# TRAILS AT ASPEN RIDGE FILING NO. 4

SHEET No.

EL PASO COUNTY, CO

## ROADWAY & STORM IMPROVEMENT PLANS **AUGUST 2021**

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OWNER/DEVELOPER COLA, LLC

555 MIDDLE CREEK PARKWAY, SUITE 380

COLORADO SPRINGS, CO 80921

(719) 382-9433

CIVIL ENGINEER MATRIX DESIGN GROUP

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GAS **COLORADO SPRINGS UTILITIES** 1521 HANCOCK EXPRESSWAY

COLORADO SPRINGS, CO

EL PASO COUNTY PUBLIC SERVICES

MARY HOAGLUND (719) 668-4083

DEPARTMENT

PLOT DATE: September 27, 2022 4:00:19 PM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

STREET

EL PASO COUNTY PUBLIC SERVICES

(719) 520-6460

DRAINAGE DEPARTMENT (719) 520-6460

FIRE DEPARTMENT SECURITY FIRE DEPARTMENT

400 SECURITY BOULEVARD SECURITY, CO 80911 (719) 392-7121

# TRAILS AT ASPEN RIDGE **FUTURE FILINGS** TRAILS AT ASPEN RIDGE **FUTURE FILINGS** TRAILS AT ASPEN RIDGE FILING NO.1 FILING NO. 3 SITE MAP

# POWERS BLVD FONTAINE BLVD FONTAINE BLVD VICINITY MAP

1" = 500'

## **ENGINEER'S STATEMENT:**

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID COUNTY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED DRAINAGE PLANS AND SPECIFICATIONS MEET THE PURPOSE FOR WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED DRAINAGE PLANS AND SPECIFICATIONS.

NICOLE SCHANEL. PE #52434 FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

#### **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 TRUCTION 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.

DATE

JENNIFER IRVINE, P.E. COUNTY ENGINEER / ECM ADMINISTRATOR

#### OWNER/DEVELOPER:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN AND ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

DATE TIM BUSCHAR DIRECTOR OF LAND ACQUISITION AND DEVELOPMENT COLA, LLC

SEAL

555 MIDDLE PARKWAY COLORADO SPRINGS, CO 80921

DRAWINGS								
	1							
	No.	DATE	DESCRIPTION	BY				
	REVISIONS							
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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

ELEVATION - 5897.89' U.S. SURVEY FT

BEARINGS ARE BASED ON THE NORTH LINE O.
TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS \$89°5123 E FINOW THE
NORTHWEST CORNER OF SAID SECTION 9 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID

100 A 100 BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9,

PREPARED BY

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

TRAILS AT ASPEN RIDGE FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

SCALE DATE ISSUED: FOR AND ON BEHALF OF DESIGNED BY: CAG MATRIX DESIGN GROUP, INC. DRAWN BY: CAG PROJECT No. 21.886.038

TITLE SHEET

SF-21-024

AUGUST 2021 DRAWING No. 1 OF 32

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL AND CDOT STANDARD SPECIFICATIONS, LATEST REVISION.
- 2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL WORK IS PERFORMED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
- 3. NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE FIELD
- 4. SUBMITTALS SHALL BE MADE FOR ALL MATERIALS TO BE INCORPORATED INTO THE PROJECT
- 5. UTILITY LINES AS SHOWN ON THE PLAN SHEETS ARE PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION AND PROTECTION OF ALL UTILITIES IN PLACE.
- 6. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 TWO BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION OR GRADING.
- 7. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL UTILITY AND STRUCTURES AFFECTED BY THE WORK AND ANY DAMAGE SHALL BE REPAIRED AND RESTORED TO THE SATISFACTION OF THE RESPECTIVE UTILITY OWNER. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL UTILITY RELOCATIONS AS NECESSARY. THE COUNTY ENGINEERING INSPECTIONS, UTILITY DEPARTMENTS AND UTILITY OWNERS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WHERE THESE UTILITIES MAY BE AFFECTED
- IN SOME OF THE PROPOSED AREAS OF CONSTRUCTION EXISTING UNDERGROUND TELEPHONE, FIBER AND CABLE TELEVISION FACILITIES MAY BE LOCATED IN CLOSE PROXIMITY TO THE WORK. THE CONTRACTOR MAY, IF NECESSARY, TEMPORARILY DISPLACE THE CABLES DURING CONSTRUCTION AND REINSTALL THEM IN ACCORDANCE WITH THE APPROPRIATE TELEPHONE, FIBER OR CABLE COMPANY'S GUIDELINES. COORDINATION WITH BOTH THE TELEPHONE AND CABLE TELEVISION COMPANY IS REQUIRED TO BE DONE BY THE CONTRACTOR
- 9. THE CONTRACTOR SHALL OBTAIN AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- 10. THE PHYSICAL FEATURES WITHIN THE LIMITS OF THE PROJECT HAVE BEEN SHOWN BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FEATURES SHOWN. THE CONTRACTOR SHALL REVIEW AND VERIFY EXISTING PHYSICAL FEATURES AND ELEVATIONS THEMSELVES OF THE CONDITIONS TO BE ENCOUNTERED DURING THE CONSTRUCTION.
- 11. THE CONTRACTOR SHALL LIMIT ALL WORK AND STORAGE AREAS TO THE PUBLIC RIGHT-OF-WAYS AND EASEMENTS. USE OF ANY PRIVATE AREAS FOR THIS PROJECT BY THE CONTRACTOR MUST BE APPROVED IN WRITING BY THE PROPERTY OWNER WITH A COPY OF THIS APPROVAL PROVIDED TO THE FIELD ENGINEER PRIOR TO USAGE.
- 12. ALL CONSTRUCTION IS TO INCLUDE COMPACTION AND FINISH GRADING IN THE UNIT PRICE RELATED WORK ITEM.
- 13. ALL WORK SHALL BE DONE TO THE LINES, GRADES, SECTIONS, AND ELEVATIONS SHOWN ON THE PLANS UNLESS OTHERWISE NOTED OR APPROVED BY THE FIELD ENGINEER.
- 14. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY EL PASO COUNTY AND THE FIELD ENGINEER.
- 15. THE FIELD ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
- 16. PAYMENT, DIMENSIONS AND RADII ARE SHOWN TO THE LIP OF CURB UNLESS OTHERWISE NOTED.
- 17. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AND/OR TOES OF SLOPE AS SHOWN ON THE PLANS. ANY DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- 18. THE CONTRACTOR SHALL CLOSELY MONITOR ACCESS FOR HEAVY CONSTRUCTION EQUIPMENT THROUGH THE PROJECT AREAS.
- 19. WHERE PAVEMENT IS TO ABUT EXISTING PAVEMENT, THE EXISTING PAVEMENT SHALL BE REMOVED TO A NEAT VERTICAL LINE BY FULL DEPTH SAWING. SAWING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCIDENTAL TO "REMOVAL OF ASPHALT PAVEMENT". THE CONTRACTOR WILL BE REQUIRED TO PAINT THE EDGE OF CUT PAVEMENT WITH DILUTED EMULSIFIED ASPHALT (SLOW SETTING) PRIOR TO PAVING OPERATIONS. VERTICAL EDGES SHALL NOT REMAIN OVERNIGHT. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF ONE PART EMULSIFIED ASPHALT AND ONE PART WATER.
- 20. WATER SHALL BE USED AS A DUST PALLIATIVE WHERE REQUIRED. LOCATIONS SHALL BE AS ORDERED. THE COST OF WATER SHALL BE INCIDENTAL TO OTHER BID ITEMS.
- 21. THE PHYSICAL FEATURES REQUIRING REMOVAL OR OBLITERATION WITHIN THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF-SITE.
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING ANY MONUMENT, RANGE POINTS, TIES, BENCHMARKS AND/OR SURVEY CONTROL POINTS WHICH MAY BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENT BY A REGISTERED PROFESSIONAL LAND SURVEYOR AUTHORIZED TO PRACTICE LAND SURVEYING IN THE STATE OF COLORADO.
- 23. THE CONTRACTOR SHALL HAVE A COPY OF ALL APPLICABLE STANDARDS AND PLANS ON SITE FOR THE DURATION OF THE PROJECT.
- 24. THE CONTRACTOR SHALL NOT STOCKPILE MATERIAL WITHIN 10 FEET OF THE EDGE OF TRAVELED WAY.
- 25. ANY LAYER OF BITUMINOUS PAVEMENT THAT IS TO HAVE SUCCEEDING LAYER PLACED THEREON SHALL BE COMPLETED FULL WIDTH BEFORE SUCCEEDING LAYER IS PLACED.
- 26. BEFORE PLACEMENT OF THE TACK COAT, THE CONTRACTOR SHALL CLEAN THE PRESENT ROADWAY AS DIRECTED. CLEANING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
- 27. A TACK COAT OF EMULSIFIED ASPHALT (SLOW SETTING) IS TO BE APPLIED BETWEEN PAVEMENT COURSES TO IMPROVE BOND. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

- 28. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY TRAFFIC CONTROL DEVICES NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING FORTY-EIGHT (48) HOURS IN ADVANCE FOR ANY REQUIRED MODIFICATION OF TRAFFIC SIGNALS WITHIN CONSTRUCTION AREAS AS NECESSARY TO MAINTAIN SAFE OPERATIONS.
- 29. ANY DISCREPANCY WITHIN THESE PLANS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND WORK SHALL STOP UNTIL THE DISCREPANCY IS DISCUSSED AND DECISIONS/AGREEMENTS HAVE BEEN MADE.

#### **EARTHWORK:**

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LEGAL DISPOSAL OF ANY EXCESS SOIL, DEBRIS AND WASTE MATERIAL OFF OF THE PROJECT SITE.
- 2. ANY MATERIAL NOT SUITABLE FOR BACKFILL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF, BY AND AT THE EXPENSE OF THE CONTRACTOR.
- 3. ANY SOIL LYING BELOW THE SUBGRADE ELEVATION WHICH IS DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.

#### BENCHMARK AND SURVEY CONTROL

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING OF BOTH HORIZONTAL AND VERTICAL LAYOUT ON THIS PROJECT. COORDINATES ARE REFERENCED IN THE COORDINATE LIST SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR INTERPRETATION AND INFORMATION IN STAKING OF THE PROJECT FOR CONSTRUCTION.
- 2. PRIOR TO PROJECT COMPLETION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY MONUMENTATION DISTURBED OR REMOVED BY CONSTRUCTION OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR LICENSED IN THE STATE OF COLORADO. PROPERTY CORNERS WHICH FALL WITHIN NEW CONCRETE FLATWORK SHALL BE DURABLE AND SET FLUSH. THIS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

#### TRAFFIC GENERAL NOTES:

- 1. THE CONTRACTOR SHALL PREPARE A DETAILED TRAFFIC CONTROL PLAN, SUBMIT TO EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS FOR APPROVAL, AND OBTAIN APPROPRIATE PERMITS IN ACCORDANCE WITH THE M.U.T.C.D.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL, INCLUDING PEDESTRIAN DETOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING THE TEMPORARY TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
- 3 APPROVAL OF THESE PLANS BY THE COUNTY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- 4. THE APPROVAL OF THESE PLANS OR ISSUANCE OF A PERMIT BY EL PASO COUNTY DOES NOT AUTHORIZE THE OWNER OR CONTRACTOR TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES.
- 5. ALL TRAFFIC SIGNS, PAVEMENT MARKINGS, AND TRAFFIC SIGNALS SHALL MEET OR EXCEED M.U.T.C.D. STANDARDS.
- 6. THE CONTRACTOR SHALL NOT REMOVE ANY EXISTING SIGNS, PAVEMENT MARKINGS, OR TRAFFIC SIGNALS DURING THE PROJECT WITHOUT SIGNED AUTHORIZATION OF THE EL PASO COUNTY INSPECTOR ASSIGNED TO THE PROJECT.

#### **CONSTRUCTION NOTES**

d. CDOT M & S STANDARDS

RESPONSIBILITY TO RECTIFY.

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES. WHETHER SHOWN ON THE PLANS OR NOT. BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN. THE STORMWATER MANAGEMENT PLAN (SWMP). THE SOILS AND GEOTECHNICAL REPORT. AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS
- AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
  - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1
  - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
- 4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS

NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S

5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.

- 6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- 8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- 9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- 10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- 11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS
- 12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- 13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE. ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.1
- 14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- 15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

#### SIGNING & STRIPING NOTES:

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- 2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
- 3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
- 4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
- 5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
- ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
- 7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
- 8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
- 9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" X 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
- 10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
- 11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER
- 12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
- 13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
- 14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

Know what's **below**. Call before you dig.

SHEET No.

SF-21-024

REFERENCE DRAWINGS							
	No.	DATE	DESCRIPTION		BY		
			REVISIONS				
	COMPUTER FILE MANAGEMENT						
	FILE NAME: S:\21.886.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\GN01.dwg CTB FILE: Matrix(black).ctb PLOT DATE: September 27, 2022 4:00:27 PM						
	THIS DRA	AWING IS CURRENT A	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 ¼" AULM. CAP PLS 10377)

PREPARED BY:



**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

SEAL

FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

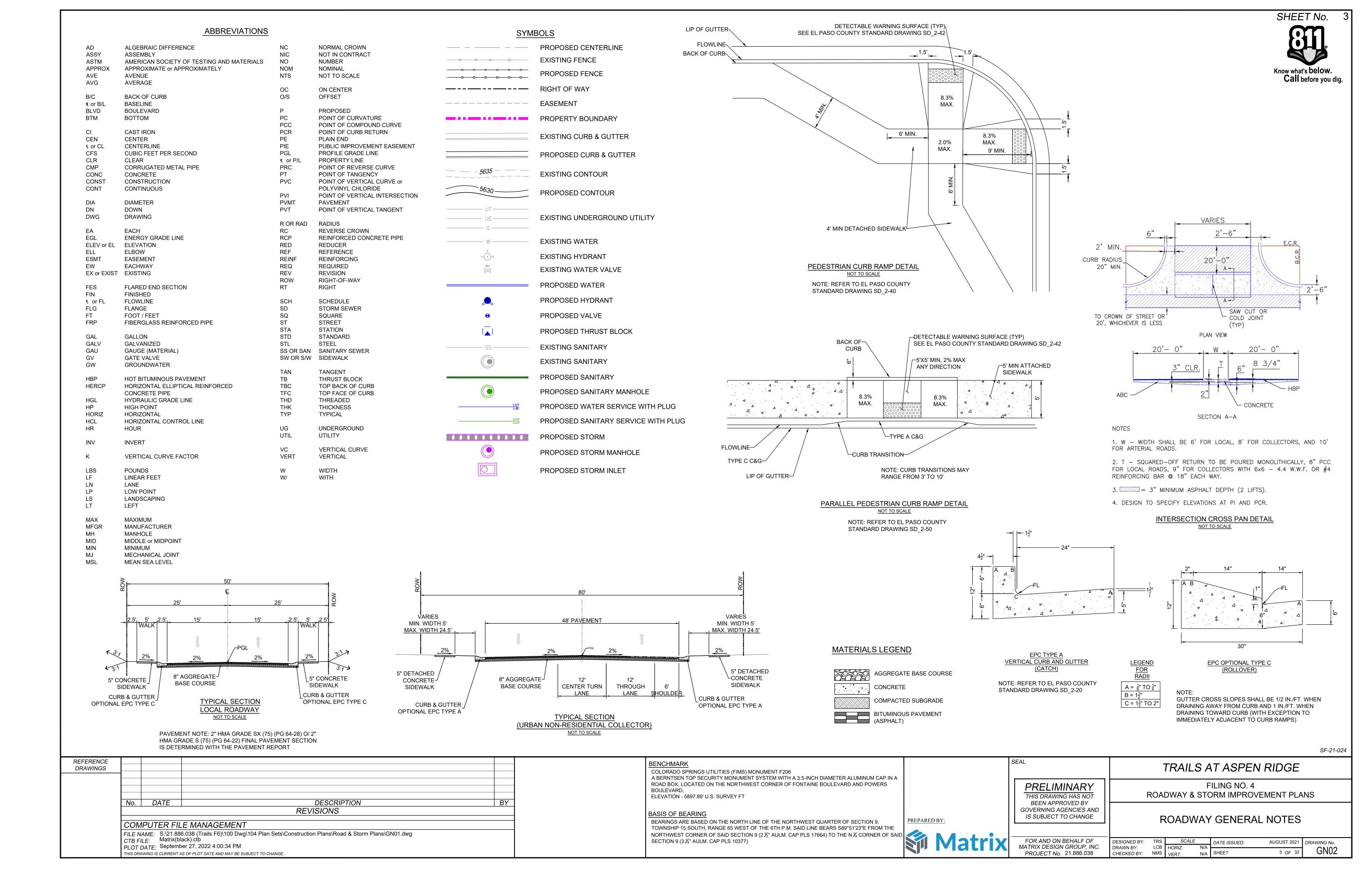
TRAILS AT ASPEN RIDGE

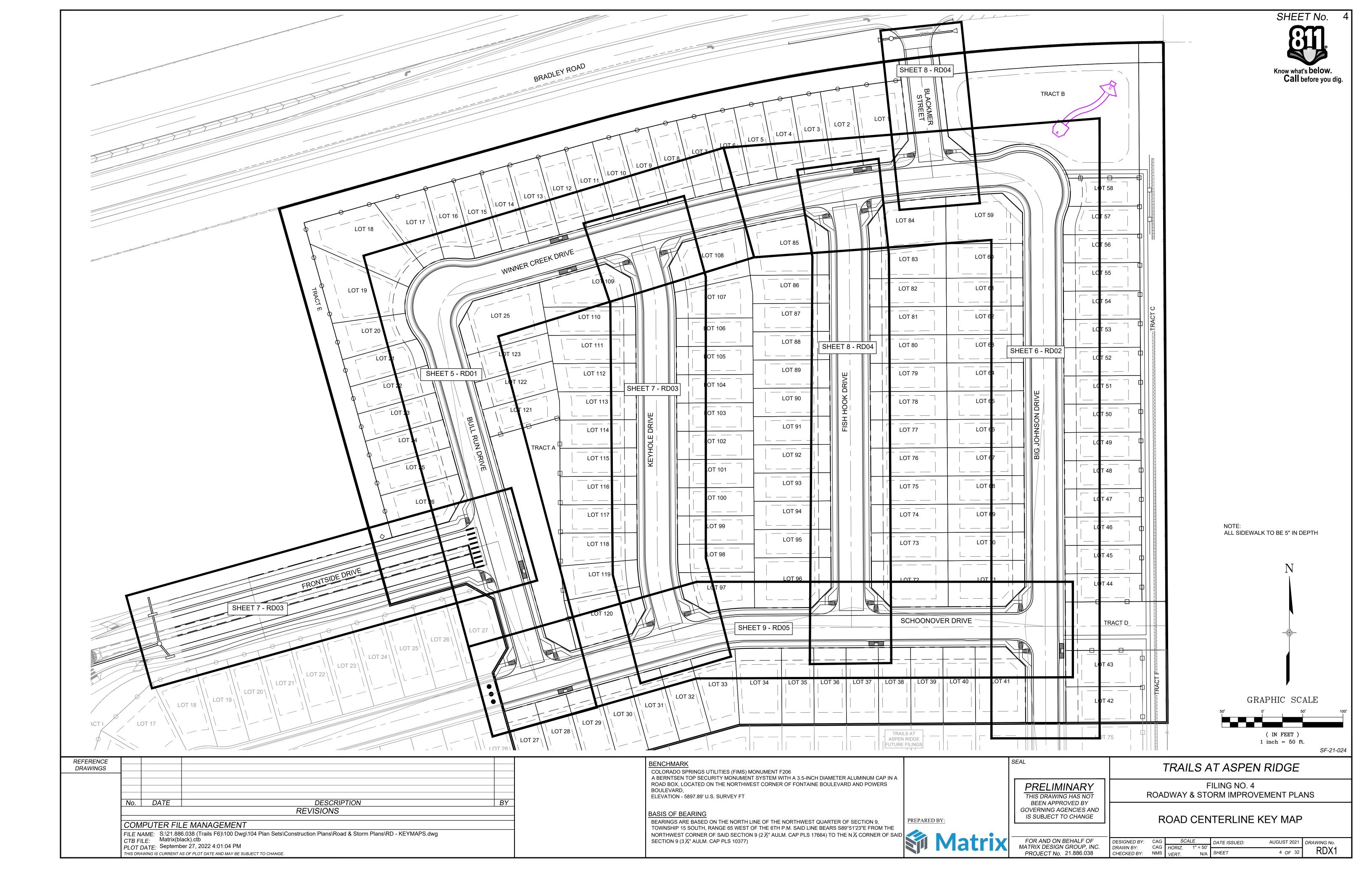
ROADWAY GENERAL NOTES

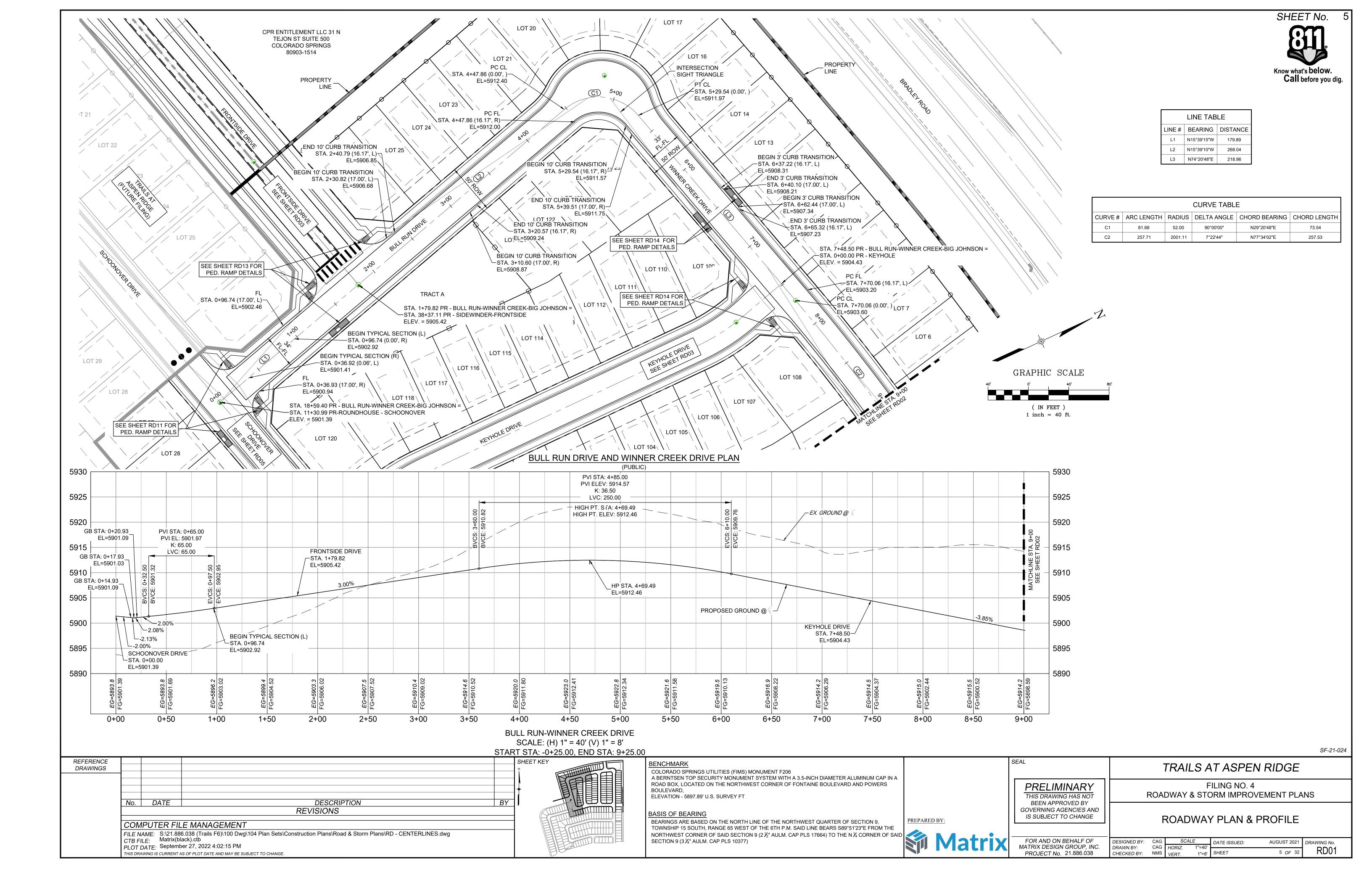
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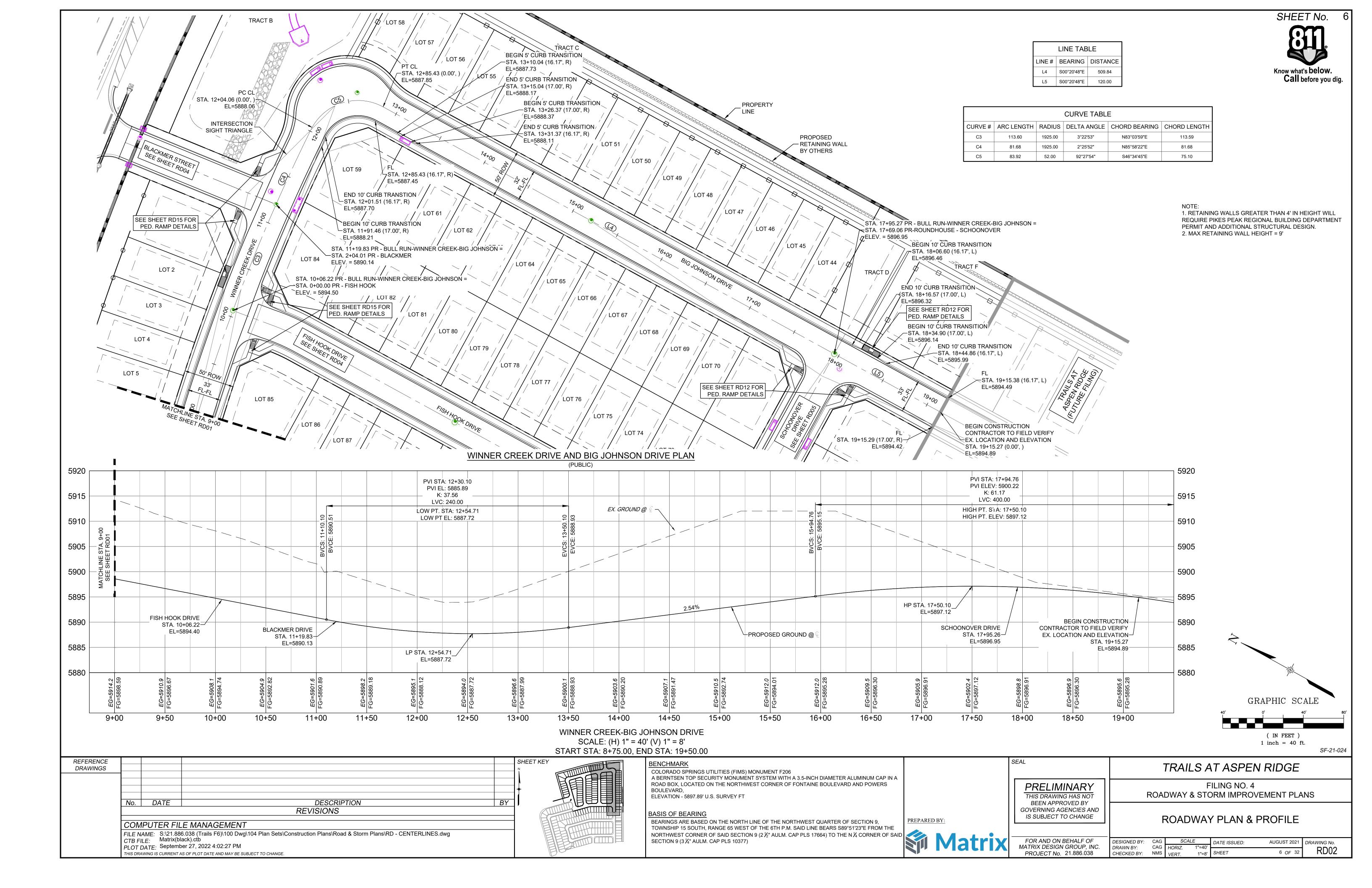
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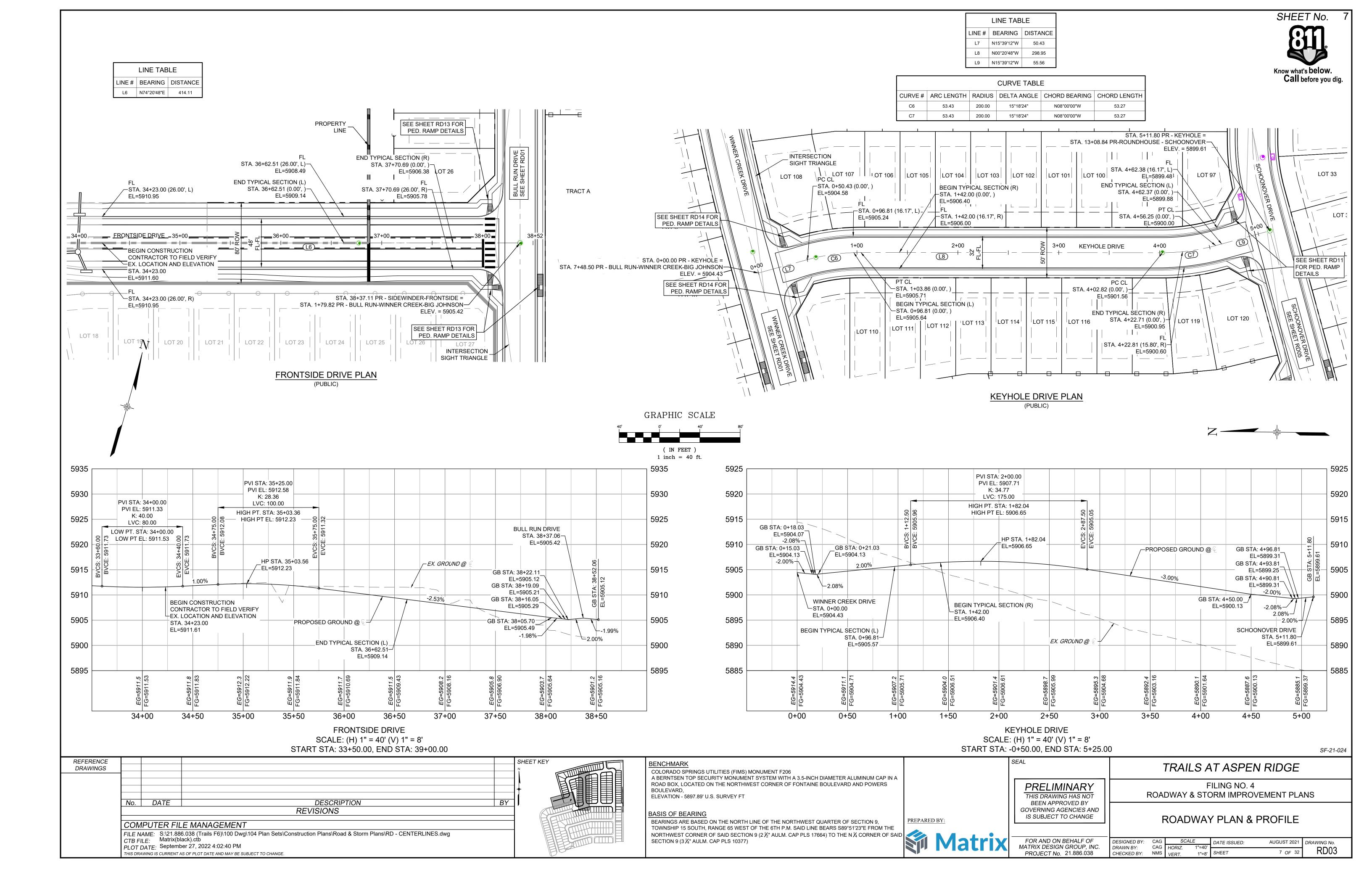
SCALE DATE ISSUED: AUGUST 2021 DRAWING No. GN01 2 OF 32











SHEET No. LINE TABLE LINE # | BEARING | DISTANCE L10 S08°37'27"E 45.15 Know what's below. L12 S00°20'48"E 470.05 Call before you dig. LINE TABLE LINE # | BEARING | DISTANCE L13 S06°43'16"E 161.59 **CURVE TABLE** CURVE # | ARC LENGTH | RADIUS | DELTA ANGLE | CHORD BEARING | CHORD LENGTH 200.00 8°16'39" S04°29'07"E INTERSECTION SIGHT TRIANGLE STA. 5+44.09 PR - FISH HOOK = STA. 15+29.06 PR-ROUNDHOUSE - SCHOONOVER -ELEV. = 5897.41 LOT 60 LOT 61 STA. 0+42.43 (17.00', L) LOT 81 | LOT 80 | LOT 79 | LOT 78 LOT 77 LOT 75 | LOT 74 | LOT 73 | STA. 1+29.63 (17.00', L) LOT 76 EL=5888.69 EL=5890.23 STA. 4+94.66 (16.17', L)— -STA. 0+88.02 (16.17', L) END TYPICAL SECTION (L) l ⊺38 EL=5897.27 **BEGIN CONSTRUCTION** EL=5895.25 SEE SHEET RD15 FOR STA. 1+29.63 (0.00', )-CONTRACTOR TO FIELD VERIFY BEGIN TYPICAL SECTION (L) PED. RAMP DETAILS -END TYPICAL SECTION (R & L) EL=5890.70 EX. LOCATION AND ELEVATION-干STA. 0+88.02 (0.00', ) STA. 4+94.66 (0.00', ) STA. 0+42.43 EL=5897.67 EL=5895.65 EL=5889.16 BLACKMER STREE Ι Γ37 FISH HOOK DRIVE LOT 83 LOT 82 STA. 0+42.43 (17.00', R)-EL=5888.69 STA. 2+04.01 PR - BLACKMER = END TYPICAL SECTION (R) -STA. 11+19.83 PR-WINNER CREEK BEGIN TYPICAL SECTION (R) ELEV. = 5890.13 ─STA. 1+88.98 (0.00', ) STA. 1+04.10 (0.00', )-STA. 4+94.66 (16.17', R) EL=5890.47 SEE SHEET RD12 FOR EL=5897.27 — — PED. RAMP DETAILS ─STA. 1+89.00 (16.17', R) STA. 1+04.10 (17.00', R)− EL=5898.24 SEE SHEET RD15 FOR EL=5890.00 LOT 89 | LOT 90 | LOT 91 LOT 92 LOT 93 LOT 96 PED. RAMP DETAILS STA. 10+06.22 PR - BULL RUN-WINNER CREEK-BIG JOHNSON LOT 2 WINNER CREEK DRIVE PLAN FISH HOOK DRIVE PLAN (PUBLIC) GRAPHIC SCALE 5920 5920 PVI STA: 1+25.00 ( IN FEET ) PVI EL: 5891.19 5925 5915 5915 1 inch = 40 ft.K: 14.20 PVI STA: 2+60.00 LVC: 75.00 PVI EL: 5900.82 K: 40.35 HIGH PT. STA: 1+29.63 5920 5910 5910 LVC: 175.02 요†8 HIGH PT EL: 5890.70 요† HIGH PT. STA: 2+93.42 PVI STA: 0+42.43 HIGH PT EL: 5900.00 PVI EL: 5888.74 \_GB STA: 1+83.35\_ 5915 5905 5905 K: 14.56 EL=5889.84 LVC: 70.00 GB STA: 1+86.35 LOW PT. STA: 0+34.22 EX. GROUND @ EL=5889.77 |♀|ඎLOW PT EL: 5889.14 ♀|ゃ 5910 5900 5900 GB STA: 5+29.09 GB STA: 1+89.35 \_EX. GROUND @ EL=5897.11 EL=5889.84 GB STA: 5+26.09 WINNER CREEK DRIVE 5905 5895 5895 STA. 2+04.01 EL=5897.05 EL=5890.13 GB STA: 0+00.00 GB STA: 5+23.09\_ EL=5889.52 EL=5897.11 -2.32% GB STA: 4+96.00<sub>=</sub> 5890 5890 5900 -1.34% EL=5897.65 -2.00% HP STA. 1+29.63\-2.28% EL=5890.70 └PROPOSED GROUND @ HP STA. 2+93.46 5895 5885 5885 EL=5900.00 LP STA. 0+34.22 BEGIN TYPICAL SECTION (L) EL=5889.14 SCHOONOVER DRIVE <sup>\\_</sup>STA. 1+29.63 BEGIN TYPICAL SECTION (R) STA. 5+44.09-/ ELEV. = 5890.70 PROPOSED STA. 1+88.98 5880 5890 5880 EL=5897.41<sup>-</sup> ELEV. = 5898.64 GROUND @ BEGIN TYPICAL SECTION (R) <sup>\\_</sup>STA. 1+04.10 ELEV. = 5890.47 5875 2+00 2+50 3+00 3+50 4+00 4+50 5+00 5+50 0+00 0+50 1+50 2+00 2+50 1+00 **BLACKMER STREET** FISH HOOK DRIVE SCALE: (H) 1" = 40' (V) 1" = 8' SCALE: (H) 1" = 40' (V) 1" = 8' START STA: -0+25.00, END STA: 5+75.00 START STA: -0+25.00, END STA: 3+00.00 SF-21-024

SHEET KEY DRAWINGS DESCRIPTION No. DATE REVISIONS

COMPUTER FILE MANAGEMENT

\_GB STA: 0+21.37 昐 급

GB STA: 0+15.37

0+50

EL=5894.19

WINNER CREEK DRIVE

-STA. 0+00.00

EL=5894.50

0+00

EL=5894.19

BLACKMER STREET

SEE SHEET RD15 FOR

PED. RAMP DETAILS

LOT 1

LOT 3

LOT 4

5925

5920

5910

5905

GB STA: 0+18.37

EL=5894.13

SEE SHEET RD15 FOR

PED. RAMP DETAILS

\_STA. 0+45.15 (0.00', )

STA. 0+00.00 PR - FISH HOOK =

SIGHT TRIANGLE

3.00%

└─STA. 0+88.02

1+00

ELEV. = 5895.65

BEGIN TYPICAL SECTION (L)

→STA. 0+74.04 (0.00', )

EL=5894.66

FILE NAME: S:\21.886.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD - CENTERLINES.dwg CTB FILE: Matrix(black).ctb

1+50

PLOT DATE: September 27, 2022 4:02:57 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,

PREPARED BY

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

SEAL

TRAILS AT ASPEN RIDGE FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

**ROADWAY PLAN & PROFILE** 

RD04

8 OF 32

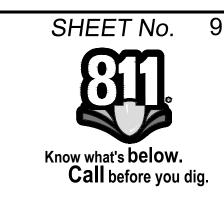
FOR AND ON BEHALF OF SCALE AUGUST 2021 DRAWING No. DESIGNED BY: CAG DATE ISSUED:

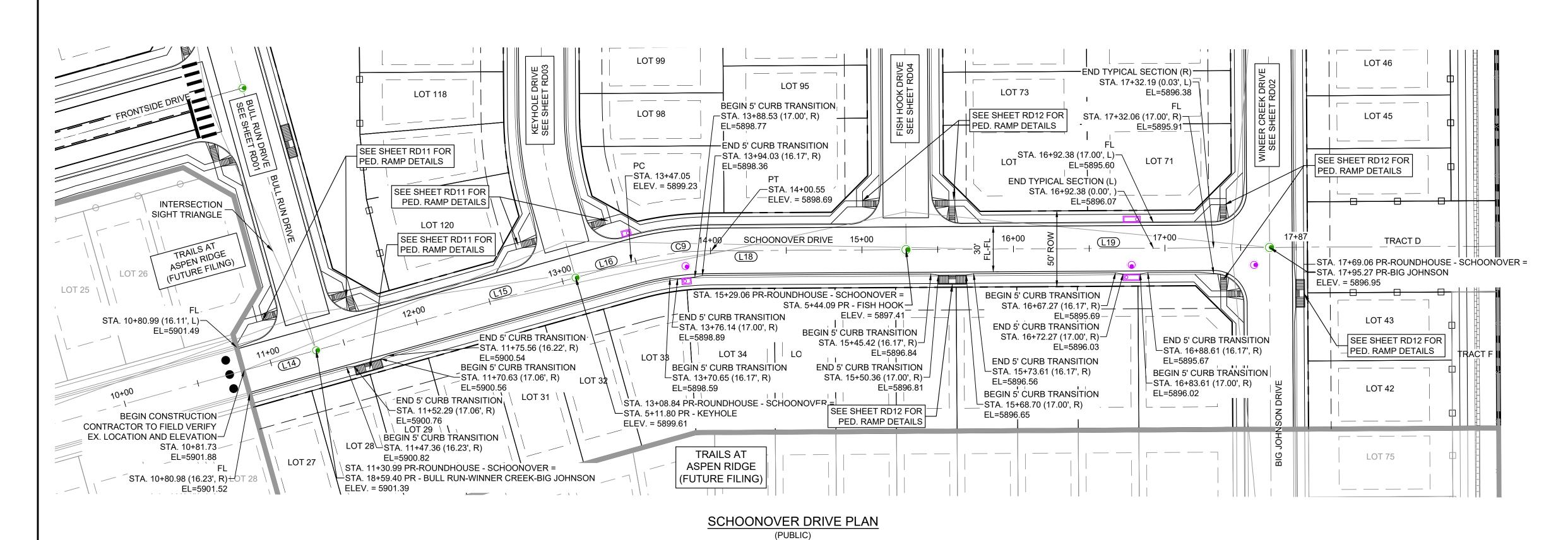
CAG HORIZ. NMS VERT. CAG

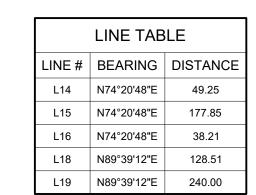
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CHECKED BY:

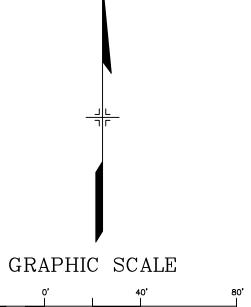




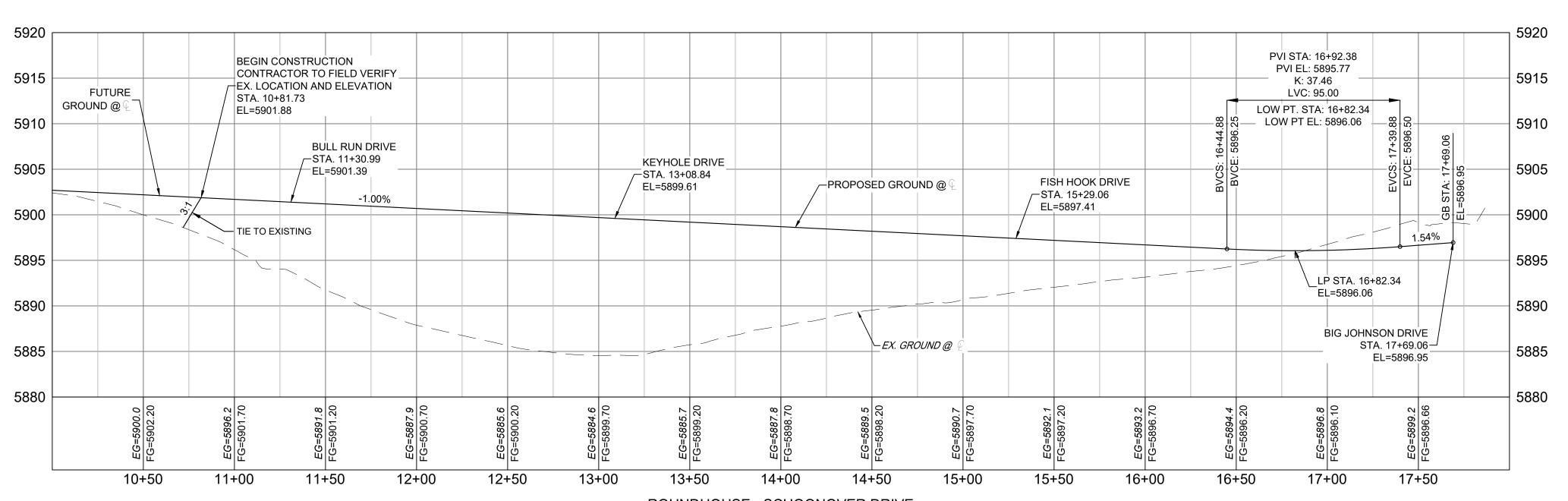




CURVE TABLE						
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGT	
C9	53.50	200.00	15°19'38"	N82°00'37"E	53.34	



( IN FEET ) 1 inch = 40 ft.



ROUNDHOUSE - SCHOONOVER DRIVE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 10+00.00, END STA: 18+00.00

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 ELEVATION - 5897.89' U.S. SURVEY FT

BASIS OF BEARING

PREPARED BY: BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9,

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

SEAL

TRAILS AT ASPEN RIDGE FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

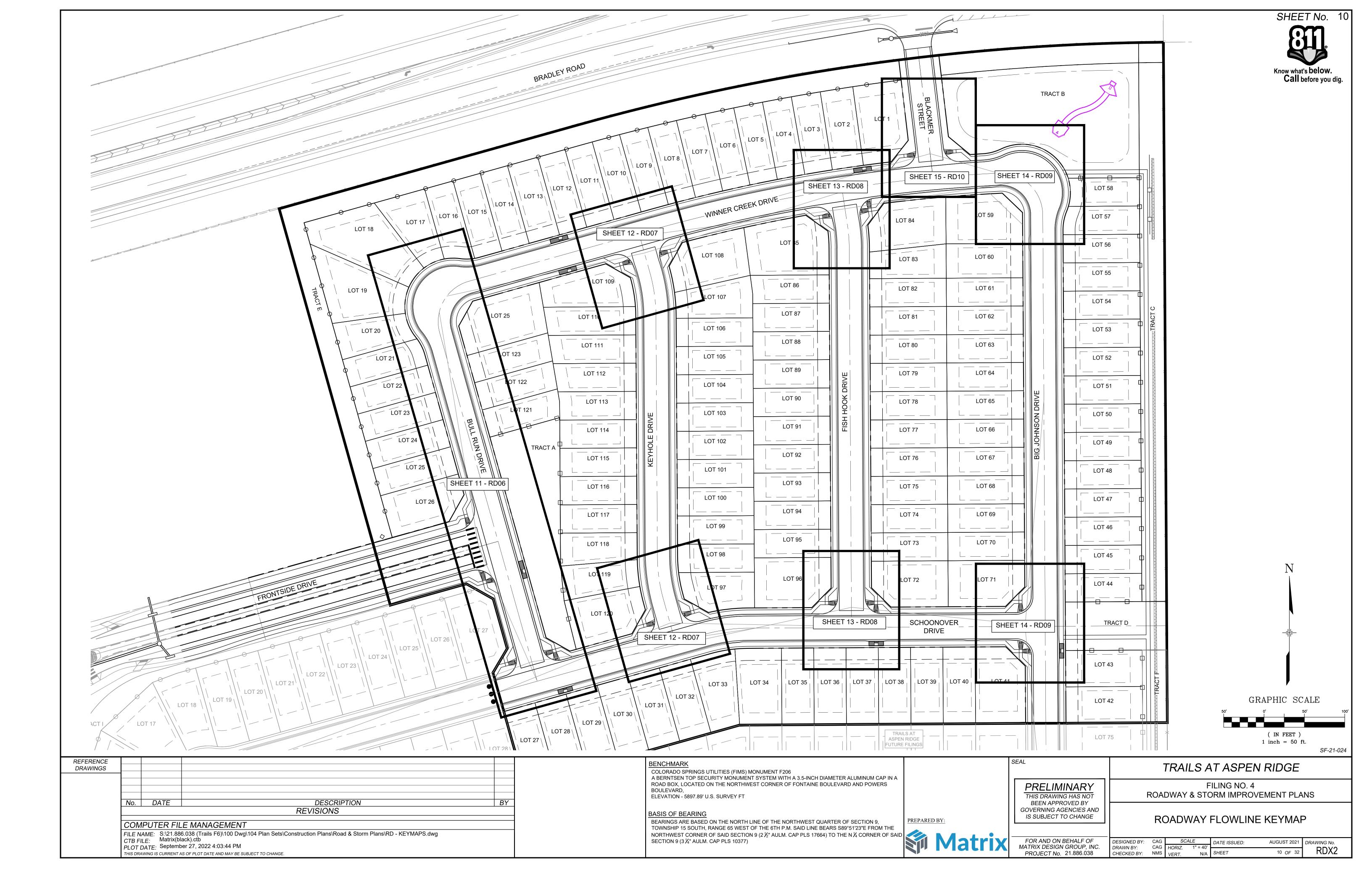
SF-21-024

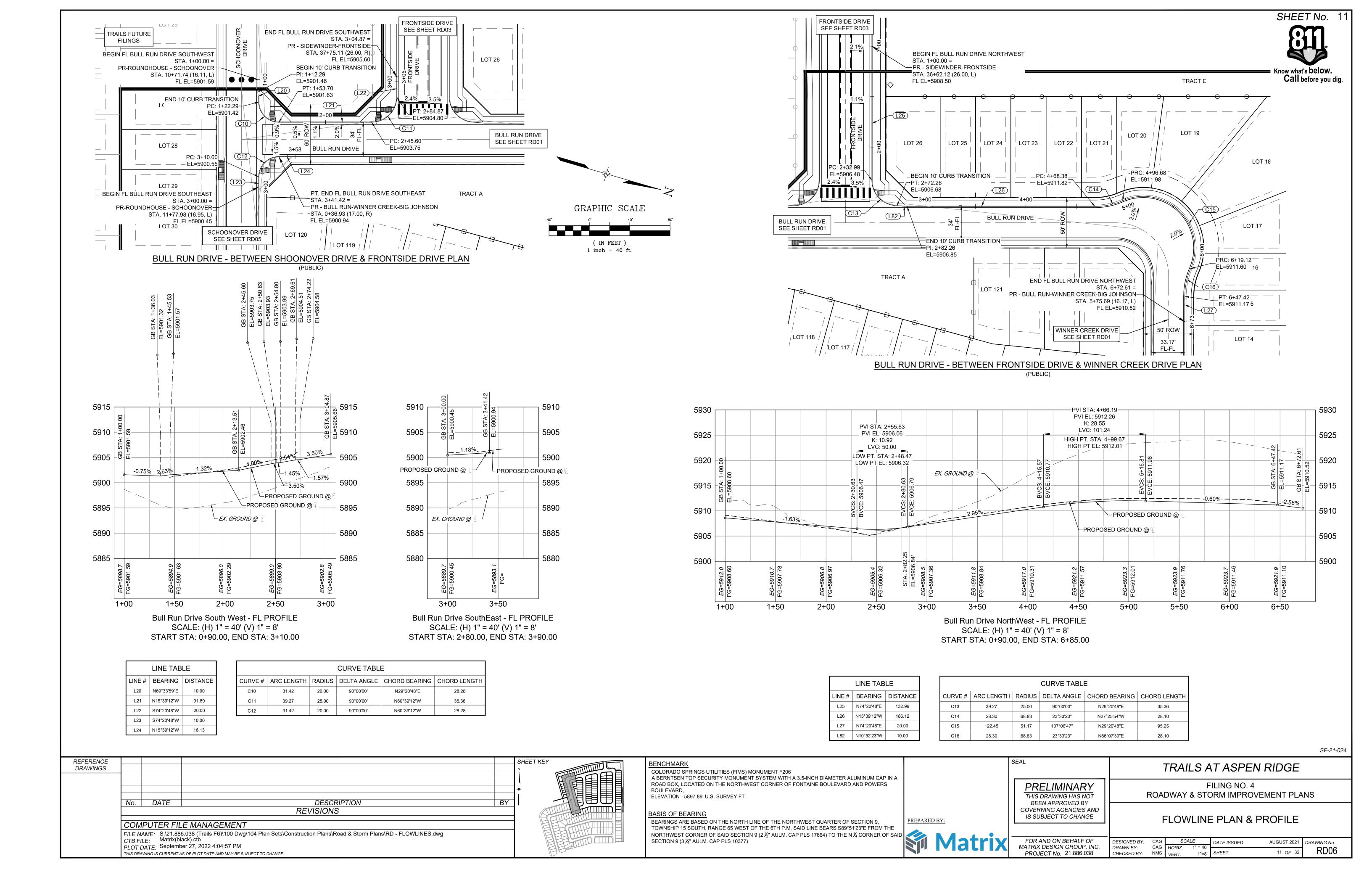
RD05

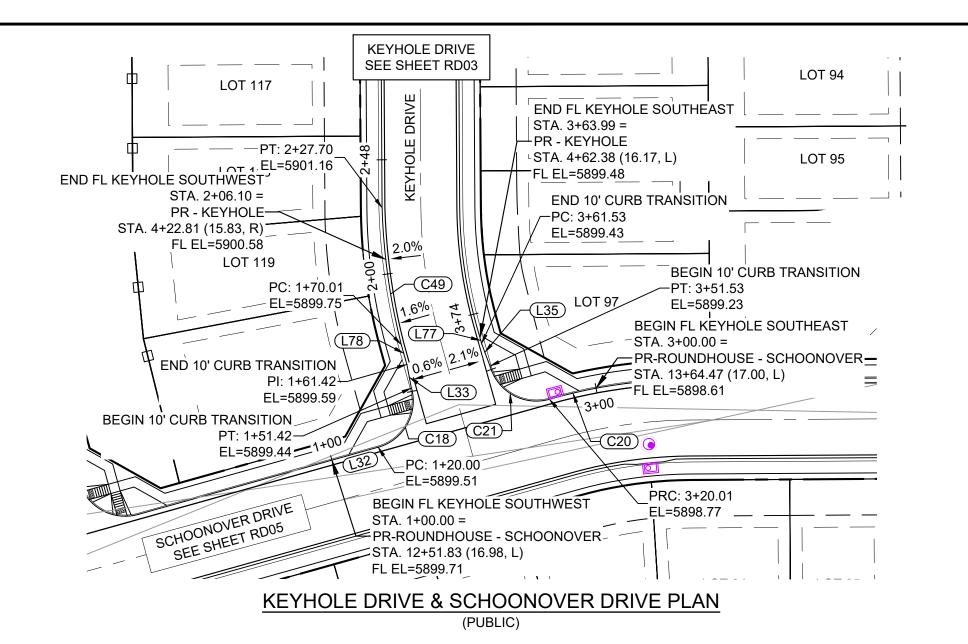
**ROADWAY PLAN & PROFILE** 

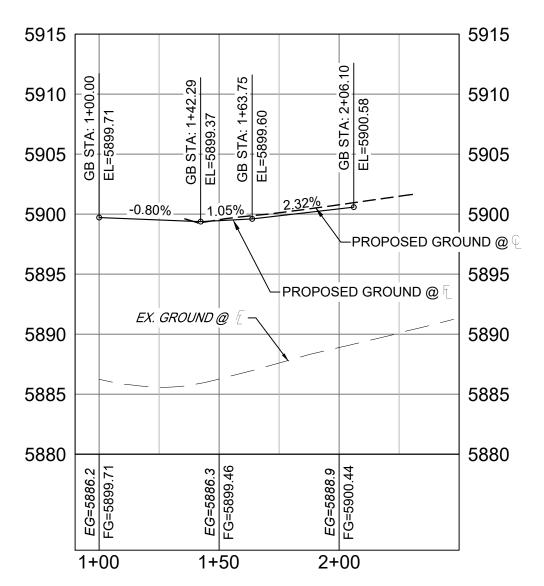
SCALE DATE ISSUED: FOR AND ON BEHALF OF AUGUST 2021 DRAWING No. DESIGNED BY: CAG MATRIX DESIGN GROUP, INC. DRAWN BY: CAG HORIZ. 9 OF 32 PROJECT No. 21.886.038 NMS VERT. CHECKED BY:

REFERENCE DRAWINGS					SHEET KEY	
					-	
					<b>1</b> <del> </del>	
	No.	DATE	DESCRIPTION	BY	<b>j J</b>	
			REVISIONS			F
	COM	IPUTER FIL	E MANAGEMENT			
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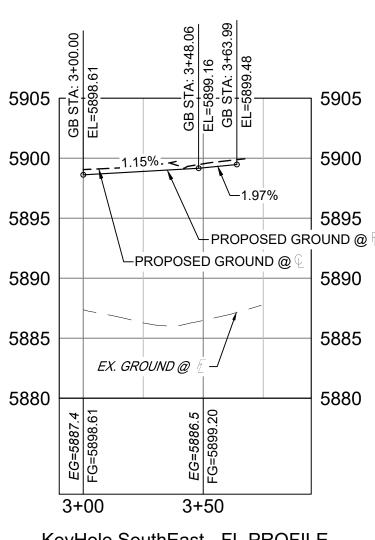








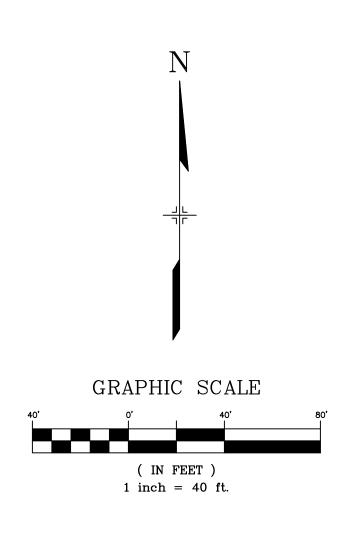
KeyHole SouthWest - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 0+90.00, END STA: 2+50.00

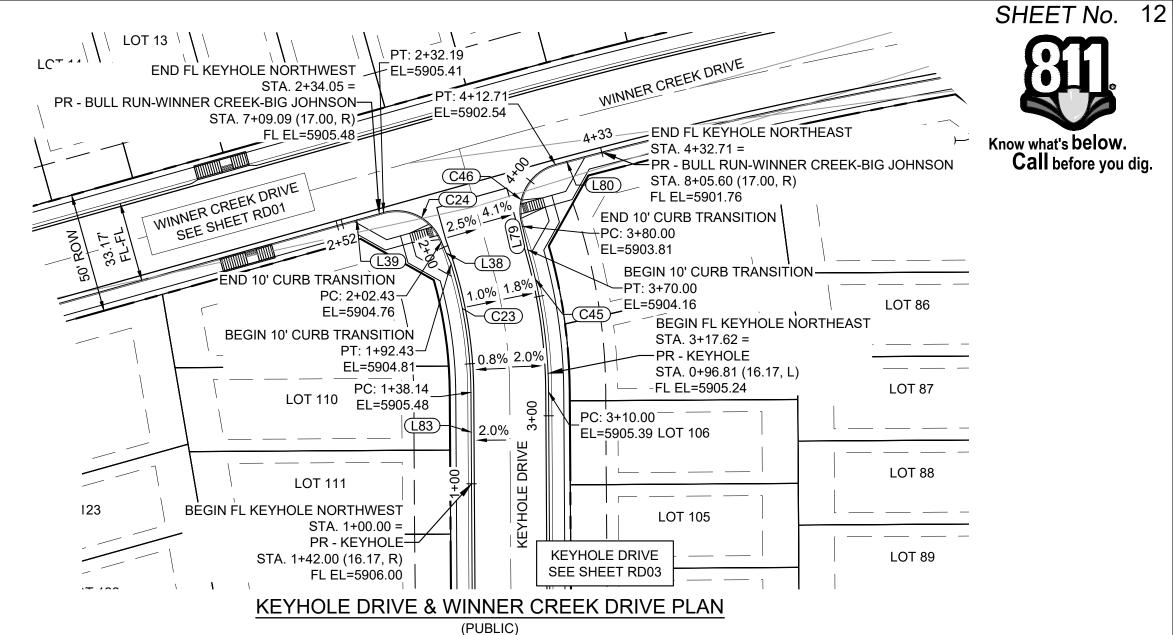


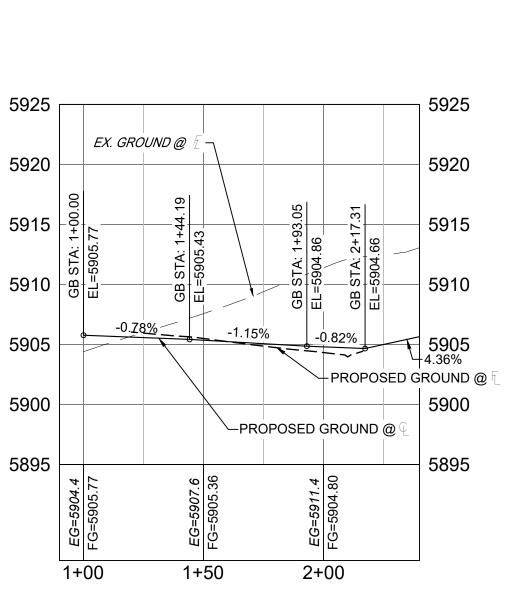
KeyHole SouthEast - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 2+90.00, END STA: 3+95.00

LINE TABLE						
LINE#	BEARING	DISTANCE				
L32	N74°20'48"E	20.00				
L33	N10°52'23"W	10.00				
L35	N20°26'01"W	10.00				
L77	N15°41'14"W	2.46				
L78	N15°39'12"W	8.59				

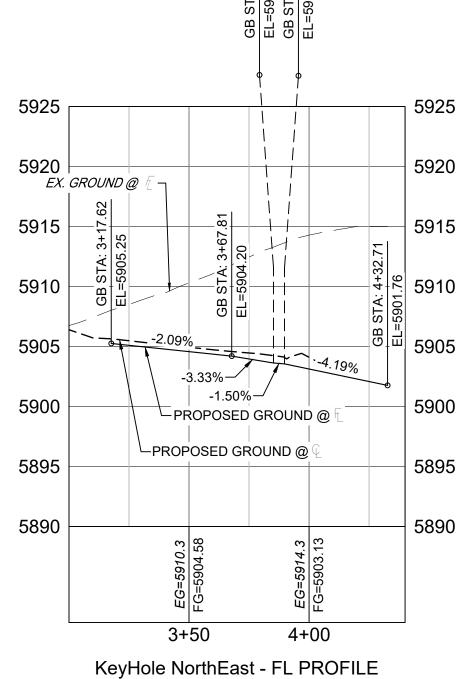
CURVE TABLE							
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH		
C18	31.42	20.00	90°00'00"	N29°20'48"E	28.28		
C20	20.01	217.01	5°16'56"	S76°41'41"W	20.00		
C21	31.52	20.00	90°17'35"	N60°48'00"W	28.36		
C49	36.10	264.79	7°48'37"	N10°20'12"W	36.07		







KeyHole NorthWest - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 0+90.00, END STA: 2+40.00



SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 3+00.00, END STA: 4+40.00

LINE#	BEARING	DISTANCE				
L38	S23°36'06"E	10.00				
L39	N74°20'48"E	20.00				
L79	N12°47'25"W	10.00				
L80	N75°06'15"E	20.00				
L83	S00°20'48"E	38.14				
CLIBVE TABLE						

LINE TABLE

CURVE TABLE								
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH			
C23	54.29	183.83	16°55'12"	S08°48'24"E	54.09			
C24	29.77	20.00	85°16'25"	S63°01'00"E	27.09			
C45	52.38	216.17	13°53'03"	N09°18'32"W	52.25			
C46	32.70	20.00	93°41'29"	N27°57'29"E	29.18			

SF-21-024

	REFERENCE					SHEET KEY
ŀ	DRAWINGS					Î
		No.	DATE	DESCRIPTION	BY	
				REVISIONS		
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		THIS DRA	AWING IS CURRENT A	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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY:

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

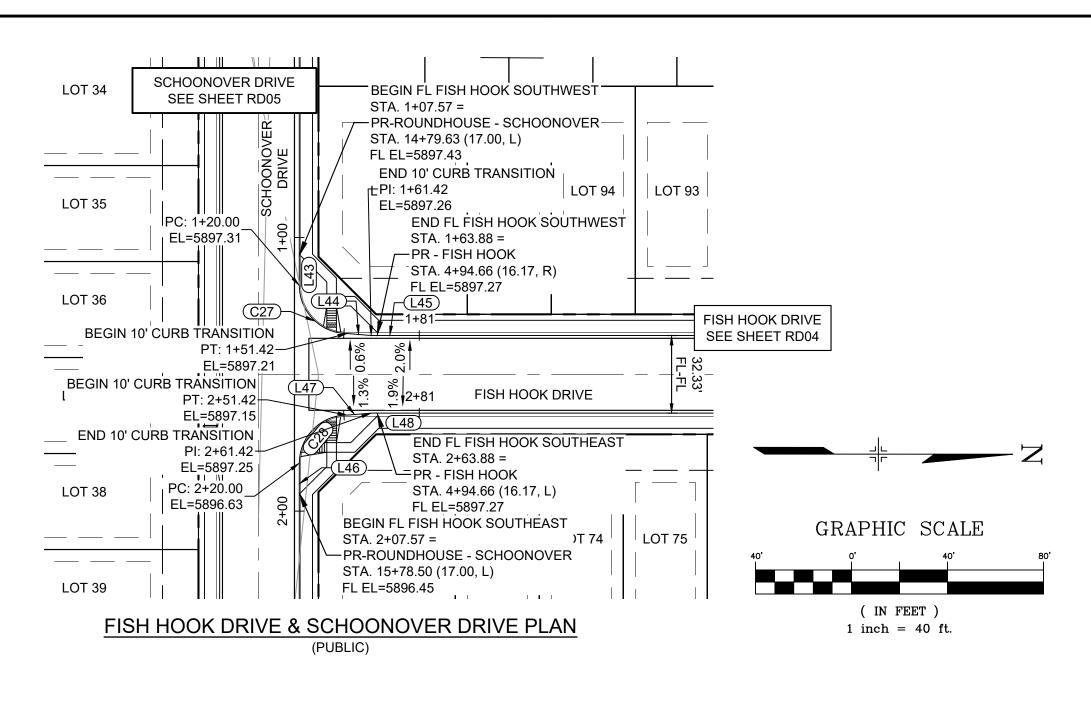
SEAL

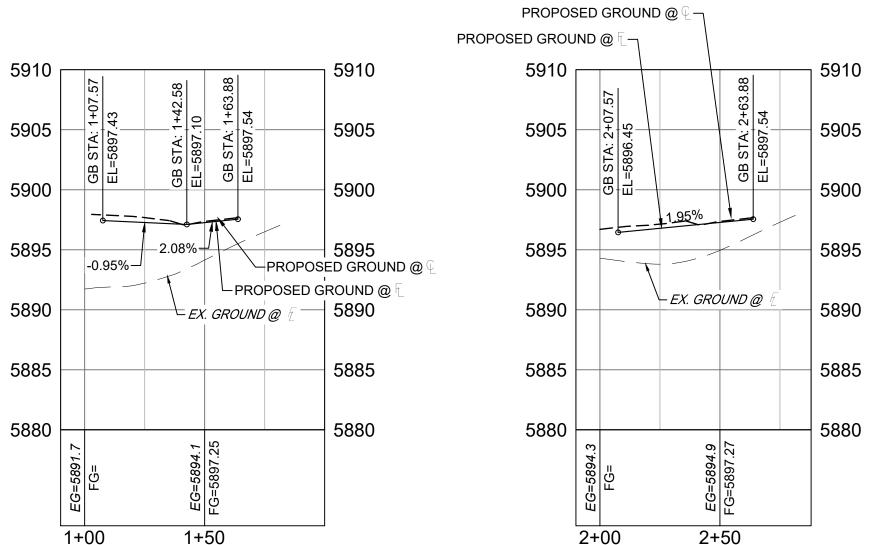
TRAILS AT ASPEN RIDGE

FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

FLOWLINE PLAN & PROFILE

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





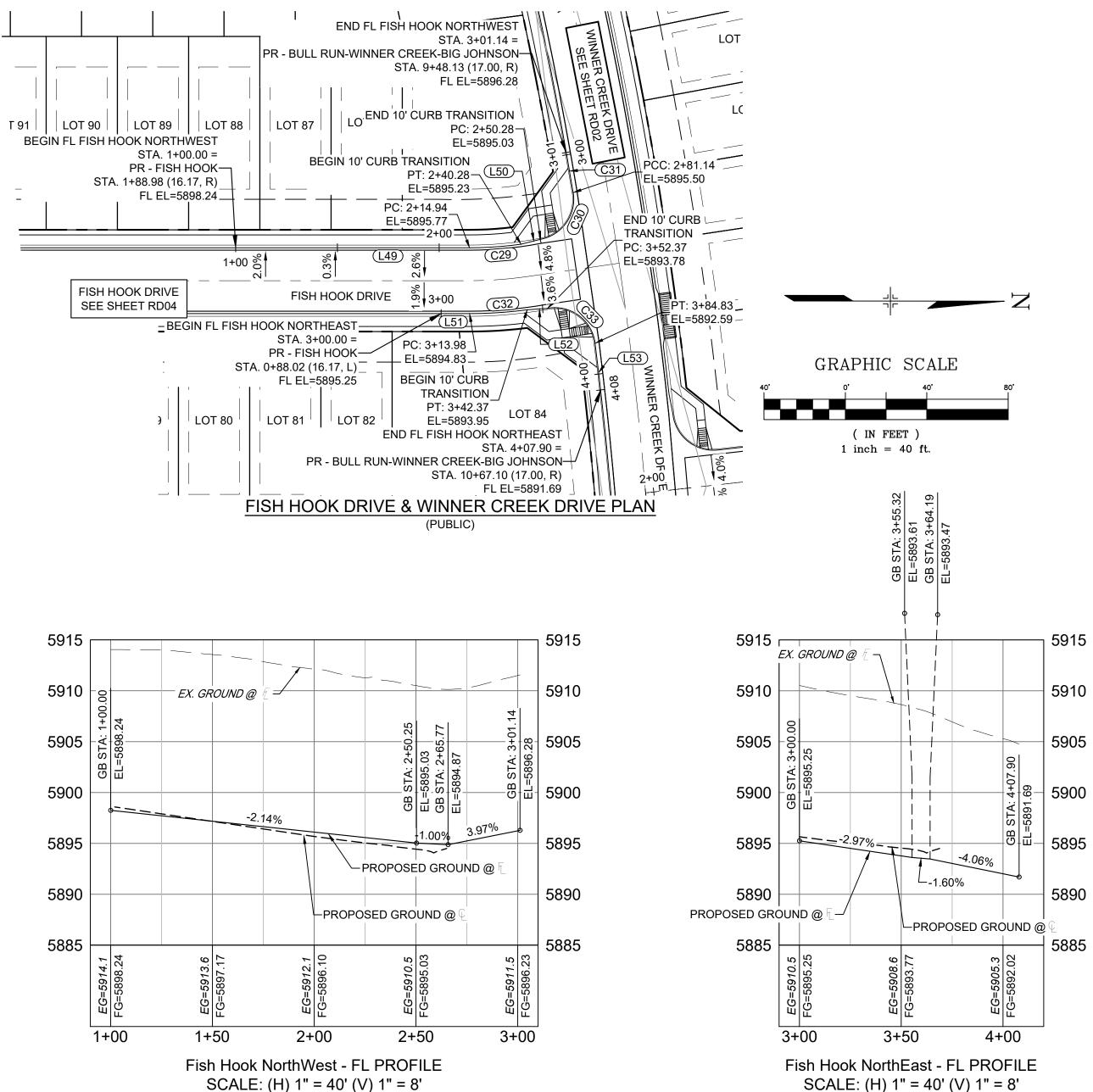
LINE TABLE						
LINE#	BEARING	DISTANCE				
L43	N89°39'12"E	20.00				
L44	N04°26'01"E	10.00				
L45	N00°20'48"W	20.00				
L46	N89°39'12"E	20.00				
L47	S05°07'36"E	10.00				
L48	S00°20'48"E	20.00				

Fish Hook SouthWest - FL PROFILE

SCALE: (H) 1" = 40' (V) 1" = 8'

START STA: 0+90.00, END STA: 2+00.00

CURVE TABLE									
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH				
C27	31.42	20.00	90°00'00"	N44°39'12"E	28.28				
C28	31.42	20.00	90°00'00"	S45°20'48"E	28.28				



SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 2+90.00, END STA: 4+20.00

LINE TABLE						
LINE#	BEARING	DISTANCE				
L49	S00°20'48"E	114.94				
L50	S14°34'57"E	10.00				
L51	N00°20'48"W	13.98				
L52	N04°24'37"W	10.00				
L53	N82°50'29"E	23.07				

CURVE TABLE						
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH	
C29	25.35	183.83	7°54'02"	S04°17'49"E	25.33	
C30	30.85	20.00	88°23'32"	S55°33'24"E	27.88	
C31	20.00	1908.00	0°36'02"	N79°56'49"E	20.00	
C32	28.39	216.17	7°31'27"	N04°06'31"W	28.37	
C33	32.46	20.00	93°00'08"	N35°59'38"E	29.02	

SEAL

SF-21-024

SHEET No. 13

Know what's below.

Call before you dig.

REFERENCE DRAWINGS					SHEET KEY
	No.	DATE	DESCRIPTION	BY	
			REVISIONS		
			E MANAGEMENT		
	CTB FL	ا اجر Matrix(bl	6.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD - FLOWLINES.dwg ack).ctb per 27, 2022 4:05:52 PM		
	THIS DRA	AWING IS CURRENT A	IS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.		

Fish Hook SouthEast - FL PROFILE

SCALE: (H) 1" = 40' (V) 1" = 8'

START STA: 1+90.00, END STA: 2+88.00

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,

START STA: 0+90.00, END STA: 3+10.00

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 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 1/4" AULM. CAP PLS 10377)

PREPARED BY:

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

TRAILS AT ASPEN RIDGE

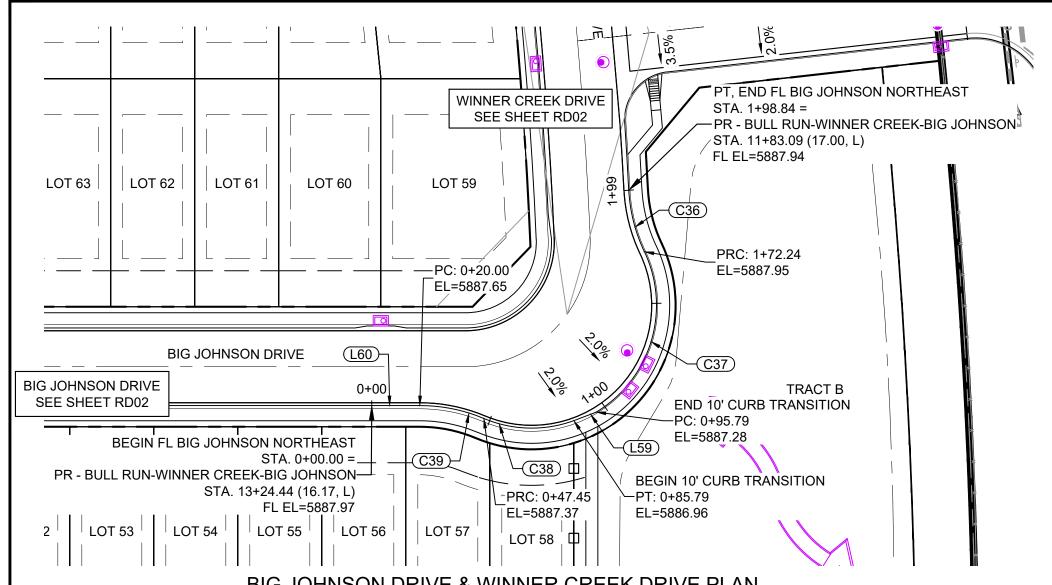
FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

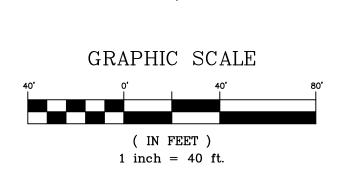
FLOWLINE PLAN & PROFILE

DESIGNED BY: CAG

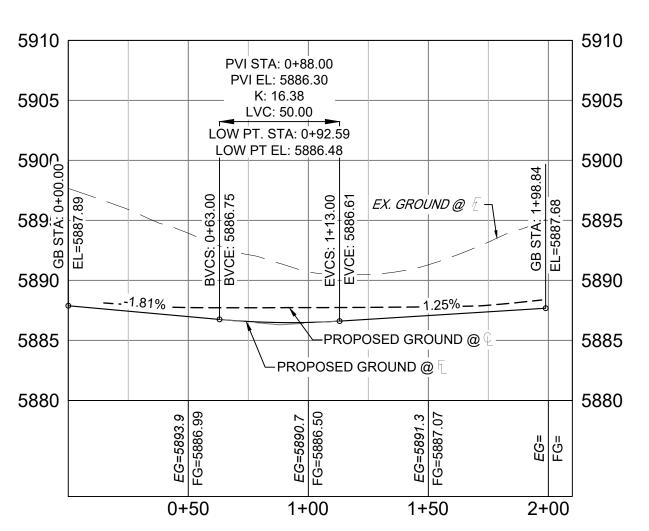
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 21.886.038

CAG SCALE DATE ISSUED:
CAG HORIZ. 1" = 40'
NMS VERT. 1"=8' SHEET AUGUST 2021 DRAWING No. DRAWN BY: RD08 13 OF 32 CHECKED BY:





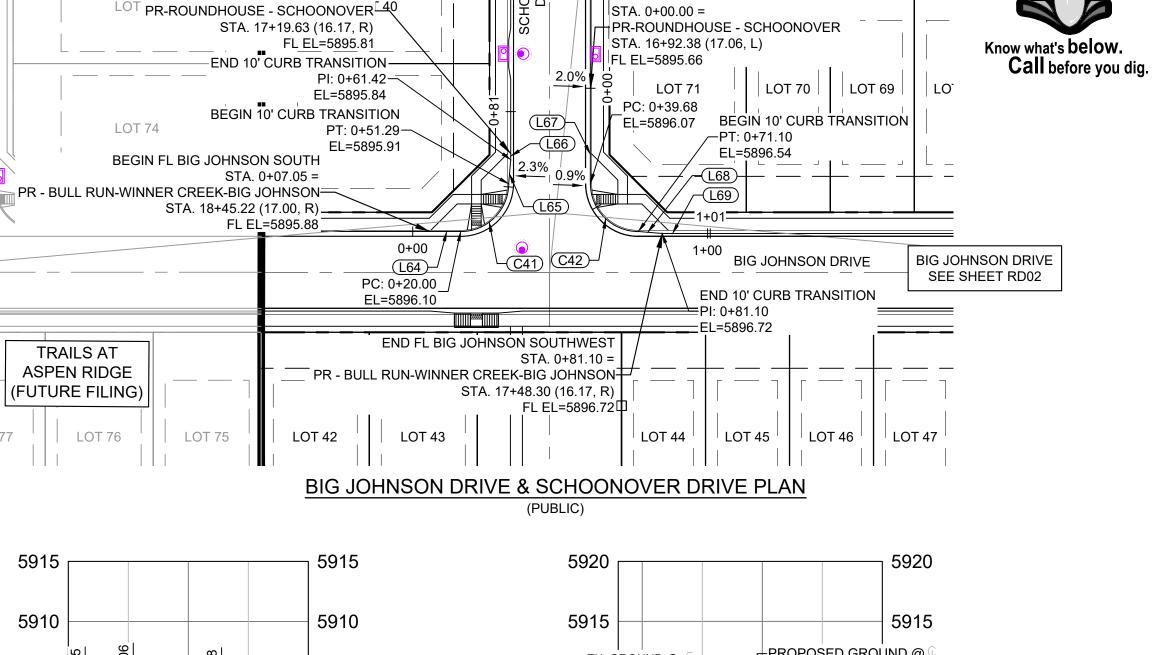




Big Johnson NorthEast - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 0+00.00, END STA: 2+10.00

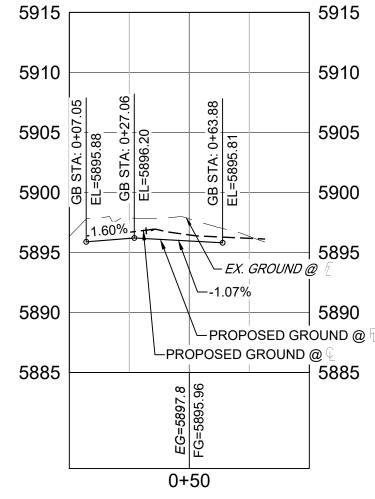
LINE TABLE							
LINE#	BEARING	DISTANCE					
L59	N21°14'07"W	10.00					
L60	N00°20'48"W	20.00					

CURVE TABLE							
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH		
C36	26.60	68.00	22°24'35"	S75°26'07"W	26.43		
C37	76.45	52.00	84°14'00"	N73°39'10"W	69.75		
C38	38.35	51.30	42°49'48"	N01°01'27"E	37.46		
C39	27.45	68.83	22°50'42"	N11°04'33"E	27.26		



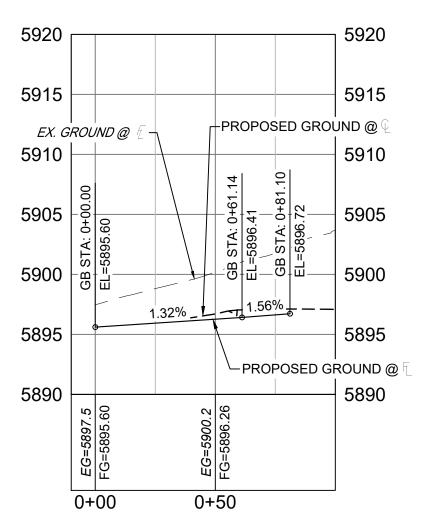
SCHOONOVER DRIVE SEE SHEET RD05

BEGIN FL BIG JOHNSON SOUTHWEST



END FL BIG JOHNSON SOUTH

STA. 0+63.88 =



Big Johnson South - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 0+00.00, END STA: 1+00.00

Big Johnson SouthWest - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: -0+10.00, END STA: 1+00.00

LINE TABLE					
LINE#	BEARING	DISTANCE			
L64	S00°20'48"E	12.95			
L65	S85°37'17"E	10.12			
L66	N89°39'12"E	2.47			
L67	N89°39'12"E	20.00			
L68	N04°26'01"E	10.00			
L69	N00°20'48"W	20.00			

	E				
CURVE#	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C41	31.29	20.00	89°39'12"	S45°10'24"E	28.20
C42	31.42	20.00	90°00'00"	N44°39'12"E	28.28

SF-21-024

SHEET No. 14

REFERENCE DRAWINGS					SHEET KEY
	No.	DATE	DESCRIPTION REVISIONS	BY	
	FILE N. CTB FI PLOT I	AME: S:\21.886 ILE: Matrix(bla DATE: Septemb	E MANAGEMENT 6.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD - FLOWLINES.dwg ack).ctb er 27, 2022 4:06:22 PM s 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

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:

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

PROJECT No. 21.886.038

SEAL

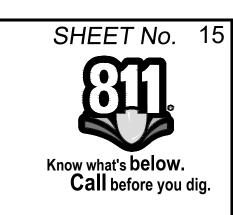
FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

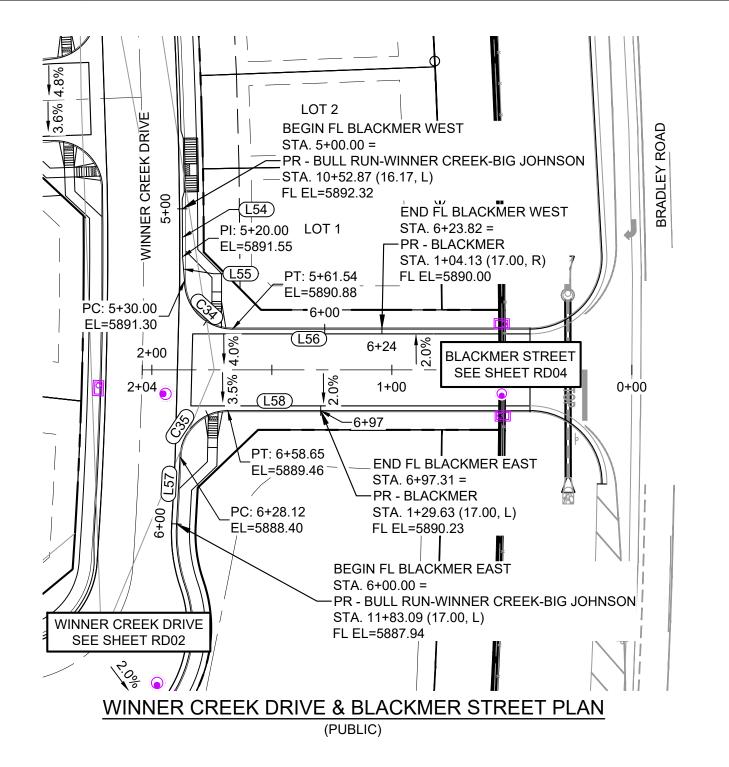
TRAILS AT ASPEN RIDGE

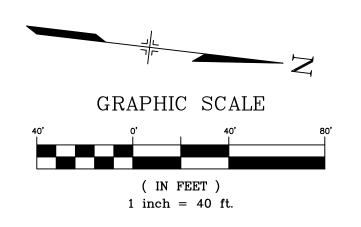
FLOWLINE PLAN & PROFILE

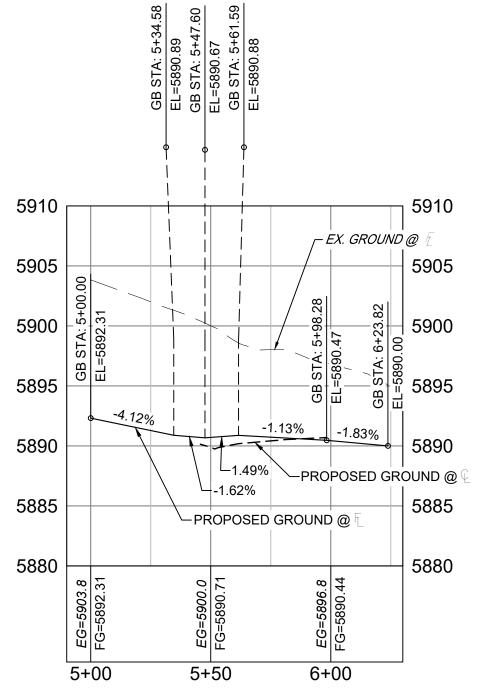
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC.

DESIGNED BY: CAG SCALE DATE ISSUED:
DRAWN BY: CAG HORIZ. 1" = 40'
CHECKED BY: NMS VERT. 1"=8' SHEET AUGUST 2021 DRAWING No. RD09 14 OF 32

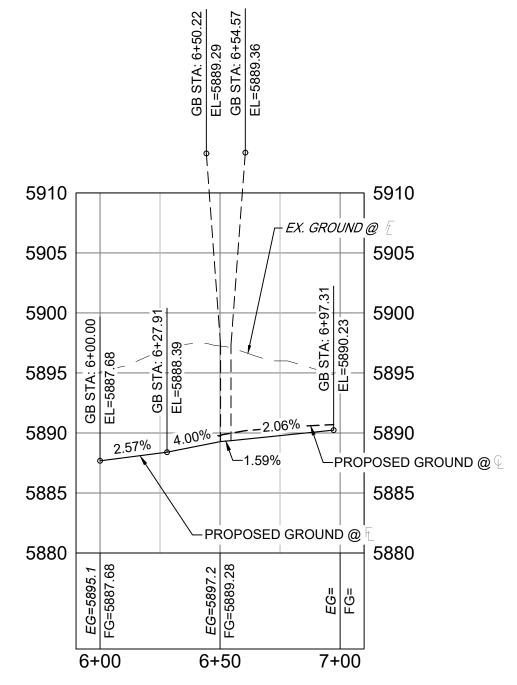








Blackmer West - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 4+90.00, END STA: 6+30.00



Blackmer East - FL PROFILE SCALE: (H) 1" = 40' (V) 1" = 8' START STA: 5+90.00, END STA: 7+10.00

LINE TABLE					
LINE#	BEARING	DISTANCE			
L54	N83°03'34"E	20.00			
L55	N78°43'17"E	10.00			
L56	N06°43'16"W	62.28			
L57	S86°13'31"W	28.12			
L58	N06°43'16"W	38.66			

CURVE TABLE							
CURVE# ARC LENGTH RADIUS DELTA ANGLE CHORD BEARING CHORD LENGTH							
C34	31.54	20.00	90°22'11"	N38°27'50"E	28.38		
C35	30.53	20.00	87°28'07"	N50°27'19"W	27.65		

REFERENCE DRAWINGS					SHEET KEY
				5)/	
	No.	DATE	DESCRIPTION REVISIONS	BY	
	COM	IPUTER FIL	E MANAGEMENT		
	CTB FI	ا ہے۔ Matrix(bla	6.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\RD - FLOWLINES.dwg ack).ctb er 27, 2022 4:06:42 PM		
	THIS DRA	AWING IS CURRENT A	S 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, BEARINGS ARE BASED ON THE NORTH FINE CO.
TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS \$89°51'25'E FROWLINE
NORTHWEST CORNER OF SAID SECTION 9 (2½" AULM. CAP PLS 17664) TO THE N¼ CORNER OF SAID

PREPARED BY:

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

SEAL

FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

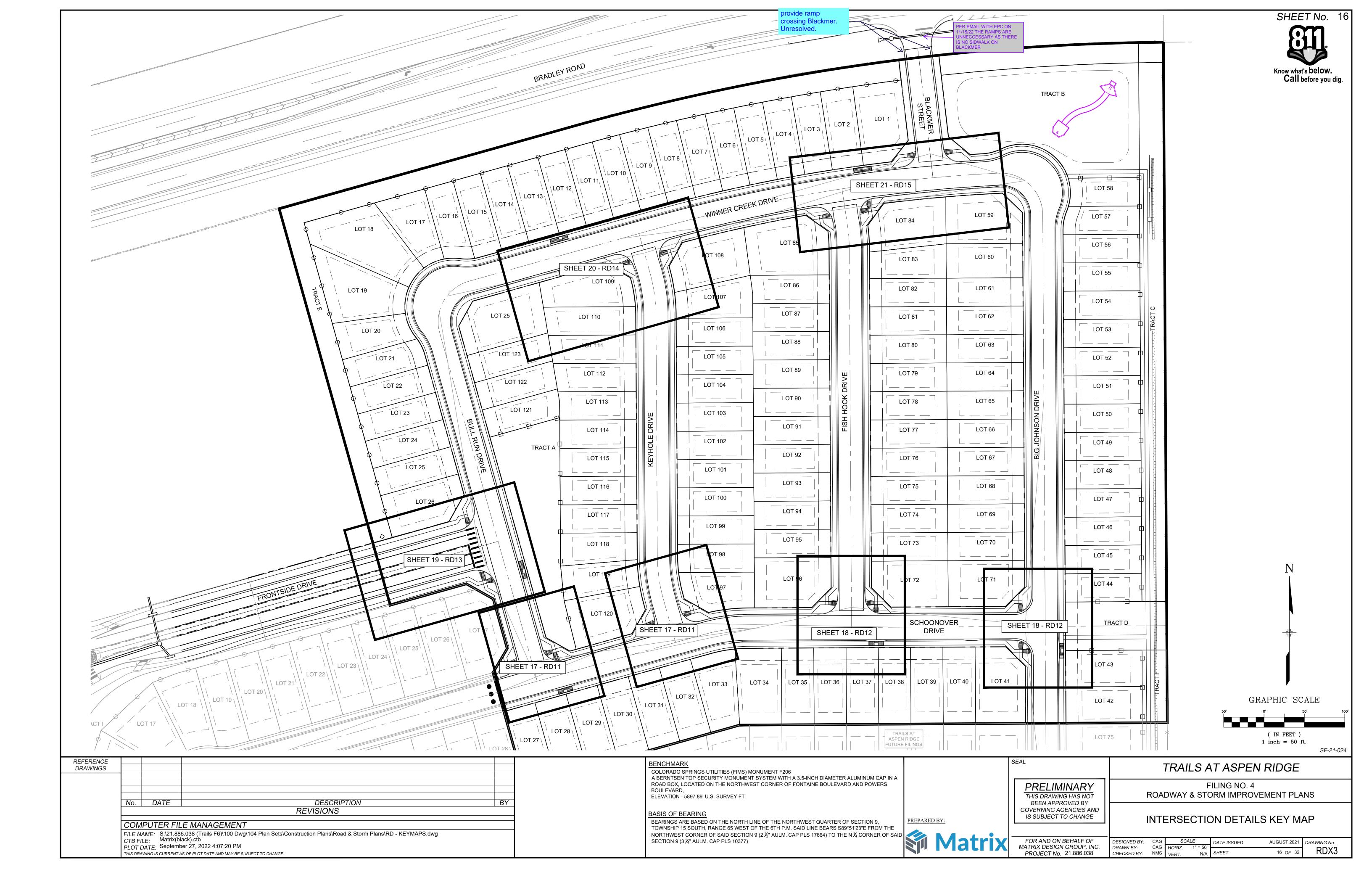
TRAILS AT ASPEN RIDGE

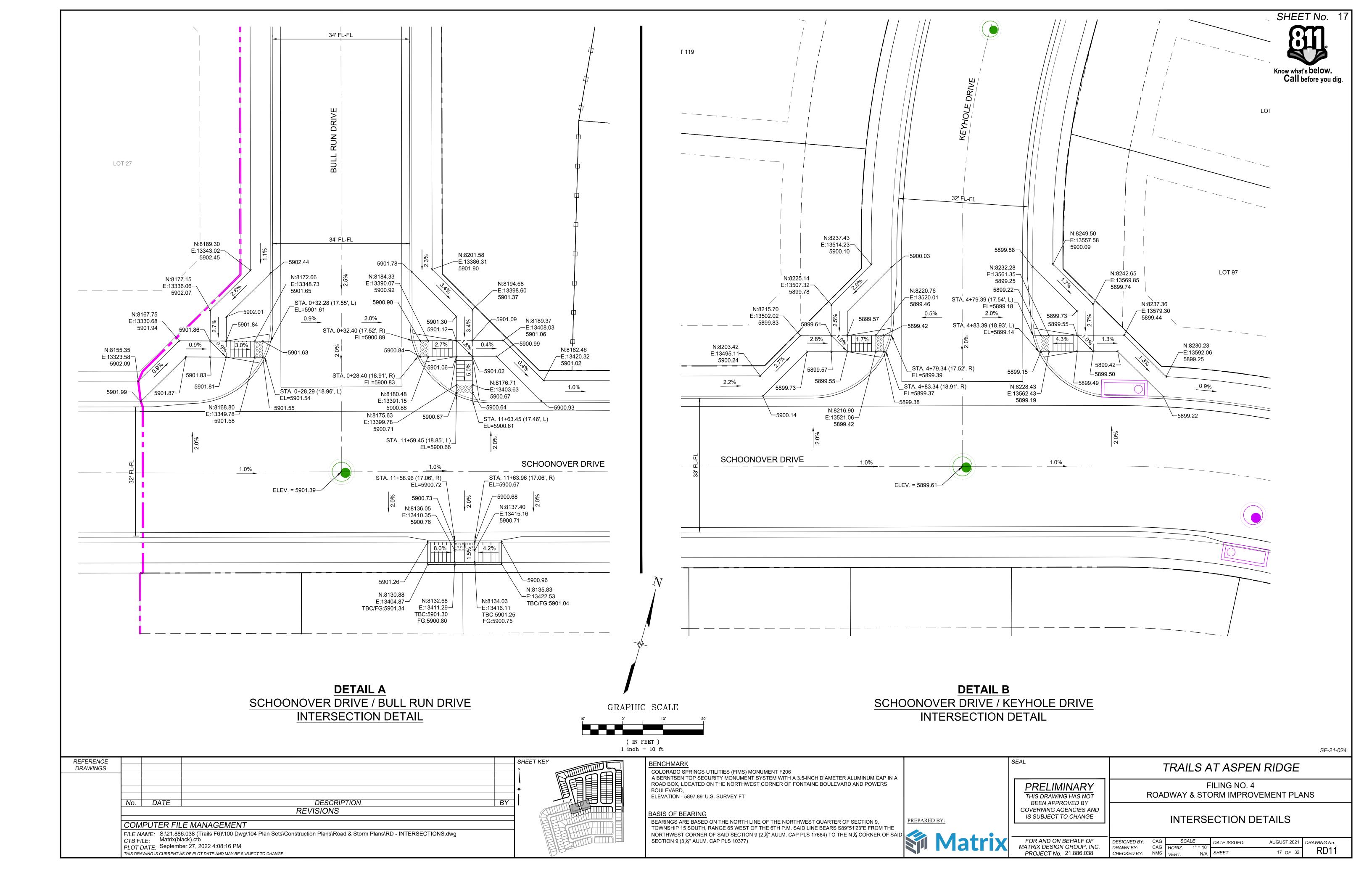
SF-21-024

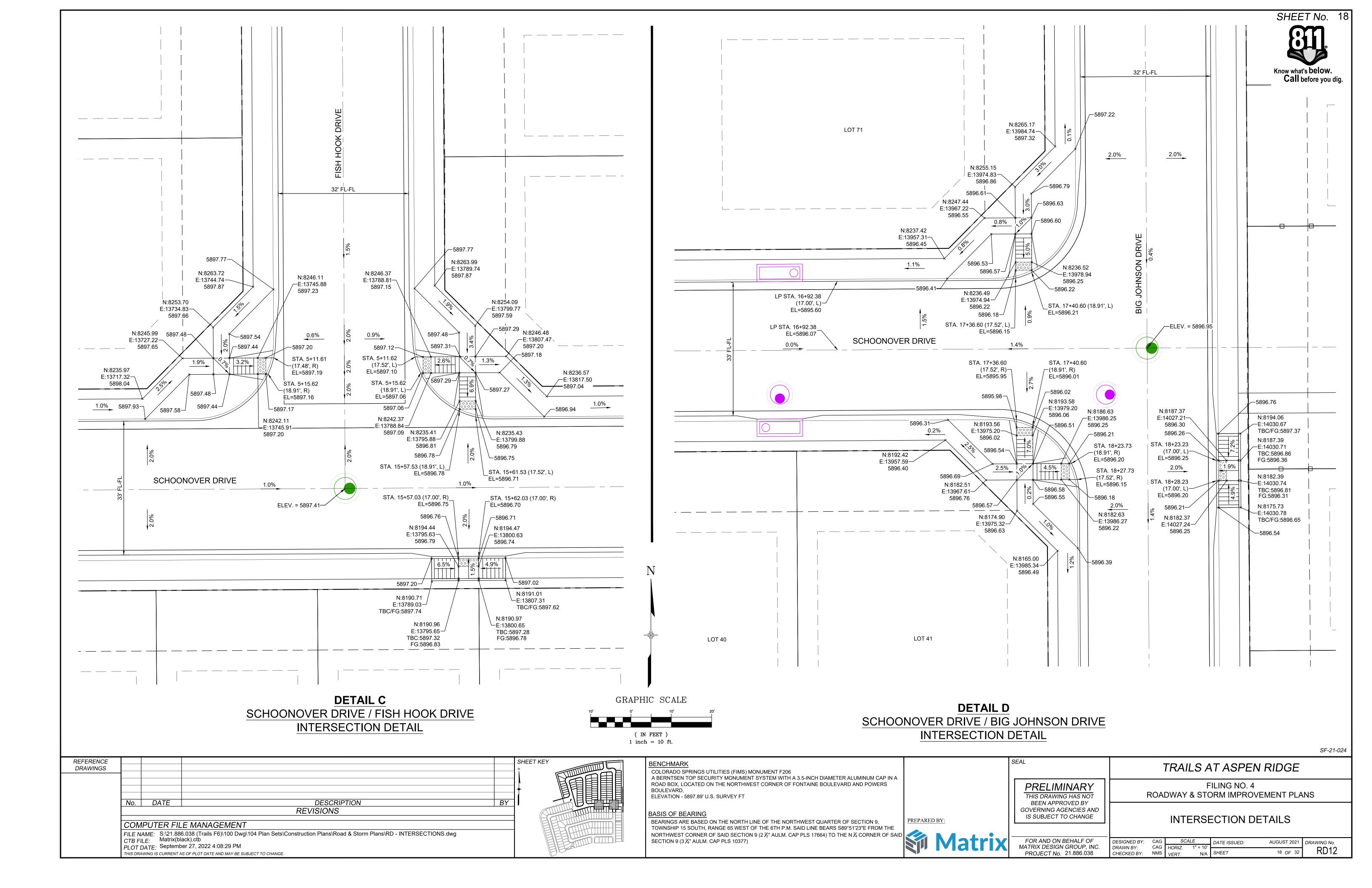
FLOWLINE PLAN AND PROFILE

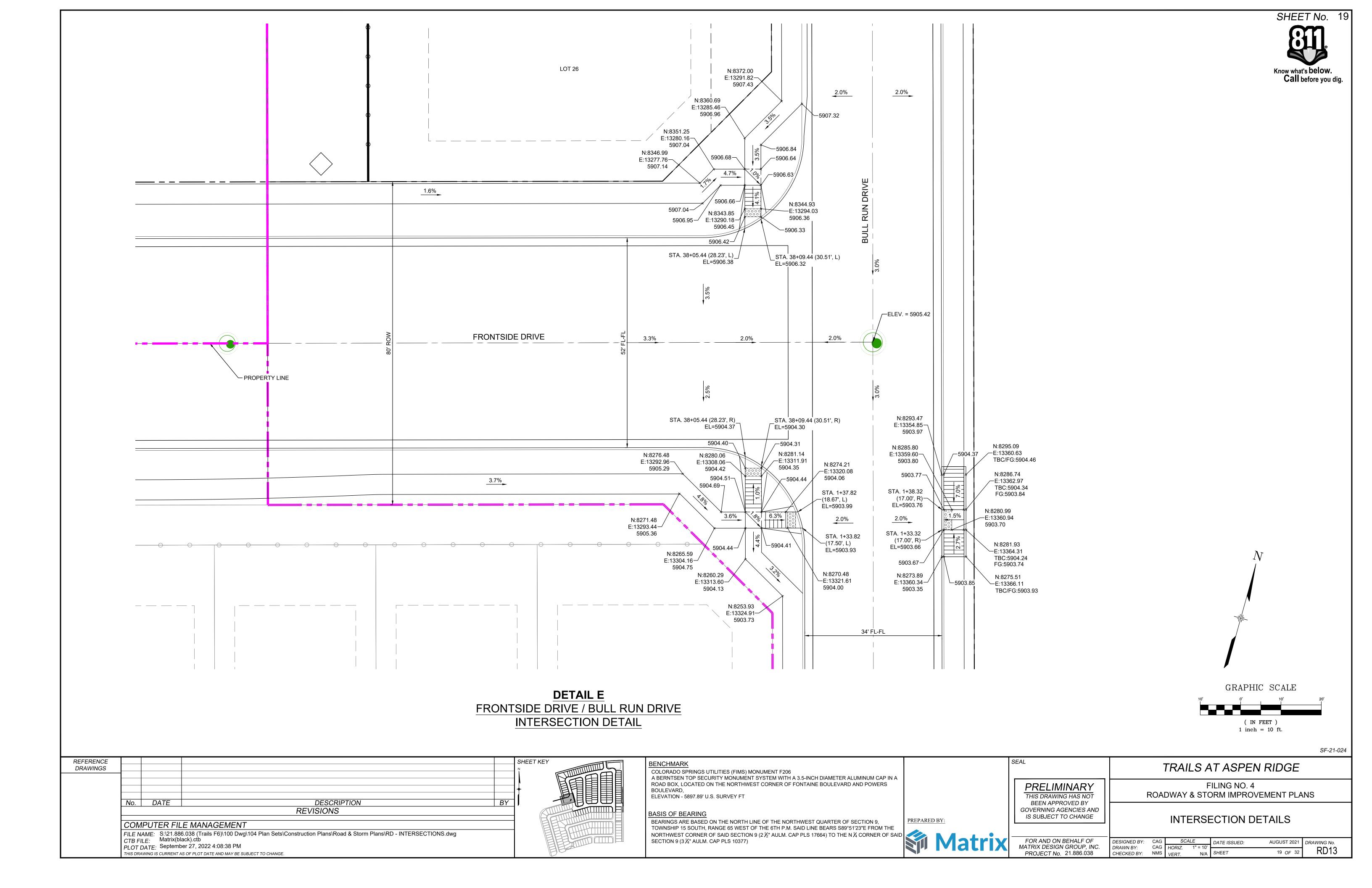
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 21.886.038

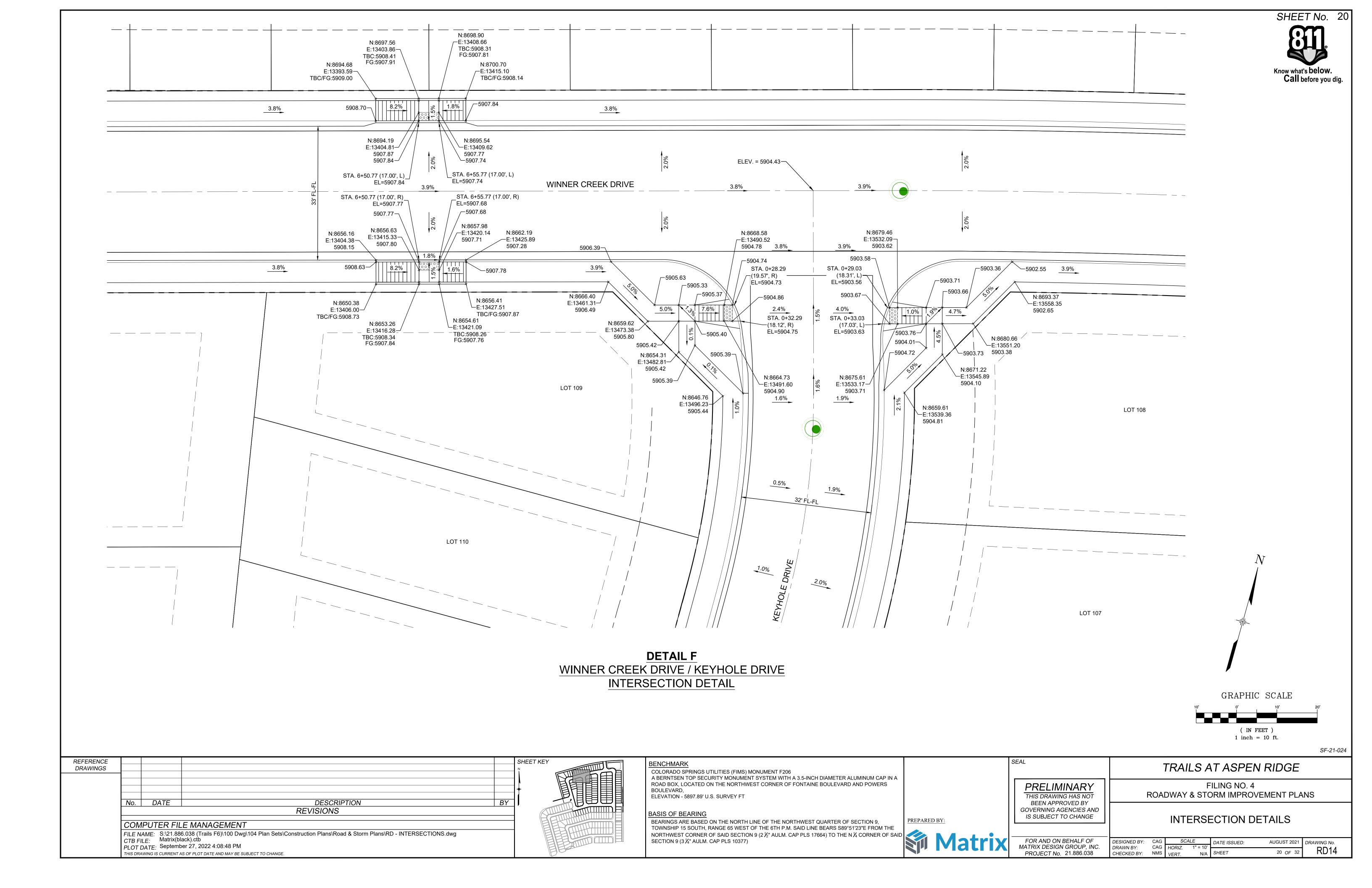
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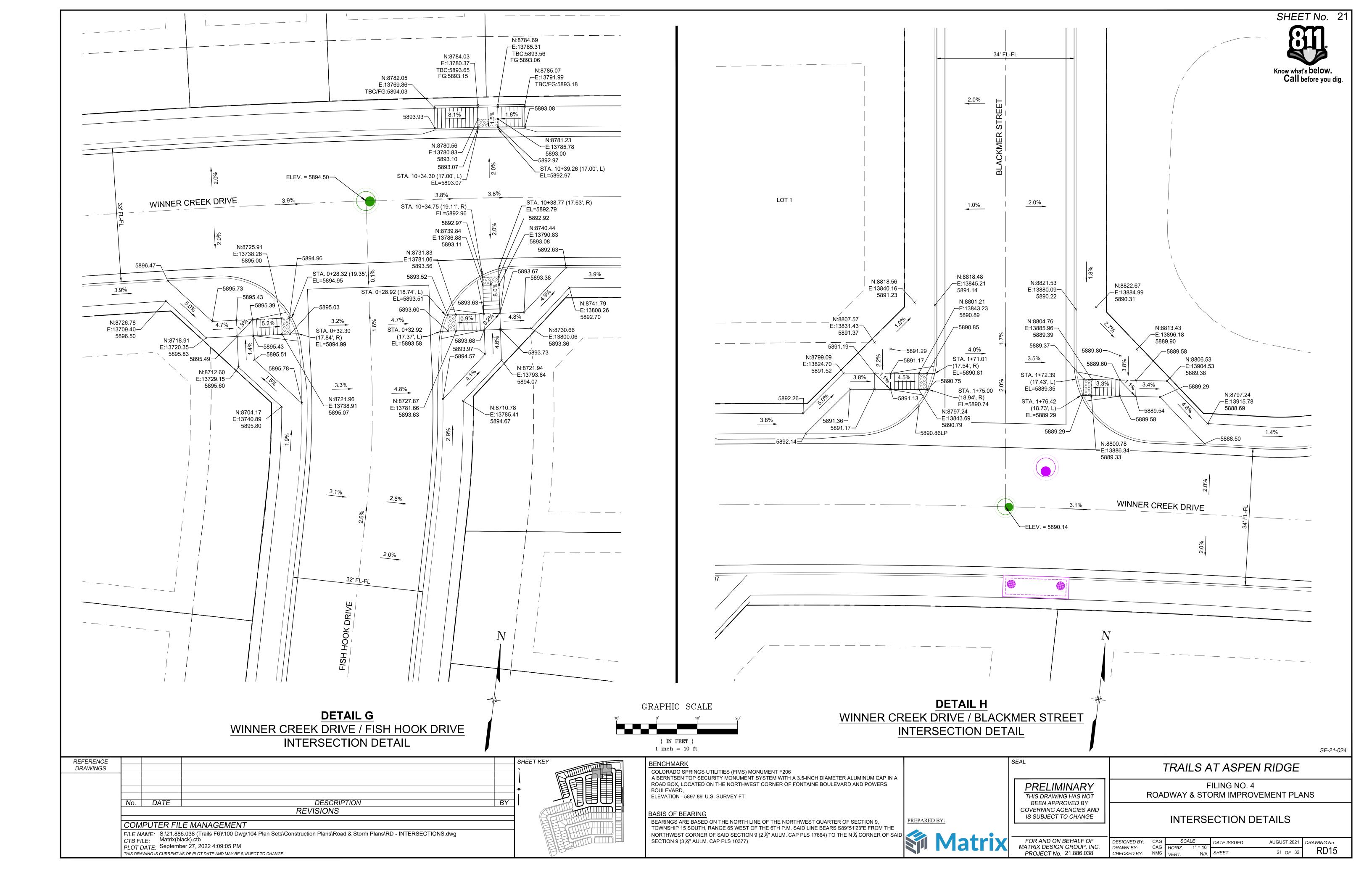


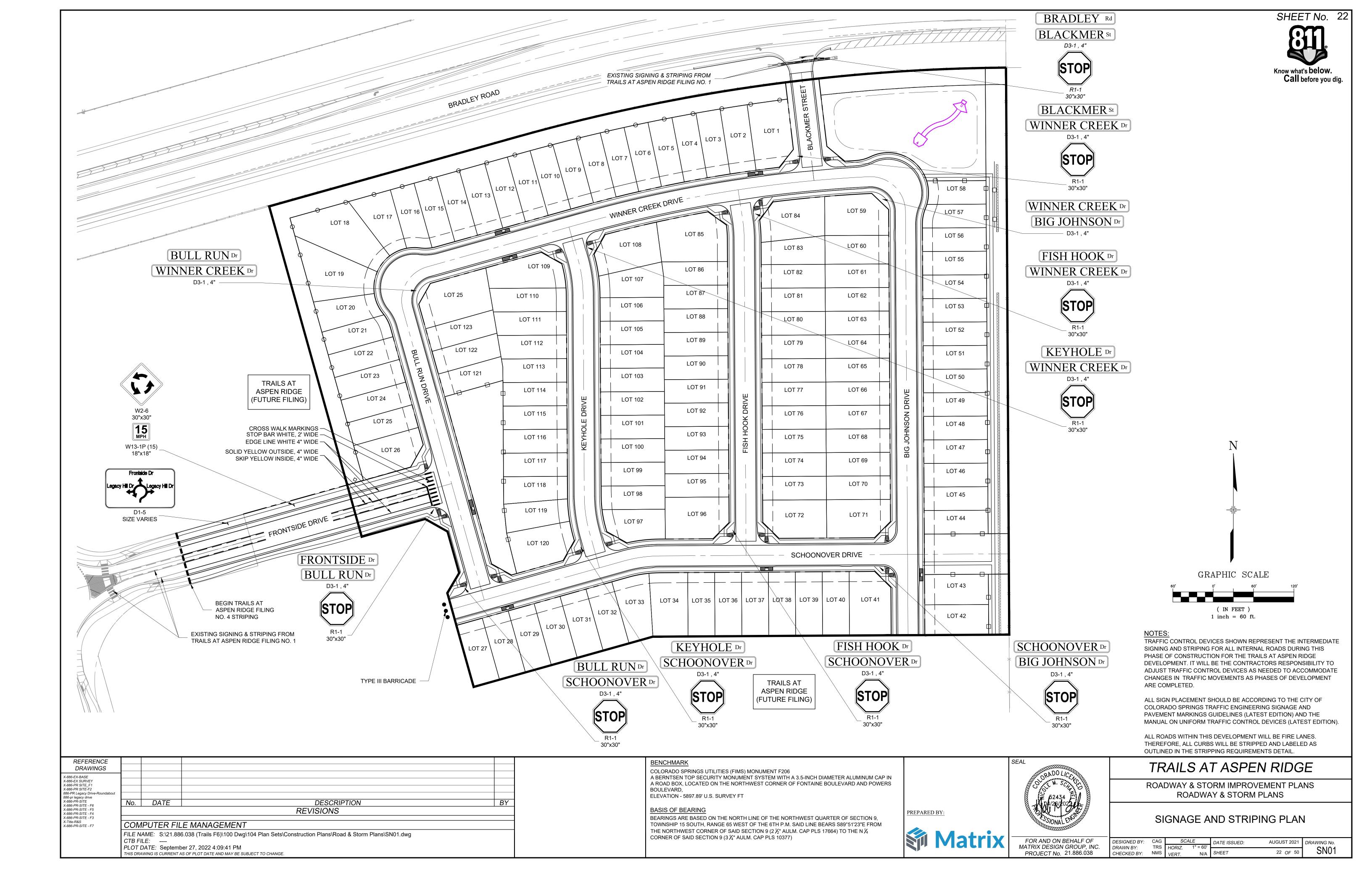


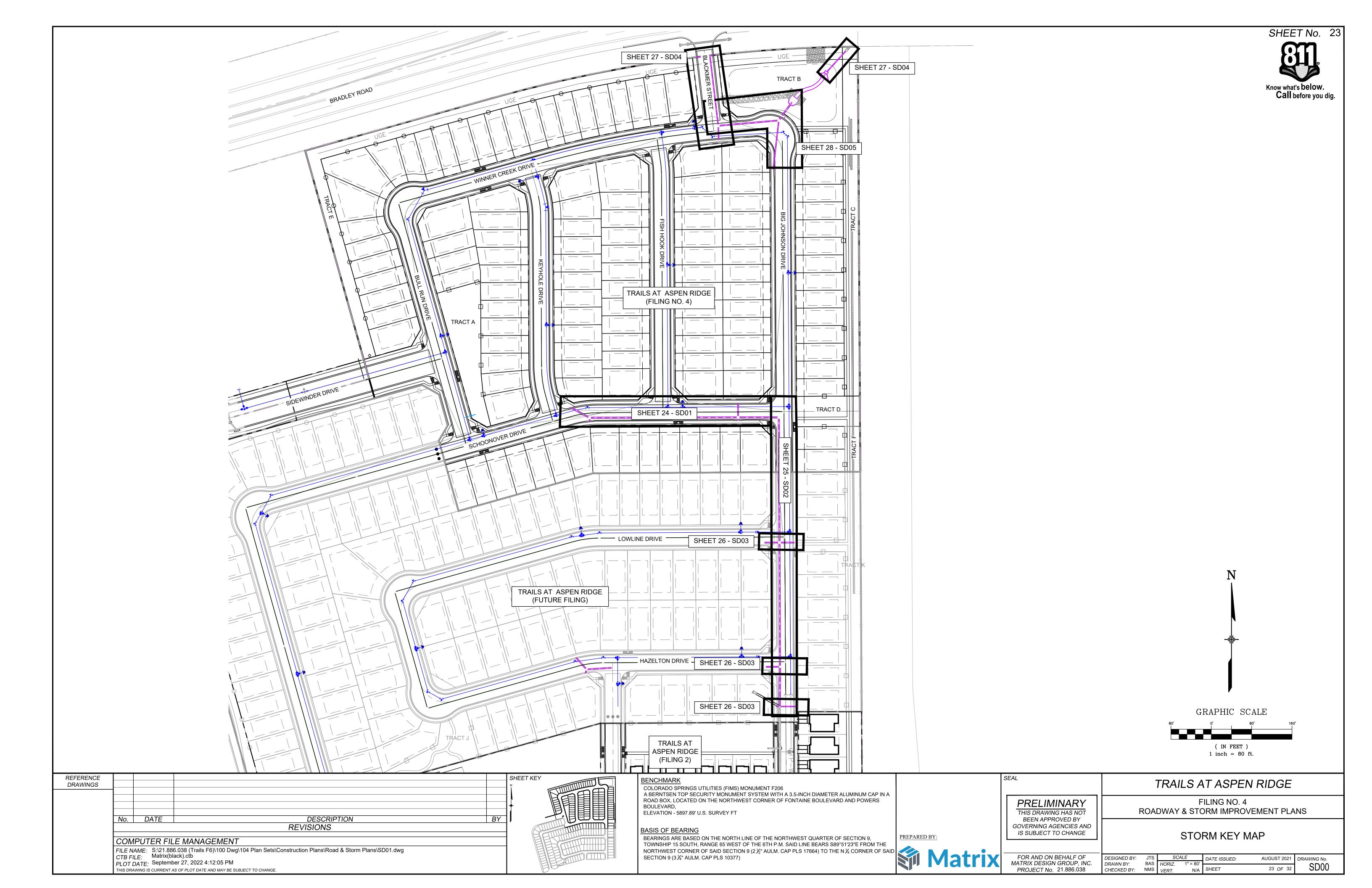


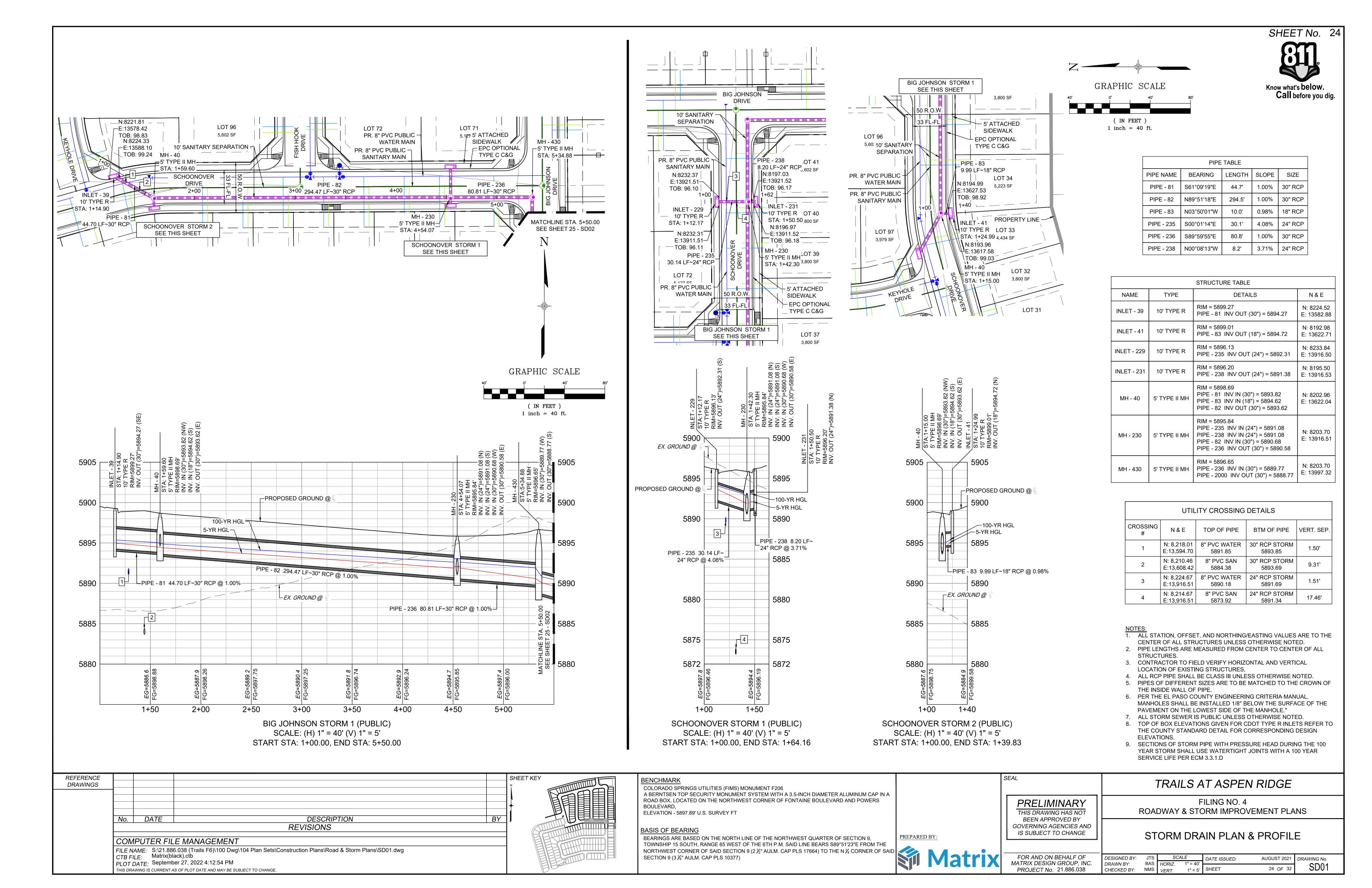


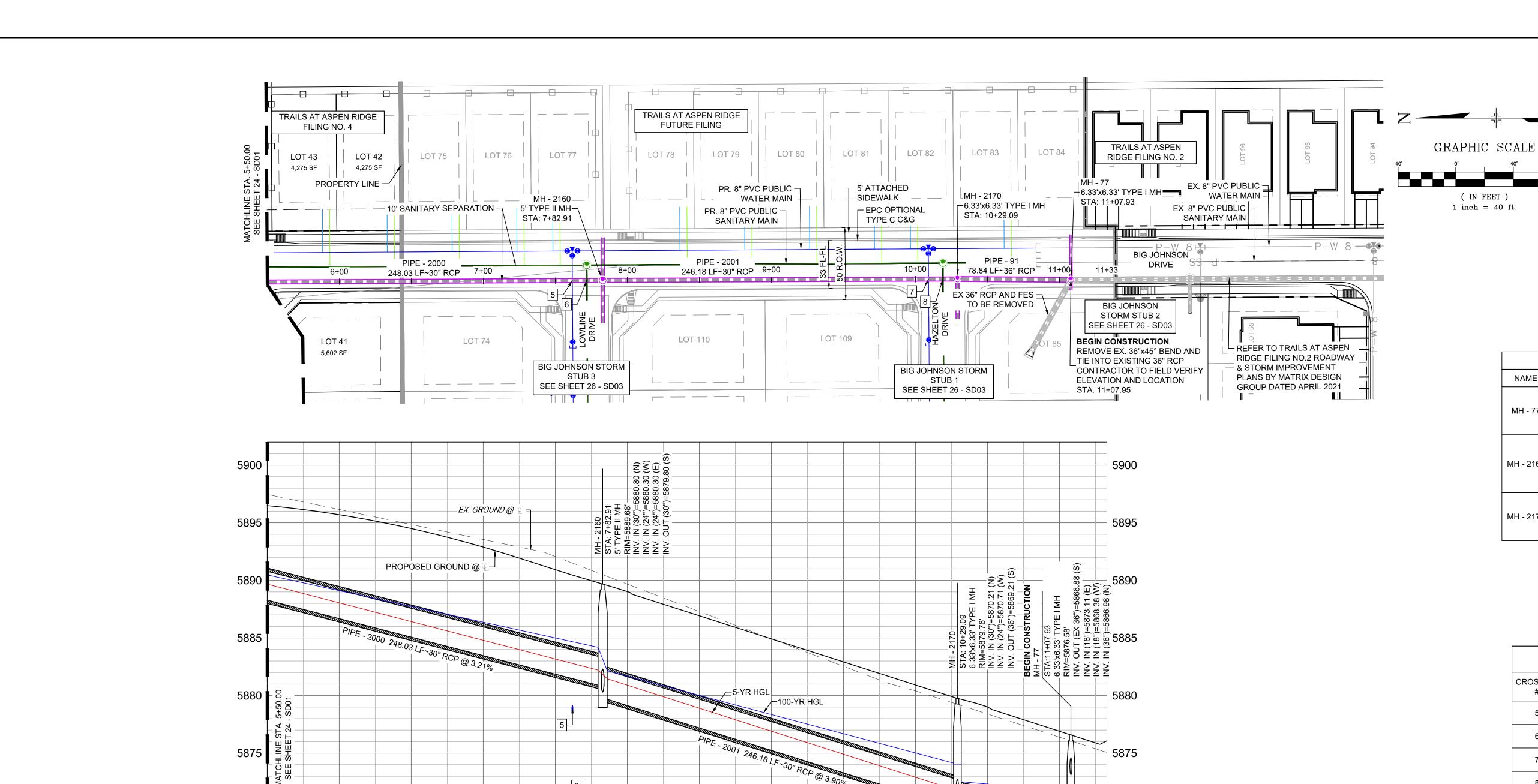






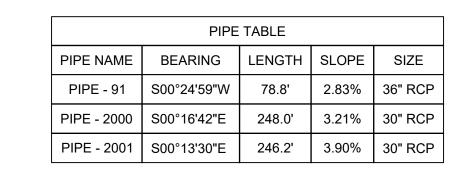








SHEET No. 25



		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	5' 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.		
5	N: 7,976.68 E:13,998.42	8" PVC WATER 5879.18	30" RCP STORM 5881.18	2.00'		
6	N: 7,966.68 E:13,998.47	8" PVC SAN 5870.74	30" RCP STORM 5880.86	10.12'		
7	N: 7,729.50 E:13,999.41	8" PVC WATER 5869.18	30" RCP STORM 5870.70	1.52'		
8	N: 7,719.50 E:13,999.45	8" PVC SAN 5868.51	30" RCP STORM 5870.31	1.80'		

- 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.
- 9. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YEAR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YEAR SERVICE LIFE PER ECM 3.3.1.D

REFERENCE					SHEET KEY	
DRAWINGS					N TT	
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	No.	DATE	DESCRIPTION	BY		
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6+50

7+00

7+50

8+00

8+50

BIG JOHNSON STORM F5 (PUBLIC)

SCALE: (H) 1" = 40' (V) 1" = 5'

START STA: 5+50.00, END STA: 11+32.93

9+00

6+00

5865

5860

9+50

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

10+50

5870

82.6 LF~36" RCP @ 2.96% ─

11+00

## ELEVATION - 5897.89' U.S. SURVEY FT **BASIS OF BEARING**

\_PIPE - 91 78.84 LF~36" RCP @ 2.83%ᆜ

10+00

BEARINGS ARE BASED ON THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 9, BEARINGS ARE BASED ON THE ROLL.

TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS S89 3123 E 1 ROM .......

NORTHWEST CORNER OF SAID SECTION 9 (2 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (3 ¼" AULM. CAP PLS 10377)

PREPARED BY: FOR AND ON BEHALF MATRIX DESIGN GROUP

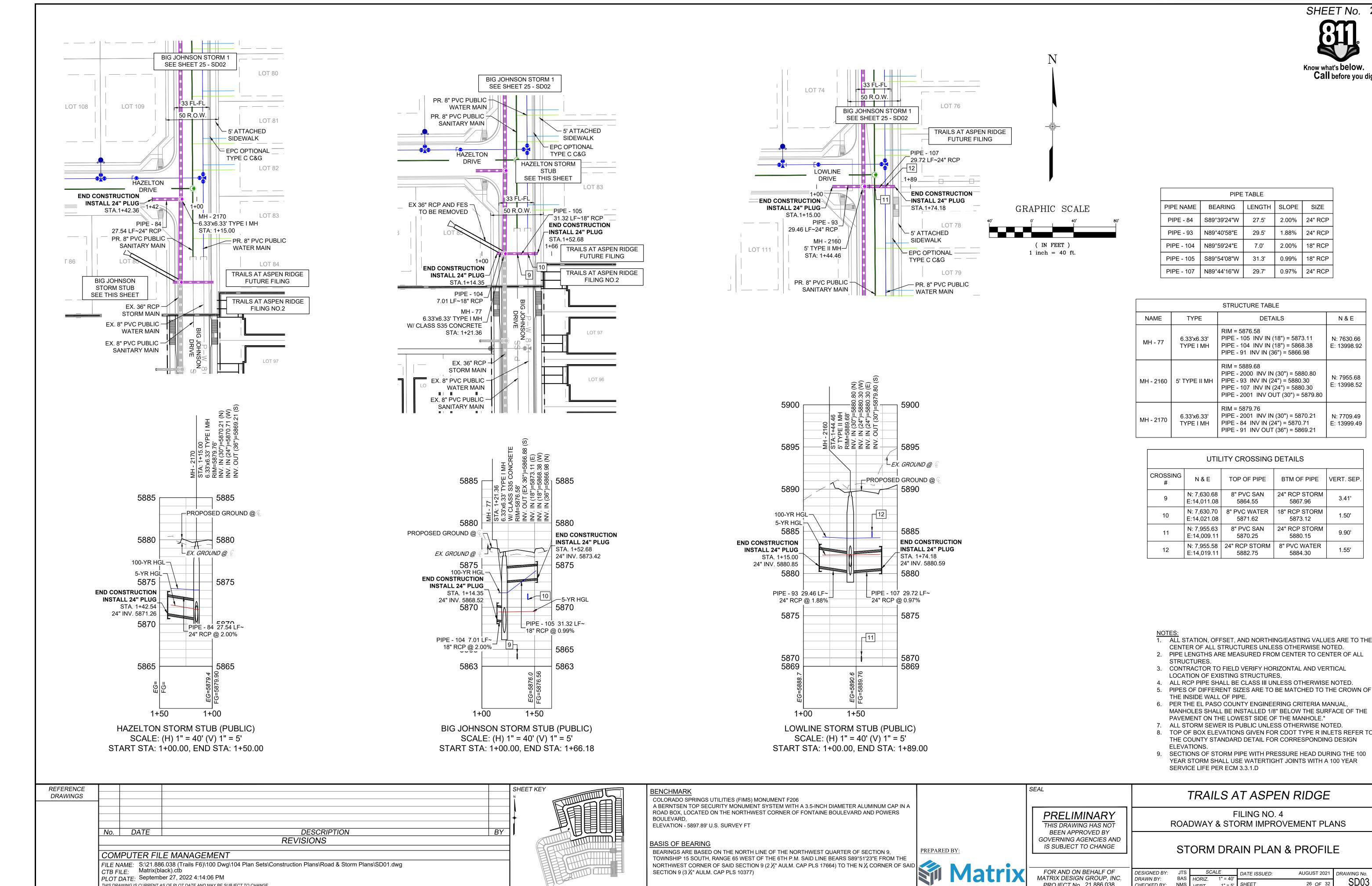
#### PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

#### FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

TRAILS AT ASPEN RIDGE

STORM DRAIN PLAN & PROFILE

FOR AND ON BEHALF OF	DESIGNED BY:	JTS	SC	ALE	DATE ISSUED:	AUGUST 2021	DRAWING No.
MATRIX DESIGN GROUP, INC. PROJECT No. 21.886.038	DRAWN BY: CHECKED BY:	BAS NMS	HORIZ. VERT.	1" = 40' 1" = 5'	SHEET	25 OF 32	SD02



CTB FILE: Matrix(black).ctb

PLOT DATE: September 27, 2022 4:14:06 PM

THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE



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	5' 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'		

- 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
- 3. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STRUCTURES,
- 4. ALL RCP PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.
- 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
- 9. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YEAR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YEAR
- SERVICE LIFE PER ECM 3.3.1.D



FILING NO. 4

ROADWAY & STORM IMPROVEMENT PLANS

AUGUST 2021 DRAWING No.

26 OF 32

SD03

STORM DRAIN PLAN & PROFILE

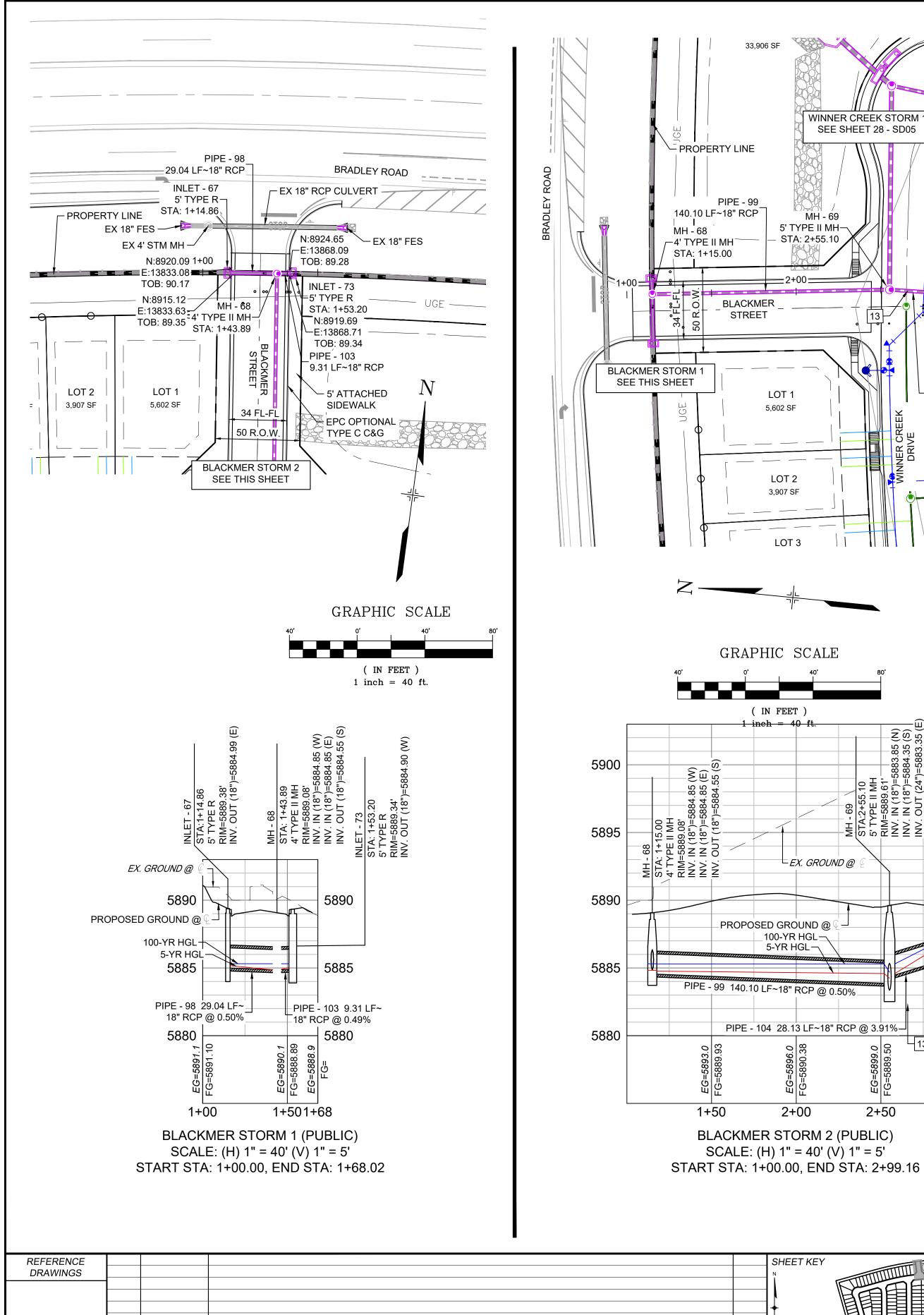
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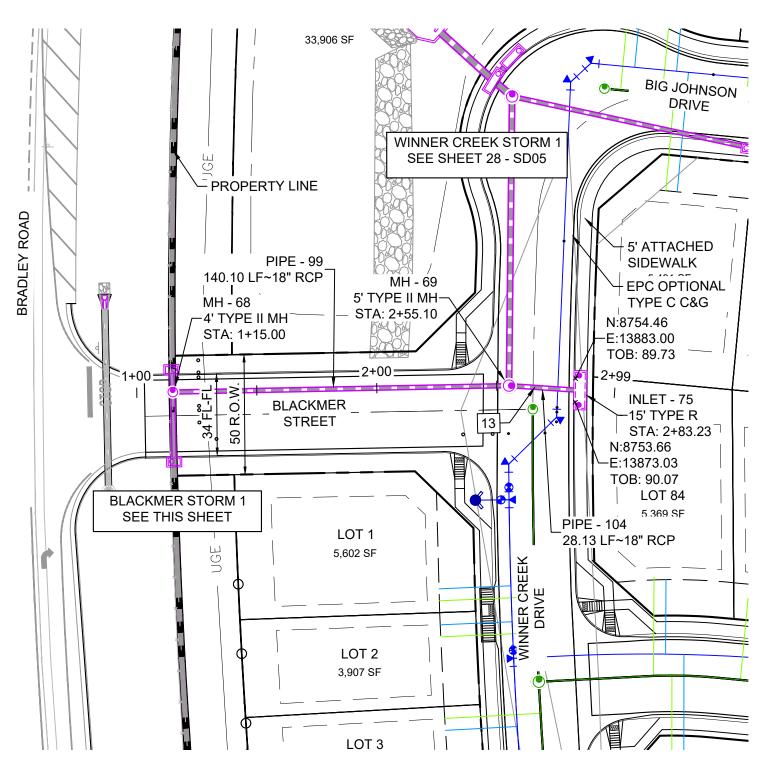
BAS *HORIZ.* 1" = 40'

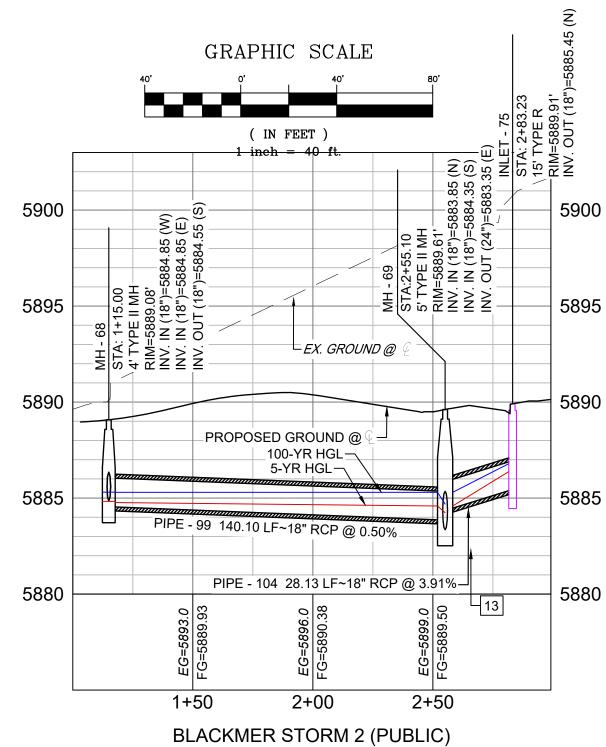
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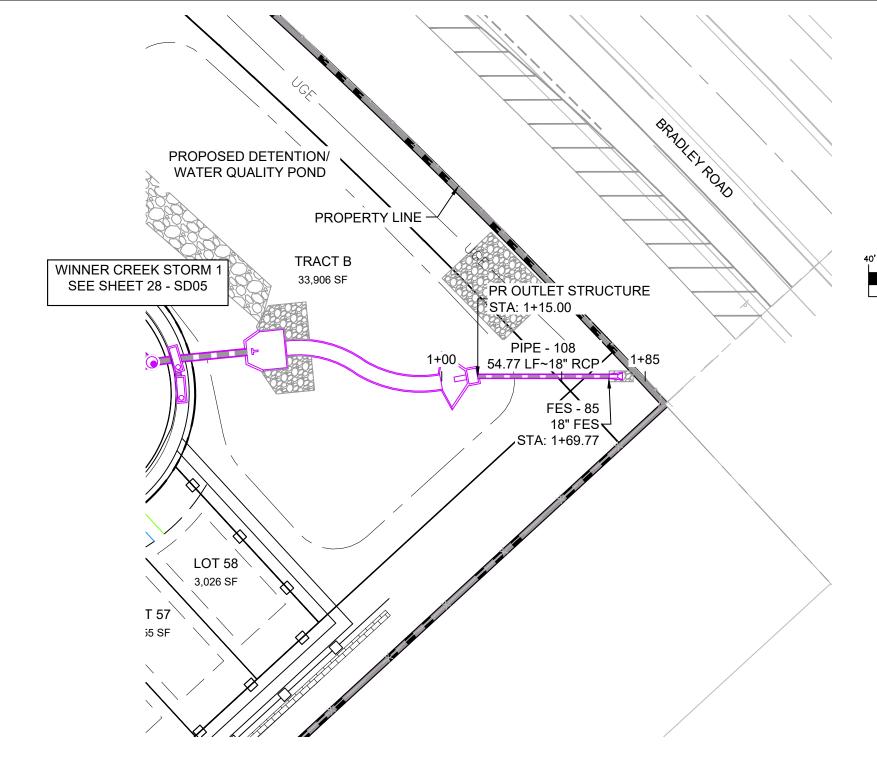
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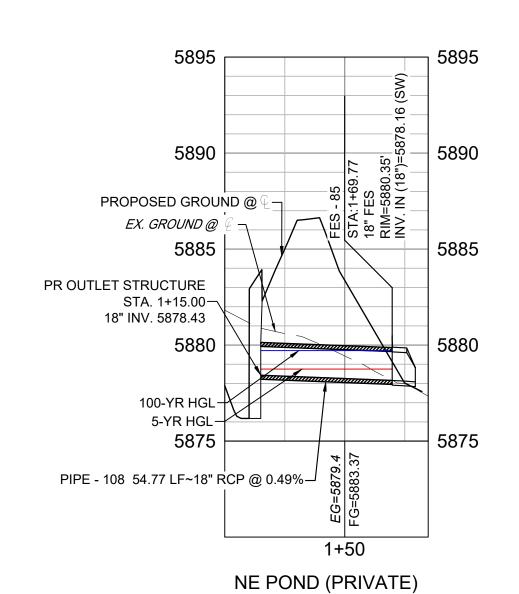
PROJECT No. 21.886.038

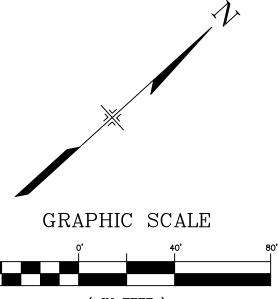


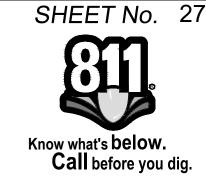


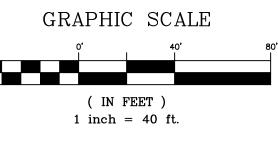












	PIPE	TABLE		
PIPE NAME	BEARING	LENGTH	SLOPE	SIZE
PIPE - 98	N83°11'28"E	29.0'	0.50%	18" RCP
PIPE - 99	S06°46'17"E	140.1'	0.50%	18" RCP
PIPE - 103	S80°54'08"W	9.3'	0.49%	18" RCP
PIPE - 104	N01°48'05"W	28.1'	3.91%	18" RCP
PIPE - 108	N42°15'21"E	54.8'	0.49%	18" RCP

	STRUCTURE TABLE					
NAME	TYPE	DETAILS	N & E			
FES - 85	18" FES	RIM = 5880.35 PIPE - 108 INV IN (18") = 5878.16	N: 8929.45 E: 14129.65			
INLET - 67	5' TYPE R	RIM = 5889.38 PIPE - 98 INV OUT (18") = 5884.99	N: 8917.44 E: 13831.86			
INLET - 73	5' TYPE R	RIM = 5889.34 PIPE - 103 INV OUT (18") = 5884.90	N: 8922.36 E: 13869.88			
INLET - 75	15' TYPE R	RIM = 5889.91 PIPE - 104 INV OUT (18") = 5885.45	N: 8753.65 E: 13878.10			
MH - 68	4' TYPE II MH	RIM = 5889.08 PIPE - 98 INV IN (18") = 5884.85 PIPE - 103 INV IN (18") = 5884.85 PIPE - 99 INV OUT (18") = 5884.55	N: 8920.89 E: 13860.70			
MH - 69	5' TYPE II MH	RIM = 5889.61 PIPE - 99 INV IN (18") = 5883.85 PIPE - 104 INV IN (18") = 5884.35 PIPE - 100 INV OUT (24") = 5883.35	N: 8781.76 E: 13877.21			
OS - 84	OUTLET STRUCTURE	RIM = 5880.64 PIPE - 108 INV OUT (18") = 5878.43	N: 8888.91 E: 14092.82			

	UTILITY CROSSING DETAILS				
CROSSING #	N&E	TOP OF PIPE	BTM OF PIPE	VERT. SEP.	
13	N: 8,771.03 E:13,877.55	8" PVC WATER 5883.04	18" RCP STORM 5884.55	1.51'	

- 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,
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- PAVEMENT ON THE LOWEST SIDE OF THE MANHOLE." 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.**
- 9. SECTIONS OF STORM PIPE WITH PRESSURE HEAD DURING THE 100 YEAR STORM SHALL USE WATERTIGHT JOINTS WITH A 100 YEAR SERVICE LIFE PER ECM 3.3.1.D

SHEET KEY DESCRIPTION No. DATE REVISIONS COMPUTER FILE MANAGEMENT FILE NAME: S:\21.886.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\SD01.dwg CTB FILE: Matrix(black).ctb PLOT DATE: September 27, 2022 4:14:51 PM THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE



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,



SCALE: (H) 1" = 40' (V) 1" = 5'

START STA: 1+00.00, END STA: 1+84.77

#### PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND

IS SUBJECT TO CHANGE

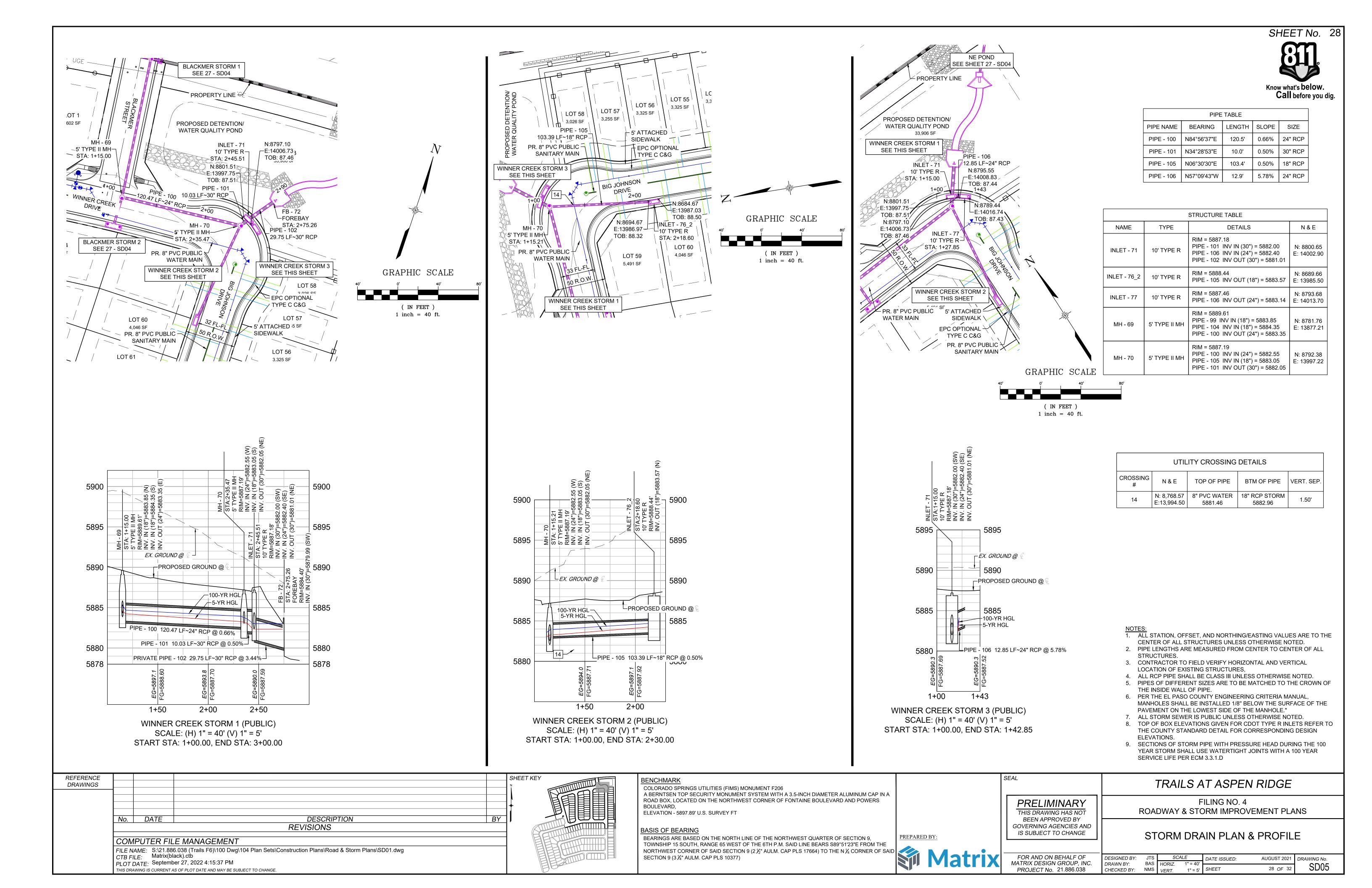
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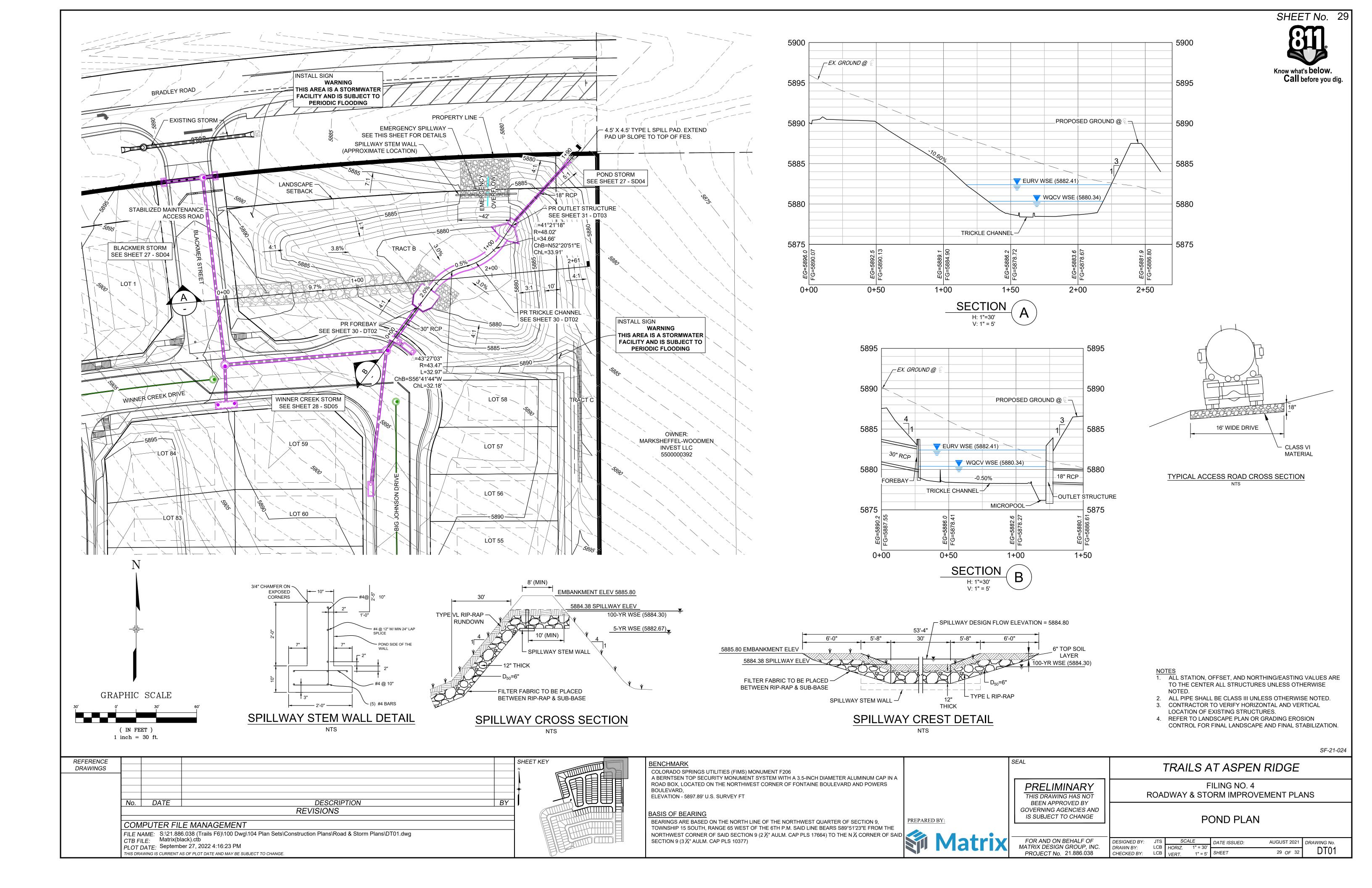
FILING NO. 4

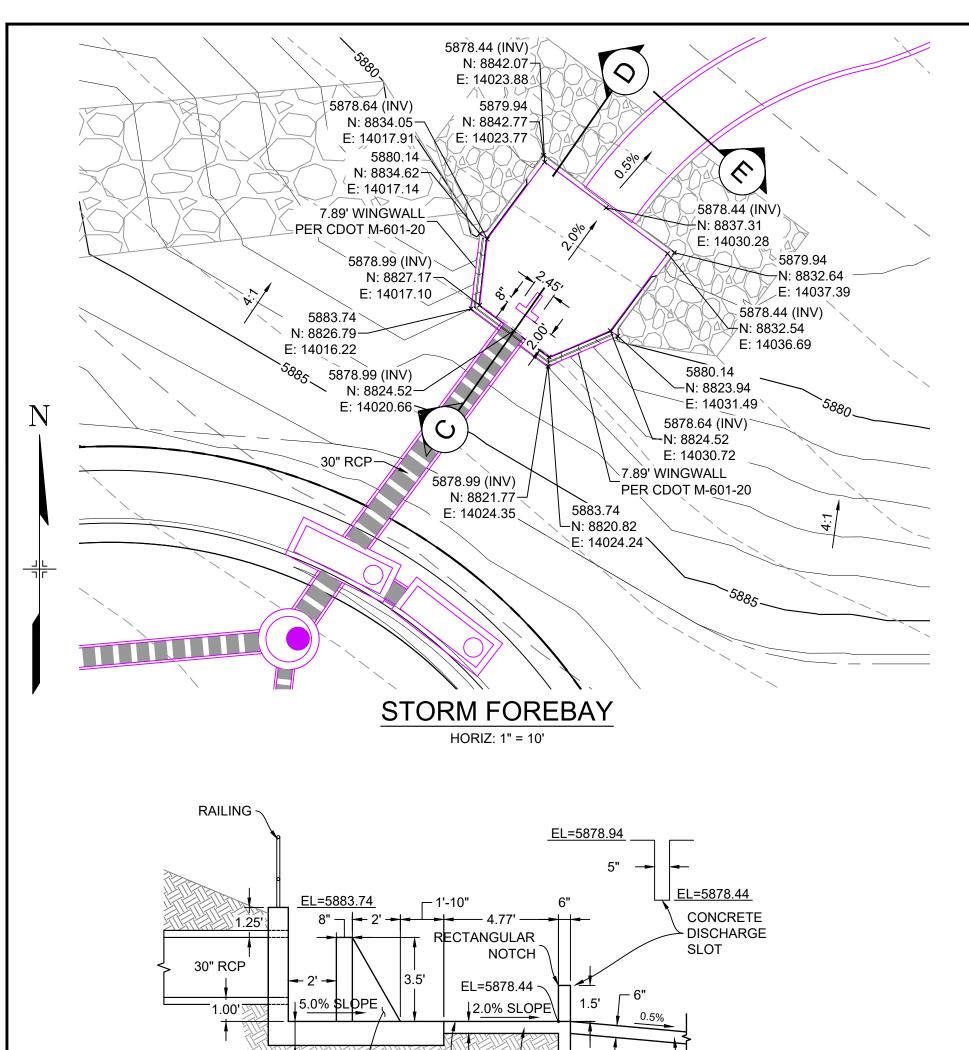
ROADWAY & STORM IMPROVEMENT PLANS

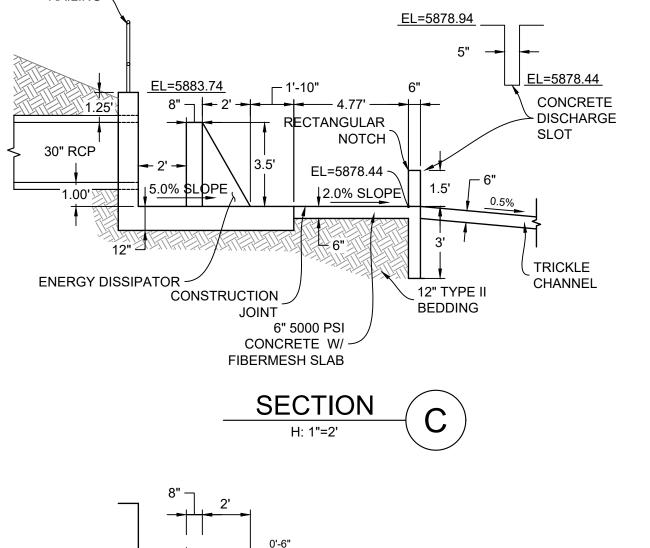
STORM DRAIN PLAN & PROFILE

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 21.886.038 SCALE DATE ISSUED: AUGUST 2021 DRAWING No. DRAWN BY: SD04 CHECKED BY: NMS VERT. 1" = 5' SHEET 27 OF 32

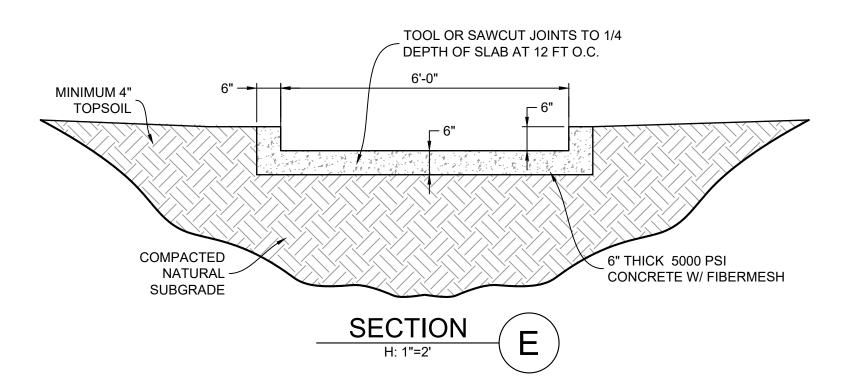


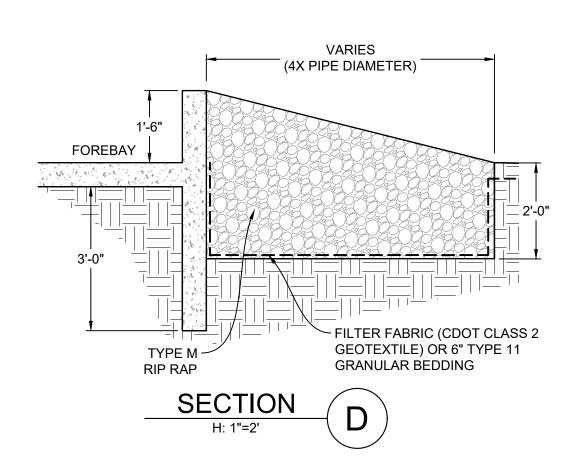


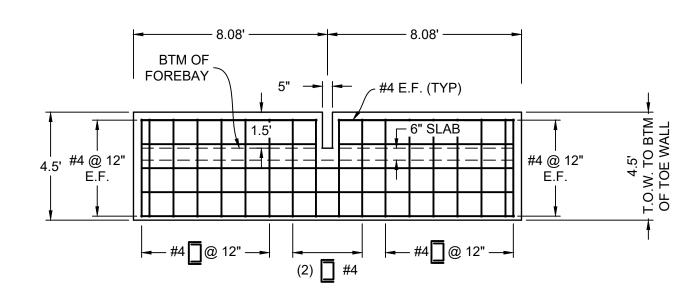




FOREBAY REINFORCING

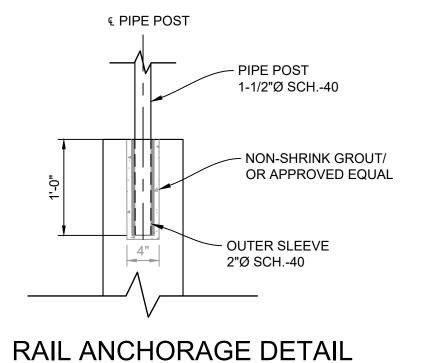




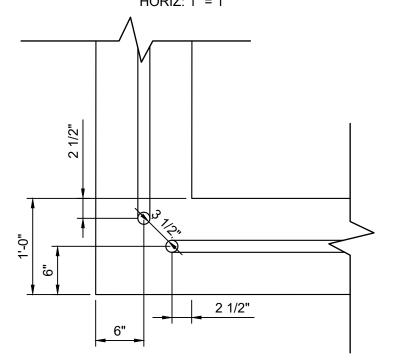


FOREBAY FRONT WALL PROFILE

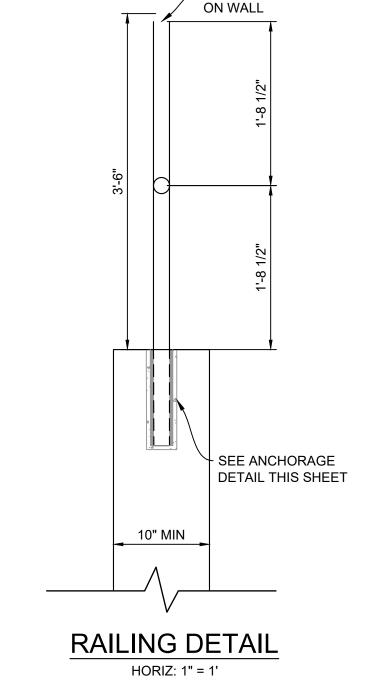
### SAFETY RAILING



## HORIZ: 1" = 1'



RAIL CORNER DETAIL HORIZ: 1" = 1'



CENTER POST

SHEET No. 30

Know what's below.

Call before you dig.

#### RAILING NOTES:

- 1. ALL PIPE IS 1-1/2"

  MOT-DIPPED GALV. SCH 40 STEEL PIPE. 2. DIMENSIONS SHOWN ARE FROM CENTER OF PIPE UNLESS
- OTHERWISE NOTED. 3. RAILING SHALL BE PLACED AT ALL LOCATIONS WHERE FALL HEIGHT IS GREATER THAN 30".

SF-21-024

REFERENCE DRAWINGS							
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	REVISIONS						
	COMPUTER FILE MANAGEMENT						
	FILE NAME: S:\21.886.038 (Trails F6)\100 Dwg\104 Plan Sets\Construction Plans\Road & Storm Plans\DT01.dwg CTB FILE: Matrix(black).ctb PLOT DATE: September 27, 2022 4:16:42 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, BEARINGS ARE BASED ON THE NORTH ENGLAND TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH P.M. SAID LINE BEARS \$89°51'23 E FROW THE NORTHWEST CORNER OF SAID SECTION 9 (2 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID SECTION 9 (2 ½" AULM. CAP PLS 17664) TO THE N ¼ CORNER OF SAID

PREPARED BY

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

SEAL

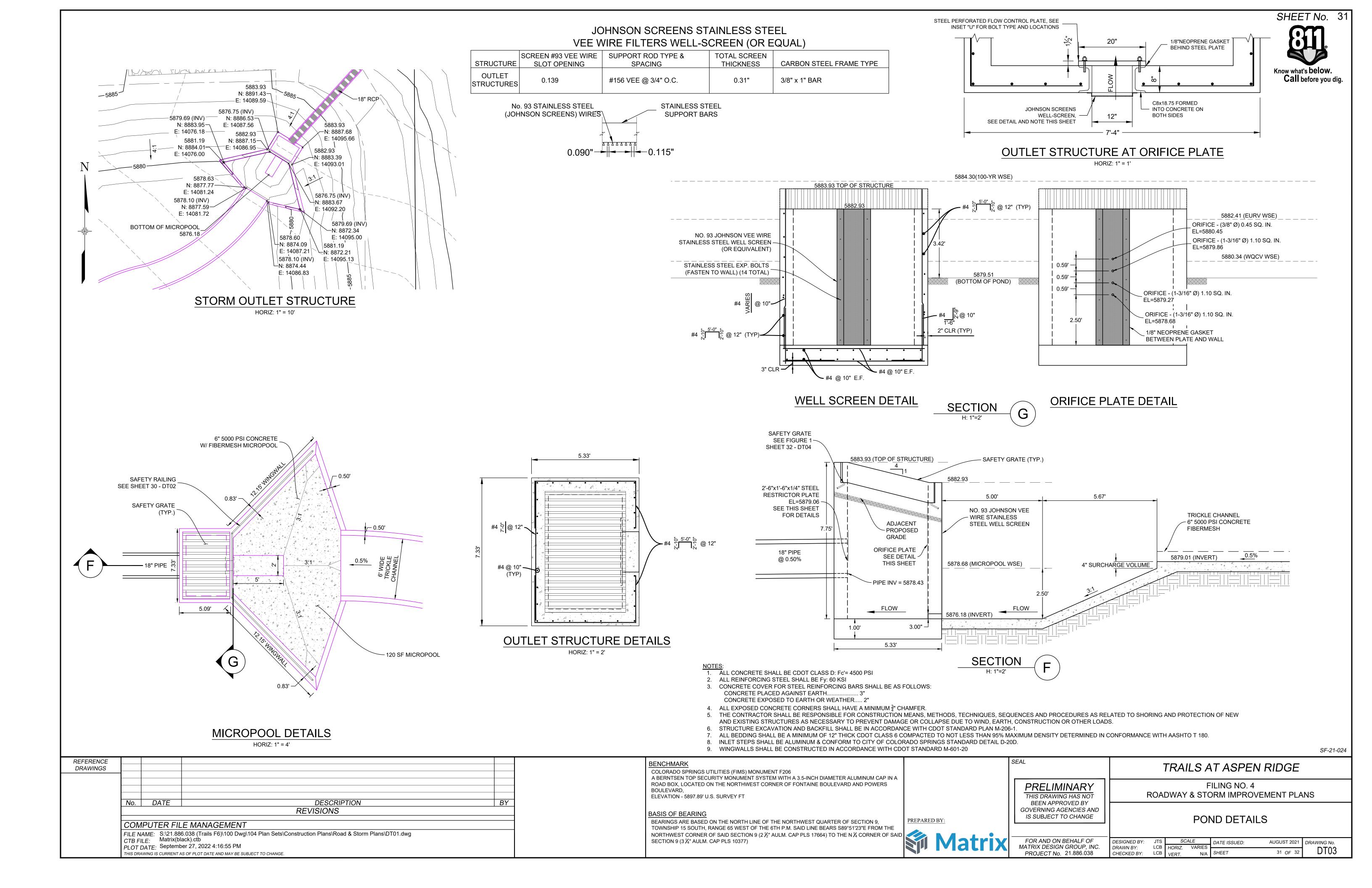
FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

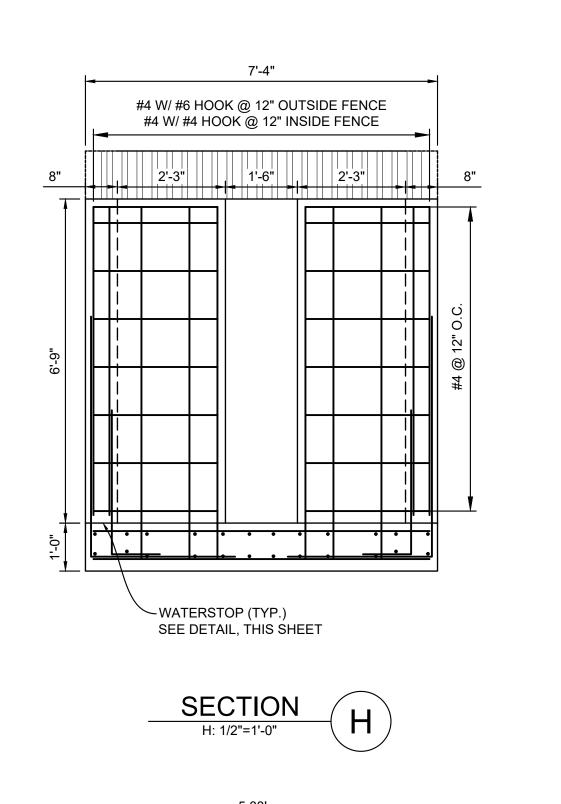
POND DETAILS

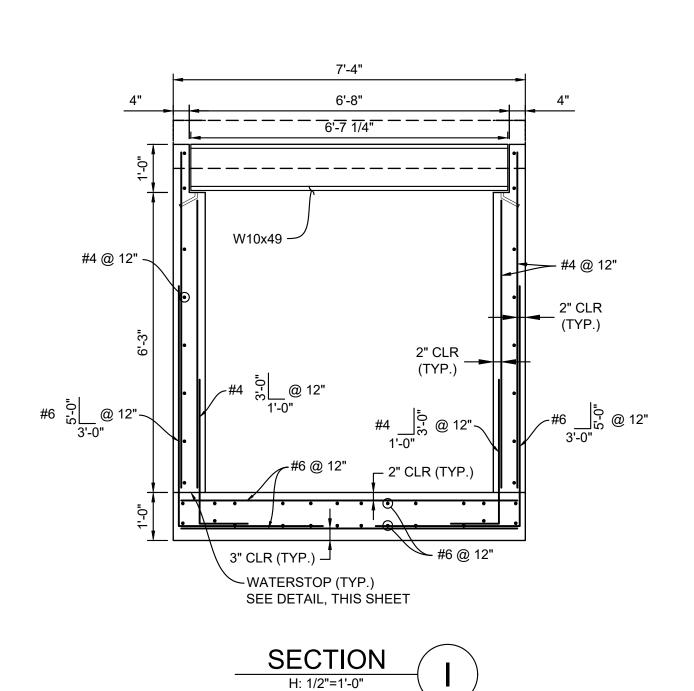
TRAILS AT ASPEN RIDGE

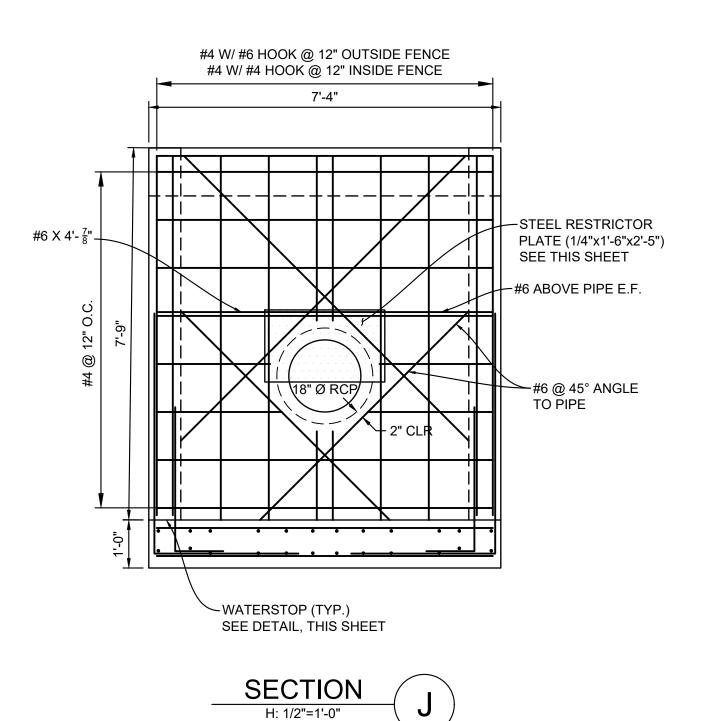
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. DESIGNED BY: DRAWN BY: PROJECT No. 21.886.038 CHECKED BY:

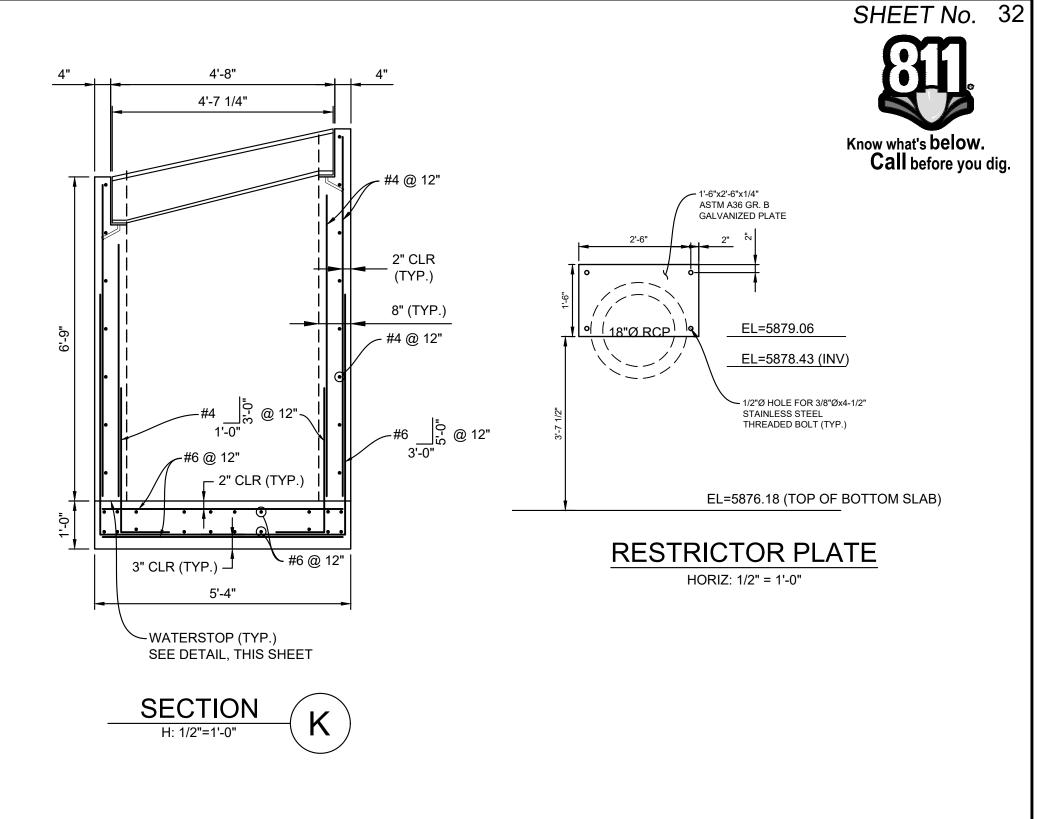
JTS SCALE DATE ISSUED:
LCB HORIZ. VARIES
LCB VERT. N/A SHEET AUGUST 2021 DRAWING No. DT02 30 OF 32

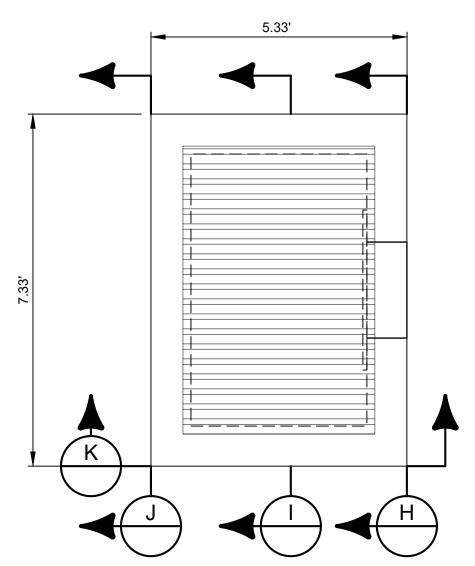








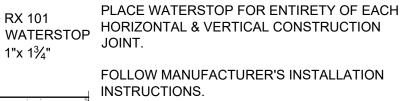






- 1. ALL CONCRETE SHALL BE CDOT CLASS D: Fc'= 4500 PSI
- 2. ALL REINFORCING STEEL SHALL BE Fy: 60 KSI
- 3. CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS: CONCRETE PLACED AGAINST EARTH...... 3" CONCRETE EXPOSED TO EARTH OR WEATHER..... 2"
- 4. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A MINIMUM 3/4" CHAMFER.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES AS NECESSARY TO PREVENT DAMAGE OR COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS.
- 6. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-1. 7. ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM
- DENSITY DETERMINED IN CONFORMANCE WITH AASHTO T 180.
- 8. INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-20D.
- 9. WINGWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20

### WATERSTOP SHALL BE VOLCLAY WATERSTOP RX 101 OR EARTHSHIELD JP 648 OR APPROVED EQUAL.

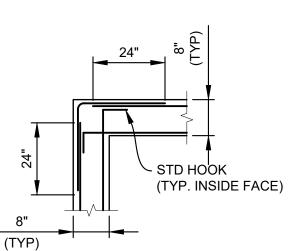


WATERSTOP NOTES:

## WATERSTOP DETAIL

3" COVER

MIN



## **CORNER DETAIL** SCALE: 3/8" = 1'

\*SADDLE CLIPS TO BE SECURED THROUGH ANGLE AT 4 CORNERS OF EACH GRATE SECTION USING GALVANIZED 3/8"Ø F1554 GR. 36 THREADED ROD W/ SIMPSON STRONG-TIE 3/4" SET 3G EPOXY, OR APPROVED EQUAL (TYP) CLR 1 1/2" GALVANIZED L3x2x1/4 3 1/2" MCNICHOLS GW-125 BEARING BAR GRATING OR APPROVED EQUAL: 4'X6' TOTAL GRATE SIZE 2 ~ 5'-0" X 2'-4 3/4" GRATES 5/8"Ø x 4" BOLT PLACE @ 24" O.C. ON EACH SIDE OF GRATE FRAMING -

SF-21-024

DT04

32 OF 32

REFERENCE DRAWINGS								
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	740.	REVISIONS						
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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

ELEVATION - 5897.89' U.S. SURVEY FT

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PREPARED BY:

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

SEAL

TRAILS AT ASPEN RIDGE FILING NO. 4 ROADWAY & STORM IMPROVEMENT PLANS

POND DETAILS

FOR AND ON BEHALF OF DESIGNED BY: CAG MATRIX DESIGN GROUP, INC. DRAWN BY: PROJECT No. 21.886.038 CHECKED BY:

CAG SCALE DATE ISSUED:

BAS HORIZ. VARIES
BAS VERT. AUGUST 2021 DRAWING No.

BOULEVARD,