate 25-yr Detention Volume =	0.811	acre-feet
Approximate 50-yr Detention Volume =	0.881	acre-feet
Approximate 100-yr Detention Volume =	0.985	acre-feet

Optional User	Override
	acre-feet
	acre-feet
	inches

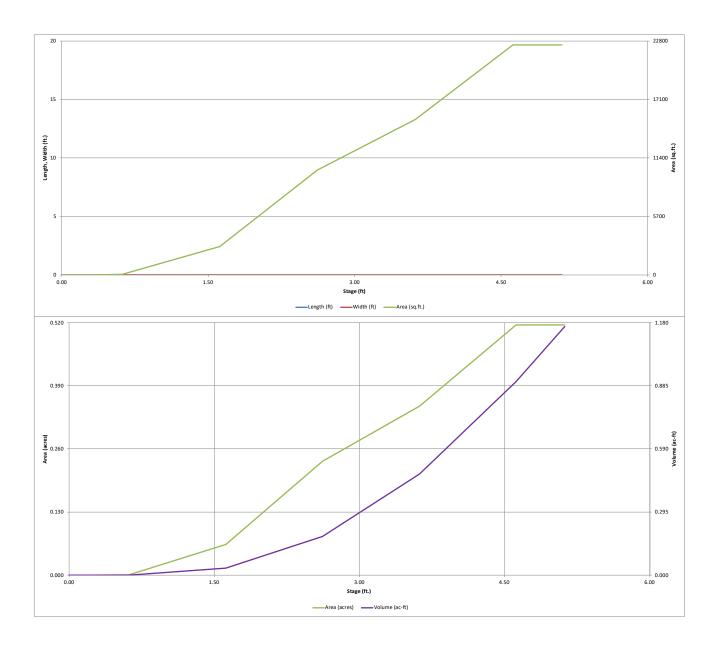
Define Zones and Basin Geometry

enne zones and basin Geometry		
Zone 1 Volume (WQCV) =	0.206	acre-fee
Zone 2 Volume (EURV - Zone 1) =	0.408	acre-fee
Zone 3 Volume (100-year - Zones 1 & 2) =	0.370	acre-fee
Total Detention Basin Volume =	0.985	acre-fee
Initial Surcharge Volume (ISV) =	user	ft ³
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H _{total}) =	user	ft
Depth of Trickle Channel $(H_{TC}) =$	user	ft
Slope of Trickle Channel (S _{TC}) =	user	ft/ft
Slopes of Main Basin Sides (S _{main}) =	user	H:V
Basin Length-to-Width Ratio ($R_{L/W}$) =	user	

Initial Surcharge Area $(A_{ISV}) =$	user	ft ²
Surcharge Volume Length $(L_{ISV}) =$	user	ft
Surcharge Volume Width $(W_{ISV}) =$	user	ft
Depth of Basin Floor (H_{FLOOR}) =	user	ft
Length of Basin Floor $(L_{FLOOR}) =$	user	ft
Width of Basin Floor $(W_{FLOOR}) =$	user	ft
Area of Basin Floor (A_{FLOOR}) =	user	ft ²
Volume of Basin Floor (V _{FLOOR}) =	user	ft ³
Depth of Main Basin $(H_{MAIN}) =$	user	ft
Length of Main Basin $(L_{MAIN}) =$	user	ft
Width of Main Basin $(W_{MAIN}) =$	user	ft
Area of Main Basin $(A_{MAIN}) =$	user	ft ²
Volume of Main Basin (V_{MAIN}) =	user	ft ³
Calculated Total Basin Volume (V_{total}) =	user	acre-feet

Donth Incoment -		ft							
Depth Increment =		Optional				Optional			
Stage - Storage Description	Stage (ft)	Override Stage (ft)	Length (ft)	Width (ft)	Area (ft ²)	Override Area (ft ²)	Area (acre)	Volume (ft 3)	Volume (ac-ft)
Top of Micropool		0.00				0	0.000	(10)	(dc re)
Plan 5106.63		0.25				0	0.000	0	0.000
Plan 5107		0.62				34	0.001	6	0.000
Plan 5108		1.62				2,765	0.063	1,406	0.032
Plan 5109		2.62			-	10,219	0.235	7,898	0.181
Plan 5110		3.62				15,166	0.348	20,590	0.473
Plan 5111		4.62				22,449	0.515	39,398	0.904
Plan 5111.5	-	5.12			-	22,449	0.515	50,622	1.162
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MHFD-Detention_v4-06 (1).xlsm, Basin 5/11/2023, 12:41 PM



MHFD-Detention_v4-06 (1).xlsm, Basin 5/11/2023, 12.41 PM

DETENTION BASIN OUTLET STRUCTURE DESIGN Project: DTI Trucks Basin ID: Entire Site Estimated Estimated Volume (ac-ft) Outlet Type Stage (ft) Zone 1 (WQCV 2.73 0.206 Orifice Plate Zone 2 (EURV 4.00 0.408 Orifice Plate Zone 3 (100-year) 4.78 0.370 Weir&Pipe (Restrict) **Example Zone Configuration (Retention Pond)** Total (all zones 0.985 User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP) Calculated Parameters for Underdrain ft (distance below the filtration media surface) Underdrain Orifice Invert Depth = Underdrain Orifice Area N/A N/A Underdrain Orifice Centroid : Underdrain Orifice Diameter inches feet N/A N/A User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WQCV and/or EURV in a sedimentation BMP) Calculated Parameters for Plate ft (relative to basin bottom at Stage = 0 ft) WQ Orifice Area per Row Centroid of Lowest Orifice = 0.00 N/A Depth at top of Zone using Orifice Plate = ft (relative to basin bottom at Stage = 0 ft) Elliptical Half-Width : 4.00 N/A feet Orifice Plate: Orifice Vertical Spacing = Elliptical Slot Centroid : feet N/A nches N/A Orifice Plate: Orifice Area per Row = Elliptical Slot Area N/A sa, inches N/A User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest Row 1 (required) Row 2 (optional) Row 3 (optional) Row 4 (ontional) Row 5 (ontional) Row 6 (optional) Row 7 (ontional) Row 8 (optional) Stage of Orifice Centroid (ft 0.00 1.33 2.67 Orifice Area (sq. inches) 0.79 0.79 1.77 Row 9 (optional) Row 10 (optional) Row 11 (optional) Row 12 (optional) Row 13 (optional) Row 14 (optional) Row 15 (optional) Row 16 (optional) Stage of Orifice Centroid (ft) Orifice Area (sq. inches) User Input: Vertical Orifice (Circular or Rectangular) Calculated Parameters for Vertical Orifice Not Selected Not Selected Not Selected Not Selected N/A Invert of Vertical Orifice N/A N/A ft (relative to basin bottom at Stage = 0 ft) Vertical Orifice Area Depth at top of Zone using Vertical Orifice : N/A N/A ft (relative to basin bottom at Stage = 0 ft) Vertical Orifice Centroid = N/A N/A feet Vertical Orifice Diameter = N/A N/A User Input: Overflow Weir (Dropbox with Flat or Sloped Grate and Outlet Pipe OR Rectangular/Trapezoidal Weir and No Outlet Pipe) Calculated Parameters for Overflow Weir Zone 3 Weir Not Selected Zone 3 Wei Not Selected Overflow Weir Front Edge Height, Ho t (relative to basin bottom at Stage = 0 ft) Height of Grate Upper Edge, H_t 4.00 N/A N/A Overflow Weir Front Edge Length = Overflow Weir Slope Length : 4.00 N/A feet eet Overflow Weir Grate Slope N/A H:V Grate Open Area / 100-yr Orifice Area N/A Horiz. Length of Weir Sides = Overflow Grate Open Area w/o Debris = 4.00 N/A feet N/A Overflow Grate Open Area w/ Debris = Overflow Grate Type = N/A Debris Clogging % = 0% User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice) Calculated Parame for Outlet Pipe w/ Flow Restriction Plate Zone 3 Restrictor Not Selected Zone 3 Restrictor Not Selected Depth to Invert of Outlet Pipe 0.00 N/A t (distance below basin bottom at Stage = 0 ft) Outlet Orifice Area 0.68 N/A Outlet Pipe Diameter 30.00 inches Outlet Orifice Centroid N/A 0.29 N/A Restrictor Plate Height Above Pipe Invert = Half-Central Angle of Restrictor Plate on Pipe = radians 0.92 N/A User Input: Emergency Spillway (Rectangular or Trapezoidal) Calculated Parameters for Spillway Spillway Invert Stage= ft (relative to basin bottom at Stage = 0 ft) Spillway Design Flow Depth= feet Spillway Crest Length = Stage at Top of Freeboard = feet feet Spillway End Slopes H:V Basin Area at Top of Freeboard acres Freeboard above Max Water Surface = Basin Volume at Top of Freeboard = acre-ft eet Routed Hydrograph Results Design Storm Return Period = WOCV FURV 2 Year 5 Year 10 Year 25 Year 50 Year 100 Year One-Hour Rainfall Depth (in) 0.84 N/A 0.206 N/A 0.614 1.12 0.566 1.37 0.734 1.75 2.08 1.256 1.522 3.35 2.194 CUHP Runoff Volume (acre-ft) Inflow Hydrograph Volume (acre-ft) N/A 0.8 10.8 CUHP Predevelopment Peak O (cfs) 0.1 5.6 OPTIONAL Override Predevelopment Peak Q (cfs) Predevelopment Unit Peak Flow, q (cfs/acre) N/A N/A N/A N/A 0.66 0.01 0.10 0.26 0.93 1.27 2.03 Peak Inflow O (cfs) N/A N/A 0.2 17.5 0.2 21. 0.2 37.3 0.2 9.6 Peak Outflow Q (cfs) N/A Plate N/A Ratio Peak Outflow to Predevelopment O N/A N/A 0.2 0.1 0.0 0.0 0.0 0.0

MHFD-Detention v4-06 (1).xlsm, Outlet Structure 5/11/2023, 12:45 PM

N/A

N//

76

3.8

Plate N/A

88

4.21

Plate N/A

105

4.78

N/A

119

N/A N/A

>120

5.12

N/A N/A

>120

5.12

Plate N/A

63

3.33

Plate N/A

44

79

4.00

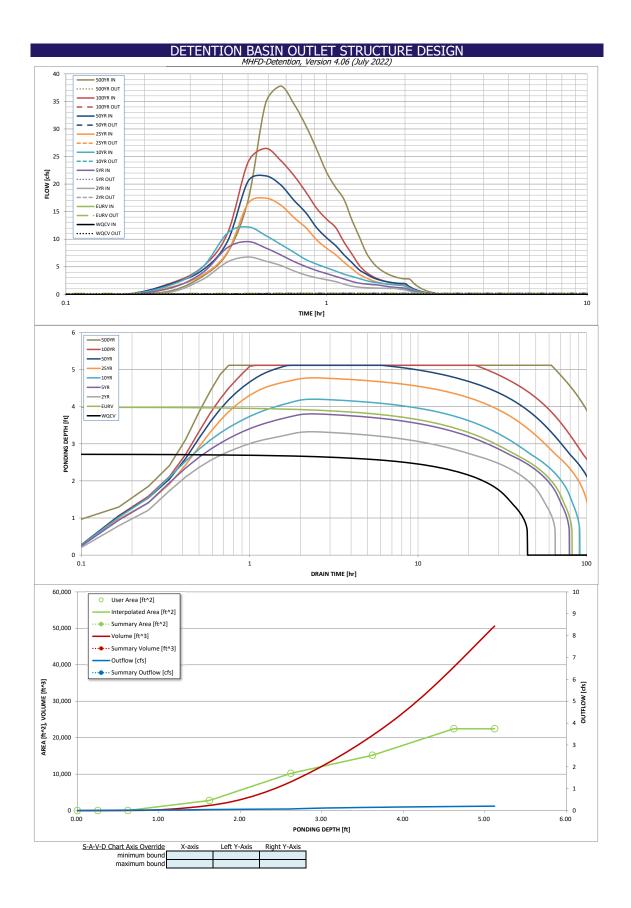
Structure Controlling Flow

Maximum Ponding Depth (ft):

Max Velocity through Grate 1 (fps) Max Velocity through Grate 2 (fps)
Time to Drain 97% of Inflow Volume (hours)

Time to Drain 99% of Inflow Volume (hours)

Area at Maximum Ponding Depth (acres) Maximum Volume Stored (acre-ft) =



MHFD-Detention_v4-06 (1).xism, Outlet Structure 5/11/2023, 12:45 PM

DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename:

Inflow Hydrographs

	SOURCE	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP
Time Interval	TIME	WQCV [cfs]	EURV [cfs]	2 Year [cfs]	5 Year [cfs]	10 Year [cfs]	25 Year [cfs]	50 Year [cfs]	100 Year [cfs]	500 Year [cfs]
5.00 min	0:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00 111111										
	0:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
	0:15:00	0.00	0.00	0.37	1.09	1.61	1.28	1.86	1.95	3.21
	0:20:00	0.00	0.00	2.67	3.87	4.87	3.45	4.36	4.93	7.54
	0:25:00	0.00	0.00	5.88	8.48	11.12	7.69	9.61	11.05	17.10
	0:30:00	0.00	0.00	6.77	9.57	12.23	16.49	20.52	23.98	34.61
	0:35:00	0.00	0.00	6.03	8.42	10.69	17.46	21.50	26.47	37.76
	0:40:00	0.00	0.00	5.24	7.16	9.07	16.20	19.86	24.28	34.54
	0:45:00	0.00	0.00	4.25	5.95	7.63	13.92	17.06	21.54	30.58
	0:50:00	0.00	0.00	3.50	5.04	6.31	12.10	14.80	18.55	26.31
	0:55:00	0.00	0.00	3.02	4.32	5.47	9.87	12.08	15.59	22.16
	1:00:00	0.00	0.00	2.65	3.77	4.83	8.38	10.27	13.65	19.40
	1:05:00	0.00	0.00	2.31	3.26	4.21	7.20	8.84	12.12	17.23
	1:10:00	0.00	0.00	1.85	2.80	3.67	5.83	7.18	9.49	13.54
	1:15:00	0.00	0.00	1.50	2.34	3.26	4.69	5.78	7.35	10.54
	1:20:00	0.00	0.00	1.31	2.04	2.89	3.62	4.47	5.31	7.65
	1:25:00	0.00	0.00	1.21	1.87	2.51	3.01	3.71	4.05	5.86
	1:30:00	0.00	0.00	1.15	1.77	2.24	2.50	3.08	3.27	4.74
	1:35:00	0.00	0.00	1.12	1.69	2.05	2.17	2.66	2.77	4.01
	1:40:00	0.00	0.00	1.10	1.51	1.92	1.94	2.38	2.42	3.51
	1:45:00	0.00	0.00	1.08	1.37	1.83	1.80	2.20	2.19	3.18
	1:50:00	0.00	0.00	1.07	1.27	1.76	1.70	2.20	2.03	2.94
	1:55:00	0.00	0.00	0.92	1.20	1.67	1.63	1.98	1.93	2.80
	2:00:00	0.00	0.00	0.92	1.20	1.50	1.59	1.98	1.93	2.80
	2:05:00	0.00	0.00	0.81	0.79	1.06	1.13	1.93	1.35	1.96
	2:10:00	0.00	0.00	0.40	0.55	0.74	0.80	0.96	0.96	1.38
	2:15:00	0.00	0.00	0.28	0.38	0.51	0.55	0.67	0.67	0.97
	2:20:00	0.00	0.00	0.19	0.25	0.35	0.37	0.45	0.45	0.65
	2:25:00	0.00	0.00	0.12	0.16	0.23	0.25	0.30	0.30	0.43
	2:30:00	0.00	0.00	0.07	0.11	0.15	0.16	0.20	0.20	0.28
	2:35:00	0.00	0.00	0.04	0.06	0.08	0.10	0.12	0.12	0.17
	2:40:00	0.00	0.00	0.02	0.03	0.04	0.05	0.06	0.06	0.08
	2:45:00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.03
	2:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:25:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:05:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:25:00 4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4:55:00 5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:10:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:15:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:20:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:25:00 5:30:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:35:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:40:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:45:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:50:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5:55:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6:00:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

MHFD-Detention_v4-06 (1).xism, Outlet Structure 5/11/2023, 12:45 PM

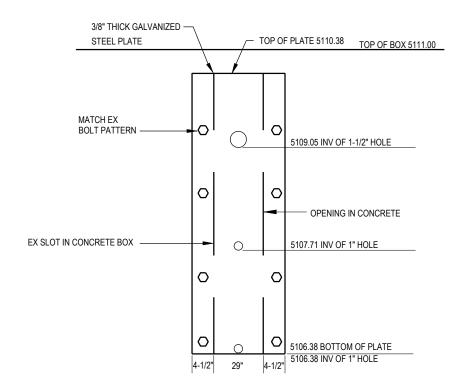
DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.06 (July 2022)

Summary Stage-Area-Volume-Discharge Relationships
The user can create a summary S-A-V-D by entering the desired stage increments and the remainder of the table will populate automatically.
The user should graphically compare the summary S-A-V-D table to the full S-A-V-D table in the chart to confirm it captures all key transition points.

Stage - Storage Description	Stage [ft]	Area [ft²]	Area [acres]	Volume [ft ³]	Volume [ac-ft]	Total Outflow [cfs]	
							For best results, include the
							stages of all grade slope
							changes (e.g. ISV and Floor) from the S-A-V table on
							Sheet 'Basin'.
							Also include the inverts of all
							outlets (e.g. vertical orifice,
							overflow grate, and spillway, where applicable).
							1
							-
							1
							1
							1
							1
]
							j
]
							1
]
							1
]
							-
							j
							1
							j

5/11/2023, 12:45 PM MHFD-Detention_v4-06 (1).xlsm, Outlet Structure



ORIFICE PLATE

REPLACE EXISTING PLATE
ON INSIDE OF OUTLET STRUCTURE BOX

Appendix C: FIRM AND SOILS DATA

- 1. FIRM
- 2. Soils Map and Data

NOTES TO USERS

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

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

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

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

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

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

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

Base map information shown on this FIRM was provided by the Adams County and Commerce City GIS departments. The coordinate system used for the production of the digital FIRM is Universe Transverse Mercator, Zone 13N, referenced to North American Datum of 1983 and the GRS 80 spheroid, Western Hemisphere.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

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

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

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

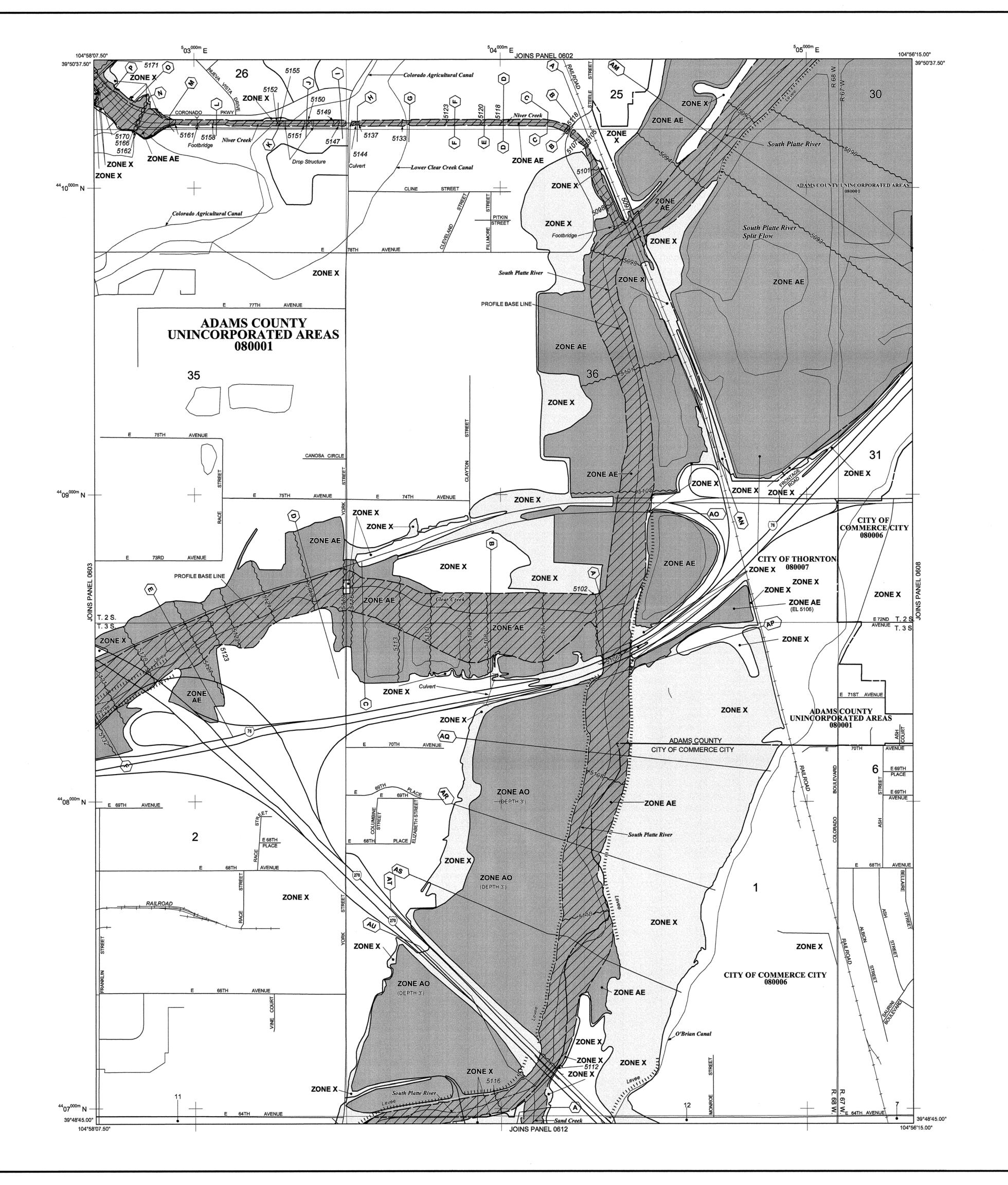
If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP**(1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the State of Colorado Water Conservation Board, the Urban Drainage and Flood Control District, and the Federal Emergency Management Agency (FEMA). The State of Colorado Water Conservation Board and the Urban Drainage and Flood Control District have implemented a long-term approach of floodplain management to reduce the costs associated with flooding. As part of this effort, both the State of Colorado and the Urban Drainage and Flood Control District have joined in Cooperating Technical Partner agreements with FEMA to produce this digital FIRM.

Additional flood hazard information and resources are available from local communities, the Colorado Water Conservation Board, and the Urban Drainage and Flood Control District.







LEGEND SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. ZONE A No Base Flood Elevations determined. **ZONE AE** Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or

ZONE A99 Area to be protected from 1% annual chance flood by a Federal

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

Elevations determined.

substantial increases in flood heights.

OTHER AREAS

••••••

23-----23

97°07'30", 32°22'30"

6000000 M

DX5510

March 5, 2007 - to update map format.

NEGITIONAL

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

flood protection system under construction; no Base Flood Elevations

Coastal flood zone with velocity hazard (wave action); no Base Flood

Coastal flood zone with velocity hazard (wave action); Base Flood

Areas of 0.2% annual chance flood; areas of 1% annual chance flood

with average depths of less than 1 foot or with drainage areas less than

1 square mile; and areas protected by levees from 1% annual chance

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

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

Boundary dividing Special Flood Hazard Areas of different

Base Flood Elevation value where uniform within zone;

Geographic coordinates referenced to the North American

1000-meter Universal Transverse Mercator grid ticks, zone 13

5000-foot grid ticks: Alabama State Plane coordinate

system, east zone (FIPSZONE 0101), Transverse Mercator

Bench mark (see explanation in Notes to Users section of

PANEL 0604H

FLOOD INSURANCE RATE MAP

AND INCORPORATED AREAS

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

080001

080007

Notice to User: The Map Number shown below should be

used when placing map orders; the Community Number shown above should be used on insurance applications for the subject

Federal Emergency Management Agency

NUMBER PANEL SUFFIX

0604

0604

0604

MAP NUMBER 08001C0604H

MAP REVISED

MARCH 5, 2007

ADAMS COUNTY,

COLORADO

PANEL 604 OF 1150

COMMERCE CITY, CITY OF 080006

CONTAINS:

ADAMS COUNTY

THORNTON, CITY OF

■ METERS

Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet*

Areas in which flood hazards are undetermined, but possible.

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

OTHERWISE PROTECTED AREAS (OPAs)

Floodplain boundary

Zone D boundary

elevation in feet*

this FIRM panel)

Datum of 1983 (NAD 83)

MAP REPOSITORIES

Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP

August 16, 1995 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community

To determine if flood insurance is available in this community, contact your insurance

MAP SCALE 1" = 500'

Map History table located in the Flood Insurance Study report for this jurisdiction.

FIRM

agent or call the National Flood Insurance Program at 1-800-638-6620.

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

NOTES TO USERS

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

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

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

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

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

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 13. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC- 3, #9202 1315 East- West Highway Silver Spring, MD 20910- 3282

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

Base map information shown on this FIRM was provided by the Adams County and Commerce City GIS departments. The coordinate system used for the production of the digital FIRM is Universe Transverse Mercator, Zone 13N, referenced to North American Datum of 1983 and the GRS 80 spheroid, Western Hemisphere.

This map reflects more detailed and up- to- date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

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

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

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a *Flood Insurance Study report*, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

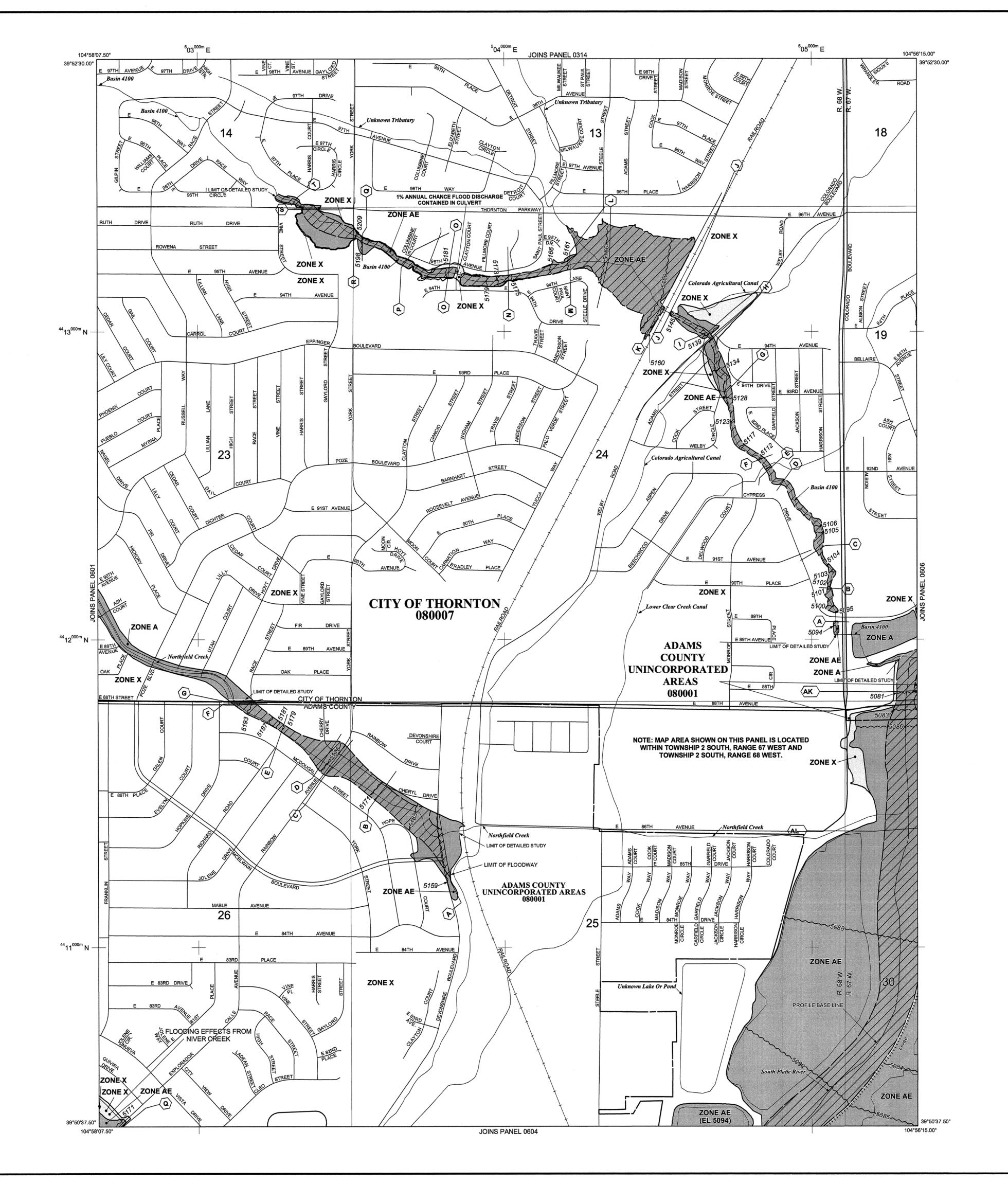
If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.

This digital Flood Insurance Rate Map (FIRM) was produced through a cooperative partnership between the State of Colorado Water Conservation Board, the Urban Drainage and Flood Control District, and the Federal Emergency Management Agency (FEMA). The State of Colorado Water Conservation Board and the Urban Drainage and Flood Control District have implemented a long-term approach of floodplain management to reduce the costs associated with flooding. As part of this effort, both the State of Colorado and the Urban Drainage and Flood Control District have joined in Cooperating Technical Partner agreements with FEMA to produce this digital FIRM.

Additional flood hazard information and resources are available from local communities, the Colorado Water Conservation Board, and the Urban Drainage and Flood Control District.







LEGEND SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood. ZONE A No Base Flood Elevations determined. ZONE AE Base Flood Elevations determined. ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or **ZONE A99** Area to be protected from 1% annual chance flood by a Federal

FLOODWAY AREAS IN ZONE AE

Elevations determined.

Elevations determined.

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

flood protection system under construction; no Base Flood Elevations

Coastal flood zone with velocity hazard (wave action); no Base Flood

Coastal flood zone with velocity hazard (wave action); Base Flood

OTHER FLOOD AREAS

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

OTHER AREAS

ZONE X

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

ZONE D

Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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

Floodway boundary
Zone D boundary

CBRS and OPA boundary

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

Base Flood Elevation line and value; elevation in feet*

(EL 987)

Base Flood Elevation value where uniform within zone; elevation in feet*

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

A Cross section line

- - - - - - (23) Transect line

97°07'30", 32°22'30" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)

⁴²75^{000m}N 1000-meter Universal Transverse Mercator grid ticks, zone 13

6000000 M 5000-foot grid ticks: Alabama State Plane coordinate system, east zone (FIPSZONE 0101), Transverse Mercator

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

× this FIRM panel)

• M1.5 River Mile

MAP REPOSITORIES

EFFECTIVE DATE OF COUNTYWIDE

FLOOD INSURANCE RATE MAP August 16, 1995

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL March 5, 2007 - to update map format.

For community map revision history prior to countywide mapping, refer to the Community

Map History table located in the Flood Insurance Study report for this jurisdiction.

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



MAP SCALE 1" = 500' 0 500 1000 FEET METERS

PANEL 0602H

FIRM

FLOOD INSURANCE RATE MAP

ADAMS COUNTY,

COLORADO

AND INCORPORATED AREAS

PANEL 602 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY

COMMUNITYNUMBERPANELSUFFIXADAMS COUNTY0800010602HTHORNTON, CITY OF0800070602H

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



MAP NUMBER 08001C0602H MAP REVISED MARCH 5, 2007

Federal Emergency Management Agency



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Adams County Area, Parts of Adams and Denver Counties, Colorado



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout ဖ

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

Streams and Canals

Transportation

Rails ---

Interstate Highways

US Routes



Local Roads 00

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Adams County Area, Parts of Adams and Denver Counties, Colorado

Survey Area Data: Version 19, Sep 1, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 1, 2020—Jun 12, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
NuA	Nunn clay loam, 0 to 1 percent slopes	8.1	96.9%
Тс	Terrace escarpments	0.3	3.1%
Totals for Area of Interest		8.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Adams County Area, Parts of Adams and Denver Counties, Colorado

NuA-Nunn clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tlng Elevation: 4,100 to 5,700 feet

Mean annual precipitation: 14 to 15 inches Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 135 to 152 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Nunn and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Nunn

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Pleistocene aged alluvium and/or eolian deposits

Typical profile

Ap - 0 to 6 inches: clay loam Bt1 - 6 to 10 inches: clay loam Bt2 - 10 to 26 inches: clay loam Btk - 26 to 31 inches: clay loam Bk1 - 31 to 47 inches: loam Bk2 - 47 to 80 inches: loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 7 percent Maximum salinity: Nonsaline (0.1 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 0.5

Available water supply, 0 to 60 inches: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: R067BY042CO - Clayey Plains

Hydric soil rating: No

Minor Components

Heldt

Percent of map unit: 10 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R067BY042CO - Clayey Plains

Hydric soil rating: No

Wages

Percent of map unit: 5 percent

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R067BY002CO - Loamy Plains

Hydric soil rating: No

Tc—Terrace escarpments

Map Unit Setting

National map unit symbol: 34ws Elevation: 4,400 to 5,500 feet

Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 120 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Terrace escarpments: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Terrace Escarpments

Setting

Landform: Terraces

Landform position (three-dimensional): Riser

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium derived from mixed

Typical profile

H1 - 0 to 3 inches: gravelly sand H2 - 3 to 60 inches: gravelly sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R067BY063CO - Gravel Breaks

Hydric soil rating: No

Minor Components

Dacono

Percent of map unit: 5 percent Hydric soil rating: No

Vona

Percent of map unit: 5 percent Hydric soil rating: No

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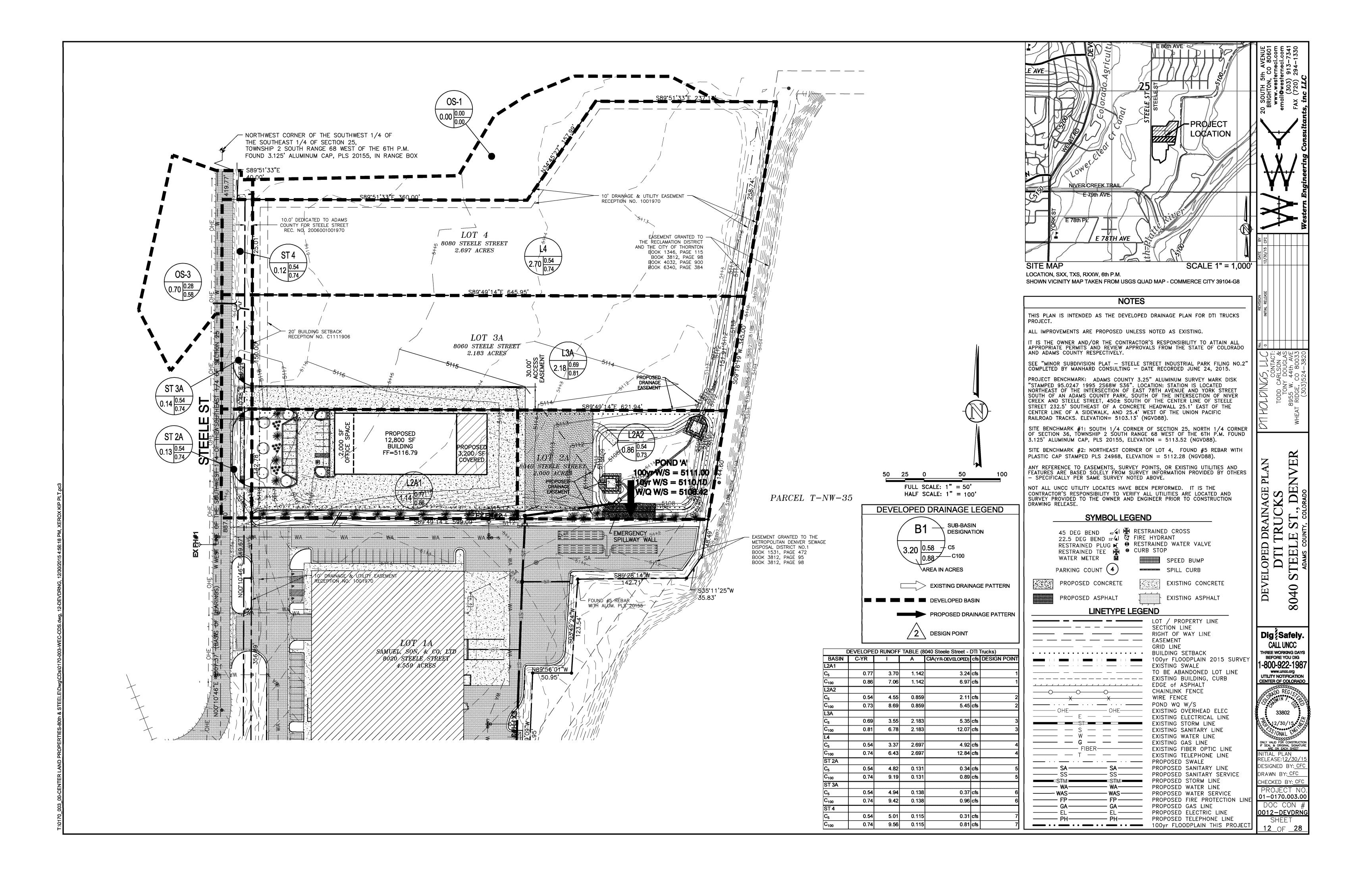
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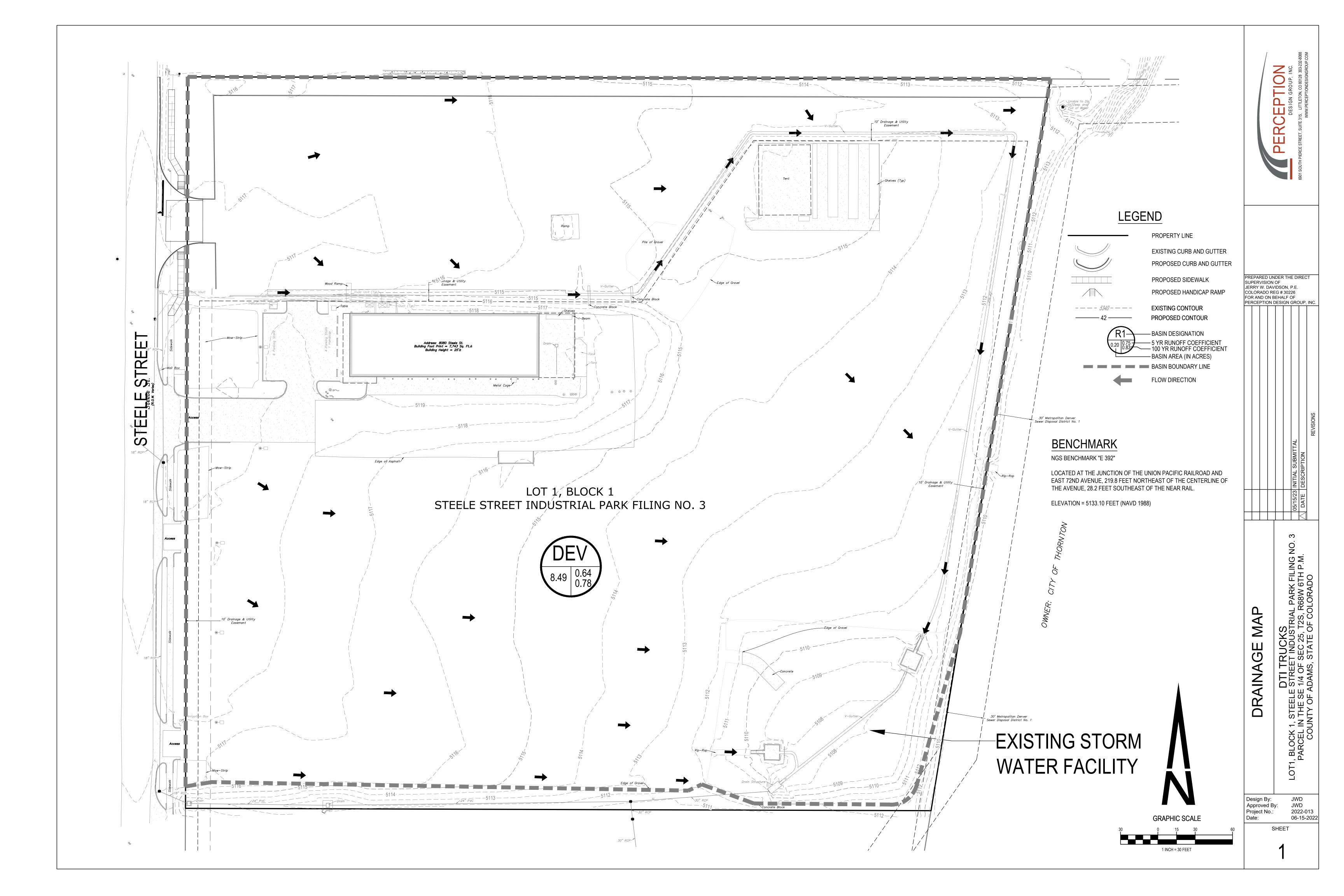
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Appendix D: DRAINAGE MAP

WEC Developed Drainage Plan

PDG Drainage Plan





SUBDIVISION IMPROVEMENTS AGREEMENT

THIS AGREEMENT is made and entered into this "X" day of December, 2022, between DTI Holdings LLC, a Colorado corporation qualified to do business in Colorado ("Developer"), whose address is 8955 W. 44th Ave, Wheat Ridge, CO 80033-3001, and the Board of County Commissioners of the County of Adams, State of Colorado ("County"), whose address is 4430 S. Adams County Parkway, Brighton, CO 80601.

WITNESSETH:

WHEREAS, Developer is the owner of real property in the County of Adams, State of Colorado, as described in Exhibit "A" attached hereto, and by this reference made a part hereof.

WHEREAS, it is provided by resolution of the Board of County Commissioners, County of Adams, that where designated the Developer shall have entered into a written agreement with the County to install public and/or private improvements, and to deed land for public purposes or right-of-way.

NOW, THEREFORE, in consideration of the foregoing, the parties hereto promise, covenant, and agree as follows:

- 1. **Engineering Services**. Developer shall furnish, at its own expense, all engineering and other services in connection with the design and construction of the improvements described and detailed on Exhibit "B" attached hereto, and by this reference made a part hereof ("Improvements").
- 2. **Drawings and Estimates**. The Developer shall furnish drawings and cost estimates for all improvements described and detailed on Exhibit "B" for approval by the County. Upon request, the Developer shall furnish one set of reproducible "as built" drawings and a final statement of construction costs to the County.
- 3. **Construction**. Developer shall furnish and construct, at its own expense and in accordance with drawings and materials approved by the County, the improvements described and detailed on Exhibit "B".
- 4. **Time for Completion**. Improvements shall be completed according to the terms of this agreement within "construction completion date" appearing in Exhibit "B". The Director of Community and Economic Development Department may for good cause grant extension of time for completion of any part or all of improvements appearing on said Exhibit "B". Any extension greater than 180 days may be approved only by the Board of County Commissioners. All extensions of time shall be in written form only.
- 5. **Warranties of Developer.** Developer warrants that the Improvements shall be installed in good workmanlike manner and in substantial compliance with the Plans and requirements of this Agreement and shall be substantially free of defects in materials and workmanship. These warranties of Developer shall remain in effect until Preliminary Acceptance of the improvements by the County.
- 6. **Guarantee of Compliance**. Developer shall furnish to the County a cash escrow deposit or other acceptable collateral, releasable only by the County, to guarantee compliance with this agreement. Said collateral shall be in the amount of \$37,280.20, including twenty percent (20%) to cover administration and five percent (5%) per year for the term of the Agreement to cover inflation. Upon approval of the final plat, completion of said improvements constructed according to the terms of this agreement, and preliminary acceptance by the Director of Public Works in accordance with section 5-02-05-01 of the County's Development Standards and Regulations, the collateral shall be released. Completion of said improvements shall be determined solely by the County, and a reasonable part of said collateral, up to 20%, may be retained to guarantee maintenance of public improvements for a period of one year from the date of preliminary acceptance.

Collateral shall be furnished in the amount required and in a form acceptable to the Board of County Commissioners prior to final plat approval. No building permits shall be issued until the final plat has been approved and the improvements described in Exhibit "B" have been preliminarily accepted by the Department of Public Works.

- 7. Acceptance and Maintenance of Public Improvements. All improvements designated "public" on Exhibit "B" shall be public facilities and become the property of the County or other public agencies upon acceptance. During the period of one year from and after the acceptance of public improvements, the Developer shall, at its own expense, make all needed repairs or replacement due to defective materials or workmanship which, in the opinion of the County, becomes necessary. If, within ten days of written notice to the Developer from the County requesting such repairs or replacements, the Developer has not undertaken with due diligence to make the same, the County may make such repairs or replacements at the Developer's expense. In the case of an emergency such written notice may be waived.
- 8. **Successors and Assigns**. This agreement shall be binding upon the heirs, executors, personal representatives, successors, and assigns of the Developer, and shall be deemed a covenant running with the real property as described in Exhibit "A" attached hereto.
- 9. **Improvements and Dedication**. The undersigned Developer hereby agrees to provide the following improvements, and to dedicate described property.
 - A. **Improvements**. Designate separately each public and private improvement.

Public Improvements:

(General description of construction.) See Exhibit "B" for description, estimated quantities and estimated construction costs.

The improvements shall be constructed in accordance with all County requirements and specifications in accordance with the approved plans and time schedule as indicated in Exhibit "B".

B. **Public dedication of land for right-of-way purposes or other public purpose**. Upon approval of this agreement by the Board of County Commissioners, the Developer hereby agrees to convey by warranty deed to the County of Adams the following described land for right-of-way or other public purposes:

(General description of right-of-way).

- 10. **Default by Developer.** A default by the Developer shall exist if (a) Developer fails to construct the Subdivision Improvements in substantial compliance with the Plans and the other requirements of this Agreement; (b) Developer fails to complete construction of the Improvements by the Completion Date provided herein as the same may be extended; (c) Developer fails to cure any noncompliance specified in any written notice of noncompliance within a reasonable time after receipt of the notice of noncompliance; (d) Developer otherwise breaches or fails to comply with any obligation of Developer under this Agreement.
 - A. **Remedies of County**. If the County, after notice, determines that a default by Developer exists, and if Developer fails to cure such default within the time specified by the County, the County shall be entitled to (a) make a draw on the collateral for the amount reasonably determined by the County to be necessary to cure the default in a manner consistent with the approved Plans up to the face amount of the Collateral; and (b) sue the Developer for recovery of any amount necessary to cure the default over and above the amount available in the Collateral provided.

- B. **County Right to Completion of Subdivision Improvements.** The right of the County to complete or cause completion of the Improvements as herein provided shall include the following rights:
 - a. The County shall have the right to complete the Subdivision Improvements, in substantial accordance with the plans, the estimated costs, and other requirements of this Agreement, either itself or by contract with a third party or by assignment of its rights to a successor developer who has acquired the Property by purchase, foreclosure, or otherwise. The County, any contractor under the County, or any such successor developer, their agents, subcontractors and employees shall have the non-exclusive right to enter upon the streets and easements shown on the final plat of the Subdivision and upon any part of the Subdivision owned by Developer for the purpose of completing the Improvements.
- C. **Use of Funds by County.** Any funds obtained by the County through Collateral, or recovered by the County from Developer by suit or otherwise, shall be used by the County to pay the costs of completion of the Improvements substantially in accordance with the Plans and the other Requirements of this Agreement and to pay the reasonable costs and expenses of the County in connection with the default by Developer, including reasonable attorneys' fees.

	<u>Name/s</u> Developer			
By:		By:		
	Name, Title		Name, Title	
	Foregoing instrument was acknowledged before, by			
Му с	ommission expires:			
Addr	ess:	Notar	y Public	
APPI	ROVED BY resolution at the meeting of			, 20
shall said	teral to guarantee compliance with this agree be required in the amount of collateral is furnished in the amount require ty Commissioners.	No	building permits shall	be issued until
ATT	EST:		RD OF COUNTY COM MS COUNTY, COLOR	
Clerk	s of the Board	Chair		

EXHIBIT A

Legal Description: STEELE STREET INDUSTRIAL PARK FILING NO. 3

EXHIBIT B

Public Improvements: Steele Street

<u>Description</u>	Est. Quantity	Est. Unit Cost	Est. Construct. Cost
Asphalt pavement	93.8 Tons	87.50	\$8,207.50
Curb & Gutter	175.5 Ln Ft	39.00	\$6,844.50
Concrete Cross Pan	111.2 SY	90.00	\$10,008.00
ADA Ramp	2 each	3,000.00	\$6,000.00
5' Wide Concrete Sidewalk	123.1 Ln Ft	42.00	\$5,170.20
Street Sign	3 each	350.00	\$1,050.00

Construction Completion Date:	I year	trom approval
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Initials or signature of Developer:		