



# TRAILS AT ASPEN RIDGE - FILING NO. 5

## EL PASO COUNTY, COLORADO

### 8" PUBLIC SANITARY MAIN PLANS

#### FEBRUARY 2023

DWG No.	SHEET NAME	SHEET No.
TS01	TITLE SHEET	1
GN01	GENERAL NOTES, LEGEND & ABBREVIATIONS	2
SS01 - SS04	WASTEWATER PLAN & PROFILE	3 - 6
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OWNER/DEVELOPER	COLA, LLC 555 MIDDLE CREEK PARKWAY, SUITE 380 COLORADO SPRINGS, CO 80921
CIVIL ENGINEER	MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920
WATER & SANITARY SEWER	WIDEFIELD WATER AND SANITATION DISTRICT 8495 FONTAINE BOULEVARD COLORADO SPRINGS, CO 80925 ROBERT BANNISTER, (719) 390-7111
ELECTRIC	MOUNTAIN VIEW ELECTRIC ASSOCIATION (719) 495-2283
GAS	COLORADO SPRINGS UTILITIES 1521 HANCOCK EXPRESSWAY COLORADO SPRINGS, CO MARY HOAGLUND (719) 668-4083
STREET	EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (719) 520-6460
DRAINAGE	EL PASO COUNTY PUBLIC SERVICES DEPARTMENT (719) 520-6460
FIRE DEPARTMENT	SECURITY FIRE DEPARTMENT 400 SECURITY BOULEVARD SECURITY, CO 80911 (719) 392-7121

#### ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS REPORT.

NICOLE SCHANEL, PE #52434 \_\_\_\_\_ DATE \_\_\_\_\_

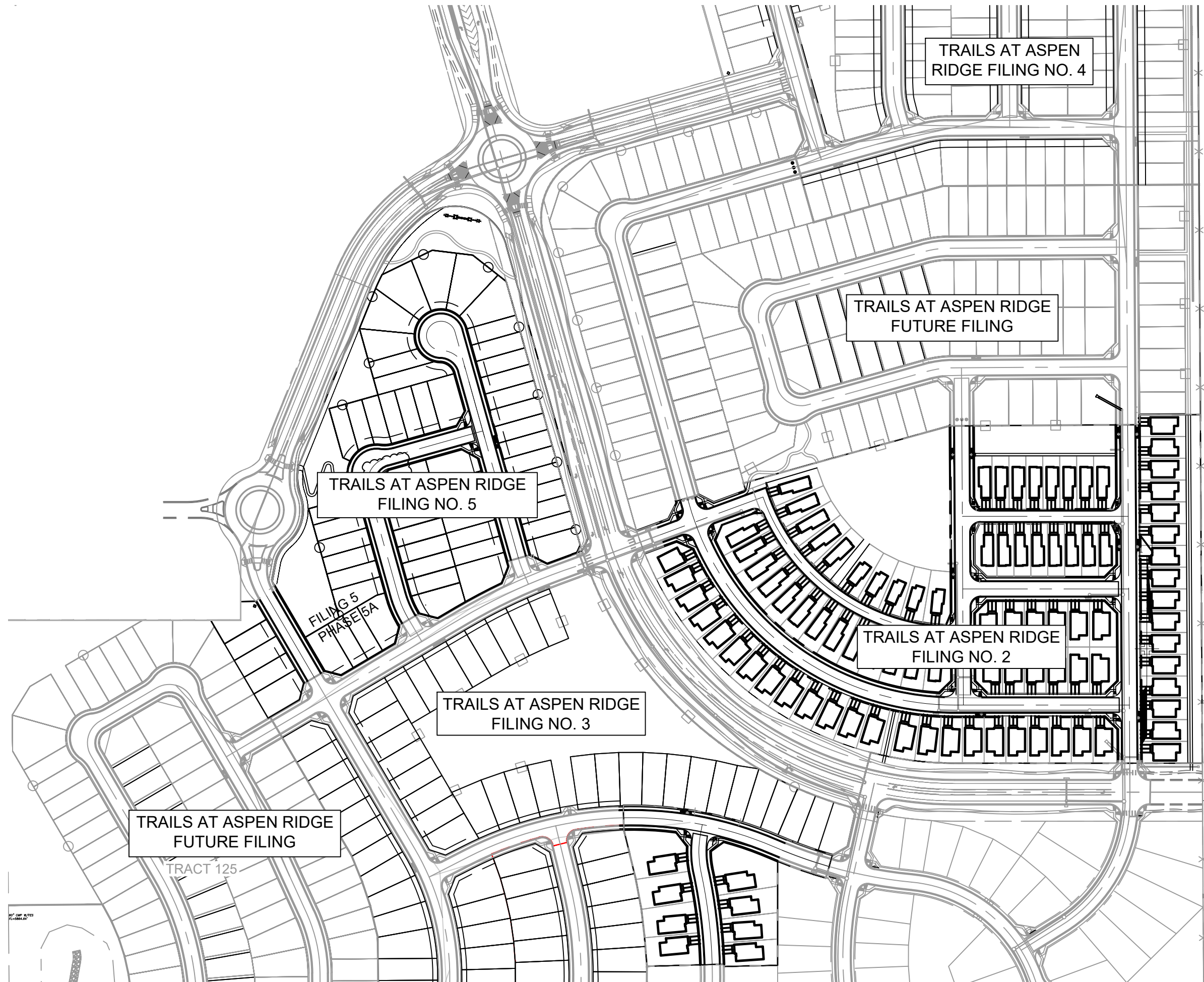
#### EL PASO COUNTY:

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/ OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/ OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

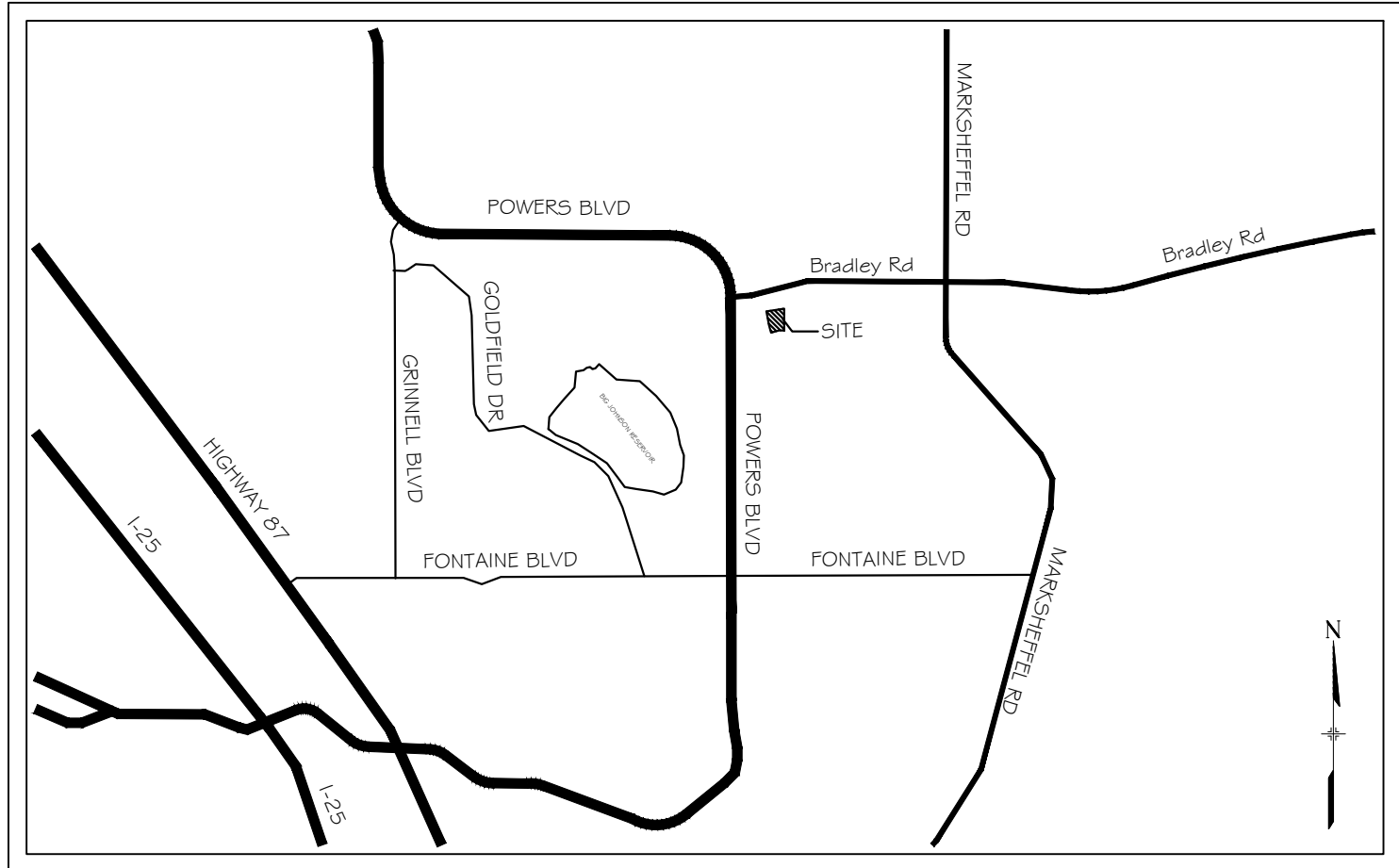
JOSH PALMER, P.E. \_\_\_\_\_ DATE \_\_\_\_\_  
COUNTY ENGINEER / ECM ADMINISTRATOR



**SITE MAP**

1" = 200'

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.



**VICINITY MAP**

N.T.S.

#### OWNER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

TIM BUSCHAR \_\_\_\_\_ DATE \_\_\_\_\_  
DIRECTOR OF LAND ACQUISITION AND DEVELOPMENT

#### DISTRICT APPROVALS:

THE WIDEFIELD WATER AND SANITATION DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WIDEFIELD WATER AND SANITATION DISTRICT  
WATER DESIGN APPROVAL

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

PROJECT NUMBER: \_\_\_\_\_

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE "RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES" SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL

#### WATER AND SANITARY SEWER APPROVAL

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION, AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATION DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

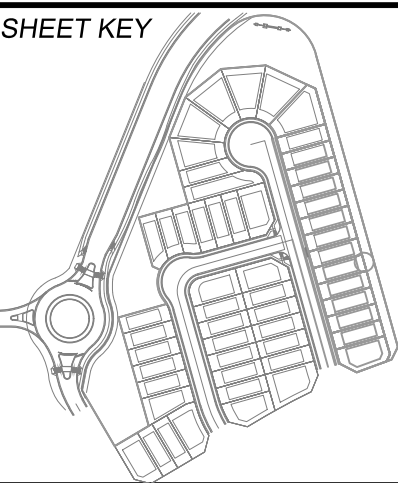
SIGNED \_\_\_\_\_ DATE \_\_\_\_\_  
OWNER/DEVELOPER

PRINT NAME \_\_\_\_\_

DBA \_\_\_\_\_

ADDRESS \_\_\_\_\_

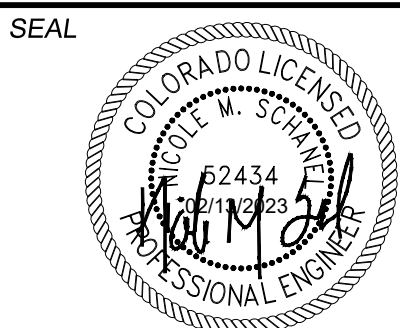
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COMPUTER FILE MANAGEMENT				
FILE NAME: S:\21.886.048 (Trails at Aspen Ridge - F5)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Sanitary Plan\TS01.dwg				
CTB FILE: ---				
PLOT DATE: February 17, 2023 8:04:52 AM				
THIS DRAWING IS CURRENT 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)

PREPARED BY:



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.  
PROJECT No. 21.886.048

**TRAILS AT ASPEN RIDGE- F5**

8" SANITARY SEWER PLANS

TITLE SHEET

DESIGNED BY:	CRD	SCALE	DATE ISSUED:	FEBRUARY 2023	DRAWING No.
DRAWN BY:	CRD	HORIZ			
CHECKED BY:	NMS	VERT.			
			SHEET	1 OF 7	TS01





WIDEFIELD WATER AND SANITATION DISTRICT GENERAL NOTES

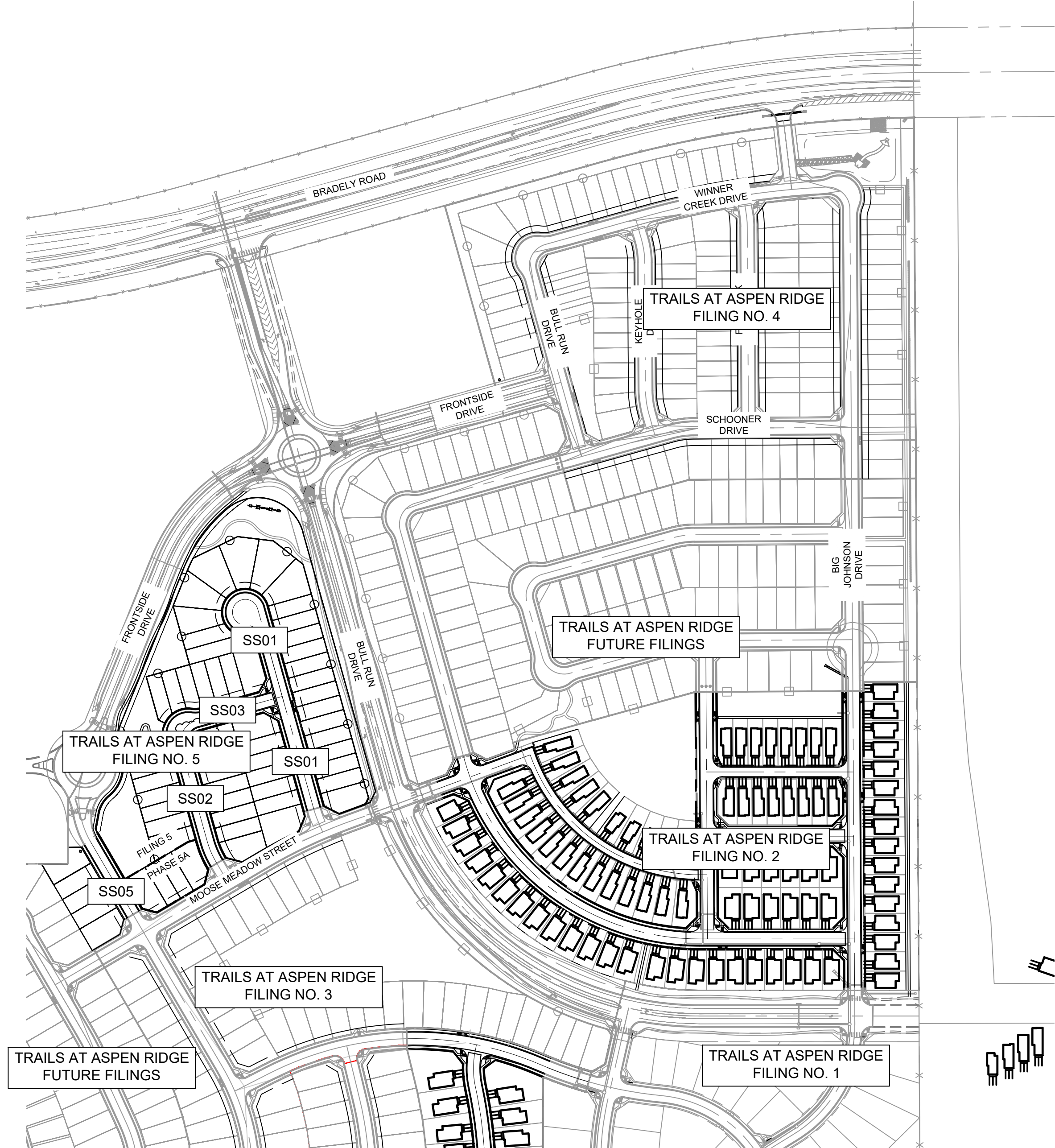
- ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WIDEFIELD WATER AND SANITATION DISTRICT SPECIFICATIONS. COMPACTION REQUIREMENTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE WIDEFIELD WATER AND SANITATION DISTRICT OR A HIGHER STANDARD IS IMPOSED BY ANOTHER AGENCY HAVING RIGHT-OF-WAY JURISDICTION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE WIDEFIELD WATER AND SANITATION DISTRICT. THE WIDEFIELD WATER AND SANITATION DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE DEVELOPER OR HIS ENGINEER HAS LOCATED ALL FIRE HYDRANTS AND FUTURE SERVICE STUBS. ANY REQUIRED REALIGNMENT, EITHER HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER.
- ALL DUCTILE IRON PIPE, TO INCLUDE FITTINGS, VALVES AND FIRE HYDRANTS WILL BE WRAPPED WITH POLYETHYLENE TUBING, AND ELECTRICALLY ISOLATED.
- ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE DOUBLE BONDED. SPECIFICATIONS FOR CATHODIC PROTECTION ON BOTH DIP MAINS AND PVC MAINS IS SPECIFIED IN THE STANDARDS AND SPECIFICATIONS.
- PVC MAIN LINES SHALL BE INSTALLED WITH COATED NO. 12 TRACER WIRE.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT (390-7111) A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES 48 HOURS PRIOR TO CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
- THE LOCATION OF ALL UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL FIELD EXCAVATE AND VERIFY THE VERTICAL AND HORIZONTAL LOCATION OF ALL TIE-INS. CONTRACTOR SHALL NOTIFY THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER OF THE FIELD VERIFIED INFORMATION PRIOR TO CONSTRUCTION.
- ALL BENDS SHALL BE FIELD STAKED PRIOR TO CONSTRUCTION.
- ANY WATER UTILITY MATERIAL REMOVED AND NOT REUSED SHALL BE RETURNED TO THE WIDEFIELD WATER AND SANITATION DISTRICT IF THE DISTRICT SO REQUESTS.
- THE CONTRACTOR SHALL AT HIS EXPENSE SUPPORT AND PROTECT ALL UTILITY MAINS SO THAT THEY WILL FUNCTION CONTINUOUSLY DURING CONSTRUCTION. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT WILL BE REPLACED IMMEDIATELY BY EITHER THE CONTRACTOR OR THE WIDEFIELD WATER AND SANITATION DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR.
- ANY PUMPING OR BYPASS OPERATIONS MUST BE REVIEWED AND APPROVED PRIOR TO EXECUTION BY BOTH THE WIDEFIELD WATER AND SANITATION DISTRICT AND THE ENGINEER.
- CONTRACTOR MUST REPLACE OR REPAIR ANY DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, CURB AND GUTTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
- ALL WATER LINES 6" AND LARGER, AND ALL SEWER LINES 8" AND LARGER, SHALL HAVE AS "AS-BUILT" PLANS PREPARED AND APPROVED PRIOR TO FINAL ACCEPTANCE BY THE WIDEFIELD WATER AND SANITATION DISTRICT.
- PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION CONFERENCE IS REQUIRED A MINIMUM OF 72 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. TO SET THE PRE-CONSTRUCTION CONFERENCE, CONTACT BRANDON BERNARD-WATER DIVISION MANAGER AND/OR TRAVIS JONES, WASTEWATER DIVISION MANAGER AT (719)955-0548 OF THE WIDEFIELD WATER AND SANITATION DISTRICT FOR A TIME. NO PRE-CONSTRUCTION CONFERENCE TIMES WILL BE SET UNTIL 4 SETS OF SIGNED DRAWINGS ARE RECEIVED BY THE WIDEFIELD W & S DISTRICT. PRE-CONSTRUCTION DATE/INITIALS \_\_\_\_\_.

ABBREVIATIONS

ASSY	ASSEMBLY
BOP	BOTTOM OF PIPE
BOV	BLOWOFF ASSEMBLY AND VALVE
CPLG.	COUPLING
(INS.)	(INSULATING)
(RED.)	(REDUCING)
(STR.)	(STRAIGHT)
CRA	CONCRETE REVERSE ANCHOR
CTRB	CONCRETE THRUST REACTION BLOCK
DEFL	DEFLECT
DIP	DUCTILE IRON PIPE
EL	ELEVATION
EX	EXISTING
FLG	FLANGE
FH	FIRE HYDRANT
GPM	GALLONS PER MINUTE
GRD BRK	V.P.I. GRADE BREAK
HYD ASSY	INCLUDES FIRE HYDRANT, LATERAL, VALVE, TIE RODS, AND REVERSE ANCHOR.
INV	INVERT
LT	LEFT OF CENTER LINE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N.S.E.W	NORTH,SOUTH,EAST, WEST
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RED	REDUCER
RSNTS	MJ RESTRAINT (i.e. MEGALUG)
RT	RIGHT OF CENTER LINE
SJ	SLIP JOINT
SS	SANITARY SEWER
STA	STATION
STS	STORM SEWER
TOP	TOP OF PIPE
TYP	TYPICAL
WL	WATER LINE

LEGEND

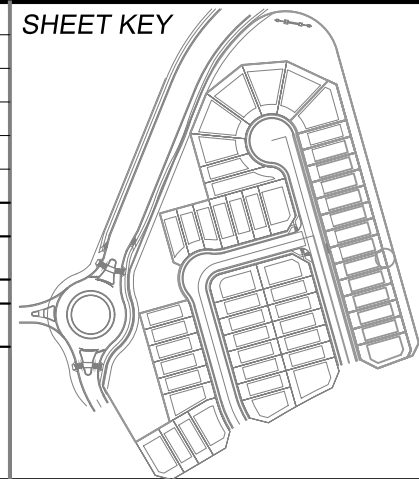
	VALVE (PROPOSED)
	VALVE (EXISTING)
	BLOWOFF (PROPOSED)
	BLOWOFF (EXISTING)
	PLUG (PROPOSED)
	PLUG (EXISTING)
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPERTY LINE
	CURB LINE
	EXISTING GAS MAIN
	EXISTING WATER
	PROPOSED WATER
	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	EXISTING SAN. SEWER
	PROPOSED SAN. SEWER
	EXISTING MANHOLE
	PROPOSED MANHOLE
	MATCHLINE



OVERALL LAYOUT

SCALE: 1" = 200'

REFERENCE DRAWINGS	No.	DATE	DESCRIPTION	BY
X-Title-Utilities X-886-EX-BASE X-886-EX-SURVEY X-886-FR-SITE-F1 X-886-FR-SITE-F2 886-FR Legacy Drive-Roundabout				
COMPUTER FILE MANAGEMENT				
FILE NAME: S:\21.886.048 (Trails at Aspen Ridge - F5)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Sanitary Plan\GN01.dwg				
CTB FILE: ----				
PLOT DATE: February 17, 2023 8:05:34 AM				
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)



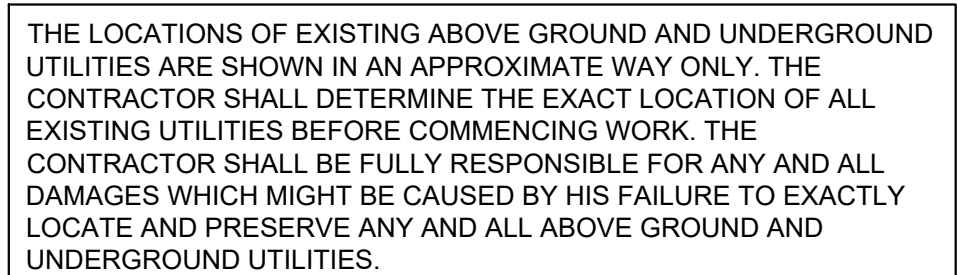
TRAILS AT ASPEN RIDGE- F5				
8" SANITARY SEWER PLANS				
GENERAL NOTES, LEGEND & ABBREVIATIONS				
DESIGNED BY:	CRD	SCALE	DATE ISSUED:	DRAWING No.
DRAWN BY:	CRD	HORIZ 1"=200'	FEBRUARY 2023	GN01
CHECKED BY:	NMS	VERT. N/A	SHEET 2 OF 7	



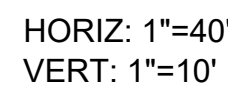
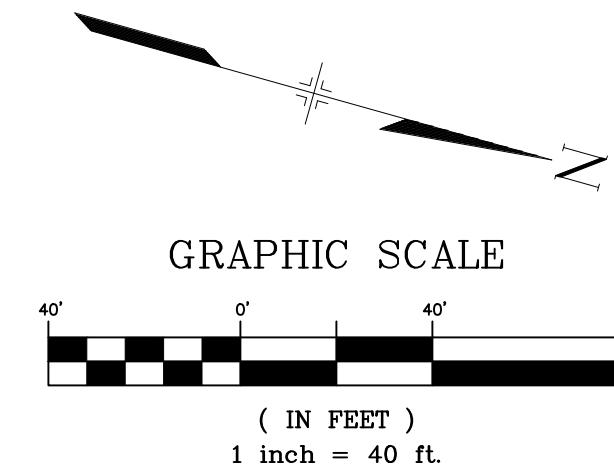


STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE STATION	STRUCTURE DETAILS	STRUCTURE TYPE	NORTHING & EASTING	CUT
MH - 2	6+94.71	RIM = 5904.89 PIPE - 6 INV IN (8") = 5890.83 PIPE - 4 INV IN (8") = 5890.83 PIPE - 5 INV OUT (8") = 5890.73	5' MH	N: 7586.91 E: 12678.29	14.16'
MH - 3	1+04.99	RIM = 5911.38 PIPE - 7 INV OUT (8") = 5897.85	4' MH	N: 7805.93 E: 12567.52	13.52'

PIPE SUMMARY TABLE						
PIPE NAME	PIPE DESCRIPTION	PIPE SLOPE	PIPE LENGTH	PIPE BEARING	CHORD LENGTH	RADIUS
PIPE - 5	8" PVC	4.07%	275.78	S15°40'31"E	275.78	0.00
PIPE - 6	8" PVC	2.80%	92.75	S15°33'30"E	92.75	0.00
PIPE - 7	8" PVC	2.80%	158.13	N33°29'07"W	155.50	250.00

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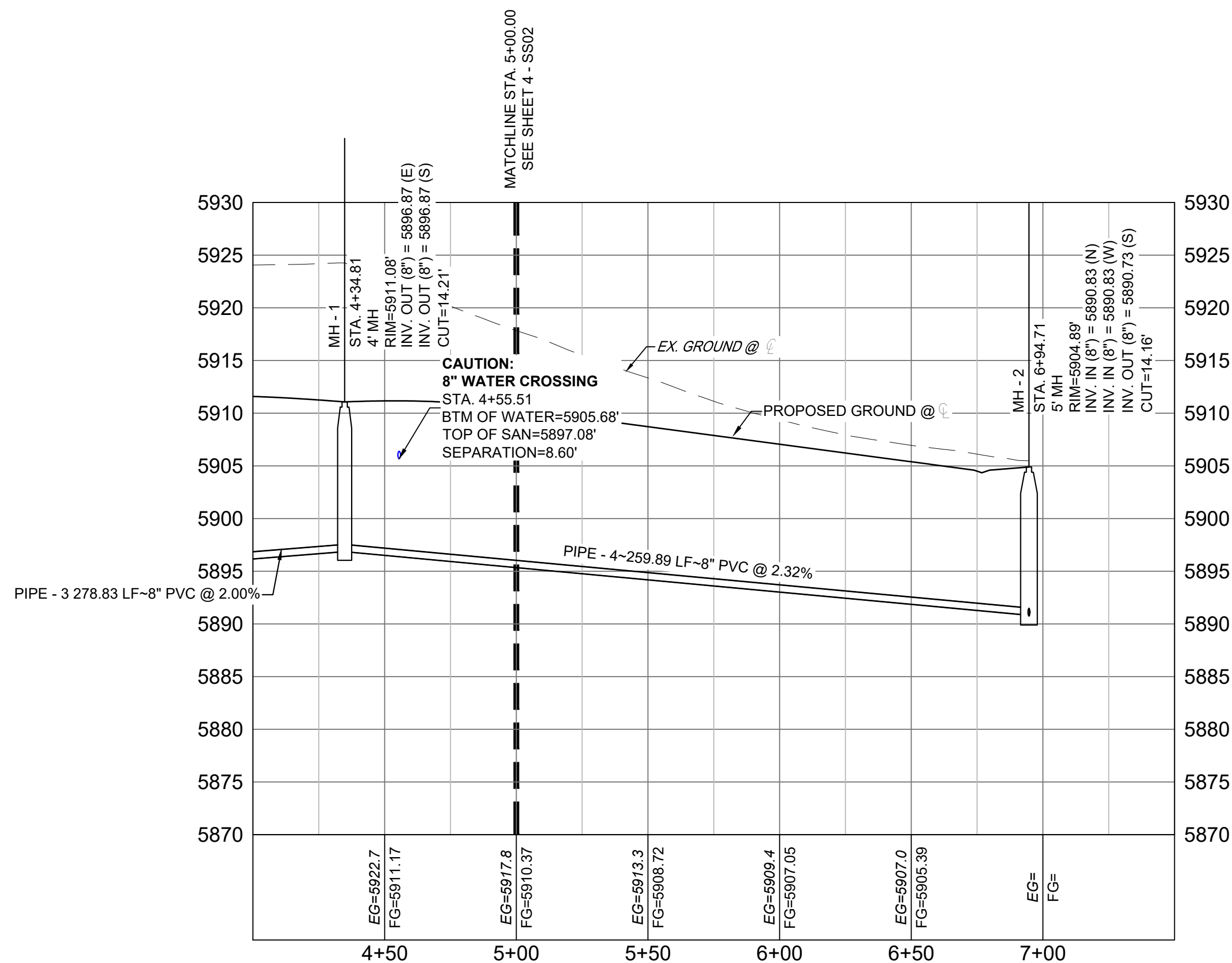
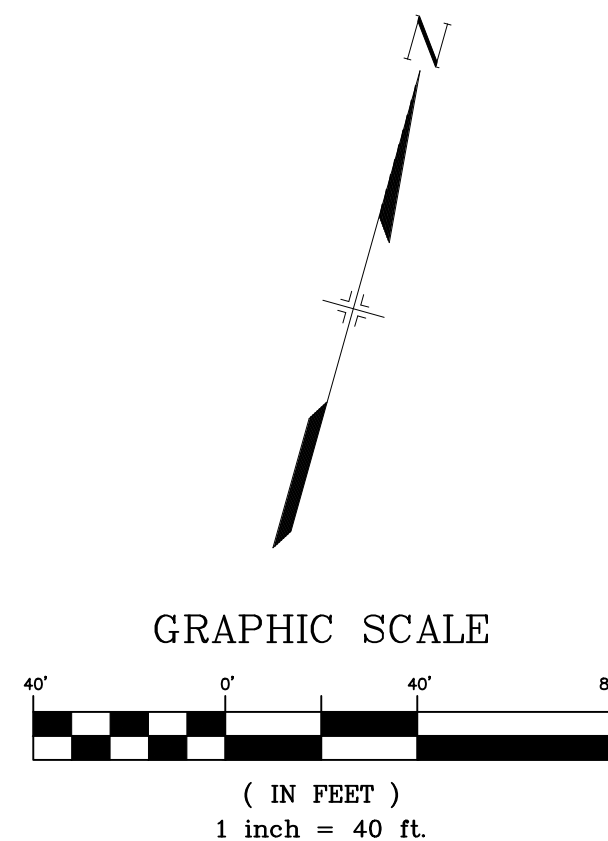
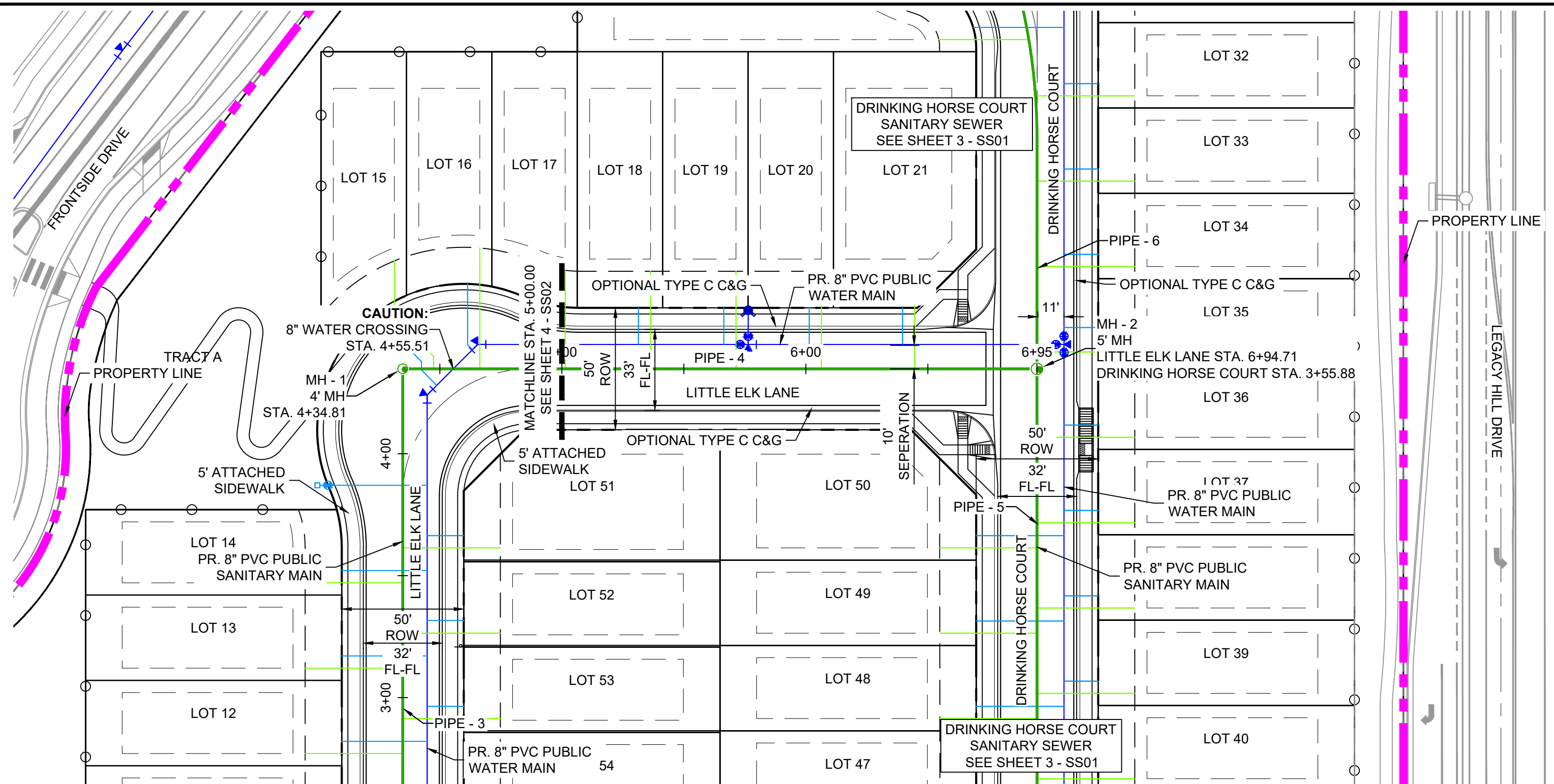




PIPE SUMMARY TABLE						
PIPE NAME	PIPE DESCRIPTION	PIPE SLOPE	PIPE LENGTH	PIPE BEARING	CHORD LENGTH	RADIUS
PIPE - 2	8" PVC	2.00%	51.87	S23°39'00"E	51.73	200.00
PIPE - 3	8" PVC	2.00%	278.83	S15°39'12"E	278.83	0.00

DESIGNED BY:	CRD	SCALE		DATE ISSUED:	FEBRUARY 2023	DRAWING No.  <b>SS02</b>
DRAWN BY:	CRD	HORIZ.	1"=40'			
CHECKED BY:	NMS	VERT.	1"=10'	SHEET	4 OF 7	



Know what's below.  
Call before you dig.

LITTLE ELK LANE SANITARY PROFILE

HORIZ: 1"=40'  
VERT: 1"=10'

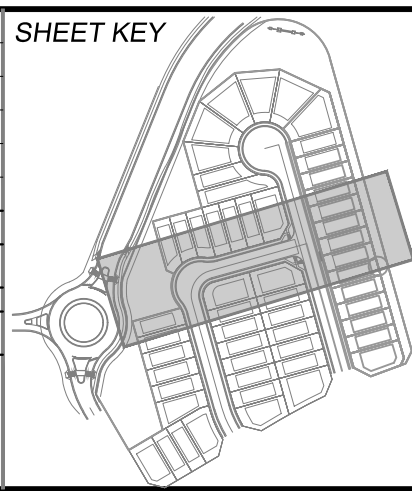
STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE STATION	STRUCTURE DETAILS	STRUCTURE TYPE	NORTHING & EASTING	CUT
MH - 1	4+34.81	RIM = 5911.08 PIPE - 4 INV OUT (8") = 5896.87 PIPE - 3 INV OUT (8") = 5896.87	4' MH	N: 7516.79 E: 12428.04	14.21'
MH - 2	6+94.71	RIM = 5904.89 PIPE - 6 INV IN (8") = 5890.83 PIPE - 4 INV IN (8") = 5890.83 PIPE - 5 INV OUT (8") = 5890.73	5' MH	N: 7586.91 E: 12678.29	14.16'

PIPE SUMMARY TABLE						
PIPE NAME	PIPE DESCRIPTION	PIPE SLOPE	PIPE LENGTH	PIPE BEARING	CHORD LENGTH	RADIUS
PIPE - 3	8" PVC	2.00%	278.83	S15°39'12"E	278.83	0.00
PIPE - 4	8" PVC	2.32%	259.89	S74°20'48"W	259.89	0.00
PIPE - 5	8" PVC	4.07%	275.78	S15°40'31"E	275.78	0.00
PIPE - 6	8" PVC	2.80%	92.75	S15°37'30"E	92.75	0.00

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

REFERENCE DRAWINGS					
X-886-PR-WTR-F5 X-886-EX-BASE X-886-EX-SURVEY X-886-PR-SITE-F1 X-886-PR-SITE-F2 886-PR Legacy Drive Roundabout X-886-PR-SITE-F6 X-886-PR-SITE-F5 X-886-PR-SITE-F4 X-886-PR-SITE-F3 X-886-PR-WTR-F6 X-886-PR-WTR-F4 X-886-PR-WTR-F3 X-886-PR-WTR-F2 X-886-PR-WTR-F1 X-886-PR-WTR-F0 X-886-PR-WTR-F5 X-886-PR-WTR-F4 X-886-PR-WTR-F3 X-886-PR-WTR-F2 X-886-PR-WTR-F1 X-886-PR-WTR-F0		No.		DATE	
		DESCRIPTION		BY	
		REVISIONS			
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FILE NAME:		S:\21.886.048 (Trails at Aspen Ridge - F5)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Sanitary Plan\SS03.dwg			
CTB FILE:		---			
PLOT DATE:		February 17, 2023 8:10:27 AM			
		THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY



## 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

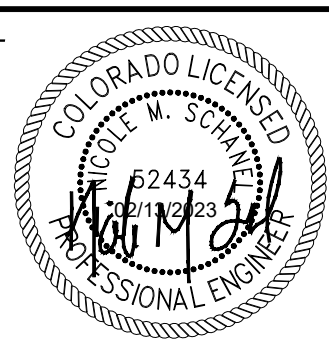
## BASIS OF BEARING

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 1/2" AULM. CAP PLS 10377)

PREPARED BY:



SEAL



FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.  
PROJECT No. 21.886.048

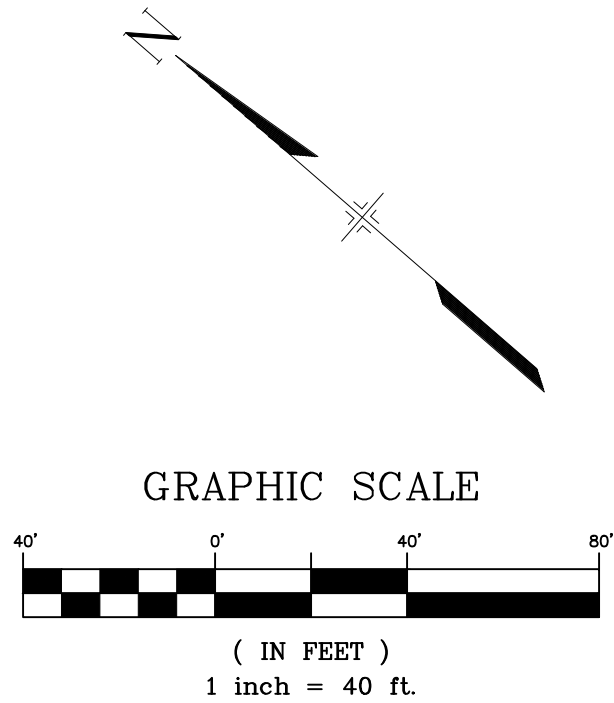
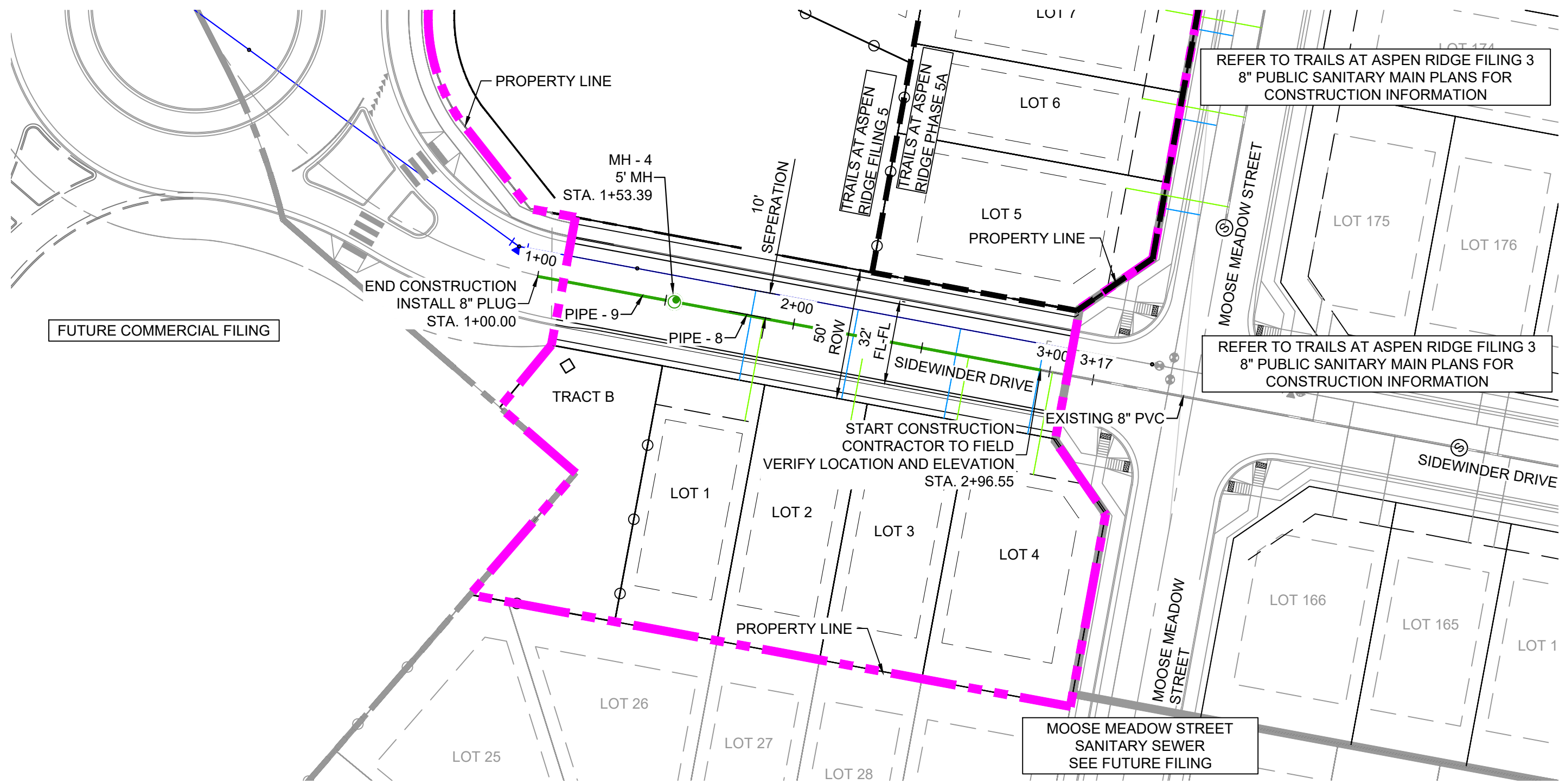
DESIGNED BY:	CRD	SCALE	DATE ISSUED:	FEBRUARY 2023	DRAWING No.
CHECKED BY:	NMS	HORIZ. 1"=40' VERT. 1"=10'	SHEET	5 OF 7	SS03

## TRAILS AT ASPEN RIDGE- F5

8" SANITARY SEWER PLANS

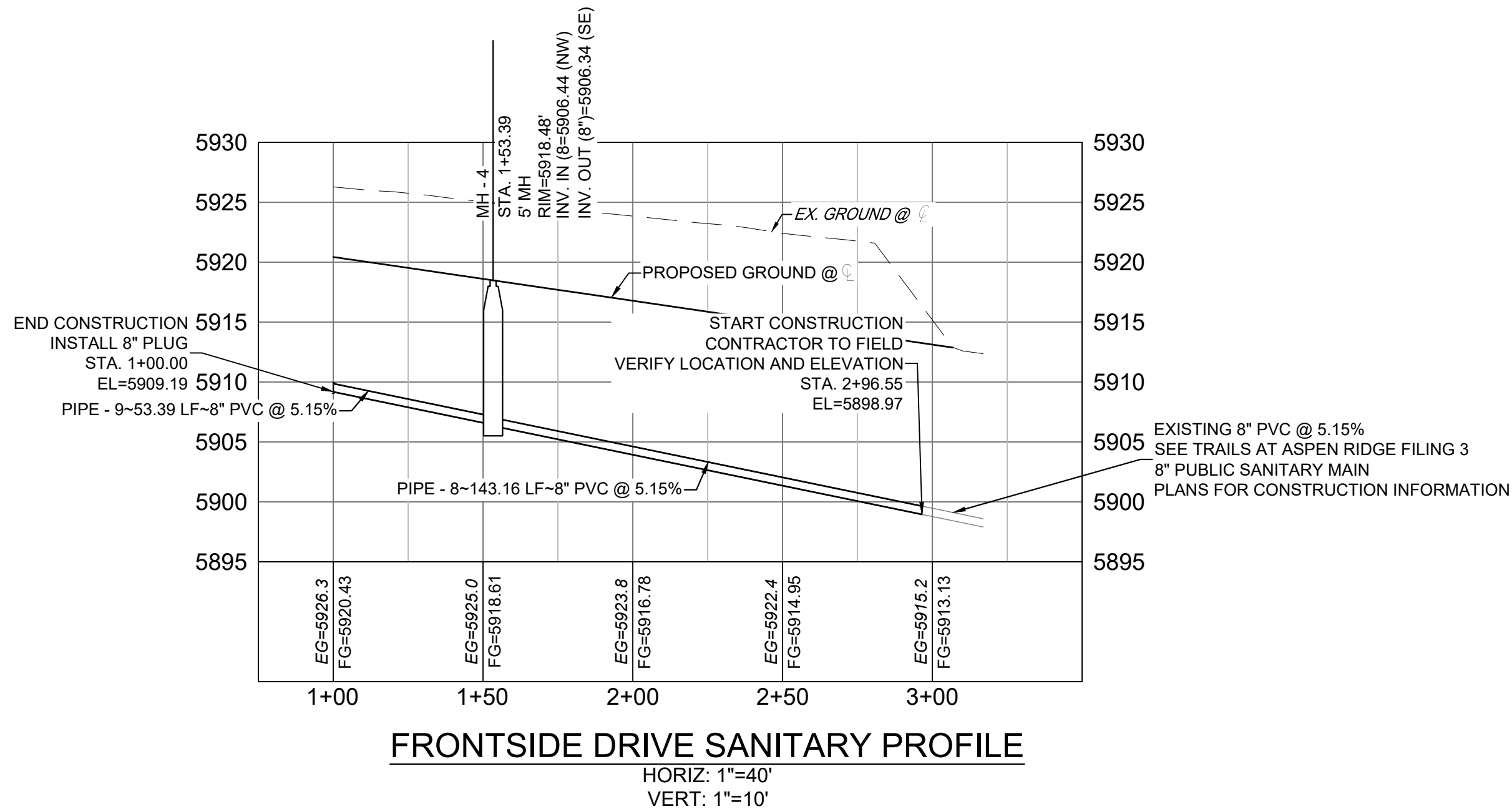
## WASTEWATER PLAN &amp; PROFILE





STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE STATION	STRUCTURE DETAILS	STRUCTURE TYPE	NORTHING & EASTING	CUT
MH - 4	1+53.39	RIM = 5918.484 PIPE - 9 INV IN (8") = 5906.440 PIPE - 8 INV OUT (8") = 5906.344	5' MH	N: 7210.22 E: 12252.54	12.14

PIPE SUMMARY TABLE						
PIPE NAME	PIPE DESCRIPTION	PIPE SLOPE	PIPE LENGTH	PIPE BEARING	CHORD LENGTH	RADIUS
PIPE - 8	8" PVC	5.15%	143.16	S30°21'57"E	143.16	0.00
PIPE - 9	8" PVC	5.15%	53.39	N30°21'46"W	53.39	0.00



THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

REFERENCE DRAWINGS

X-886-PR-WTR-F5

X-886-EX-BASE

X-886-EX-SURVEY

X-886-PR-SITE-F1

X-886-PR-SITE-F2

886-PR Legacy Drive-Roundabout

X-886-PR-SITE-F6

X-886-PR-SITE-F5

X-886-PR-SITE-F4

X-886-PR-SITE-F3

X-886-PR-SITE-F7

X-886-PR-WTR

X-886-PR-WTR-F3

X-886-PR-WTR-F6

X-886-PR-WTR-F4

X-886-PR-WTR-F7

19-886-PR-TITLE

X-Title-Utilities

No.	DATE	DESCRIPTION	BY
REVISIONS			
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\21.886.048 (Trails at Aspen Ridge - F5)\100 Dwg\104 Plan Sets\Construction Plans\Utility Plans\Sanitary Plan\SS05.dwg			
CTB FILE: ----			
PLOT DATE: February 17, 2023 8:11:56 AM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			

SHEET KEY

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)

PREPARED BY:

SEAL

FOR AND ON BEHALF OF  
MATRIX DESIGN GROUP, INC.  
PROJECT No. 21.886.048

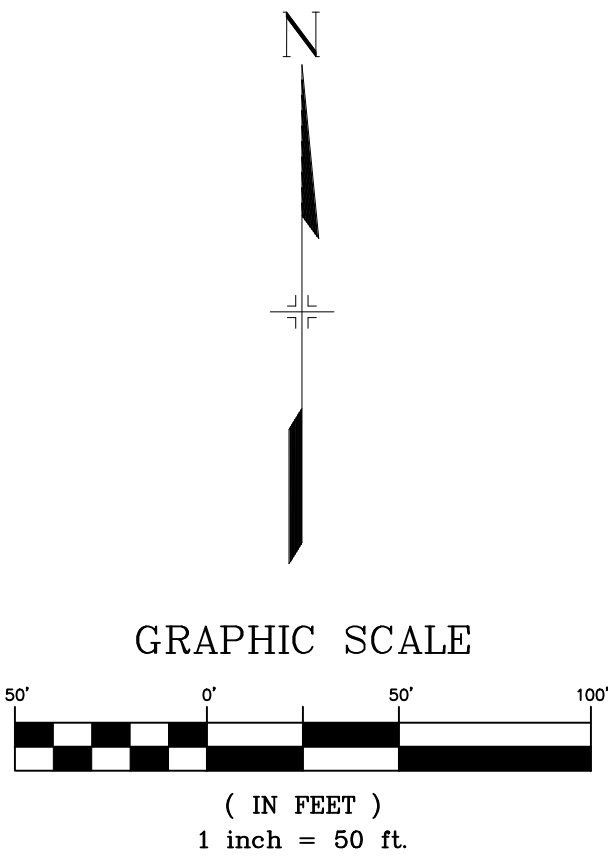
TRAILS AT ASPEN RIDGE- F5

8" SANITARY SEWER PLANS

WASTEWATER PLAN & PROFILE

DESIGNED BY:	CRD	SCALE	DATE ISSUED:	FEBRUARY 2023	DRAWING No.
DRAWN BY:	CRD	HORIZ 1"=40'			SS04
CHECKED BY:	NMS	VERT. 1"=10'	SHEET	6 OF 7	





SANITARY SERVICE TABLE				
LOT #	BEARING	LENGTH	NORTHING	EASTING
1	N59°38'14"E	40.00	7159.80	12235.72
2	N59°38'14"E	40.00	7125.28	12255.94
3	N59°38'14"E	40.00	7090.77	12276.16
4	N59°38'14"E	40.00	7062.53	12292.70
5	N30°30'47"W	40.00	7073.34	12419.44
6	N30°30'47"W	40.00	7091.11	12449.60
7	N30°30'47"W	40.00	7108.88	12479.75
8	N30°30'47"W	40.00	7127.16	12510.77
9	N74°20'48"E	40.00	7252.98	12460.42
10	N74°20'48"E	40.00	7286.70	12450.97
11	N74°20'48"E	40.00	7320.40	12441.53
12	N74°20'48"E	40.00	7354.10	12432.08
13	N74°20'48"E	40.00	7387.80	12422.64
14	N74°20'48"E	40.00	7421.50	12413.20
15	S15°39'12"E	22.90	7558.48	12412.78
16	S15°39'12"E	49.55	7573.02	12445.06
17	S15°39'12"E	40.40	7573.65	12481.23
18	S15°39'12"E	40.00	7582.71	12515.03
19	S15°39'12"E	40.00	7592.15	12548.74
20	S15°39'12"E	40.00	7601.59	12582.44

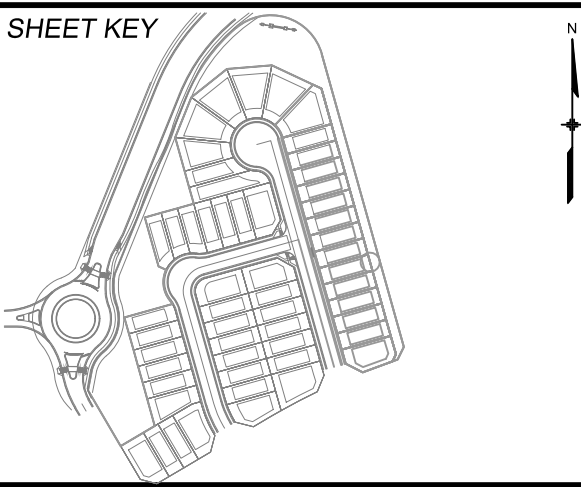
SANITARY SERVICE TABLE				
LOT #	BEARING	LENGTH	NORTHING	EASTING
21	S15°39'12"E	40.00	7611.92	12619.30
22	N74°20'48"E	36.87	7706.05	12603.16
23	S74°20'48"W	73.58	7747.43	12621.09
25	S80°47'16"E	61.46	7794.88	12523.02
26	S49°43'35"E	43.15	7835.28	12544.81
27	S05°30'03"W	54.53	7853.36	12598.82
28	S37°58'43"W	44.17	7838.86	12635.19
29	S74°20'48"W	66.50	7806.58	12658.26
30	S74°20'48"W	56.01	7772.92	12667.82
31	S74°20'48"W	45.71	7739.21	12677.27
32	S74°20'48"W	40.70	7705.51	12686.71
33	S74°22'30"W	40.07	7671.80	12696.16
34	S74°22'30"W	40.08	7638.10	12705.60
35	S74°22'30"W	40.10	7604.40	12715.04
36	S74°19'22"W	40.09	7570.71	12724.48
37	S74°19'29"W	40.08	7537.01	12733.93
38	S74°19'29"W	40.07	7503.31	12743.37
39	S74°20'48"W	40.05	7469.60	12752.82
40	S74°20'48"W	40.04	7435.90	12762.26
41	S74°20'48"W	40.03	7402.20	12771.70

SANITARY SERVICE TABLE				
LOT #	BEARING	LENGTH	NORTHING	EASTING
42	S74°19'22"W	40.01	7368.50	12781.14
43	S74°19'22"W	39.99	7339.52	12789.27
44	N73°26'51"E	39.79	7307.04	12715.53
45	N74°20'48"E	39.78	7337.02	12707.10
46	N74°20'48"E	39.81	7370.71	12697.62
47	N74°20'48"E	39.83	7404.40	12688.14
48	N74°20'48"E	39.86	7438.10	12678.66
49	N74°20'48"E	39.88	7471.79	12669.18
50	N74°20'48"E	39.90	7505.48	12659.70
51	S74°20'48"W	40.00	7456.91	12486.36
52	S74°20'48"W	40.00	7423.21	12495.80
53	S74°20'48"W	40.00	7389.50	12505.24
54	S74°20'48"W	40.00	7355.80	12514.69
55	S74°20'48"W	40.00	7322.10	12524.13
56	S74°20'48"W	40.00	7288.40	12533.58
57	S74°20'48"W	39.47	7254.71	12543.08
58	S59°29'13"W	39.96	7221.77	12557.53

NOTE:  
SERVICES FOR LOTS 5-8 WERE INSTALLED WITH TRAILS AT ASPEN RIDGE FILING 3

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

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**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)



TRAILS AT ASPEN RIDGE- F5				
8" SANITARY SEWER PLANS				
SANITARY SERVICE PLAN				
DESIGNED BY:	CRD	SCALE	DATE ISSUED:	DRAWING No.
DRAWN BY:	CRD	HORIZ 1"=50'	FEBRUARY 2023	SS05
CHECKED BY:	NMS	VERT. N/A	SHEET 7 OF 7	