



Planning and Community
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DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

Project Name :	Trails at Aspen Ridge Filing No. 4
Schedule No.(s) :	5500000412
Legal Description :	Unplatted Land

APPLICANT INFORMATION

Company :	COLA, LLC
Name :	Tim Buschar
	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Consultant <input type="checkbox"/> Contractor
Mailing Address :	555 Middle Creek Pkwy, Suite 380 Colorado Springs, CO 80921
Phone Number :	(719) 382-9433
FAX Number :	
Email Address :	

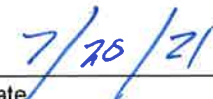
ENGINEER INFORMATION

Company :	Matrix Design Group	Colorado P.E. Number :	55600
Name :	Jesse Sullivan		
Mailing Address :	2435 Research Parkway, Suite 300 Colorado Springs, CO 80920		
Phone Number :	719-575-0100		
FAX Number :			
Email Address :	Jesse.sullivan@matrixdesigngroup.com		

OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.


Signature of owner (or authorized representative)


Date

Engineer's Seal, Signature
And Date of Signature



DEVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of or in Section 3.3.1.J.2 of the Engineering Criteria Manual (ECM) is requested.

Identify the specific ECM standard which a deviation is requested:

Section 3.3.1.J.2 "Where the conduit size increases, the inside top slope of the conduits shall be continuous in elevation. Change in conduit shall be accomplished in a reinforced concrete manhole or cleanout structure only."

State the reason for the requested deviation:

Storm MH-77: A manhole drop greater than one foot (without matching inside top of conduit elevations) is requested in order to provide clearance above the existing water main at this location. The drop manhole and associated inlet are vital components of the site design and enable more easily maintainable depths of cover and avoidance of the many potential utility conflicts within the site.

Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used as basis):

Drop manholes in excess of 1-ft have been approved under the City of Colorado Springs DCM Volume 1, Chapter 9, Section 6.4 (regional standard) for similar situations within adjacent municipalities. Drops greater than 1-ft require additional concrete strength and scour protection which is proposed with this design in the form of Class S35 concrete for the manhole and provision of a 1' sump for energy dissipation.

LIMITS OF CONSIDERATION

(At least one of the conditions listed below must be met for this deviation request to be considered.)

- ☐ The ECM standard is inapplicable to the particular situation.
- ☒ Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- ☒ A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

Provide justification:

With the water main currently installed within Filing Two, the storm sewer installation needs to coordinate to avoid conflict with the existing water main and associated services.

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is **not based exclusively on financial considerations**. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with **all of the following criteria**:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

Per Section 5.8 of the ECM, ***"Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision"***

The design revision provides a superior design to the storm drain with relation to the existing utility constraints, conventional construction practices and enables the pipe velocities to meet EPC criteria.

The deviation will not adversely affect safety or operations.

The proposed deviation will not adversely impact safety or operations by allowing the shallow installation of the storm drain and creating shallower manholes instead of deep (greater than 18-ft) access manholes for maintenance. Construction safety will be enhanced because the installation will not require additional protective shoring and working around existing installed utilities.

The deviation will not adversely affect maintenance and its associated cost.

Proposed access to the drop manhole will be in conformance with all pertinent safety and maintenance guidelines and will not increase maintenance costs.

The deviation will not adversely affect aesthetic appearance.

Aesthetic appearance will not be changed as the proposed deviation is a storm manhole and will appear as such in the field.

The deviation meets the design intent and purpose of the ECM standards.

By raising the upstream storm pipe to avoid utility conflict with the existing water main, and by lowering the downstream pipe to reduce pipe velocities/HGL's to within acceptable range, the 6.13-foot drop meets the design intent and purpose of the ECM standards.

The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable.

The proposed deviation is in conformance with Part I.E.3 and Part I.E.4 of the County's MS4 permit.

REVIEW AND RECOMMENDATION:

Approved by the ECM Administrator

This request has been determined to have met the criteria for approval. A deviation from Section _____ of the ECM is hereby granted based on the justification provided.

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Denied by the ECM Administrator

This request has been determined not to have met criteria for approval. A deviation from Section _____ of the ECM is hereby denied.

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ECM ADMINISTRATOR COMMENTS/CONDITIONS:

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1.1. PURPOSE

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

1.2. BACKGROUND

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

1.3. APPLICABLE STATUTES AND REGULATIONS

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

1.4. APPLICABILITY

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship on the applicant, and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public.

1.5. TECHNICAL GUIDANCE

The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

1.6. LIMITS OF APPROVAL

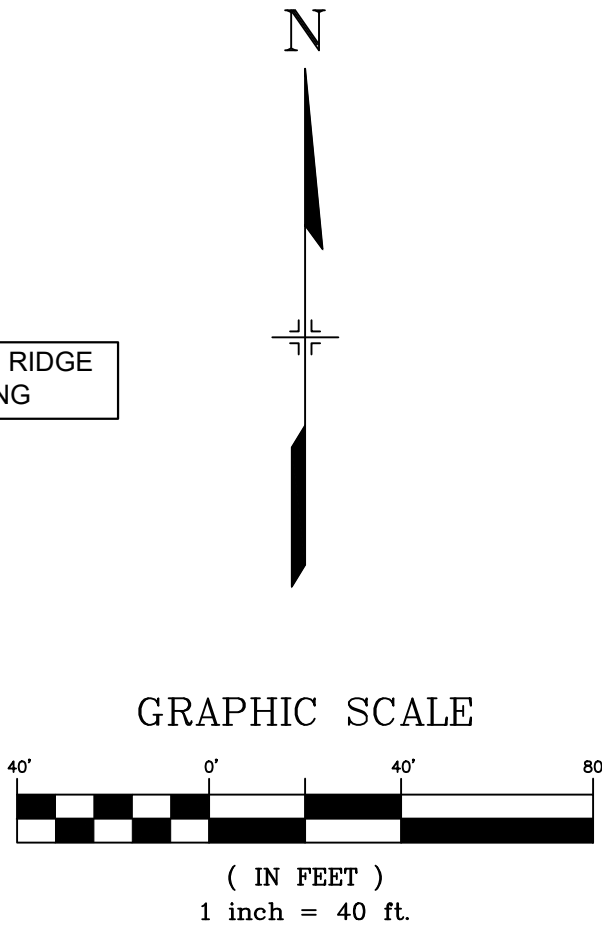
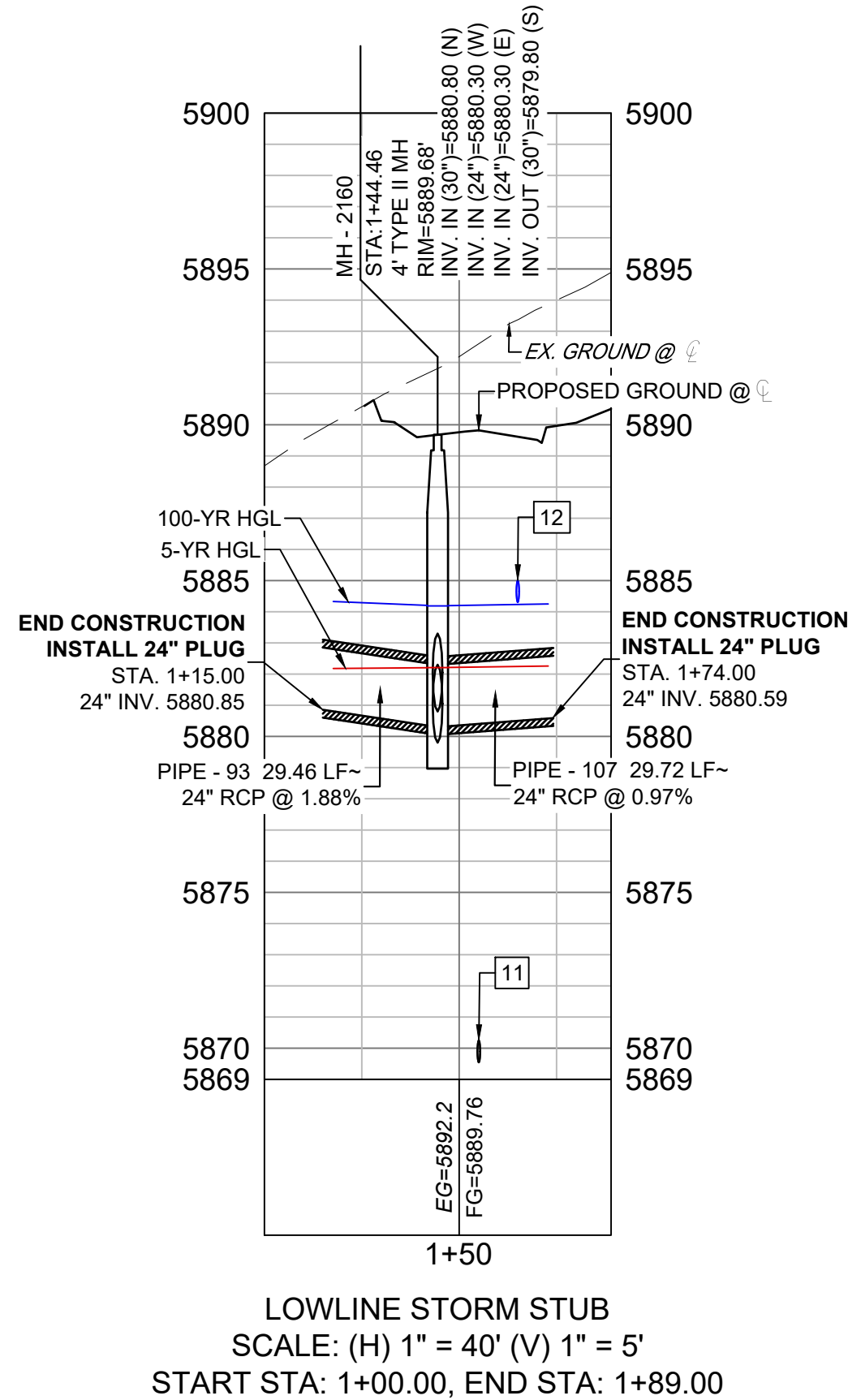
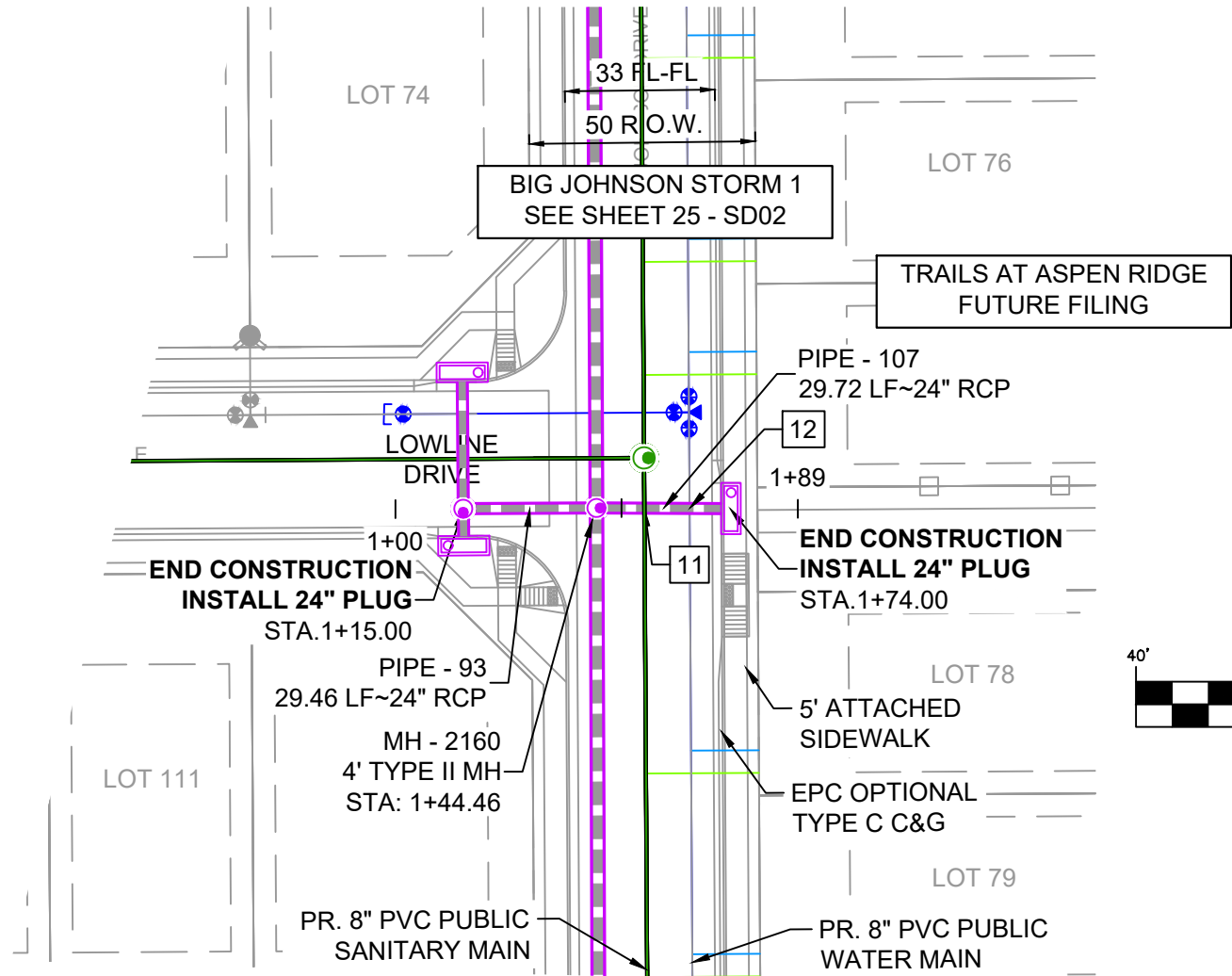
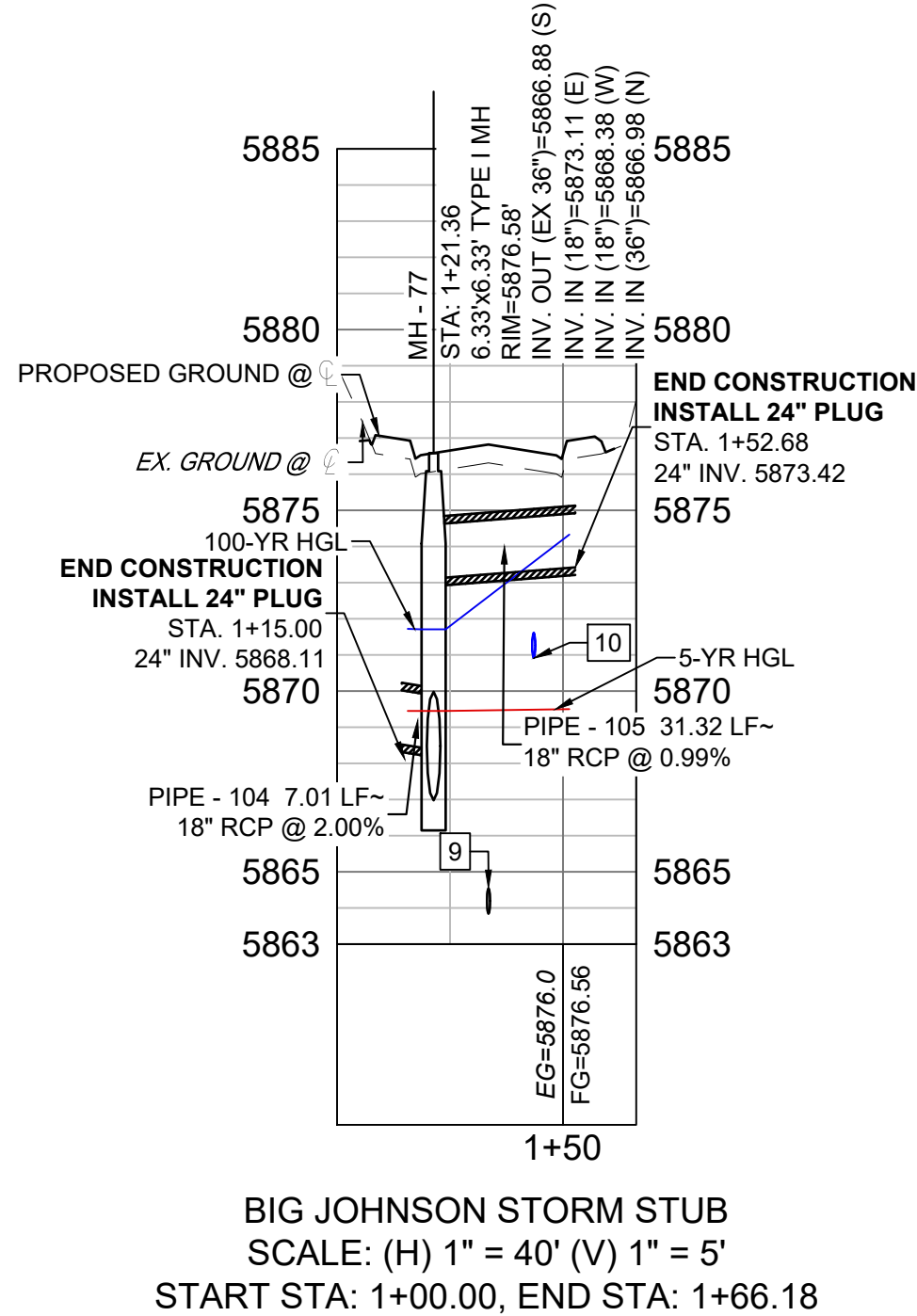
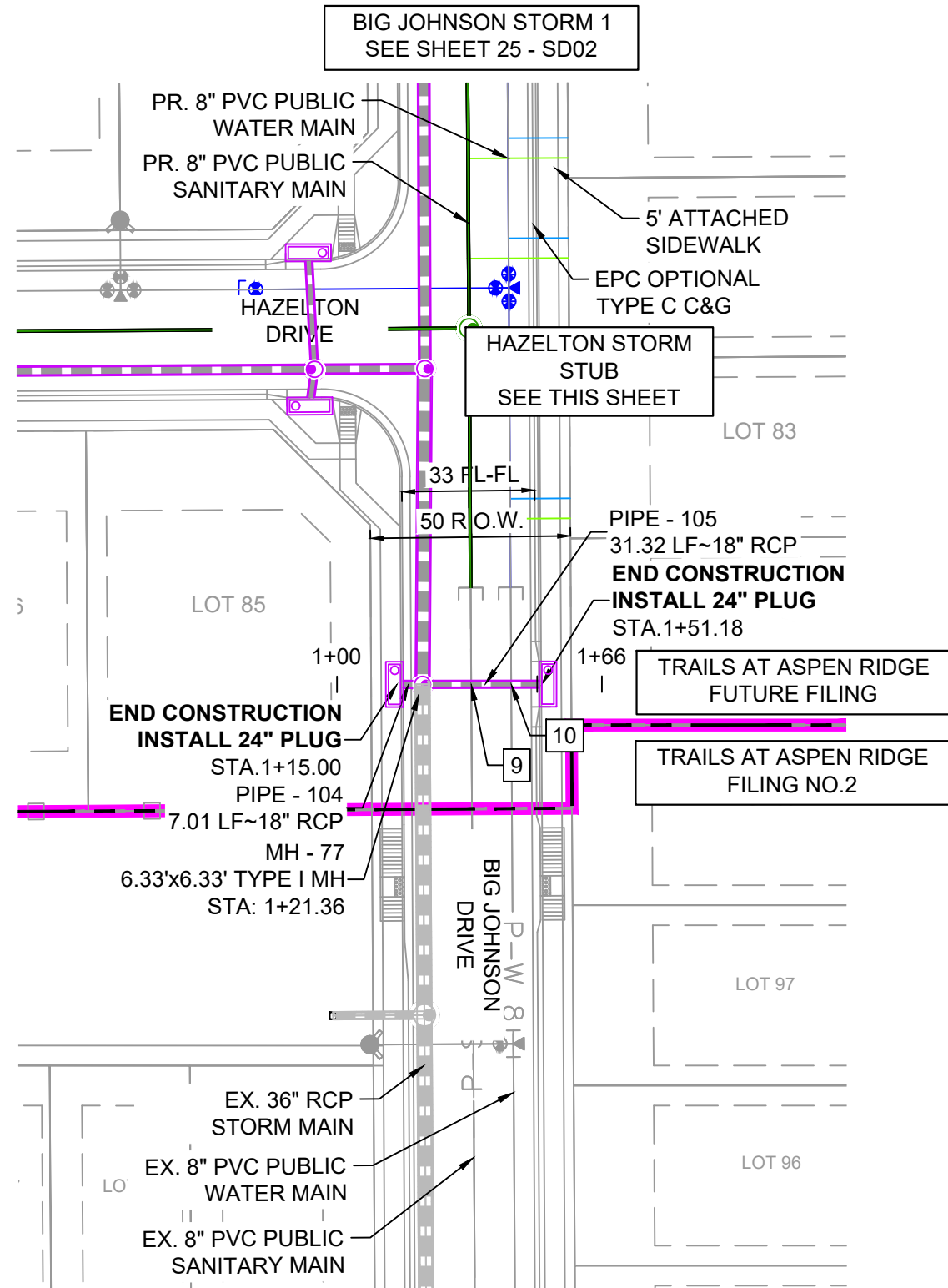
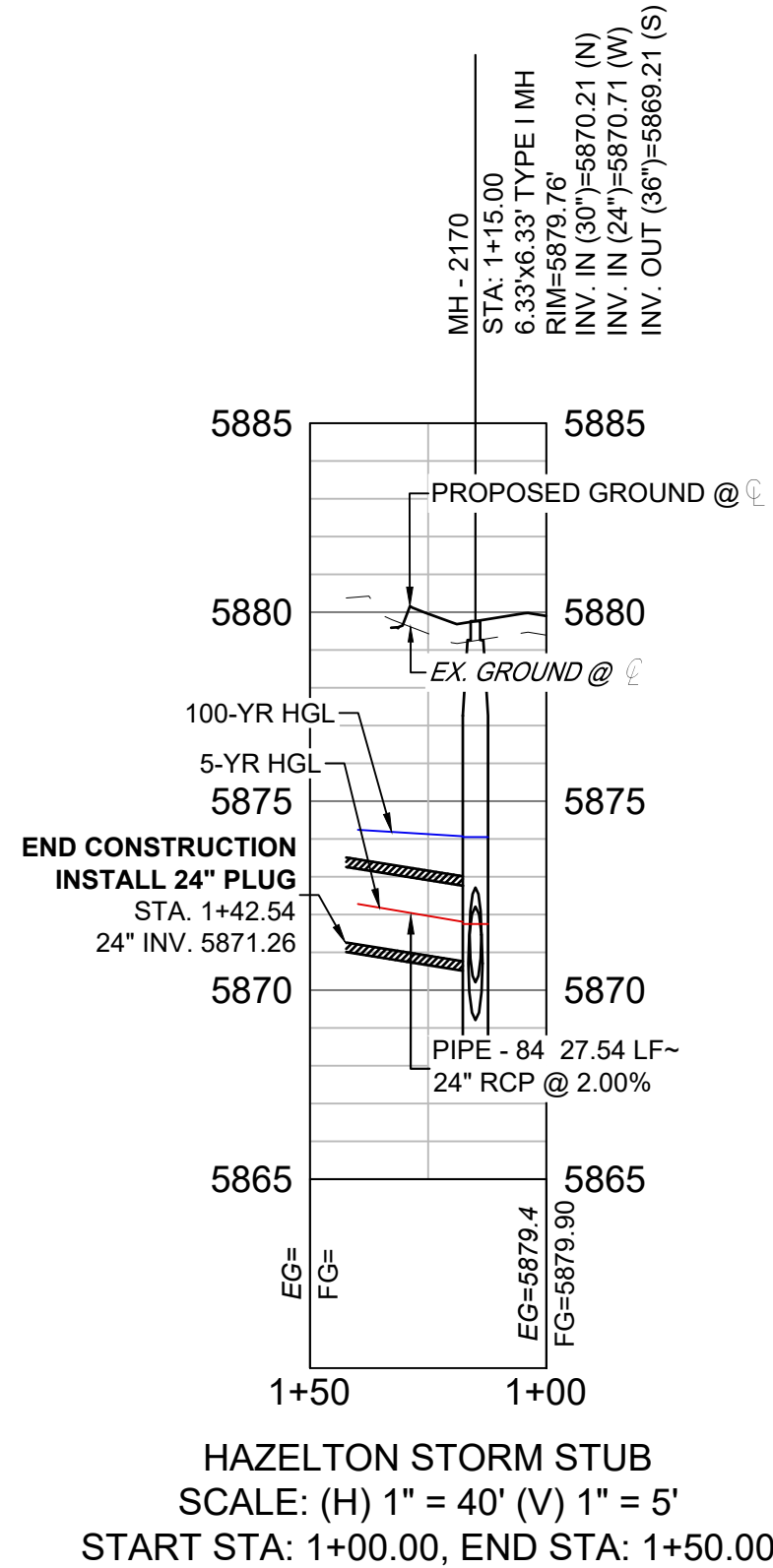
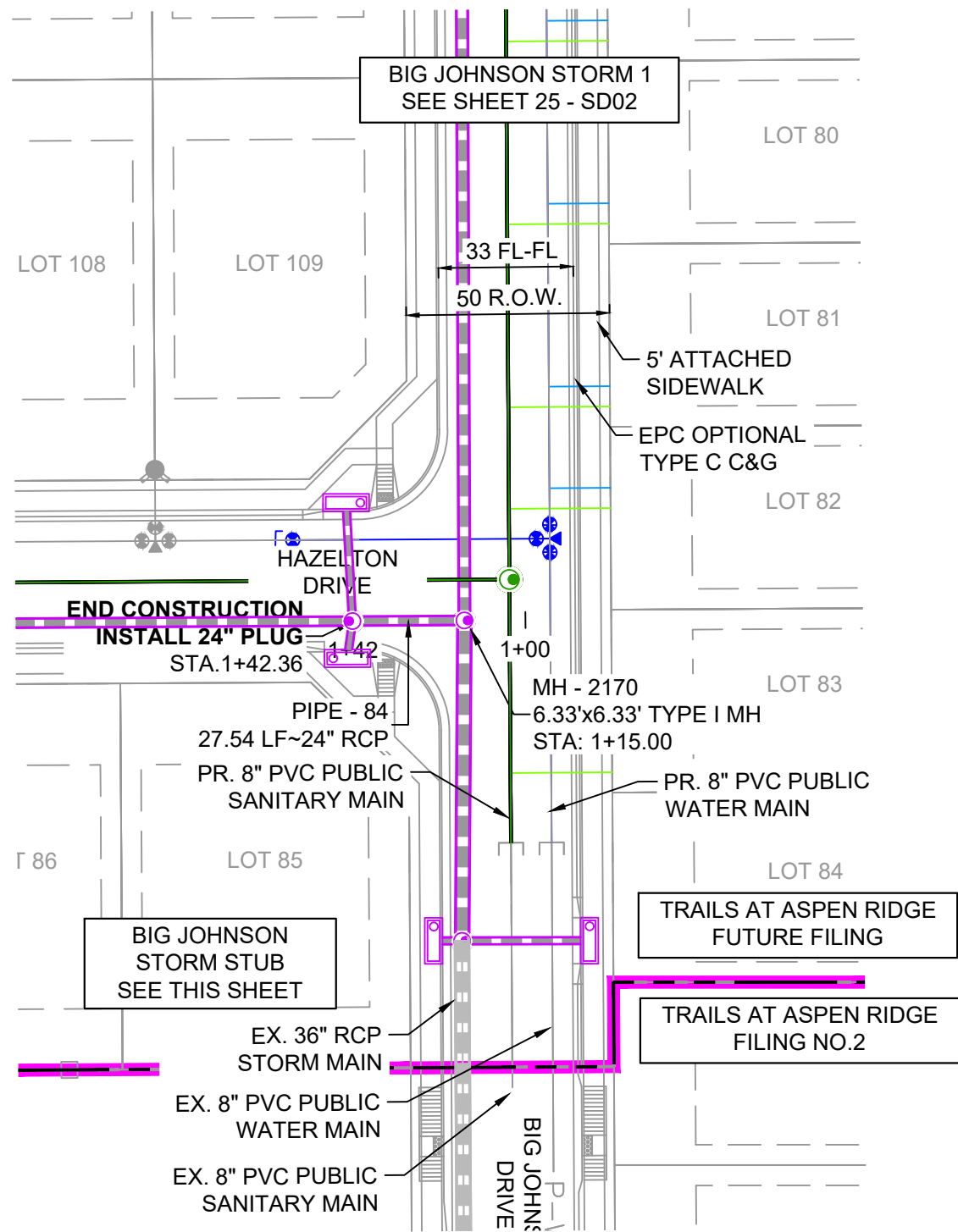
Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

1.7. REVIEW FEES

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.



Know what's below.
Call before you dig.



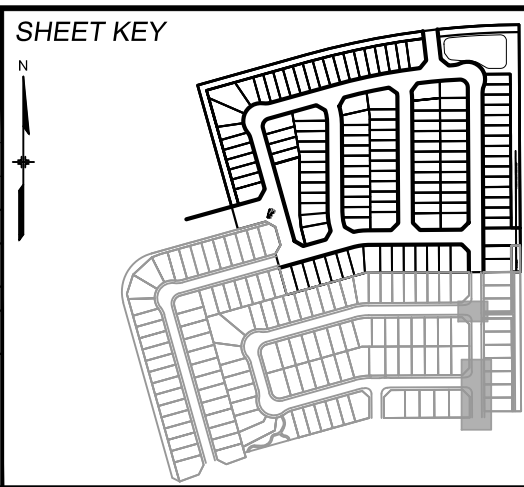
PIPE TABLE				
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 84	S89°39'24"W	27.5'	2.00%	24" RCP
PIPE - 93	N89°40'58"E	29.5'	1.88%	24" RCP
PIPE - 104	N89°59'24"E	7.0'	2.00%	18" RCP
PIPE - 105	S89°54'08"W	31.3'	0.99%	18" RCP
PIPE - 107	N89°44'16"W	29.7'	0.97%	24" RCP

STRUCTURE TABLE			
NAME	TYPE	DETAILS	N & E
MH - 77	6.33'x6.33' TYPE I MH	RIM = 5876.58 PIPE - 105 INV IN (18") = 5873.11 PIPE - 104 INV IN (18") = 5868.38 PIPE - 91 INV IN (36") = 5866.98	N: 7630.66 E: 13998.92
MH - 2160	4' TYPE II MH	RIM = 5889.68 PIPE - 2000 INV IN (30") = 5880.80 PIPE - 93 INV IN (24") = 5880.30 PIPE - 107 INV IN (24") = 5880.30 PIPE - 2001 INV OUT (30") = 5879.80	N: 7955.68 E: 13998.52
MH - 2170	6.33'x6.33' TYPE I MH	RIM = 5879.76 PIPE - 2001 INV IN (30") = 5870.21 PIPE - 84 INV IN (24") = 5870.71 PIPE - 91 INV OUT (36") = 5869.21	N: 7709.49 E: 13999.49

UTILITY CROSSING DETAILS				
CROSSING #	N & E	TOP OF PIPE	BTM OF PIPE	VERT. SEP.
9	N: 7,630.68 E: 14,011.08	8" PVC SAN 5864.55	24" RCP STORM 5867.96	3.41'
10	N: 7,630.70 E: 14,021.08	8" PVC WATER 5871.62	18" RCP STORM 5873.12	1.50'
11	N: 7,955.63 E: 14,009.11	8" PVC SAN 5870.25	24" RCP STORM 5880.15	9.90'
12	N: 7,955.58 E: 14,019.11	24" RCP STORM 5882.75	8" PVC WATER 5884.30	1.55'

- NOTES:
1. ALL STATION, OFFSET, AND NORTHING/EASTING VALUES ARE TO THE CENTER OF ALL STRUCTURES UNLESS OTHERWISE NOTED.
 2. PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF ALL STRUCTURES.
 3. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES.
 4. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
 5. PIPES OF DIFFERENT SIZES ARE TO BE MATCHED TO THE CROWN OF THE INSIDE WALL OF PIPE.
 6. PER THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL, MANHOLES SHALL BE INSTALLED 1/8" BELOW THE SURFACE OF THE PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE."
 7. ALL STORM SEWER IS PUBLIC UNLESS OTHERWISE NOTED.
 8. TOP OF BOX ELEVATIONS GIVEN FOR CDOT TYPE R INLETS REFER TO THE COUNTY STANDARD DETAIL FOR CORRESPONDING DESIGN ELEVATIONS.

REFERENCE DRAWINGS			
No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\21.886.038 (Trails F6)\100 Plan Sets\Construction Plans\Road & Storm Plans\SD01.dwg			
CTB FILE: Matrix(black).ctb			
PLOT DATE: June 10, 2021 3:40:08 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
COLORADO SPRINGS UTILITIES (FIMS) MONUMENT F206
A BERNTSEN TOP SECURITY MONUMENT SYSTEM WITH A 3.5-INCH DIAMETER ALUMINUM CAP IN A ROAD BOX, LOCATED ON THE NORTHWEST CORNER OF FONTAINE BOULEVARD AND POWERS BOULEVARD.
ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING
BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89°51'23"E FROM THE NORTHWEST CORNER OF SAID SECTION 9 (2 1/2' AULM. CAP PLS 17664) TO THE N 1/4 CORNER OF SAID SECTION 9 (3 1/4' AULM. CAP PLS 10377)



PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 21.886.038

TRAILS AT ASPEN RIDGE			
FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS			
STORM DRAIN PLAN & PROFILE			
DESIGNED BY:	JTS	SCALE	DATE ISSUED:
DRAWN BY:	BAS	HORIZ 1" = 40'	JUNE 2021
CHECKED BY:	NMS	VERT 1" = 5'	SHEET 26 OF 32
DRAWING No.			SD03