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| INDEX OF SHEETS | | SHEET No. |
|-----------------|--------------------------------|-----------|
| TS01 | TITLE SHEET | 1 |
| GN01 | GENERAL NOTES | 2 |
| GEN01 | LEGEND & ABBREVIATION NOTES | 3 |
| GEC01-GEC03 | GRADING & EROSION CONTROL PLAN | 4 - 6 |
| ECN01-ECN02 | EROSION CONTROL DETAILS | 7 - 8 |

TRAILS AT ASPEN RIDGE FILING NO. 2

COLORADO SPRINGS, COLORADO

FINAL GRADING & EROSION CONTROL PLANS

NOVEMBER, 2019

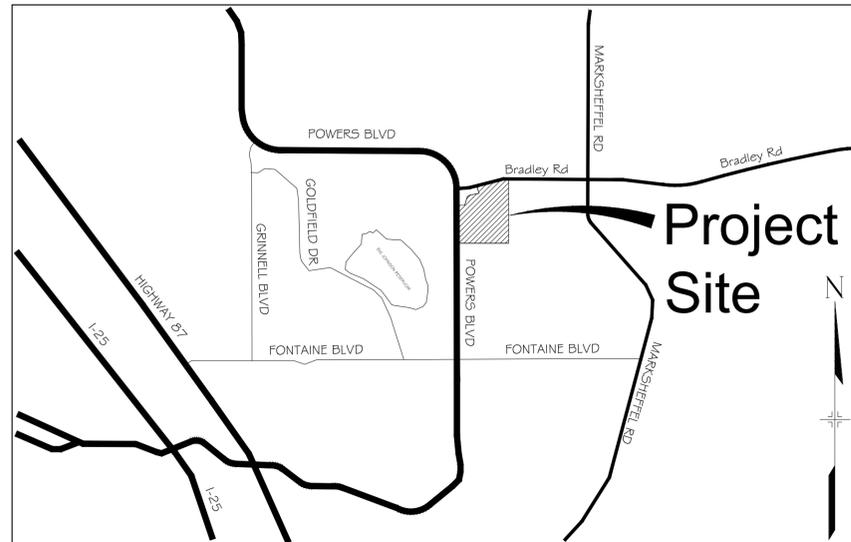
THIS IS AN OVERLOT GRADING AND EROSION CONTROL PLAN ONLY. THIS PLAN DOES NOT REFLECT DETAILED/FINE GRADING ELEMENTS THAT WILL BE PART OF FINAL CONSTRUCTION DOCUMENTS FOR SITE DEVELOPMENT, PAVING OPERATIONS, PLACEMENT OF CURB & GUTTER, AND LANDSCAPING. BUILDING AND PARKING LOT LOCATIONS ARE PROVIDED FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE.

The title and contents of this plan appear to be Final Grading and Erosion Control Plan in lieu of overlot grading. Please remove or revise this note.

Note has been revised



SITE MAP
N.T.S.



VICINITY MAP
N.T.S.

| | |
|------------------------|--|
| OWNER/DEVELOPER | COLA, LLC 555 MIDDLE CREEK PARKWAY, SUITE 380 COLORADO SPRINGS, CO 80921 RANDY O'LEARY, (719) 382-9433 |
| CIVIL ENGINEER | MATRIX DESIGN GROUP 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920 NICOLE SCHANEL, (719) 659 6141 |
| WATER & SANITARY SEWER | WIDEFIELD WATER AND SANITATION DISTRICT 8495 FONTAINE BOULEVARD COLORADO SPRINGS, CO 80925 ROBERT BANNISTER, (719) 390-7111 |
| ELECTRIC | MOUNTAINVIEW 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 |

OWNER'S STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

RANDY O'LEARY, PRESIDENT _____ DATE _____

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.

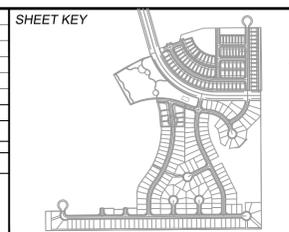
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

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.

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

| REFERENCE DRAWINGS | No. | DATE | DESCRIPTION REVISIONS | BY |
|--------------------|-----|------|-----------------------|-----|
| GEC Titleblock | ### | ### | ### | ### |
| X-886-PR SITE-F2 | ### | ### | ### | ### |
| X-886-PR SITE | ### | ### | ### | ### |
| 10415-Ex-886 | ### | ### | ### | ### |
| X-886-PR SITE_F1 | ### | ### | ### | ### |

| COMPUTER FILE MANAGEMENT | |
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| FILE NAME: | S:\19.886.014 (Trails at Aspen Ridge - F2)\100 Dwg\104 Plan Sets\Construction Plans\GEC Plan\TS01.dwg |
| CTB FILE: | --- |
| PLOT DATE: | November 5, 2019 7:21:34 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 1/2" AULM. CAP PLS 10377)

PREPARED BY:

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

| TRAILS AT ASPEN RIDGE | | | |
|---------------------------------------|-----|--------|----------------------------|
| FILING NO. 2 | | | |
| FINAL GRADING & EROSION CONTROL PLANS | | | |
| TITLE SHEET | | | |
| DESIGNED BY: | NMS | SCALE: | DATE ISSUED: NOVEMBER 2019 |
| DRAWN BY: | CRD | HORIZ: | N/A |
| CHECKED BY: | NMS | VERT: | N/A |
| PROJECT No. 19.886.014 | | | DRAWING No. 1 OF 8 |
| | | | TS01 |



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GENERAL CONSTRUCTION NOTES:

Please update the GEC notes to the current standard GEC notes. There are a few notes that do not match the current standard GEC notes (example see #17). Please use the notes listed in the GEC checklist.

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EQUIPMENT DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFFSITE WATERS, INCLUDING WETLANDS.
- 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.

- CONSTRUCTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
- DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCH FLOW LINE.
- INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY ENTECH ENGINEERING, INC. DATED APRIL, 2019 AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNI

NRCS SOIL SURVEY FOR EL PASO COUNTY

| SOIL ID NO. | SOIL TYPE | HYDROLOGIC CLASSIFICATION |
|-------------|---|---------------------------|
| 52 | MANZANST CLAY LOAM (0%-3% SLOPES) | C |
| 56 | NELSON-TASSEL FINE SANDY LOAM (3%-18% SLOPES) | B |
| 108 | WILEY SILT LOAM (3%-9% SLOPES) | B |

TIMING

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:
MARCH 2020 THRU JULY 2020

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETED:
JULY 2021

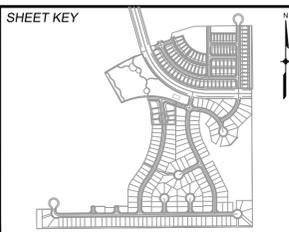
AREAS

TOTAL AREA: 23.87 ACRES

RECEIVING WATERS

NAME OF RECEIVING WATERS
FOUNTAIN CREEK (ULTIMATE)

| REFERENCE DRAWINGS | ### | ### | ### | ### | ### |
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| REVISIONS | | | | | |
| COMPUTER FILE MANAGEMENT | | | | | |
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| CTB FILE: --- | | | | | |
| PLOT DATE: November 5, 2019 7:21:47 AM | | | | | |
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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 1/2" AULM. CAP PLS 10377)

PREPARED BY:

SEAL

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. 19.886.014

| | | | | | |
|---|-----|--------|--------------|---------------|-------------|
| TRAILS AT ASPEN RIDGE | | | | | |
| FILING NO. 2 FINAL GRADING & EROSION CONTROL PLANS | | | | | |
| GENERAL NOTES | | | | | |
| DESIGNED BY: | NMS | SCALE: | DATE ISSUED: | NOVEMBER 2019 | DRAWING No. |
| DRAWN BY: | CRD | HORIZ: | N/A | | |
| CHECKED BY: | NMS | VERT: | N/A | SHEET | 2 OF 8 |
| | | | | | GN01 |



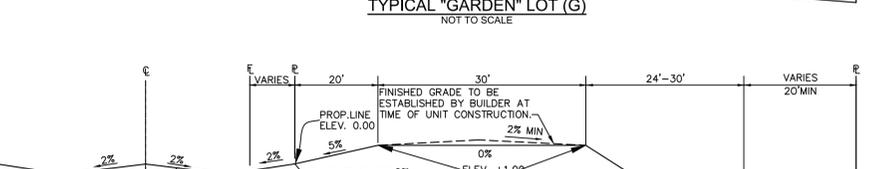
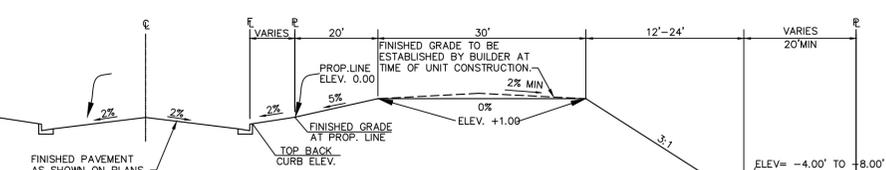
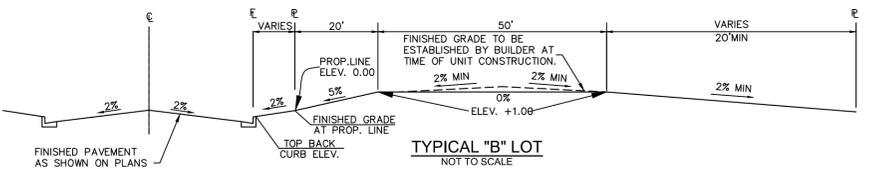
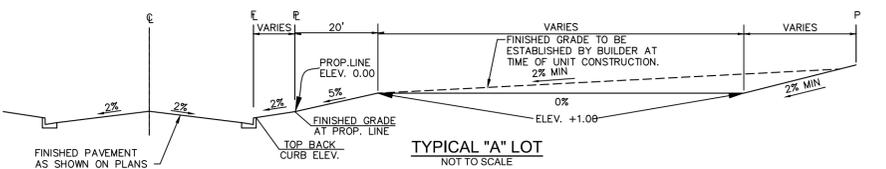
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SYMBOLS

| | | | |
|--|------------------------------|--|----------------------------|
| | PROPOSED CENTERLINE | | PROPOSED MANHOLE |
| | EXISTING PAVED ROAD | | EXISTING POWER POLE |
| | EXISTING UNDERGROUND UTILITY | | THRUST BLOCK |
| | PROPOSED UNDERGROUND UTILITY | | FIRE HYDRANT |
| | RIGHT OF WAY | | EXISTING WATER VALVE |
| | EASEMENT | | PROPOSED WATER VALVE |
| | EXISTING CURB & GUTTER | | WATER FITTINGS |
| | PROPOSED CURB & GUTTER | | EXISTING STORM INLET |
| | EXISTING CONTOUR | | PROPOSED STORM DRAIN/INLET |
| | PROPOSED CONTOUR | | PLUG PIPE |
| | LIMITS OF CONSTRUCTION | | PROPOSED SIGN |
| | | | EXISTING SIGN |

LOT TYPES

- (A) "A" LOT
- (B) "B" LOT
- (G) "GARDEN LEVEL" LOT
- (W) "WALKOUT" LOT
- (T) "TRANSITION" LOT

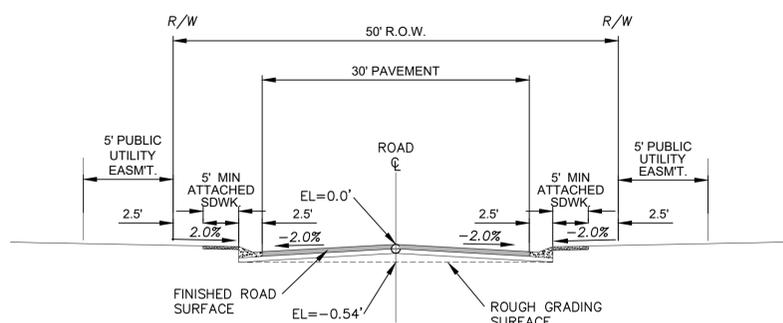
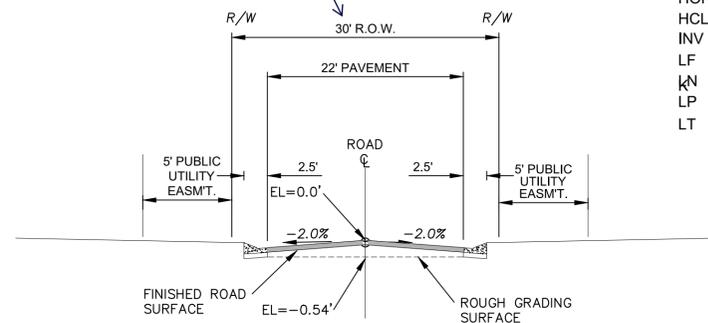


ABBREVIATIONS

| | | | |
|-------------|---|-----------|---|
| ASSY | ASSEMBLY | MAX | MAXIMUM |
| ASTM | AMERICAN SOCIETY OF TESTING AND MATERIALS | MH | MANHOLE |
| APPROX | APPROXIMATE or APPROXIMATELY | MIN | MINIMUM |
| AVE | AVENUE | MJ | MECHANICAL JOINT |
| AVG | AVERAGE | NTS | NOT TO SCALE |
| BLVD | BOULEVARD | O/S | OFFSET |
| BTM | BOTTOM | PR | PROPOSED |
| CDOT | COLORADO DEPARTMENT OF TRANSPORTATION | PC | POINT OF CURVATURE |
| CEN | CENTER | PCC | POINT OF COMPOUND CURVE |
| C or CL | CENTERLINE | PCR | POINT OF CURB RETURN |
| CFS | CUBIC FEET PER SECOND | P or P/L | PROPERTY LINE |
| CONC | CONCRETE | PRC | POINT OF REVERSE CURVE |
| CONST | CONSTRUCTION | PT | POINT OF TANGENCY |
| CONT | CONTINUOUS | PVC | POINT OF VERTICAL CURVE or POLYVINYL CHLORIDE |
| DIA | DIAMETER | PVI | POINT OF VERTICAL INTERSECTION |
| DWG | DRAWING | PVMT | PAVEMENT |
| EA | EACH | PVT | POINT OF VERTICAL TANGENT |
| EGL | ENERGY GRADE LINE | RCP | REINFORCED CONCRETE PIPE |
| ELEV or EL | ELEVATION | RED | REDUCER |
| ESMT | EASEMENT | REF | REFERENCE |
| EX or EXIST | EXISTING | REQ | REQUIRED |
| FES | FLARED END SECTION | REV | REVISION |
| F or FL | FLOWLINE | ROW | RIGHT-OF-WAY |
| FLG | FLANGE | RT | RIGHT |
| FT | FOOT/FEET | SD | STORM SEWER |
| HGL | HYDRAULIC GRADE LINE | ST | STREET |
| HP | HIGH POINT | STA | STATION |
| HORIZ | HORIZONTAL | STD | STANDARD |
| HCL | HORIZONTAL CONTROL LINE | SS | SANITARY SEWER |
| INV | INVERT | SW or S/W | SIDEWALK |
| LF | LINEAR FEET | TAN | TANGENT |
| LANE | LANE | TBC | TOP BACK OF CURB |
| LP | LOW POINT | TYP | TYPICAL |
| LT | LEFT | UG | UNDERGROUND |
| | | UTIL | UTILITY |
| | | VERT | VERTICAL |
| | | W | WIDTH |
| | | w/ | WITH |

Private road to be located within a tract, not ROW

Private Roadway typical section has been updated accordingly



| | | | | | |
|--|------|-------------|-----|-----|-----|
| REFERENCE DRAWINGS | ### | ### | ### | ### | ### |
| GEC Titleblock | | | | | |
| No. | DATE | DESCRIPTION | | | BY |
| REVISIONS | | | | | |
| COMPUTER FILE MANAGEMENT | | | | | |
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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
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PREPARED BY:

PRELIMINARY
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TRAILS AT ASPEN RIDGE

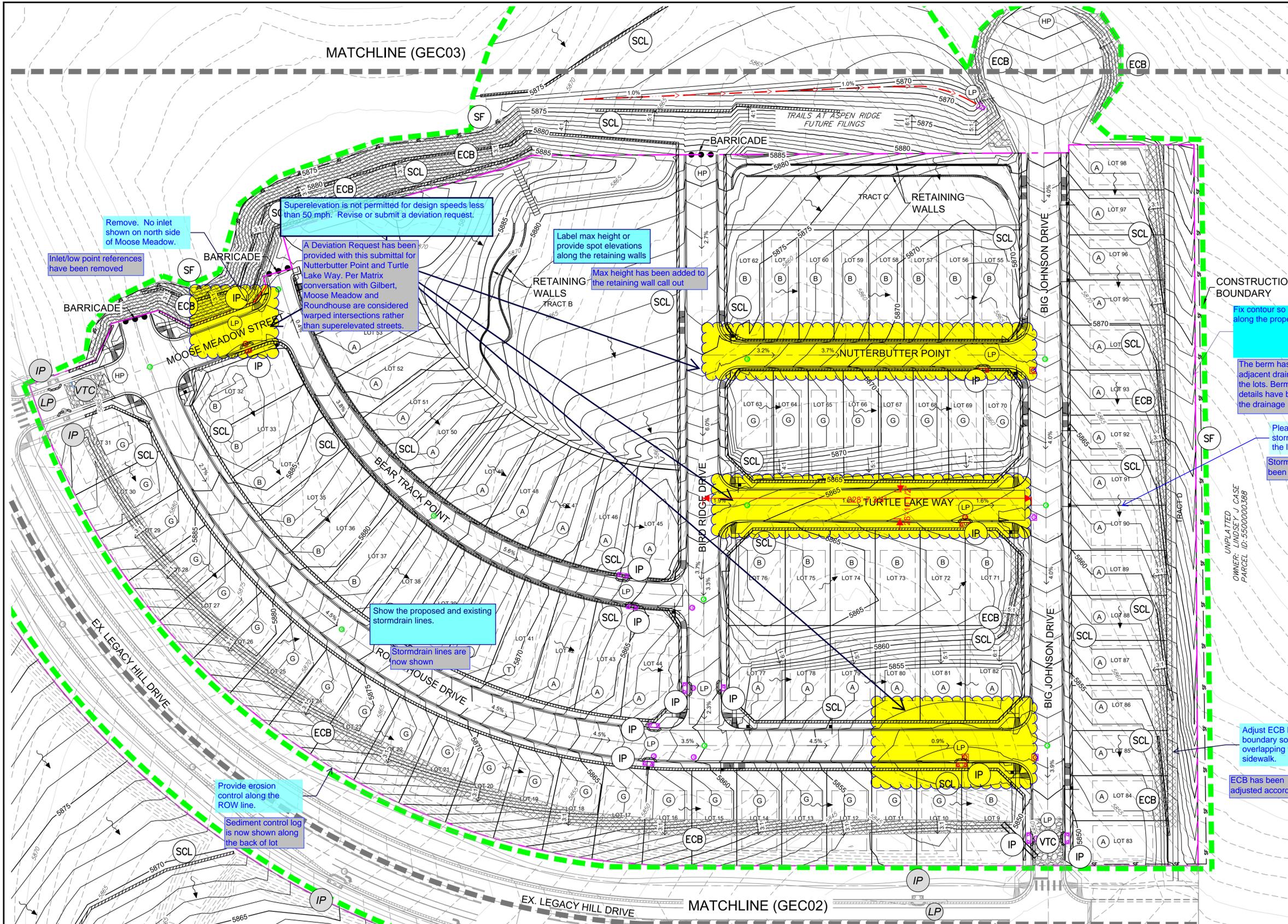
FILING NO. 2
FINAL GRADING & EROSION CONTROL PLANS

LEGEND & ABBREVIATION NOTES

| | | | |
|------------------|------------|----------------------------|-------------------|
| DESIGNED BY: NMS | SCALE: N/A | DATE ISSUED: NOVEMBER 2019 | DRAWING No. GEN01 |
| DRAWN BY: CRD | HORIZ: N/A | SHEET: 3 OF 8 | |
| CHECKED BY: NMS | VERT: N/A | | |

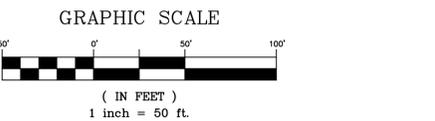


Know what's below. Call before you dig.



- EXISTING BMP INSTALLED DURING THE FINAL GRADING OF FILING NO. 1
- HIGH POINT/LOW POINT
- EROSION CONTROL BLANKET
- TEMPORARY MULCHING AND SEEDING
- SEDIMENT CONTROL LOG
- STRAW BALE BARRIER
- VEHICLE TRACKING CONTROL
- SEDIMENT BASIN
- CONTRACTOR TO COORDINATE LOCATIONS OF CONCRETE WASHOUTS, STOCKPILES, AND STAGING AREAS WITH ADJACENT FILINGS
- INLET PROTECTION
- OUTLET PROTECTION
- DRAINAGE SWALE
- SILT FENCE
- PROPOSED CONTOURS
- EXISTING CONTOURS
- SLOPE DIRECTION
- CUT/FILL LINE
- PROPERTY BOUNDARY
- CONSTRUCTION BOUNDARY LINE
- LOT DRAINS TO STREET
- LOT DRAINS TO STREET/REAR OF LOT
- LOT DRAINAGE VARIES
- GARDEN LEVEL BASEMENT
- WALK OUT BASEMENT

| BMP SEQUENCING | |
|----------------|--|
| INITIAL | SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING |
| INTERIM | SEDIMENT CONTROL LOGS, CHECK DAMS, TEMP SEDIMENT BASINS, INLET PROTECTION, STOCKPILES, STAGING |
| FINAL | EROSION CONTROL BLANKETS, SEEDING & MULCHING |



Remove. No inlet shown on north side of Moose Meadow.

Inlet/low point references have been removed

Superelevation is not permitted for design speeds less than 50 mph. Revise or submit a deviation request.

A Deviation Request has been provided with this submittal for Nutterbutter Point and Turtle Lake Way. Per Matrix conversation with Gilbert, Moose Meadow and Roundhouse are considered warped intersections rather than superelevated streets.

Label max height or provide spot elevations along the retaining walls

Max height has been added to the retaining wall call out

Fix contour so it doesn't show berm along the property line.

The berm has been proposed to avoid adjacent drainage being conveyed through the lots. Berm/Swale information and details have been added to the plans and the drainage report

Please add these stormflow arrows to the legend.

Storm flow arrows have been added to the legend

Show the proposed and existing stormdrain lines.

Stormdrain lines are now shown

Provide erosion control along the ROW line.

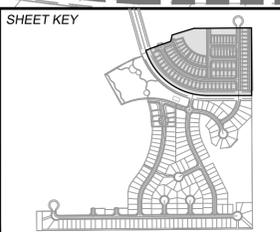
Sediment control log is now shown along the back of lot

Adjust ECB hatch boundary so it's not overlapping the sidewalk.

ECB has been adjusted accordingly

| REFERENCE DRAWINGS | NO. | DATE | DESCRIPTION | BY |
|---------------------|-----|------|-------------|----|
| GEC Titleblock | | | | |
| X-886-PR STORM_F1 | | | | |
| X-886-PR UTIL | | | | |
| X-886-PR SITE-F2 | | | | |
| 886-PR Legacy Drive | | | | |
| X-886-PR SITE_F1 | | | | |
| X-886-PR UTIL-F2 | | | | |

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BENCHMARK
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 ELEVATION - 5897.89' U.S. SURVEY FT

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PREPARED BY:

PRELIMINARY
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TRAILS AT ASPEN RIDGE

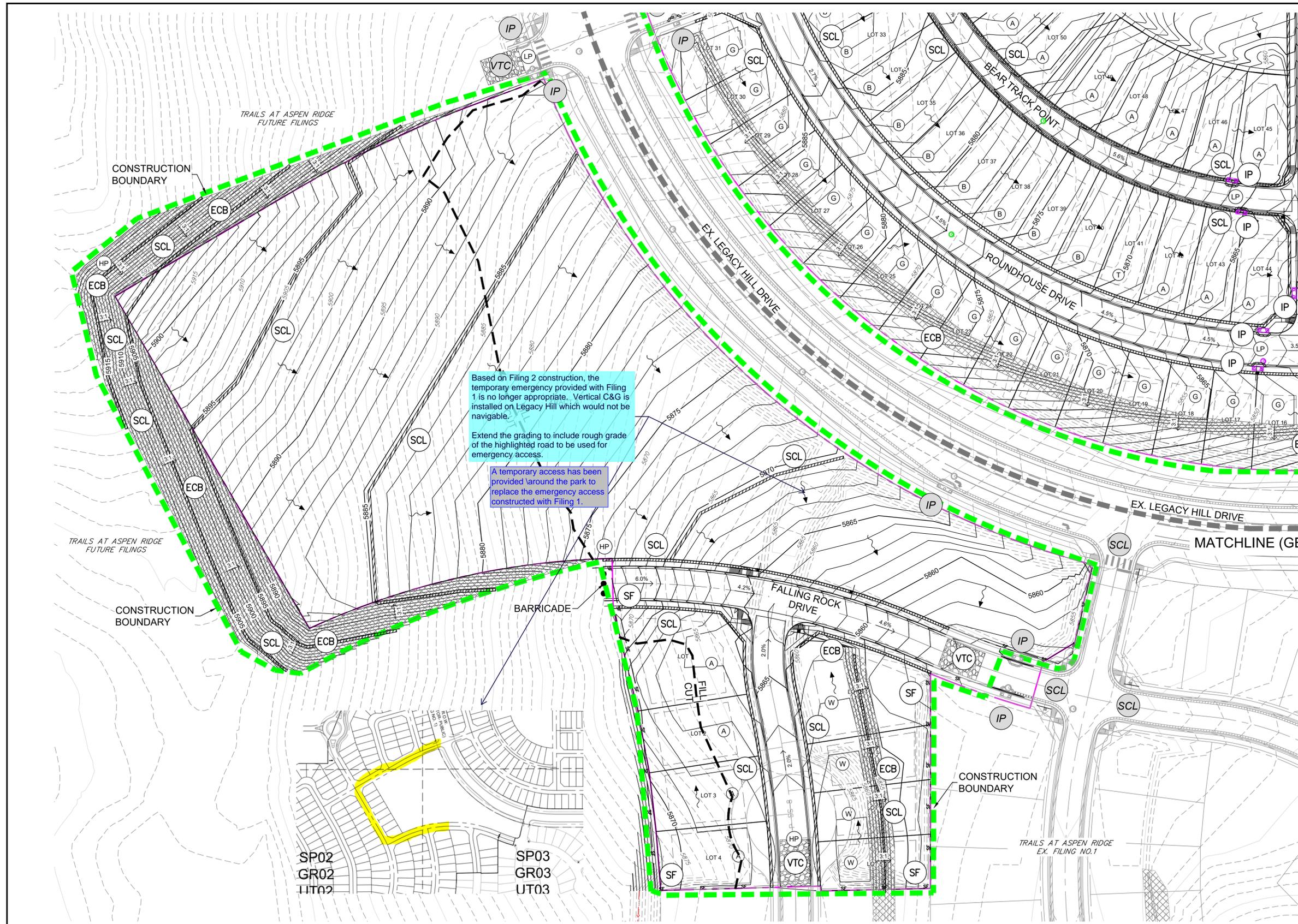
FILING NO. 2
 FINAL GRADING & EROSION CONTROL PLANS

GRADING & EROSION CONTROL PLAN

| | | | | | |
|--------------|-----|--------|--------------|---------------|--------------|
| DESIGNED BY: | NMS | SCALE: | DATE ISSUED: | NOVEMBER 2019 | DRAWING No.: |
| CHECKED BY: | NMS | HORIZ: | 1"=50' | SHEET: | 4 OF 8 |
| | | VERT: | N/A | | GEC01 |



Know what's below.
Call before you dig.



Based on Filing 2 construction, the temporary emergency provided with Filing 1 is no longer appropriate. Vertical C&G is installed on Legacy Hill which would not be navigable.

Extend the grading to include rough grade of the highlighted road to be used for emergency access.

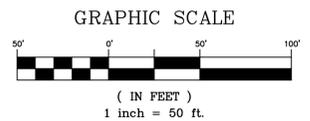
A temporary access has been provided around the park to replace the emergency access constructed with Filing 1.

- EXISTING BMP INSTALLED DURING THE FINAL GRADING OF FILING NO. 1
- HIGH POINT/LOW POINT
- EROSION CONTROL BLANKET
- TEMPORARY MULCHING AND SEEDING
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- SILT FENCE
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- PROPERTY BOUNDARY
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- LOT DRAINS TO STREET
- LOT DRAINS TO STREET/REAR OF LOT
- LOT DRAINAGE VARIES
- GARDEN LEVEL BASEMENT
- WALK OUT BASEMENT

Revised accordingly

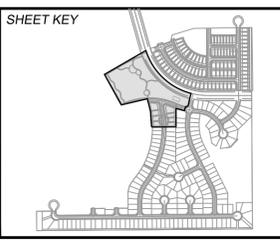
Temporary sediment basins should be provided in your initial sequence.

| BMP SEQUENCING | |
|----------------|--|
| INITIAL | SILT FENCE, CONSTRUCTION FENCE, VEHICLE TRACKING |
| INTERIM | SEDIMENT CONTROL LOGS, CHECK DAMS, TEMP SEDIMENT BASINS, INLET PROTECTION, STOCKPILES, STAGING |
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|---------------------|-----|------|-------------|----|
| GEC Titleblock | | | | |
| X-886-PR STORM_F1 | | | | |
| X-886-PR UTIL | | | | |
| X-886-PR SITE-F2 | | | | |
| 886-PR Legacy Drive | | | | |
| X-886-PR SITE_F1 | | | | |
| X-886-PR UTIL-F2 | | | | |

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BENCHMARK
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PREPARED BY:

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TRAILS AT ASPEN RIDGE

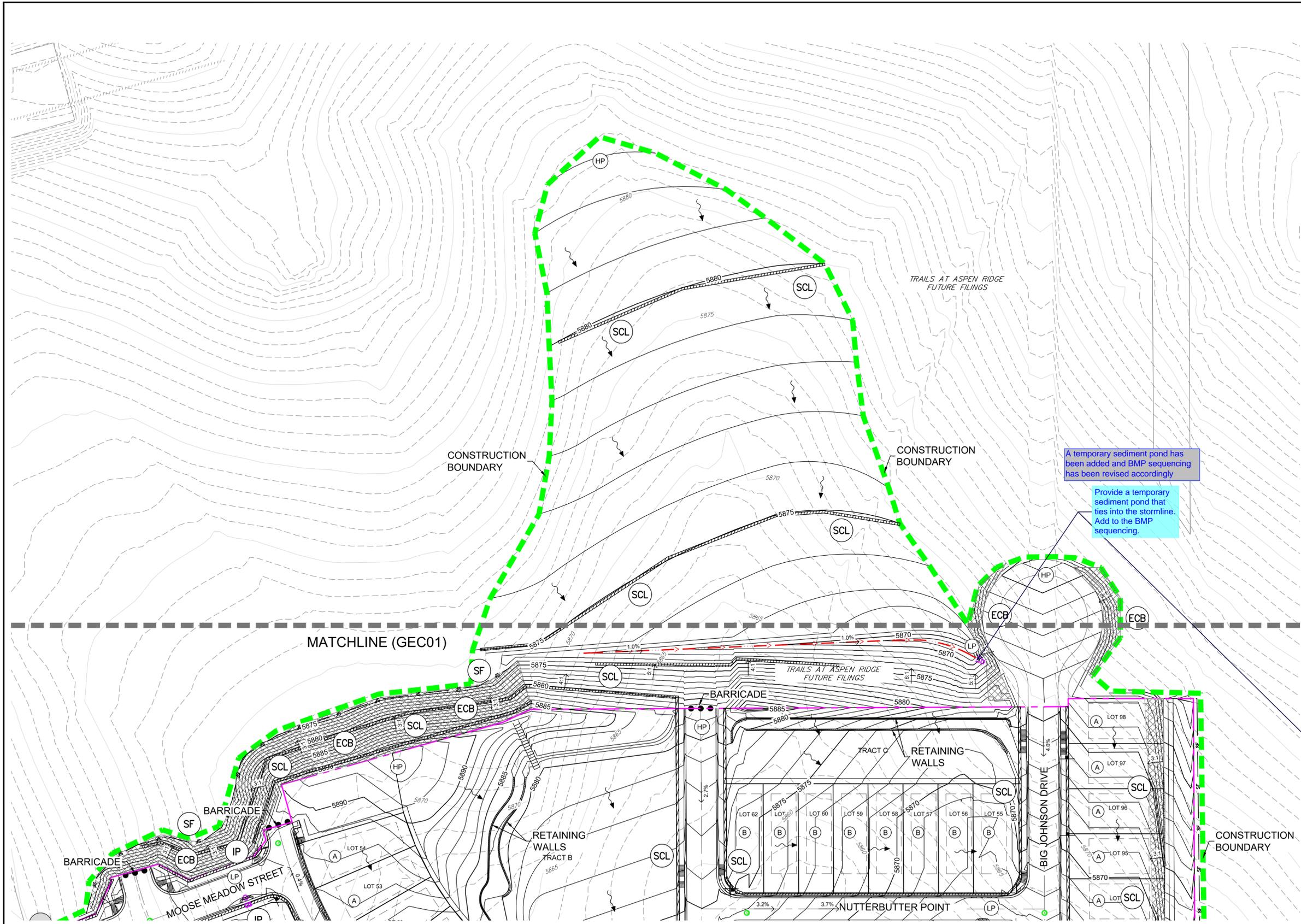
FILING NO. 2
 FINAL GRADING & EROSION CONTROL PLANS

GRADING & EROSION CONTROL PLAN

| | | | | | | | |
|--------------|-----|-----------|---------------|--------------|---------------|-------------|-------|
| DESIGNED BY: | NMS | SCALE: | HORIZ. 1"=50' | DATE ISSUED: | NOVEMBER 2019 | DRAWING No. | GEC02 |
| CHECKED BY: | NMS | VERT. N/A | SHEET | 5 OF 8 | | | |



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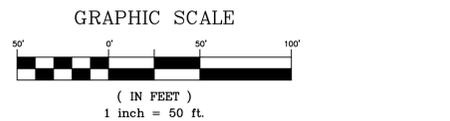
- EXISTING BMP INSTALLED DURING THE FINAL GRADING OF FILING NO. 1
- HIGH POINT/LOW POINT
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- PROPERTY BOUNDARY
- CONSTRUCTION BOUNDARY LINE

A temporary sediment pond has been added and BMP sequencing has been revised accordingly

Provide a temporary sediment pond that ties into the stormline. Add to the BMP sequencing.

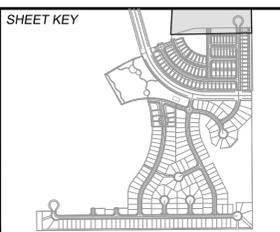
- (A) LOT DRAINS TO STREET
- (B) LOT DRAINS TO STREET/REAR OF LOT
- (T) LOT DRAINAGE VARIES
- (G) GARDEN LEVEL BASEMENT
- (W) WALK OUT BASEMENT

| BMP SEQUENCING | |
|----------------|--|
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| X-886-PR UTIL | ### | ### | ### |
| X-886-PR SITE-F2 | ### | ### | ### |
| 886-PR Legacy Drive | ### | ### | ### |
| X-886-PR SITE_F1 | ### | ### | ### |
| X-886-PR UTIL-F2 | ### | ### | ### |

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PRELIMINARY
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| TRAILS AT ASPEN RIDGE | | | |
|---------------------------------------|---------------|----------------------------|-------------------|
| FILING NO. 2 | | | |
| FINAL GRADING & EROSION CONTROL PLANS | | | |
| GRADING & EROSION CONTROL PLAN | | | |
| DESIGNED BY: NMS | SCALE: 1"=50' | DATE ISSUED: NOVEMBER 2019 | DRAWING No. GEC03 |
| CHECKED BY: NMS | HORIZ: N/A | SHEET 6 OF 8 | |



Know what's below.
Call before you dig.

ECB

ECB-3. OUTSIDE OF DRAINAGEWAY

STAKING PATTERNS BY ECB TYPE

STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

| TYPE | COCONUT CONTENT | STRAW CONTENT | EXCELSIOR CONTENT | RECOMMENDED NETTING ** |
|---------------|-----------------|---------------|-------------------|------------------------|
| STRAW * | - | 100% | - | DOUBLE/ NATURAL |
| STRAW-COCONUT | 30% MIN | 70% MAX | - | DOUBLE/ NATURAL |
| COCONUT | 100% | - | - | DOUBLE/ NATURAL |
| EXCELSIOR | - | - | 100% | DOUBLE/ NATURAL |

* STRAW ECBs MAY ONLY BE USED OUTSIDE OF STREAMS AND DRAINAGE CHANNELS.
** ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS.

EROSION CONTROL BLANKET

INSTALLATION NOTES:

- SEE PLAN VIEW FOR:
 - LOCATION OF ECB.
 - TYPE OF ECB (STRAW, STRAW-COCONUT, COCONUT, EXCELSIOR).
 - AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
- 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR ECBs. ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
- IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE BLANKET.
- PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
- JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
- INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
- OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
- MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
- ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEEDED AND MULCHED.
- DETAILS ON DESIGN PLAND FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

MAINTENANCE NOTES:

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
- ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO CREATED A VOID UNDER THE BLANKET, OR THAT REMAIN DEVOID OF GRASS SHALL BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.

Figure EC-6
Rolled Erosion Control Product
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

CWA

CONCRETE WASHOUT AREA

CONCRETE WASHOUT AREA PLAN

SECTION A

Figure CWA-3
Concrete Washout Area
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3

CWA INSTALLATION NOTES:

- SEE PLAN VIEW FOR:
 - CWA INSTALLATION LOCATION
- DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATER BODY. DO NOT LOCATE WITHIN 1000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE AREA SHOULD BE USED.
- THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
- THE CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8" BY 8". SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
- BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
- VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
- SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
- USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

IP

TEMPORARY INLET PROTECTION IP-1

INSTALLATION NOTES:

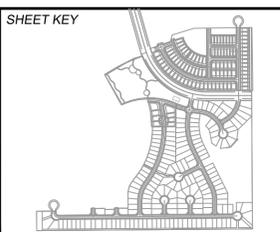
- SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
- CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW, ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB
- GRAVEL BAGS SHALL BE PLACED AROUND CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINED TOGETHER IN ACCORDANCE WITH ROCK SOCK DESIGN DETAIL.

Figure IP-1
Temporary Inlet Protection
Urban Drainage and Flood Control District

Please provide the stock pile and staging area BMP details

Details have been added

| REFERENCE DRAWINGS | ### | ### | ### | ### | ### |
|---|------|-------------|-----|-----|-----|
| GEC Titleblock | ### | ### | ### | ### | ### |
| No. | DATE | DESCRIPTION | | | BY |
| REVISIONS | | | | | |
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PREPARED BY:

PRELIMINARY
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FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 19.886.014

| TRAILS AT ASPEN RIDGE | | | | |
|---|-----|--------|--------------|---------------|
| FILING NO. 2 FINAL GRADING & EROSION CONTROL PLANS | | | | |
| EROSION CONTROL DETAILS | | | | |
| DESIGNED BY: | NMS | SCALE: | DATE ISSUED: | NOVEMBER 2019 |
| DRAWN BY: | CRD | HORIZ: | N/A | DRAWING No. |
| CHECKED BY: | NMS | VERT: | N/A | 8 OF 8 |
| | | | | ECN02 |