

# BLACK HILLS ENERGY - HWY 94 ENOCH RD - MAYBERRY

## GRADING AND EROSION CONTROL PLAN EL PASO COUNTY, COLORADO OCTOBER, 2021

EPC STORMWATER REVIEW COMMENTS  
IN ORANGE BOXES WITH BLACK TEXT

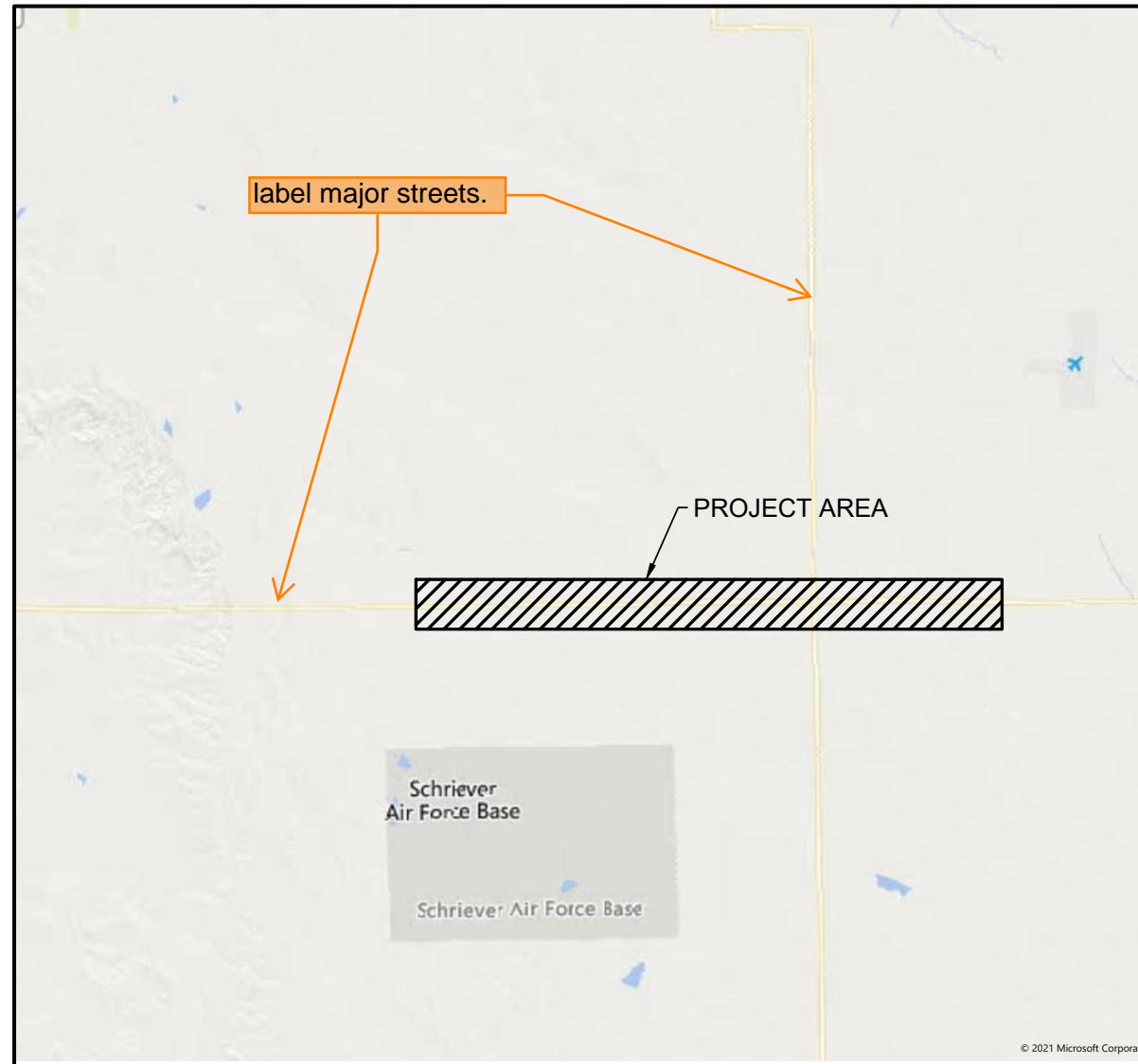


FOR  
COUNTY  
REVIEW



**BLACK HILLS ENERGY  
HWY 94 ENOCH RD - MAYBERRY  
GEC PLAN  
EL PASO COUNTY, CO**

DRAWING INDEX	
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02	GENERAL NOTES & QUANTITIES
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**DESIGN 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 PLAN.

\_\_\_\_\_  
[NAME, P.E. #] DATE

**OWNER/DEVELOPER'S STATEMENT:**

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

\_\_\_\_\_  
[NAME, TITLE]  
[BUSINESS NAME] DATE  
[ADDRESS]

**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

PROJECT NAME: COLORADO ELECTRIC - MAYBERRY 6" LINE  
PROJECT ADDRESS: EL PASO COUNTY, CO

OWNER ADDRESS: BLACK HILLS ENERGY  
1301 W 24TH ST  
CHEYENNE, WY 82001

DESIGN FIRM'S NAME AND ADDRESS: APEX COMPANIES  
209 MAIN ST, UNIT A  
MEAD, CO 80542  
PH: (307) 755-3485  
DAVID CUMMINGS, P.E.

REVISION HISTORY:		
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:	
DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC

PROJECT NUMBER:  
448.2108  
SHEET TITLE:

COVER SHEET

ISSUE DATE:  
10-13-2021  
SHEET NUMBER:

01

Add text:  
PCD Filing No.:  
CDR2117

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STANDARD NOTES FOR EL PASO COUNTY, CO GRADING AND EROSION CONTROL PLANS

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE 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 (SWMP) 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.
- COMPACTION 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 THE NATURAL RESOURCES CONSERVATION

SERVICE (NRCS) WEBSOIL SURVEY TOOL, 8/19/2021, 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 UNIT

QUANTITY TAKE-OFF SHEET		
ITEM	QTY	UNIT
VTC	16	EA
PERMANENT SEEDING	31.2	AC
SILT FENCE	3041	LF



FOR COUNTY REVIEW



BLACK HILLS ENERGY  
HWY 94 ENOCH RD - MAYBERRY  
GEC PLAN  
EL PASO COUNTY, CO

Revise these notes to match those shown in the GEC Checklist.

REVISION HISTORY:		
NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:	
DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC

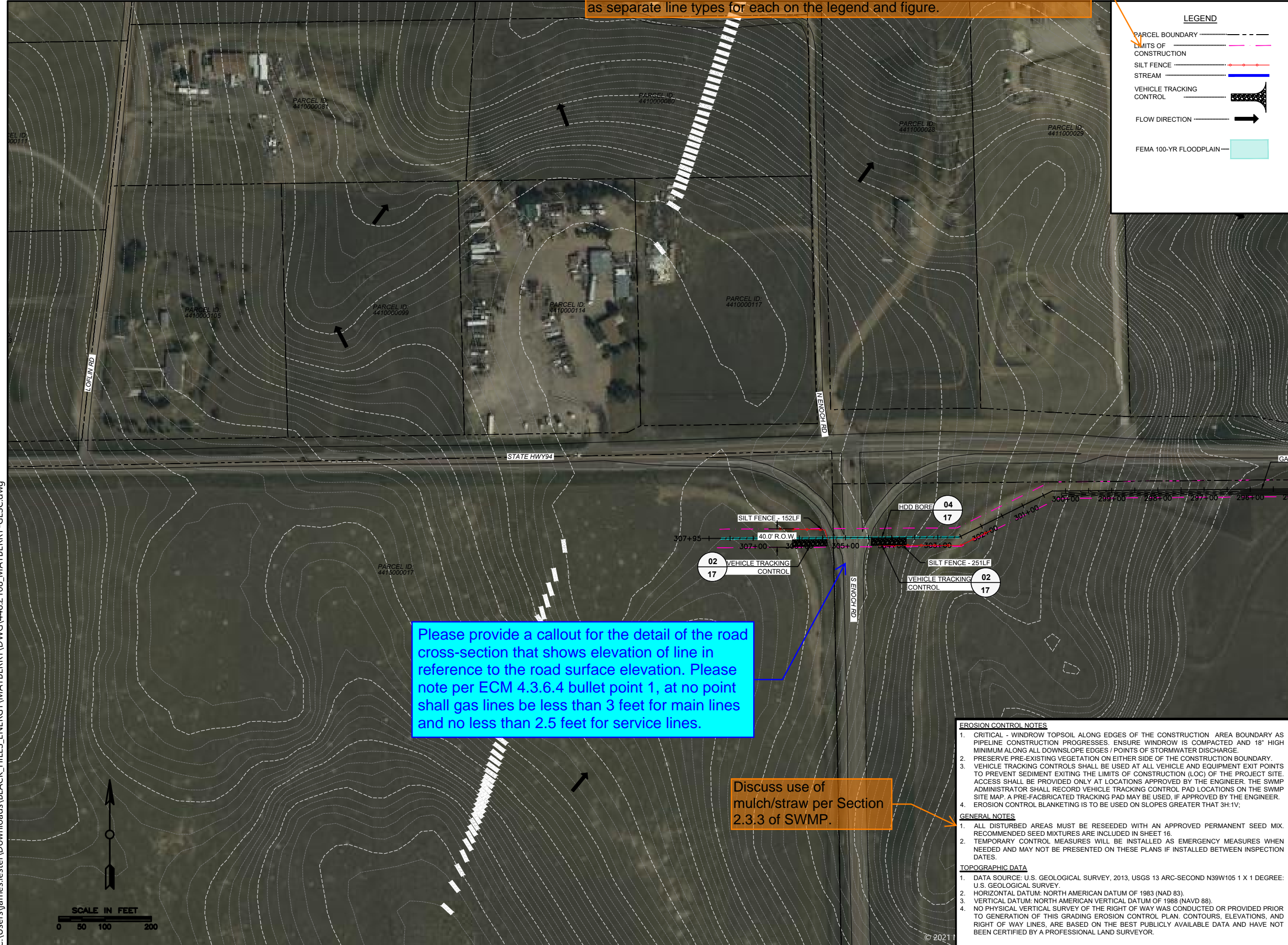
PROJECT NUMBER:  
448.2108  
SHEET TITLE:

GENERAL NOTES & QUANTITIES

ISSUE DATE:  
10-13-2021

SHEET NUMBER:  
02

Checklist Items H and M If "limits of disturbance" and "construction boundary" are the same, change to "limits of construction/disturbance" or otherwise show as separate line types for each on the legend and figure.



**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	03

Please provide a callout for the detail of the road cross-section that shows elevation of line in reference to the road surface elevation. Please note per ECM 4.3.6.4 bullet point 1, at no point shall gas lines be less than 3 feet for main lines and no less than 2.5 feet for service lines.

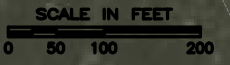
Discuss use of mulch/straw per Section 2.3.3 of SWMP.

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
  - PRESERVE PRE-EXISTING VEGETATION ON EITHER SIDE OF THE CONSTRUCTION BOUNDARY.
  - VEHICLE TRACKING CONTROLS SHALL BE USED AT ALL VEHICLE AND EQUIPMENT EXIT POINTS TO PREVENT SEDIMENT EXITING THE LIMITS OF CONSTRUCTION (LOC) OF THE PROJECT SITE. ACCESS SHALL BE PROVIDED ONLY AT LOCATIONS APPROVED BY THE ENGINEER. THE SWMP ADMINISTRATOR SHALL RECORD VEHICLE TRACKING CONTROL PAD LOCATIONS ON THE SWMP SITE MAP. A PRE-FABRICATED TRACKING PAD MAY BE USED, IF APPROVED BY THE ENGINEER.
  - EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES GREATER THAN 3H:1V;

- GENERAL NOTES**
- ALL DISTURBED AREAS MUST BE RESEEDED WITH AN APPROVED PERMANENT SEED MIX. RECOMMENDED SEED MIXTURES ARE INCLUDED IN SHEET 16.
  - TEMPORARY CONTROL MEASURES WILL BE INSTALLED AS EMERGENCY MEASURES WHEN NEEDED AND MAY NOT BE PRESENTED ON THESE PLANS IF INSTALLED BETWEEN INSPECTION DATES.

- TOPOGRAPHIC DATA**
- DATA SOURCE: U.S. GEOLOGICAL SURVEY, 2013, USGS 13 ARC-SECOND N39W105 1 X 1 DEGREE: U.S. GEOLOGICAL SURVEY.
  - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD 83).
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - NO PHYSICAL VERTICAL SURVEY OF THE RIGHT OF WAY WAS CONDUCTED OR PROVIDED PRIOR TO GENERATION OF THIS GRADING EROSION CONTROL PLAN. CONTOURS, ELEVATIONS, AND RIGHT OF WAY LINES, ARE BASED ON THE BEST PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.

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For your information:  
Upon approval El Paso County will have a condition that easements will be required prior to construction.

**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



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MAYBERRY 6" LINE  
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BLACK HILLS ENERGY  
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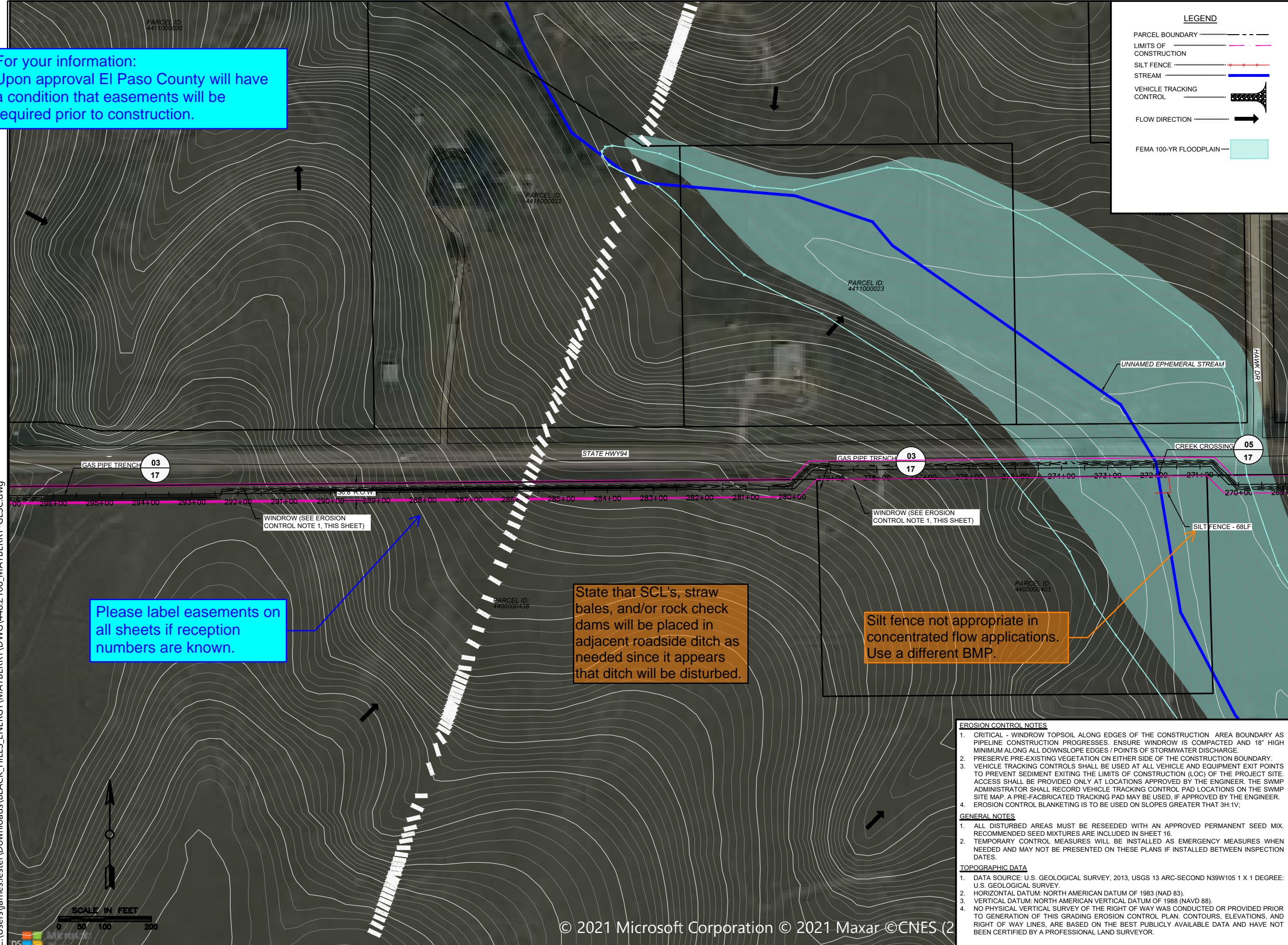
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Please label easements on all sheets if reception numbers are known.

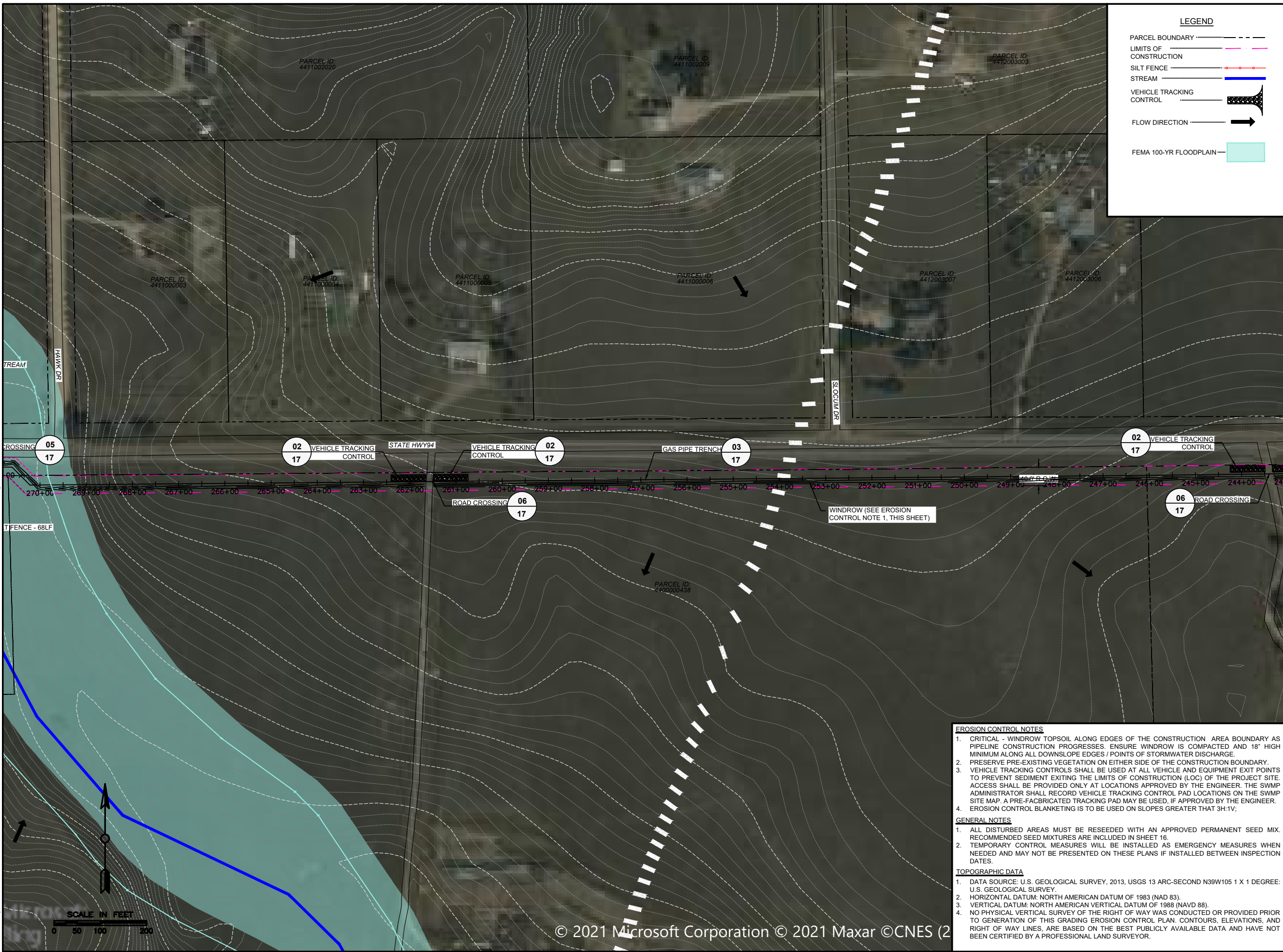
State that SCL's, straw bales, and/or rock check dams will be placed in adjacent roadside ditch as needed since it appears that ditch will be disturbed.

Silt fence not appropriate in concentrated flow applications. Use a different BMP.

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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
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**FOR COUNTY REVIEW**



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MAYBERRY 6" LINE  
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EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

**GEC PLAN**

ISSUE DATE:  
10-13-2021

SHEET NUMBER:  
**06**

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
  - PRESERVE PRE-EXISTING VEGETATION ON EITHER SIDE OF THE CONSTRUCTION BOUNDARY.
  - VEHICLE TRACKING CONTROLS SHALL BE USED AT ALL VEHICLE AND EQUIPMENT EXIT POINTS TO PREVENT SEDIMENT EXITING THE LIMITS OF CONSTRUCTION (LOC) OF THE PROJECT SITE. ACCESS SHALL BE PROVIDED ONLY AT LOCATIONS APPROVED BY THE ENGINEER. THE SWAMP ADMINISTRATOR SHALL RECORD VEHICLE TRACKING CONTROL PAD LOCATIONS ON THE SWAMP SITE MAP. A PRE-FABRICATED TRACKING PAD MAY BE USED, IF APPROVED BY THE ENGINEER.
  - EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES GREATER THAN 3H:1V;
- GENERAL NOTES**
- ALL DISTURBED AREAS MUST BE RESEEDED WITH AN APPROVED PERMANENT SEED MIX. RECOMMENDED SEED MIXTURES ARE INCLUDED IN SHEET 16.
  - TEMPORARY CONTROL MEASURES WILL BE INSTALLED AS EMERGENCY MEASURES WHEN NEEDED AND MAY NOT BE PRESENTED ON THESE PLANS IF INSTALLED BETWEEN INSPECTION DATES.
- TOPOGRAPHIC DATA**
- DATA SOURCE: U.S. GEOLOGICAL SURVEY, 2013, USGS 13 ARC-SECOND N39W105 1 X 1 DEGREE: U.S. GEOLOGICAL SURVEY.
  - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD 83).
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - NO PHYSICAL VERTICAL SURVEY OF THE RIGHT OF WAY WAS CONDUCTED OR PROVIDED PRIOR TO GENERATION OF THIS GRADING EROSION CONTROL PLAN. CONTOURS, ELEVATIONS, AND RIGHT OF WAY LINES, ARE BASED ON THE BEST PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.

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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

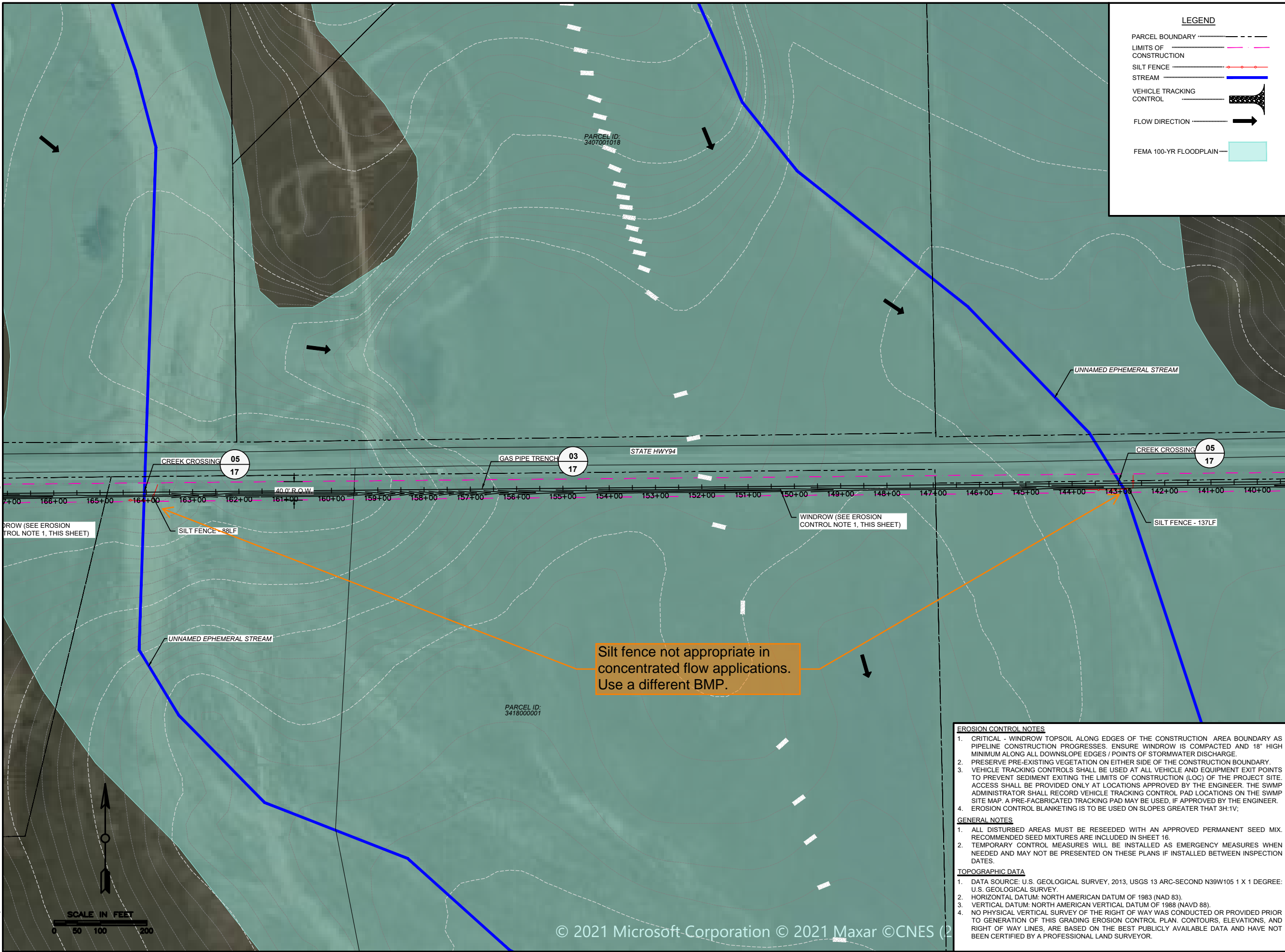
PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	07

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
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  - VEHICLE TRACKING CONTROLS SHALL BE USED AT ALL VEHICLE AND EQUIPMENT EXIT POINTS TO PREVENT SEDIMENT EXITING THE LIMITS OF CONSTRUCTION (LOC) OF THE PROJECT SITE. ACCESS SHALL BE PROVIDED ONLY AT LOCATIONS APPROVED BY THE ENGINEER. THE SWMP ADMINISTRATOR SHALL RECORD VEHICLE TRACKING CONTROL PAD LOCATIONS ON THE SWMP SITE MAP. A PRE-FABRICATED TRACKING PAD MAY BE USED, IF APPROVED BY THE ENGINEER.
  - EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES GREATER THAN 3H:1V.
- GENERAL NOTES**
- ALL DISTURBED AREAS MUST BE RESEEDING WITH AN APPROVED PERMANENT SEED MIX. RECOMMENDED SEED MIXTURES ARE INCLUDED IN SHEET 16.
  - TEMPORARY CONTROL MEASURES WILL BE INSTALLED AS EMERGENCY MEASURES WHEN NEEDED AND MAY NOT BE PRESENTED ON THESE PLANS IF INSTALLED BETWEEN INSPECTION DATES.
- TOPOGRAPHIC DATA**
- DATA SOURCE: U.S. GEOLOGICAL SURVEY, 2013, USGS 13 ARC-SECOND N39W105 1 X 1 DEGREE: U.S. GEOLOGICAL SURVEY.
  - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD 83).
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - NO PHYSICAL VERTICAL SURVEY OF THE RIGHT OF WAY WAS CONDUCTED OR PROVIDED PRIOR TO GENERATION OF THIS GRADING EROSION CONTROL PLAN. CONTOURS, ELEVATIONS, AND RIGHT OF WAY LINES, ARE BASED ON THE BEST PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.

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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

**GEC PLAN**

ISSUE DATE:  
10-13-2021

SHEET NUMBER:  
**08**

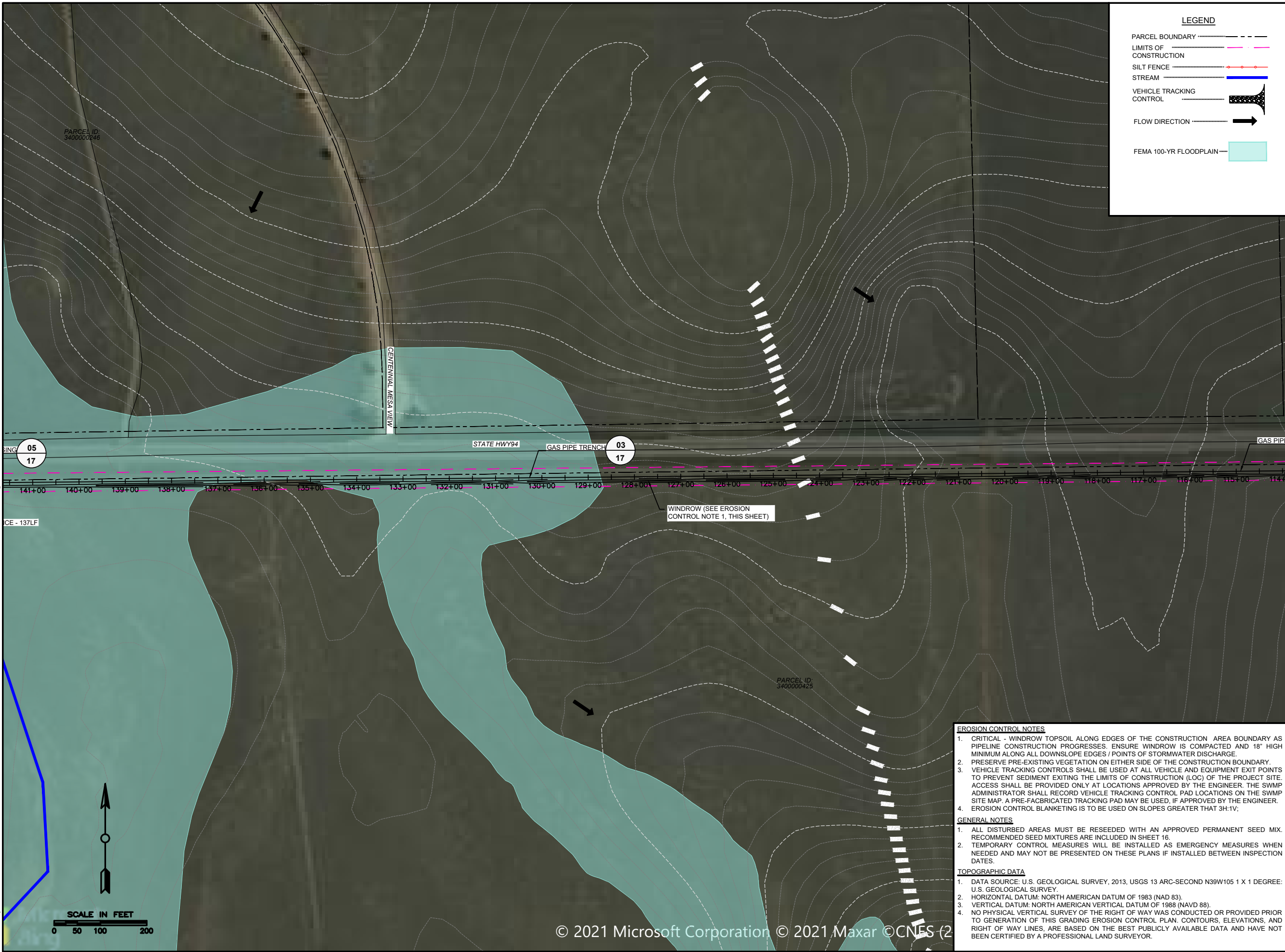
- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
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  - VEHICLE TRACKING CONTROLS SHALL BE USED AT ALL VEHICLE AND EQUIPMENT EXIT POINTS TO PREVENT SEDIMENT EXITING THE LIMITS OF CONSTRUCTION (LOC) OF THE PROJECT SITE. ACCESS SHALL BE PROVIDED ONLY AT LOCATIONS APPROVED BY THE ENGINEER. THE SWMP ADMINISTRATOR SHALL RECORD VEHICLE TRACKING CONTROL PAD LOCATIONS ON THE SWMP SITE MAP. A PRE-FABRICATED TRACKING PAD MAY BE USED, IF APPROVED BY THE ENGINEER.
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- GENERAL NOTES**
- ALL DISTURBED AREAS MUST BE RESEEDING WITH AN APPROVED PERMANENT SEED MIX. RECOMMENDED SEED MIXTURES ARE INCLUDED IN SHEET 16.
  - TEMPORARY CONTROL MEASURES WILL BE INSTALLED AS EMERGENCY MEASURES WHEN NEEDED AND MAY NOT BE PRESENTED ON THESE PLANS IF INSTALLED BETWEEN INSPECTION DATES.
- TOPOGRAPHIC DATA**
- DATA SOURCE: U.S. GEOLOGICAL SURVEY, 2013, USGS 13 ARC-SECOND N39W105 1 X 1 DEGREE: U.S. GEOLOGICAL SURVEY.
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  - NO PHYSICAL VERTICAL SURVEYING OF THE RIGHT OF WAY WAS CONDUCTED OR PROVIDED PRIOR TO GENERATION OF THIS GRADING EROSION CONTROL PLAN. CONTOURS, ELEVATIONS, AND RIGHT OF WAY LINES, ARE BASED ON THE BEST PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.

Silt fence not appropriate in concentrated flow applications. Use a different BMP.





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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	09

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	10

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
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**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	11

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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	12

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
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**FOR  
COUNTY  
REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

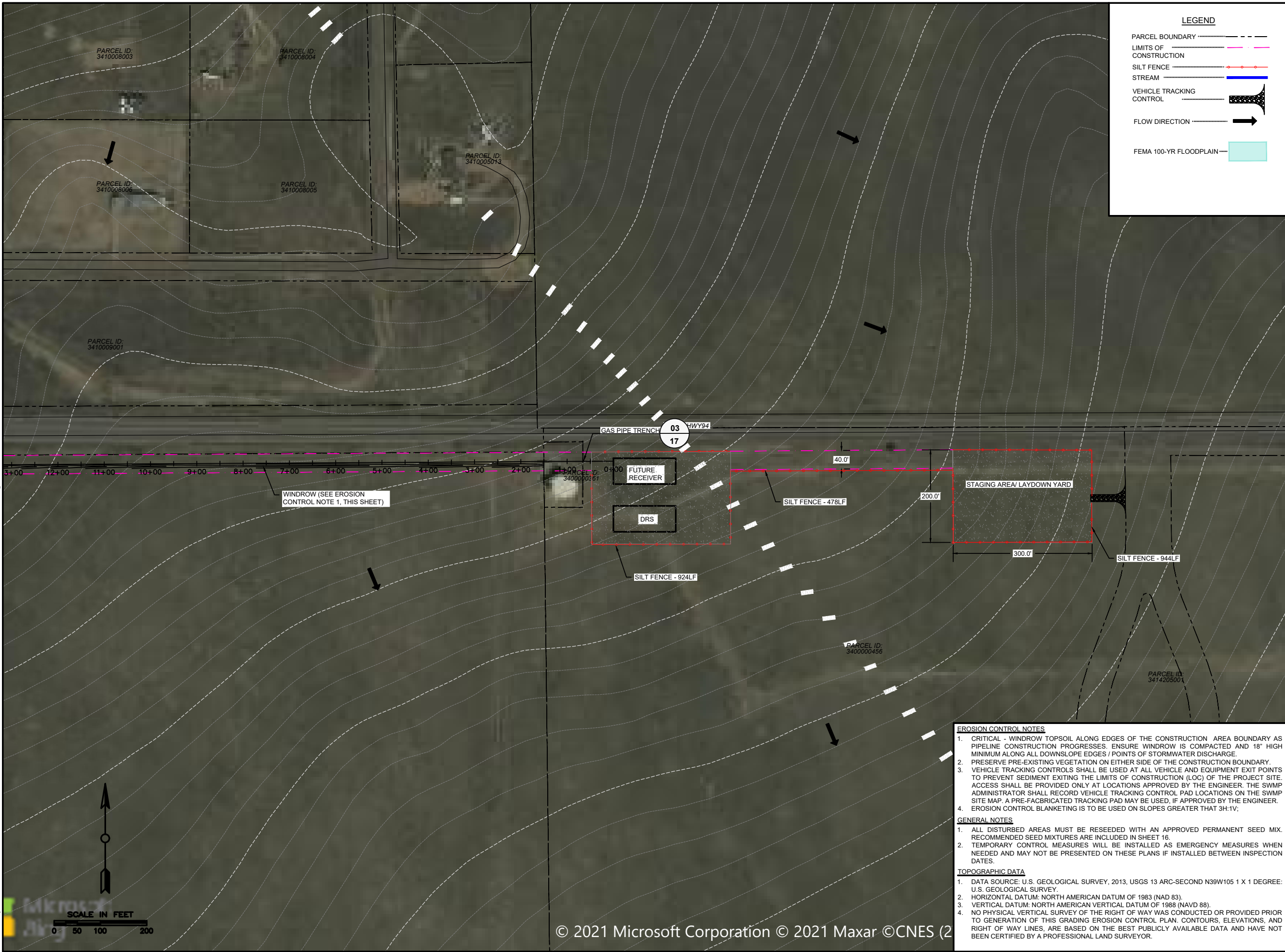
DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	13

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
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**LEGEND**

- PARCEL BOUNDARY
- LIMITS OF CONSTRUCTION
- SILT FENCE
- STREAM
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- FEMA 100-YR FLOODPLAIN



**FOR COUNTY REVIEW**



**COLORADO ELECTRIC  
MAYBERRY 6" LINE  
GEC PLAN  
BLACK HILLS ENERGY  
EL PASO COUNTY, CO**

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

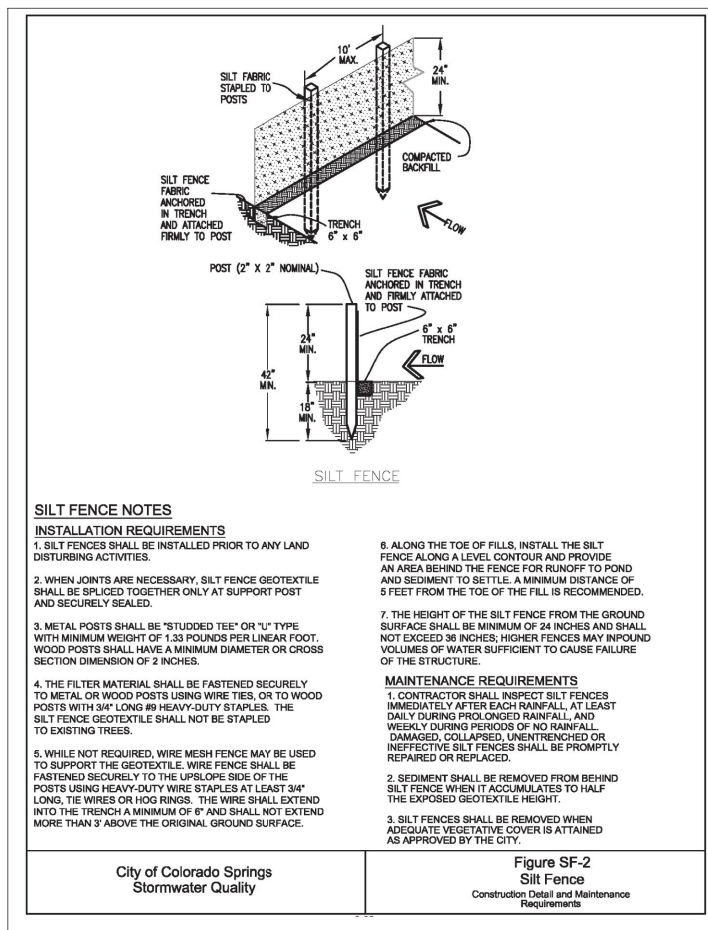
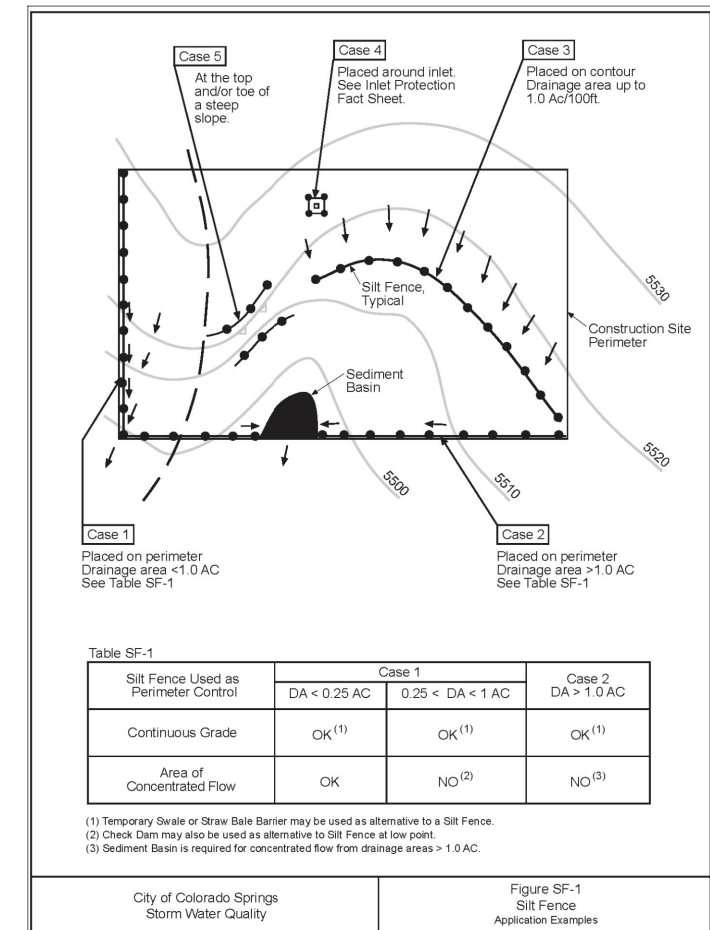
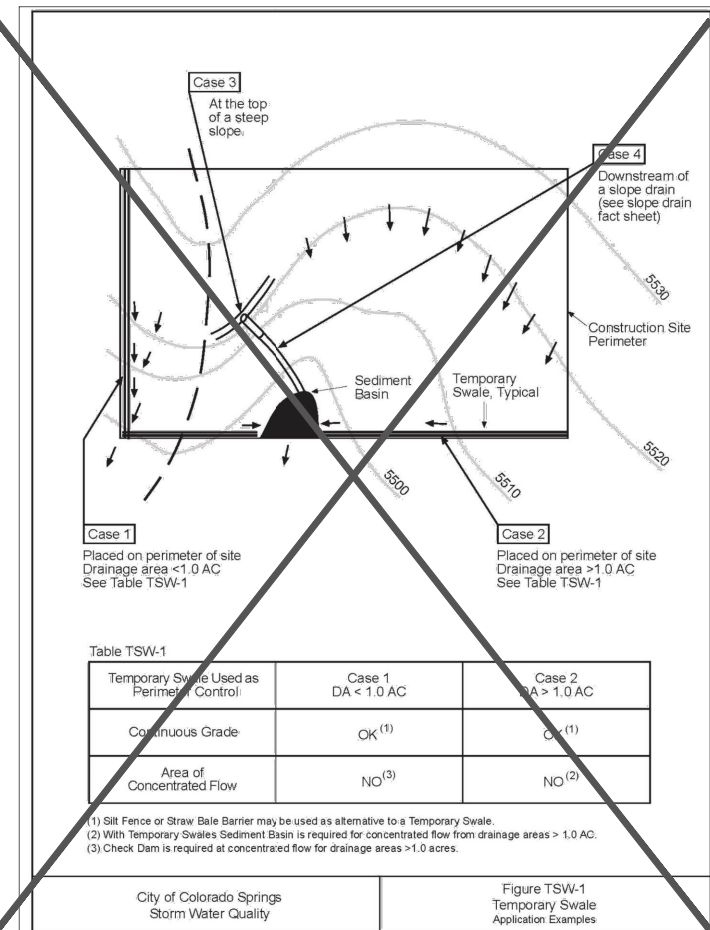
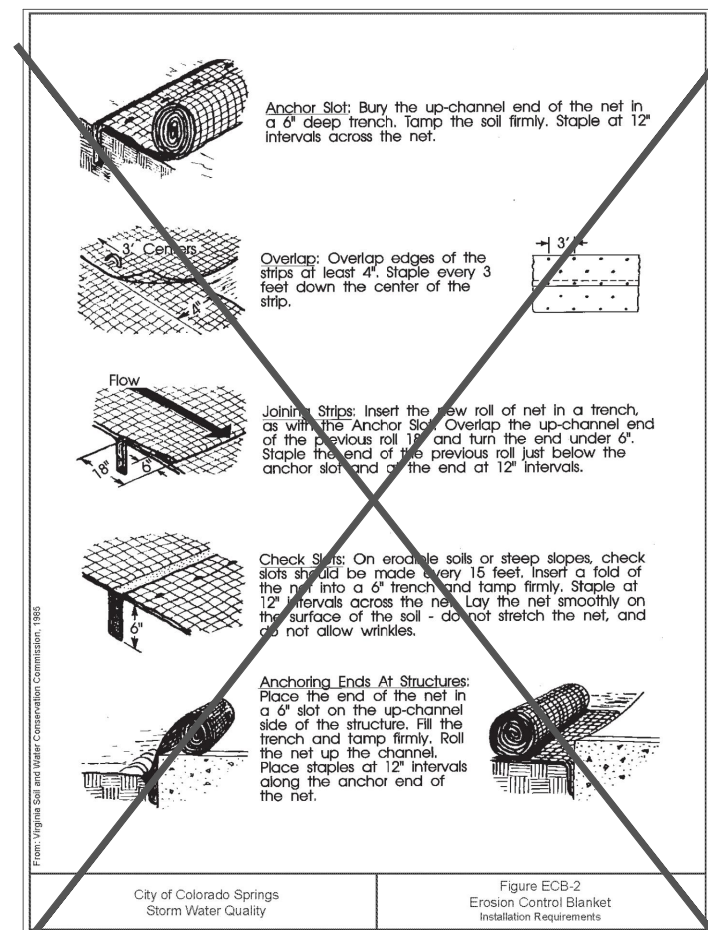
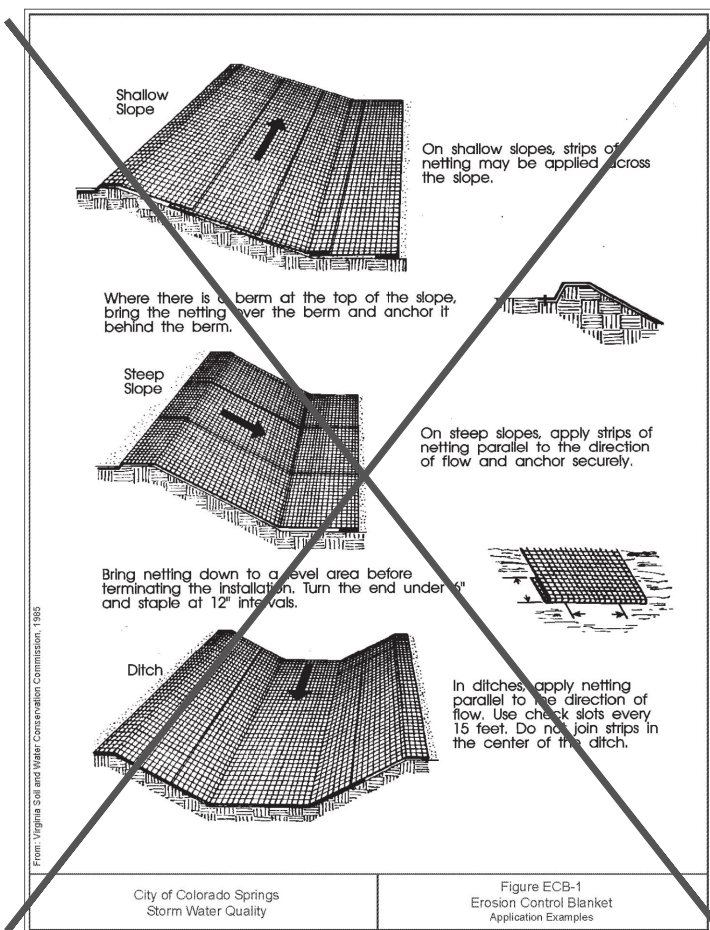
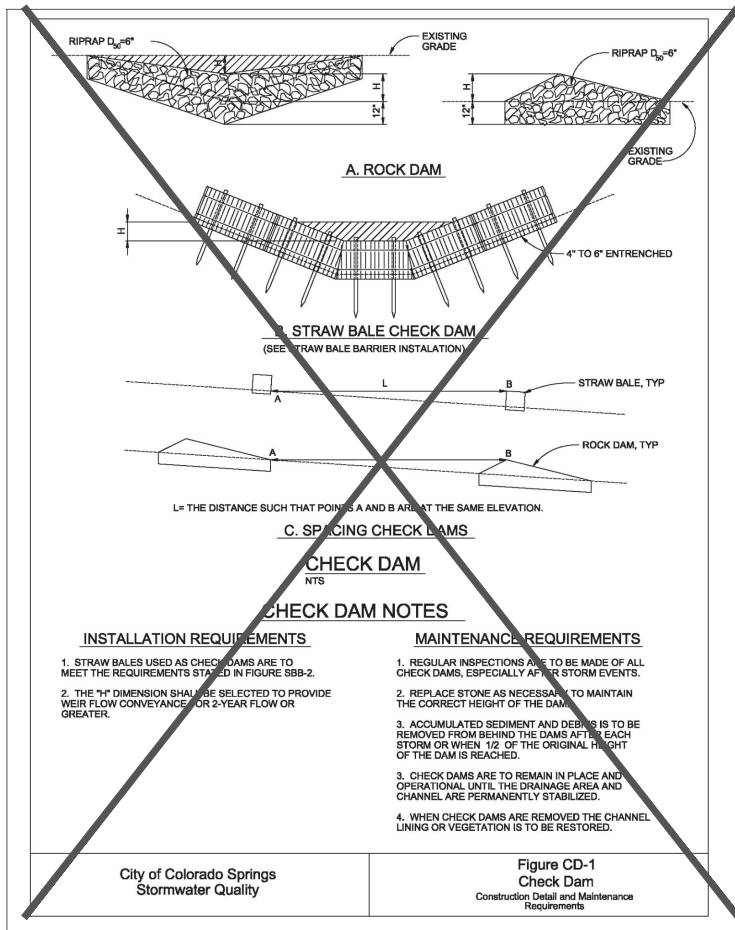
DESIGNED BY:	DC
DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	10-13-2021
SHEET NUMBER:	14

- EROSION CONTROL NOTES**
- CRITICAL - WINDROW TOPSOIL ALONG EDGES OF THE CONSTRUCTION AREA BOUNDARY AS PIPELINE CONSTRUCTION PROGRESSES. ENSURE WINDROW IS COMPACTED AND 18" HIGH MINIMUM ALONG ALL DOWNSLOPE EDGES / POINTS OF STORMWATER DISCHARGE.
  - PRESERVE PRE-EXISTING VEGETATION ON EITHER SIDE OF THE CONSTRUCTION BOUNDARY.
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- TOPOGRAPHIC DATA**
- DATA SOURCE: U.S. GEOLOGICAL SURVEY, 2013, USGS 13 ARC-SECOND N39W105 1 X 1 DEGREE: U.S. GEOLOGICAL SURVEY.
  - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD 83).
  - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - NO PHYSICAL VERTICAL SURVEY OF THE RIGHT OF WAY WAS CONDUCTED OR PROVIDED PRIOR TO GENERATION OF THIS GRADING EROSION CONTROL PLAN. CONTOURS, ELEVATIONS, AND RIGHT OF WAY LINES, ARE BASED ON THE BEST PUBLICLY AVAILABLE DATA AND HAVE NOT BEEN CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.



FOR COUNTY REVIEW



BLACK HILLS ENERGY  
HWY 94 ENOCH RD - MAYBERRY  
GEC PLAN  
EL PASO COUNTY, CO

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100%	10/13/2021

PROJECT INFORMATION:

DESIGNED BY: DC

DRAWN BY: JL

REVIEWED BY: DC

PROJECT MANAGER: DC

PROJECT NUMBER: 448.2108

SHEET TITLE: DETAILS

ISSUE DATE: 10-13-2021

SHEET NUMBER: 15

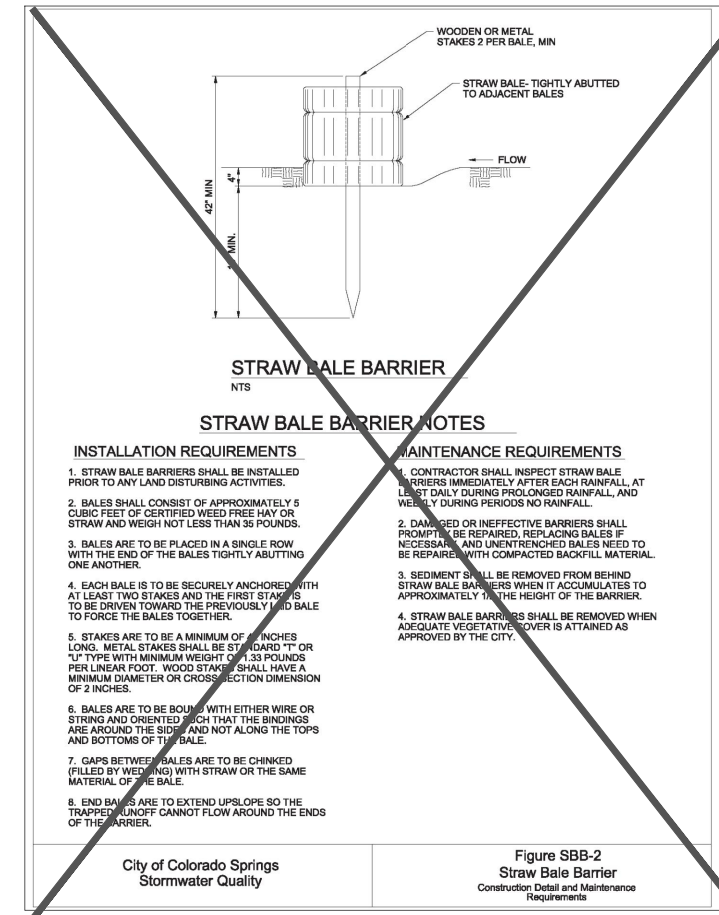
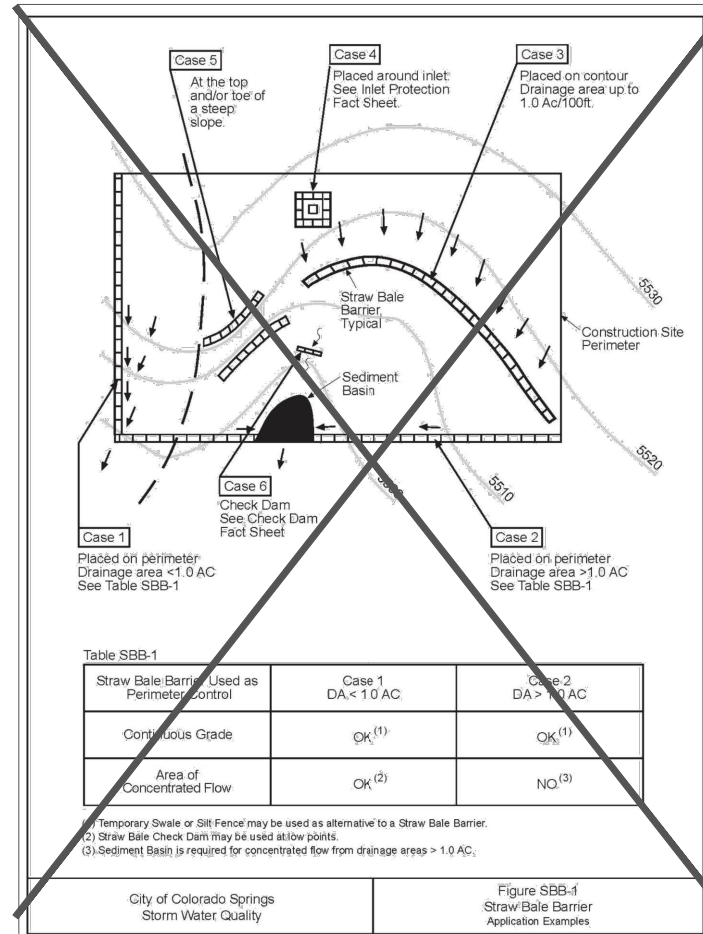
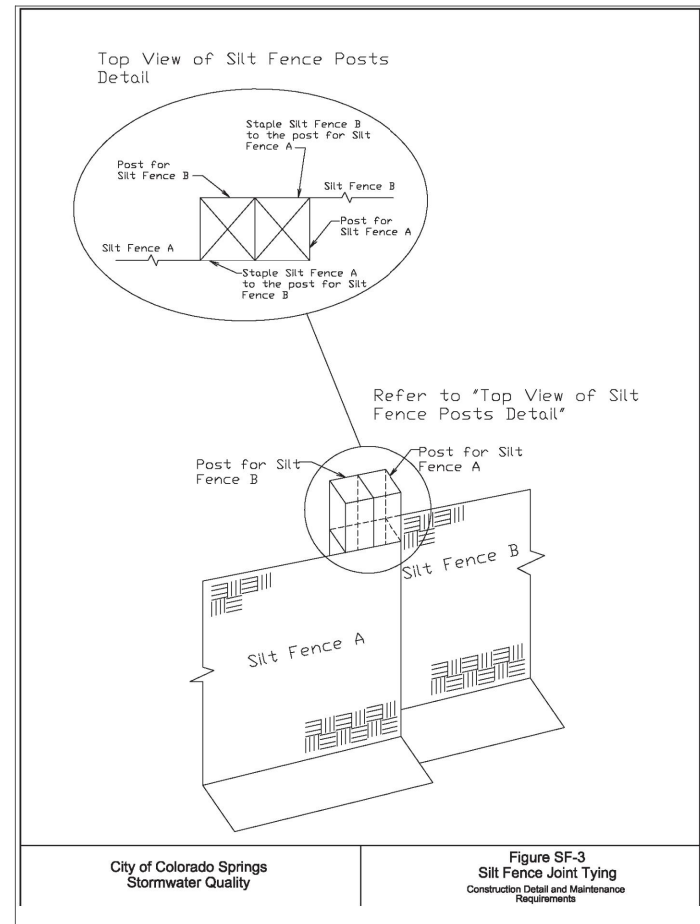
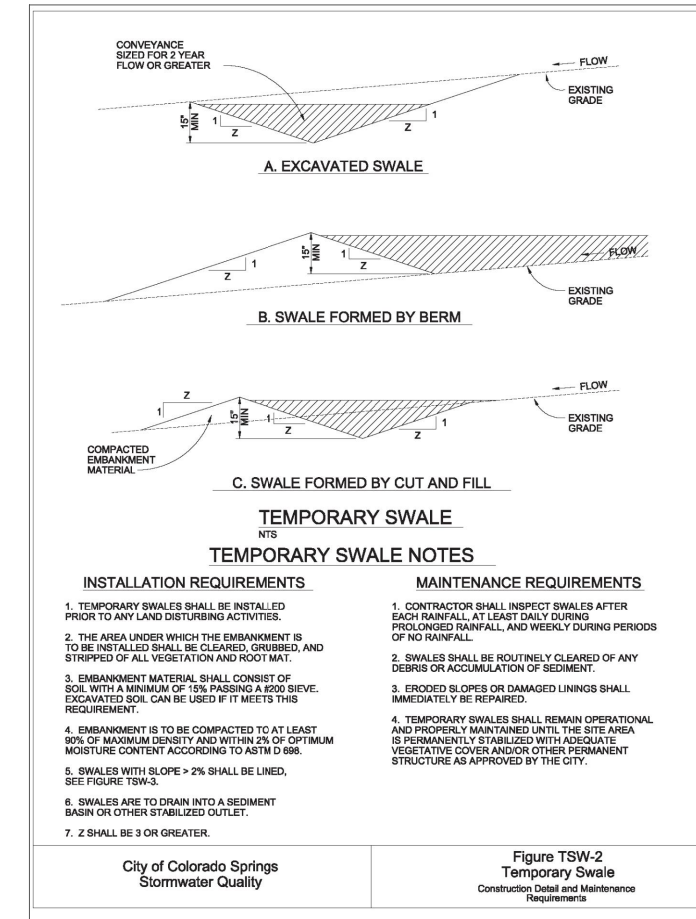
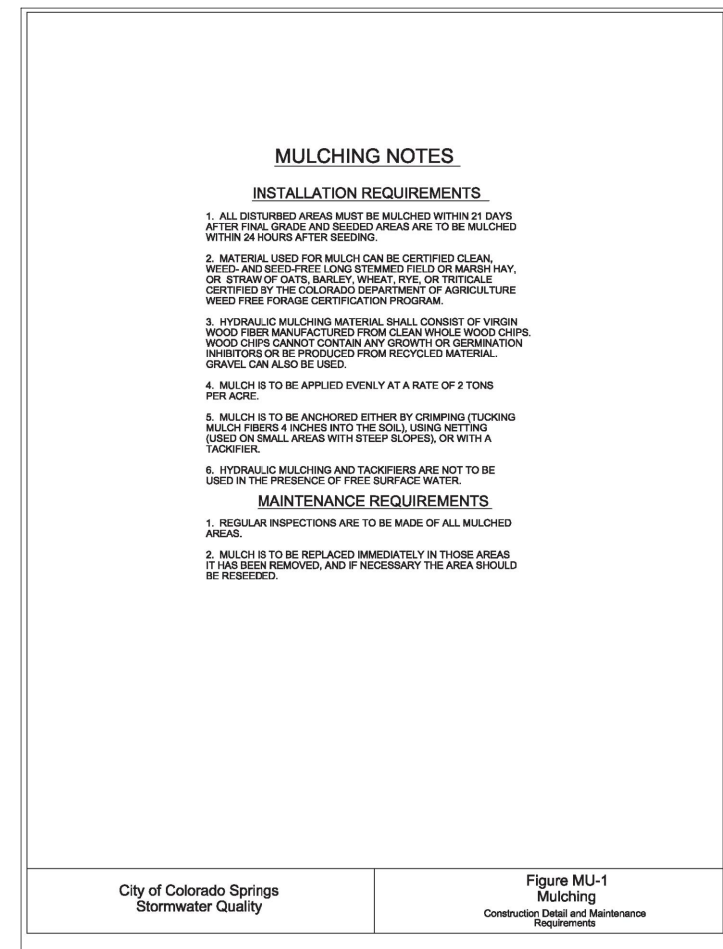


Table 5-1. El Paso County Conservation District All-Purpose Mix for Upland, Transition and Permanent Control Measure Areas

Common Name	Scientific Name	Growth Season / Form	% of Mix	Pounds PLS		
				Irrigated broadcast Irrigated hydroseeded	Non-irrigated broadcast Non-irrigated hydroseeded Irrigated drilled	Non-irrigated drilled
Bluestem, big	<i>Andropogon gerardii</i>	Warm, sod	20	4.4	2.2	1.1
Gramma, blue	<i>Bouteloua gracilis</i>	Warm, bunch	10	0.5	0.25	0.13
Green needlegrass <sup>2</sup>	<i>Nassella viridula</i>	Cool, bunch	10	2	1	0.5
Wheatgrass, western <sup>2</sup>	<i>Pascopyrum smithii</i>	Cool, sod	20	6.4	3.2	1.6
Gramma, sideoats	<i>Bouteloua curtipendula</i>	Warm, bunch	10	2	1	0.5
Switchgrass <sup>2</sup>	<i>Panicum virgatum</i>	Warm, bunch/sod	10	0.8	0.4	0.2
Prairie sandreed	<i>Calamovilfa longifolia</i>	Warm, sod	10	1.2	0.6	0.3
Yellow indiagrass <sup>2</sup>	<i>Sorghastrum nutans</i>	Warm, sod	10	2	1	0.5
Seed rate (lbs PLS/acre)				19.3	9.7	4.8

<sup>1</sup>For portions of facilities located near or on the bottom or where wet soil conditions occur. Planting of potted nursery stock wetland plants 2-foot on-center is recommended for sites with wetland hydrology.

<sup>2</sup>Species that will do well in the bottom of pond areas.



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ISSUE DATE: 10-13-2021

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**FOR  
COUNTY  
REVIEW**



**BLACK HILLS ENERGY  
HWY 94 ENOCH RD - MAYBERRY  
GEC PLAN  
EL PASO COUNTY, CO**

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PROJECT INFORMATION:

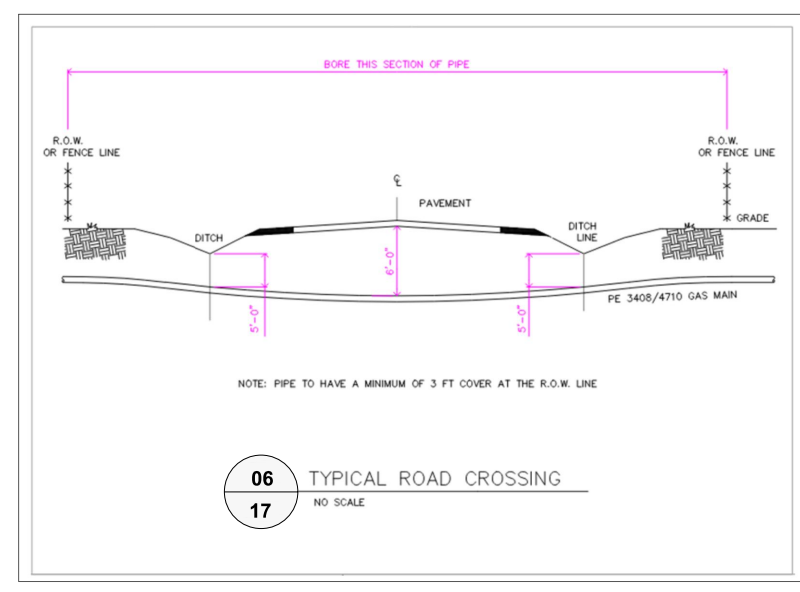
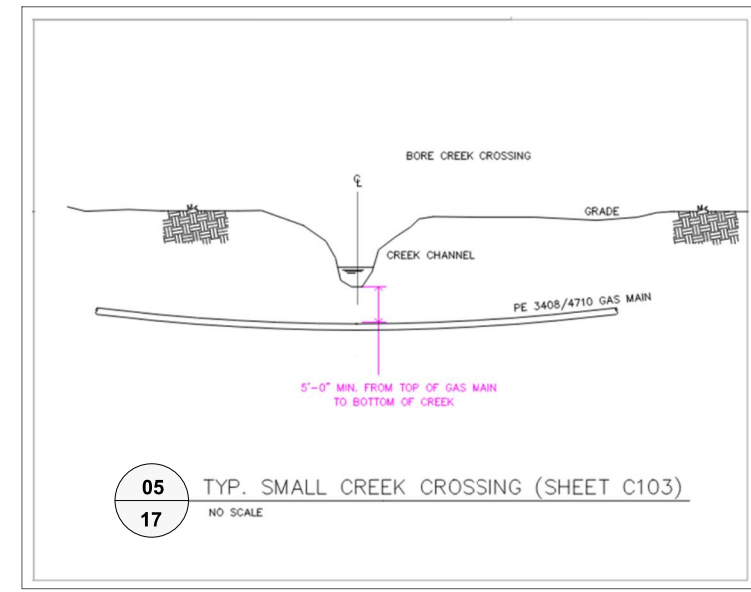
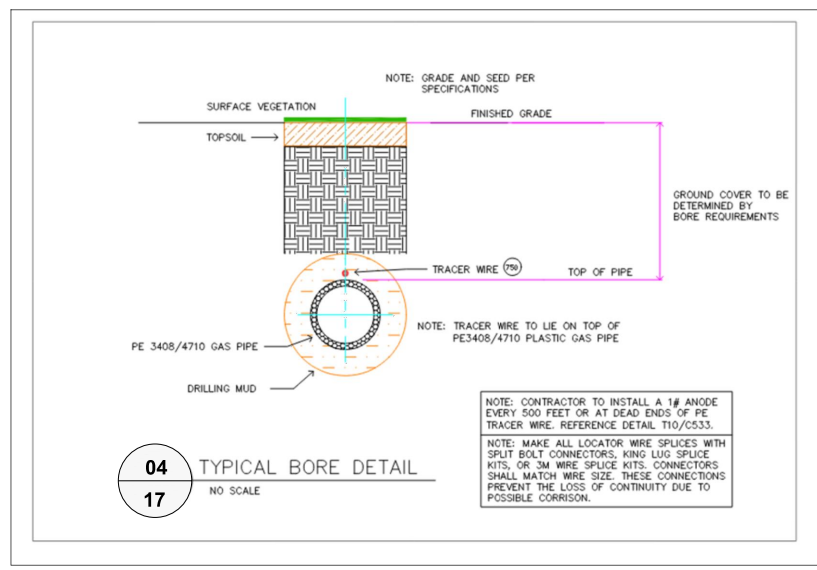
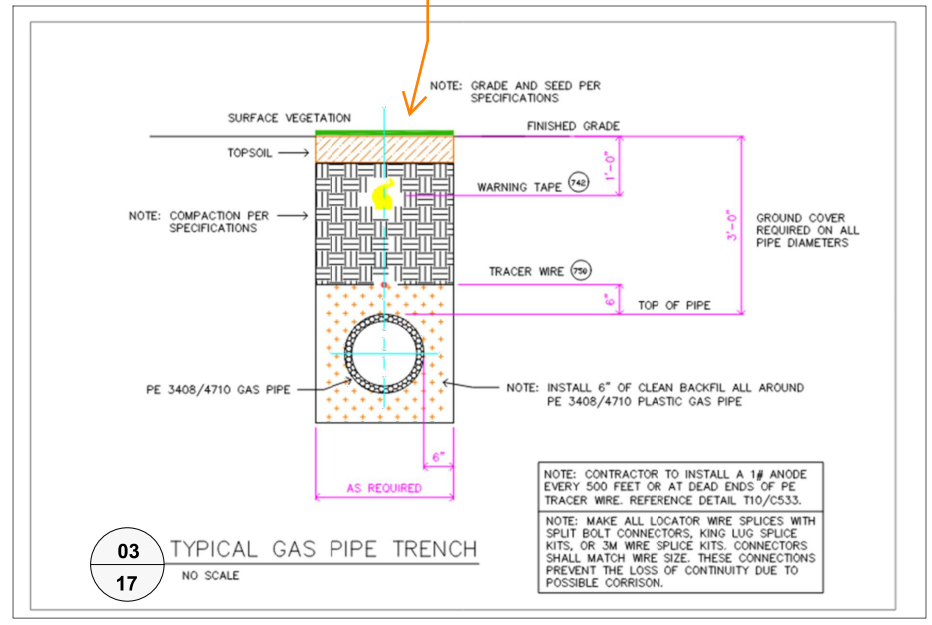
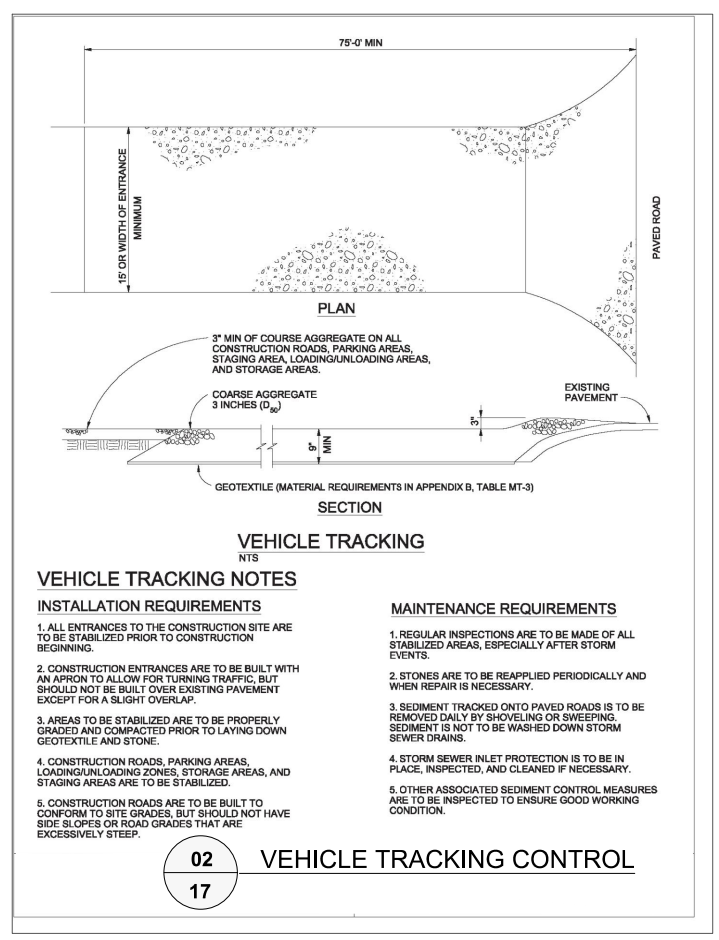
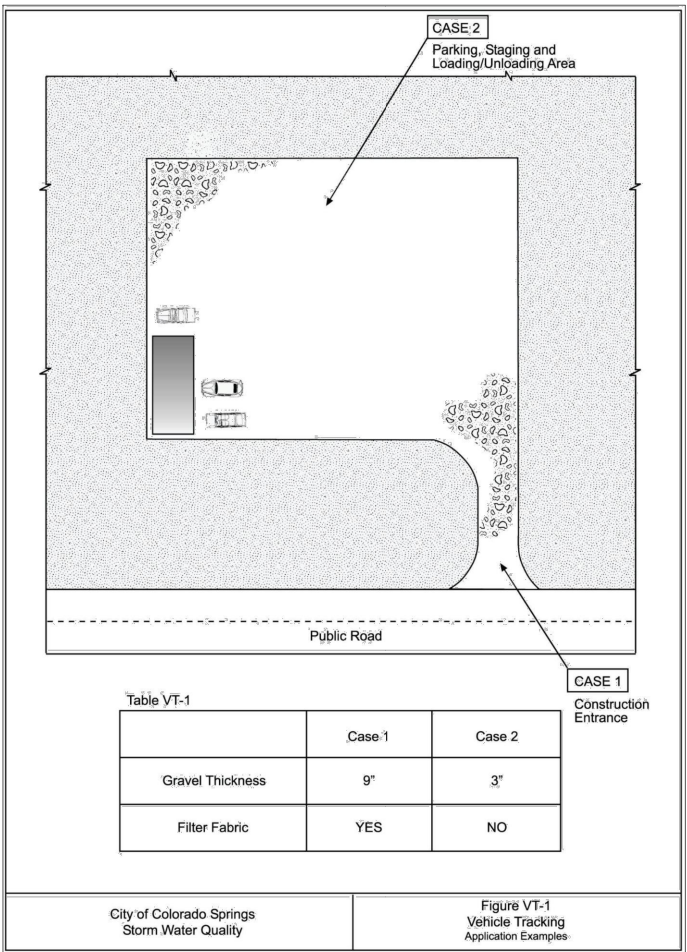
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**DETAILS**

ISSUE DATE:  
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show typical limits of 20ft dedicated easement and 20ft temp work easement. And make a note of these easements on plan sheets above.



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