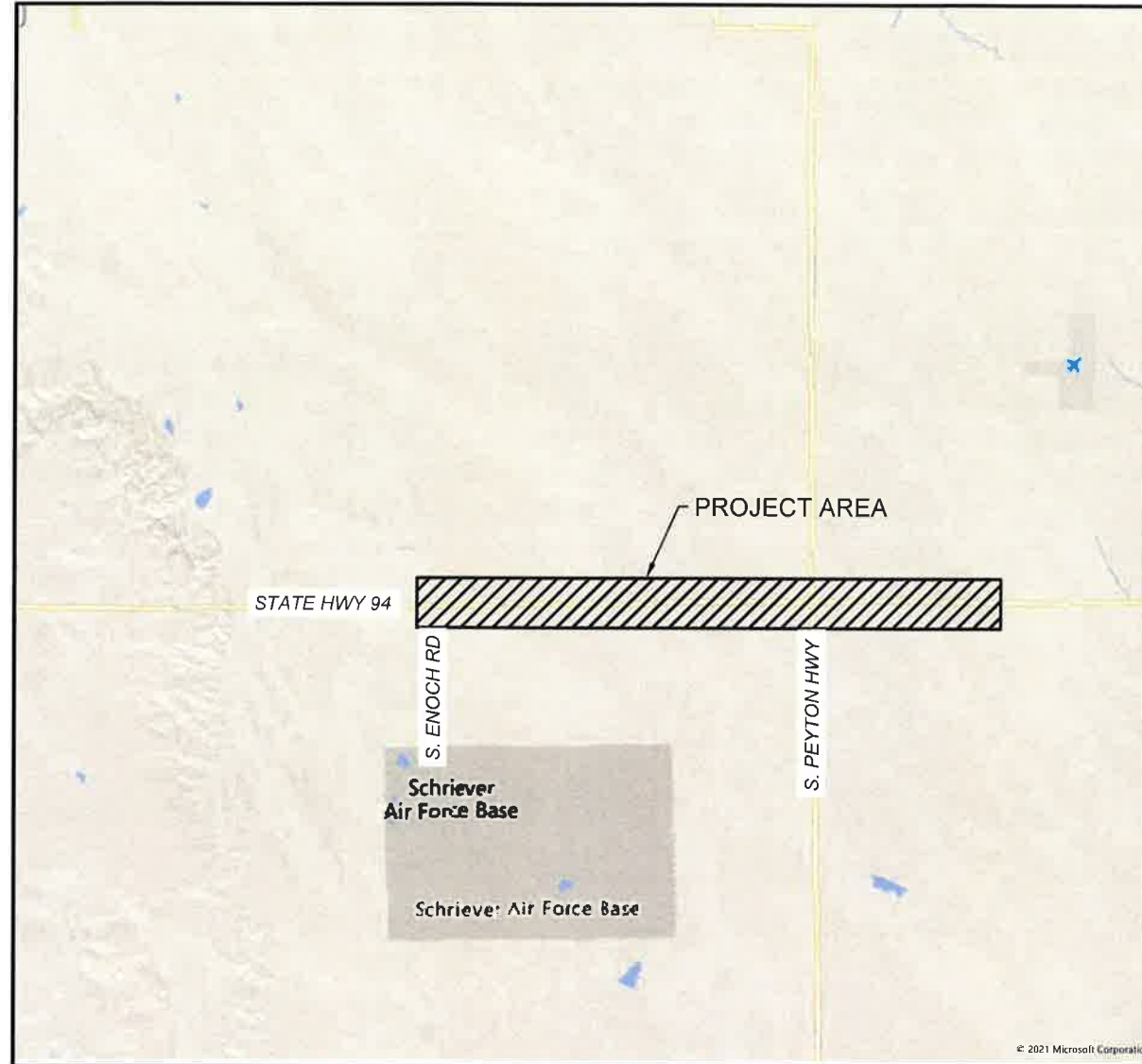


# BLACK HILLS ENERGY - HWY 94 ENOCH RD - MAYBERRY

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

DRAWING INDEX	
01	COVER SHEET
02	GENERAL NOTES & QUANTITIES
03-14	GEC PLAN
15-17	DETAILS



**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.

*David S. Cummings*  
DAVID S. CUMMINGS, P.E. #58364  
12/06/2021  
DATE

**OWNER/DEVELOPER'S STATEMENT:**

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

*Shelley H. Ashcraft*  
BLACK HILLS ENERGY  
12/7/21  
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.  
COUNTY ENGINEER / ECM ADMINISTRATOR

APPROVED  
Engineering Department  
12/29/21 3:36:19 PM  
J. Irvine  
EPC Planning & Community  
Development Department

PROJECT NAME: MAYBERRY COMMUNITIES 6" GAS MAIN EXTENSION  
PROJECT ADDRESS: EL PASO COUNTY, CO  
OWNER ADDRESS: BLACK HILLS ENERGY  
7060 ALEGRE ST  
FOUNTAIN, CO 80817  
DESIGN FIRMS NAME AND ADDRESS: APEX COMPANIES, LLC  
1746 COLE BLVD BLDG 21 STE 250 LAKEWOOD CO 80401  
PH: (303) 487-1020



**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% - FOR COUNTY	12/06/2021

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

PROJECT NUMBER:  
448.2108  
SHEET TITLE

COVER SHEET

ISSUE DATE:  
12-06-2021  
SHEET NUMBER:

01

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

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. EARTH DISTURBANCES 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 SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
11. 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.
12. 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.
13. 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.
14. DURING DEWATERING OPERATIONS, UNCONTAMINATED GROUNDWATER MAY BE DISCHARGED ON-SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
15. EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
16. 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.
17. 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. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
19. 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.
20. 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.
21. 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.
22. 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.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCH FLOW LINE.
24. 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.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS

REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

28. 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.
29. 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	2725	LF
SEDIMENT CONTROL LOG	276	LF
EROSION CONTROL BLANKET	2400	SF
TOPSOIL WINDROW	30625	LF



**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% - FOR COUNTY	12/06/2021

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

PROJECT NUMBER:  
448.2108

SHEET TITLE:  
**GENERAL NOTES & QUANTITIES**

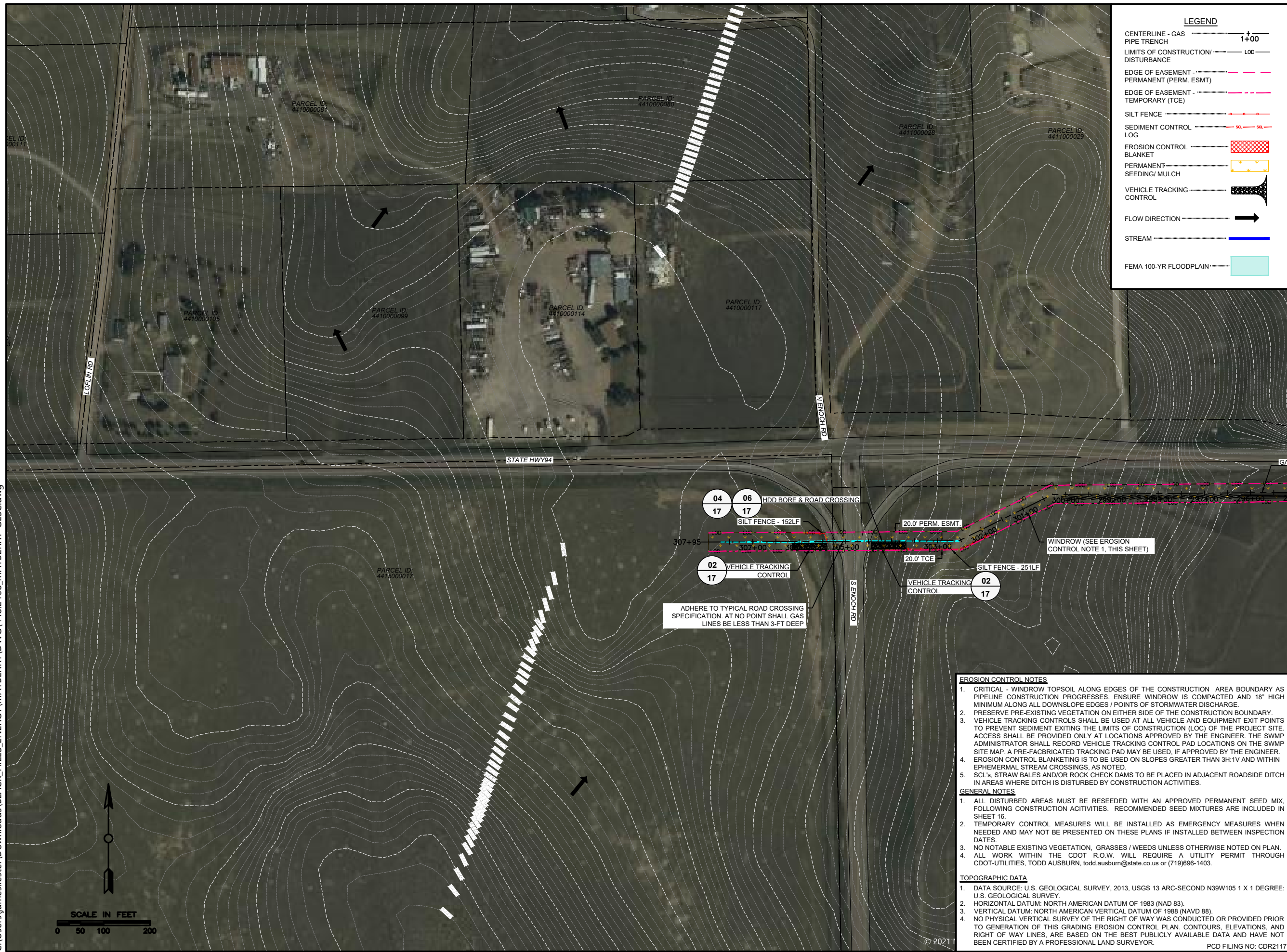
ISSUE DATE:  
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**02**

EPC 12/29/21



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/ DISTURBANCE L00
- EDGE OF EASEMENT PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN



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

REVISION HISTORY:

NO.	DESCRIPTION	DATE
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DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
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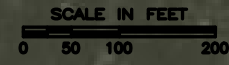
ISSUE DATE:	12-06-2021
SHEET NUMBER:	03

04 06 HDD BORE & ROAD CROSSING  
17 17  
SILT FENCE - 152LF  
20.0' PERM. ESMT  
307+95 307+00 307+05 307+10 307+15 307+20 307+25 307+30 307+35 307+40 307+45 307+50 307+55 307+60 307+65 307+70 307+75 307+80 307+85 307+90 307+95

02 17 VEHICLE TRACKING CONTROL  
ADHERE TO TYPICAL ROAD CROSSING SPECIFICATION. AT NO POINT SHALL GAS LINES BE LESS THAN 3-FT DEEP

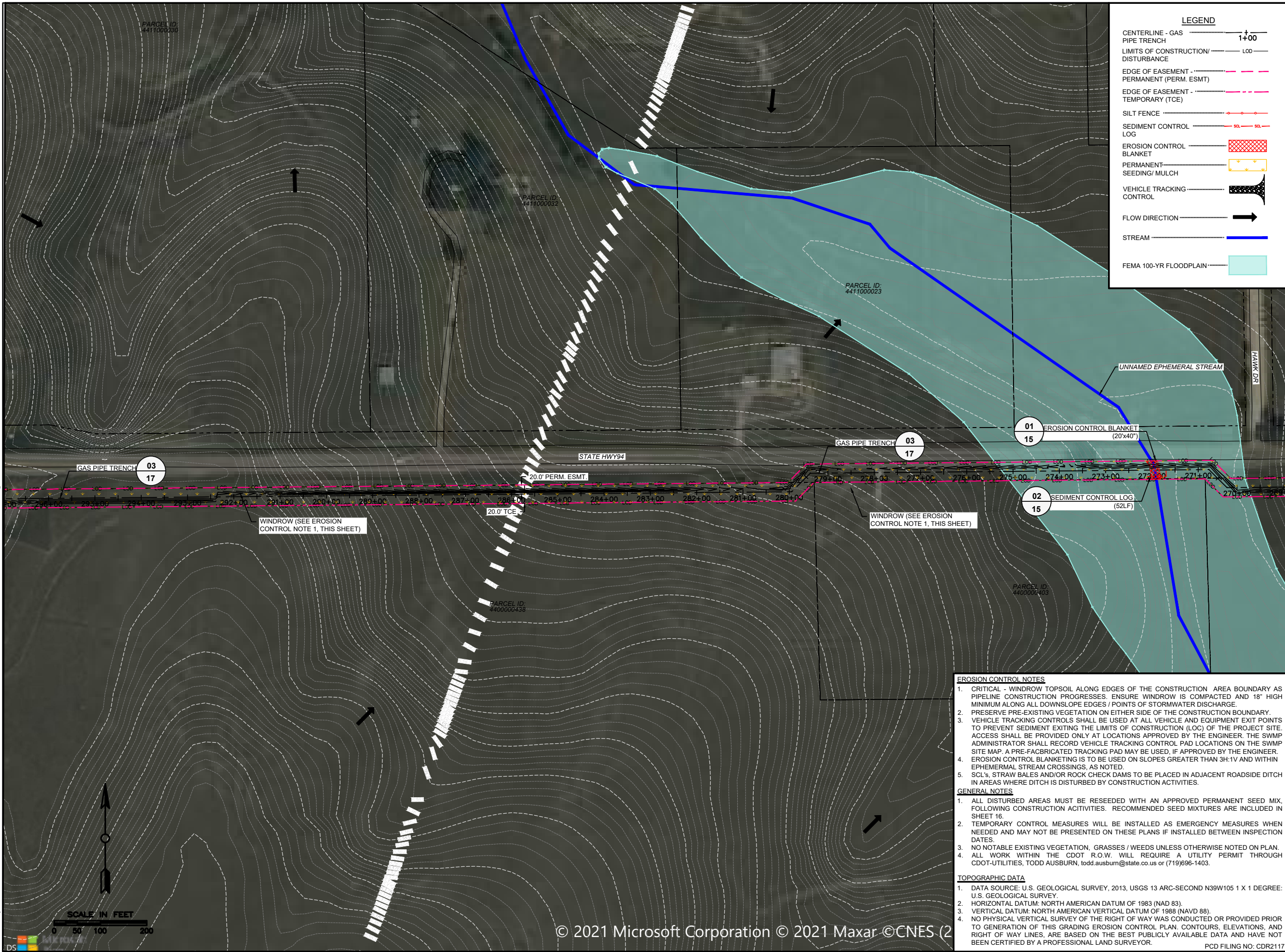
20.0' TCE  
SILT FENCE - 251LF  
VEHICLE TRACKING CONTROL 02 17  
WINDROW (SEE EROSION CONTROL NOTE 1, THIS SHEET)

- 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.
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  - SCL'S, STRAW BALES AND/OR ROCK CHECK DAMS TO BE PLACED IN ADJACENT ROADSIDE DITCH IN AREAS WHERE DITCH IS DISTURBED BY CONSTRUCTION ACTIVITIES.
- GENERAL NOTES**
- ALL DISTURBED AREAS MUST BE RESEEDED WITH AN APPROVED PERMANENT SEED MIX, FOLLOWING CONSTRUCTION ACTIVITIES. 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.
  - NO NOTABLE EXISTING VEGETATION, GRASSES / WEEDS UNLESS OTHERWISE NOTED ON PLAN.
  - ALL WORK WITHIN THE CDOT R.O.W. WILL REQUIRE A UTILITY PERMIT THROUGH CDOT-UTILITIES, TODD AUSBURN, todd.ausburn@state.co.us or (719)696-1403.
- 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.
- PCD FILING NO: CDR2117





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**LEGEND**

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BLACK HILLS ENERGY  
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DRAWN BY:	JL
REVIEWED BY:	DC
PROJECT MANAGER:	DC
PROJECT NUMBER:	448.2108
SHEET TITLE:	GEC PLAN

ISSUE DATE:	12-06-2021
SHEET NUMBER:	04

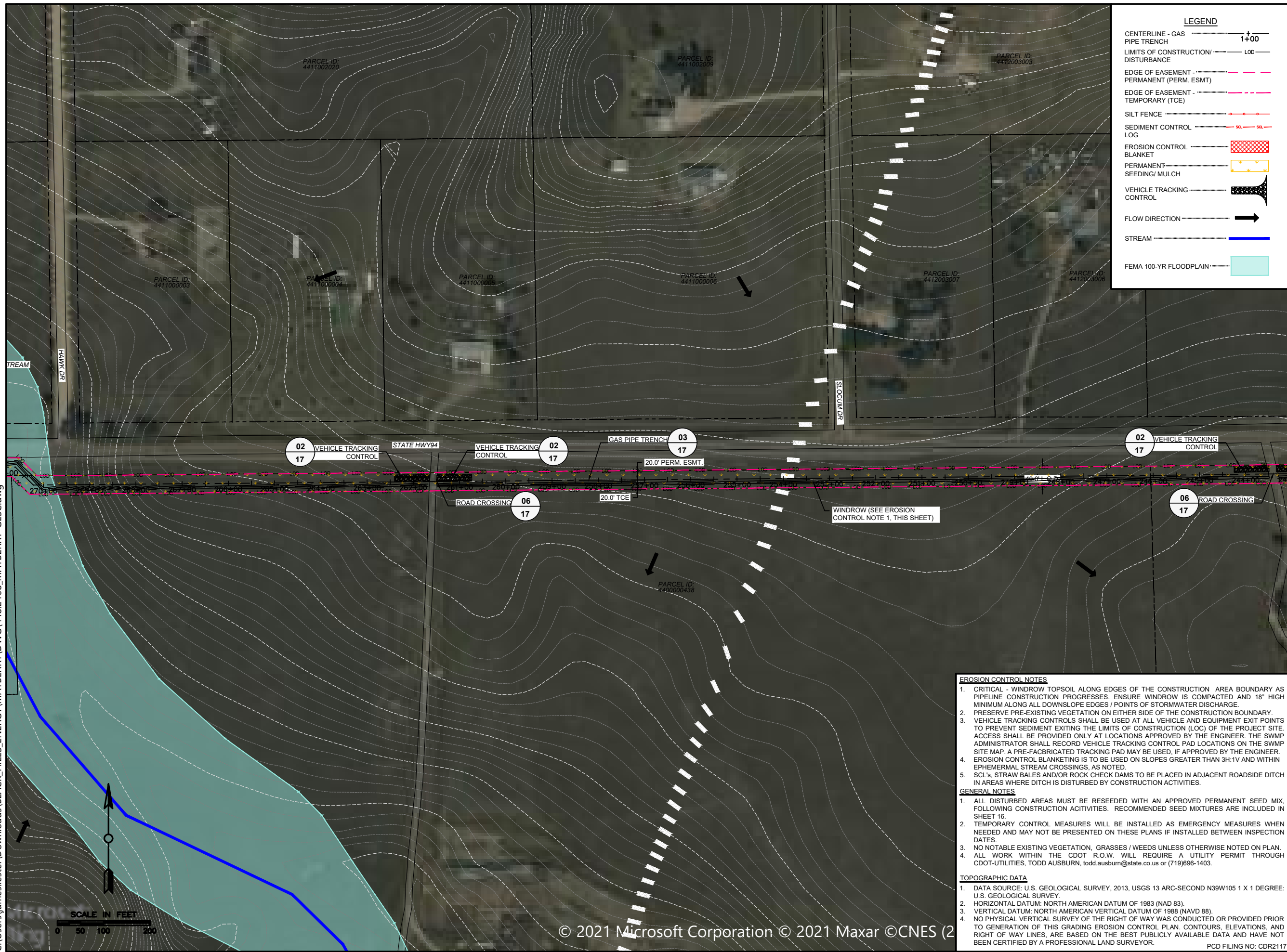
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**LEGEND**

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**EROSION CONTROL NOTES**

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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 AND WITHIN EPHEMERAL STREAM CROSSINGS, AS NOTED.
- SCL'S, STRAW BALES AND/OR ROCK CHECK DAMS TO BE PLACED IN ADJACENT ROADSIDE DITCH IN AREAS WHERE DITCH IS DISTURBED BY CONSTRUCTION ACTIVITIES.

**GENERAL NOTES**

- ALL DISTURBED AREAS MUST BE RESEED WITH AN APPROVED PERMANENT SEED MIX, FOLLOWING CONSTRUCTION ACTIVITIES. 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.
- NO NOTABLE EXISTING VEGETATION, GRASSES / WEEDS UNLESS OTHERWISE NOTED ON PLAN.
- ALL WORK WITHIN THE CDOT R.O.W. WILL REQUIRE A UTILITY PERMIT THROUGH CDOT-UTILITIES, TODD AUSBURN, todd.ausburn@state.co.us or (719)696-1403.

**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 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.

PCD FILING NO: CDR2117



**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% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

ISSUE DATE:	12-06-2021
SHEET NUMBER:	05



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/ DISTURBANCE 100
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT - TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN

**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 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.
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- NO NOTABLE EXISTING VEGETATION, GRASSES / WEEDS UNLESS OTHERWISE NOTED ON PLAN.
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**TOPOGRAPHIC DATA**

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- VERTICAL DATUM: NORTH AMERICAN DATUM OF 1988 (NAVD 88).
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PCD FILING NO: CDR2117



**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% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

PROJECT NUMBER:  
**448.2108**

SHEET TITLE:  
**GEC PLAN**

ISSUE DATE:  
12-06-2021

SHEET NUMBER:  
**06**



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/ DISTURBANCE L00
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT - TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN

**EROSION CONTROL NOTES**

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PCD FILING NO: CDR2117



**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% - FOR COUNTY	12/06/2021

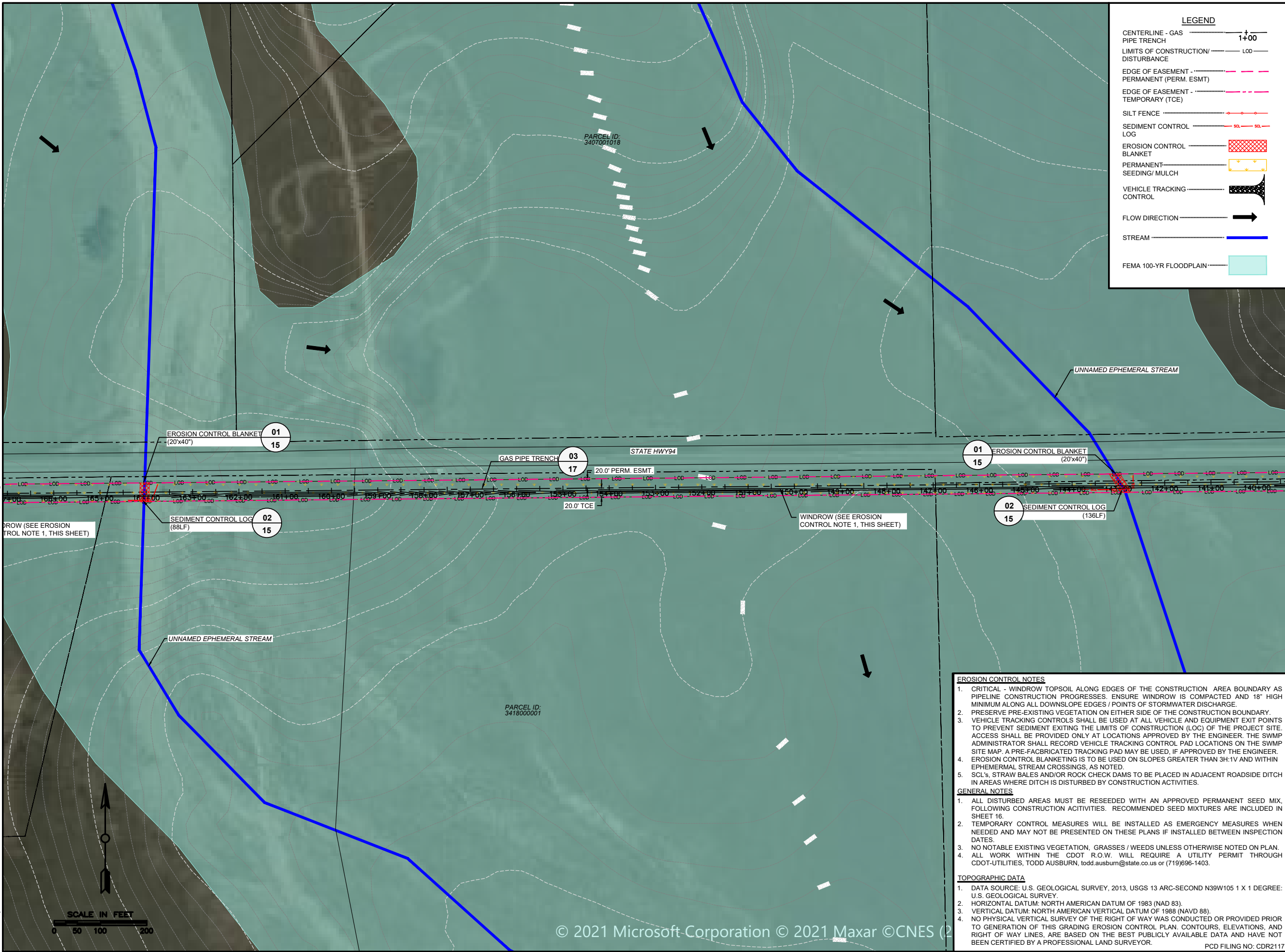
PROJECT INFORMATION:

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

ISSUE DATE:	12-06-2021
SHEET NUMBER:	07



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/ DISTURBANCE L00
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT - TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN



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

**EROSION CONTROL NOTES**

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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.
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- VERTICAL DATUM: NORTH AMERICAN DATUM OF 1988 (NAVD 88).
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PCD FILING NO: CDR2117

REVISION HISTORY:

NO.	DESCRIPTION	DATE
01	FOR COUNTY REVIEW	09/27/2021
02	100% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

PROJECT NUMBER:  
448.2108

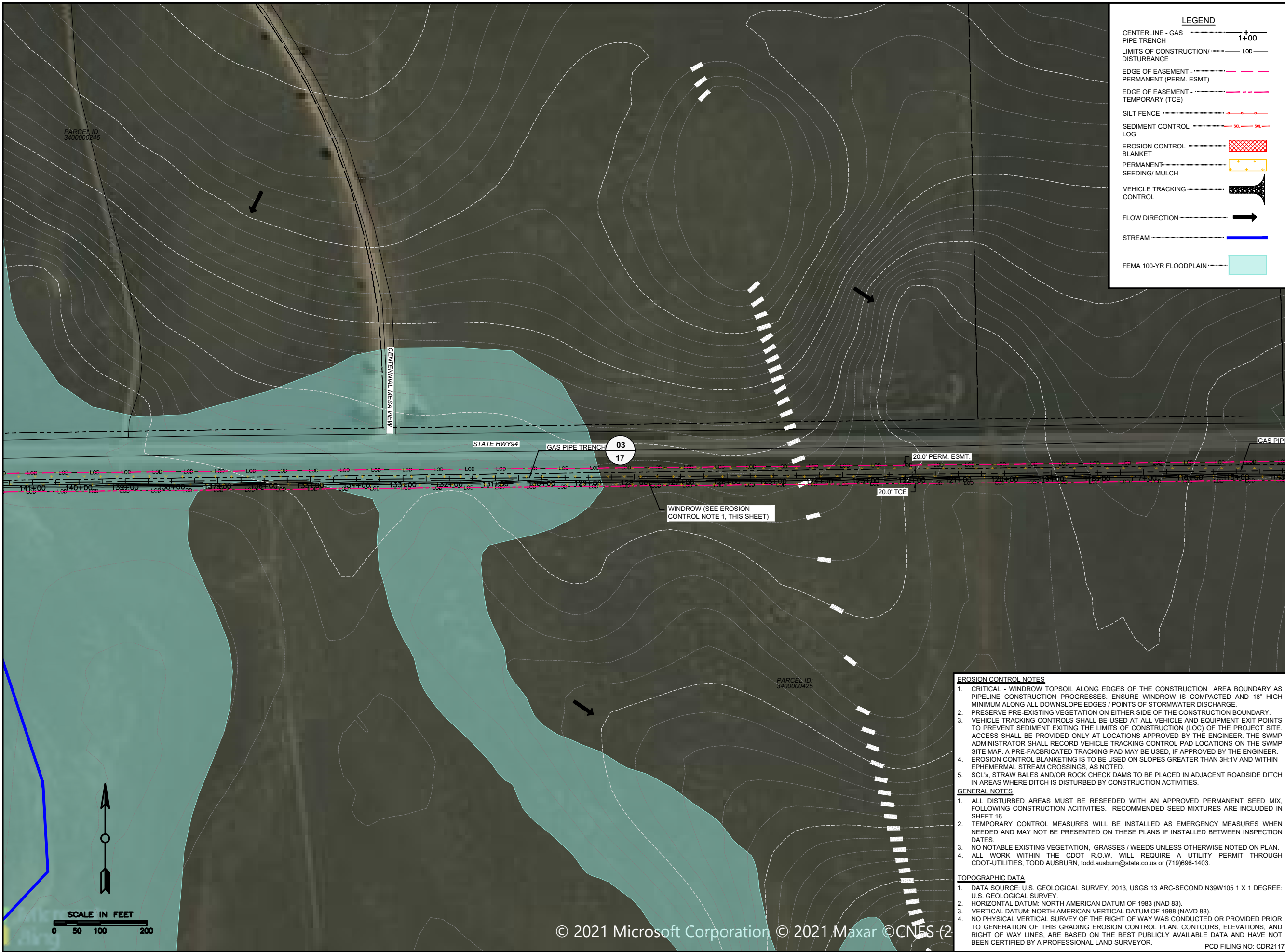
SHEET TITLE:  
**GEC PLAN**

ISSUE DATE:  
12-06-2021

SHEET NUMBER:  
**08**



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/ DISTURBANCE 100
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT - TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN

**EROSION CONTROL NOTES**

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- NO NOTABLE EXISTING VEGETATION, GRASSES / WEEDS UNLESS OTHERWISE NOTED ON PLAN.
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**TOPOGRAPHIC DATA**

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PCD FILING NO: CDR2117



**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% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

PROJECT NUMBER:  
448.2108

SHEET TITLE:  
**GEC PLAN**

ISSUE DATE:  
12-06-2021

SHEET NUMBER:  
**09**



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**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% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

PROJECT NUMBER:  
448.2108

SHEET TITLE:  
**GEC PLAN**

ISSUE DATE:  
12-06-2021

SHEET NUMBER:  
**10**



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/ DISTURBANCE 100
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT - TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN



**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% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

PROJECT NUMBER:  
**448.2108**

SHEET TITLE:  
**GEC PLAN**

ISSUE DATE:  
**12-06-2021**

SHEET NUMBER:  
**11**

- 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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- TOPOGRAPHIC DATA**
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- PCD FILING NO: CDR2117



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/DISTURBANCE L00
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
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- PERMANENT SEEDING/MULCH
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- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN

STATE HWY94

20.0' PERM. ESMT.

20.0' TCE

GAS PIPE TRENCH 03 17

WINDROW (SEE EROSION CONTROL NOTE 1, THIS SHEET)

**EROSION CONTROL NOTES**

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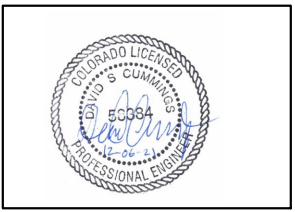
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- ALL WORK WITHIN THE CDOT R.O.W. WILL REQUIRE A UTILITY PERMIT THROUGH CDOT-UTILITIES, TODD AUSBURN, todd.ausburn@state.co.us or (719)696-1403.

**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).
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PCD FILING NO: CDR2117



**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% - FOR COUNTY	12/06/2021

PROJECT INFORMATION:

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

PROJECT NUMBER:  
448.2108

SHEET TITLE:  
**GEC PLAN**

ISSUE DATE:  
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**12**



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**LEGEND**

- CENTERLINE - GAS PIPE TRENCH 1+00
- LIMITS OF CONSTRUCTION/DISTURBANCE L00
- EDGE OF EASEMENT - PERMANENT (PERM. ESMT)
- EDGE OF EASEMENT - TEMPORARY (TCE)
- SILT FENCE
- SEDIMENT CONTROL LOG
- EROSION CONTROL BLANKET
- PERMANENT SEEDING/ MULCH
- VEHICLE TRACKING CONTROL
- FLOW DIRECTION
- STREAM
- FEMA 100-YR FLOODPLAIN



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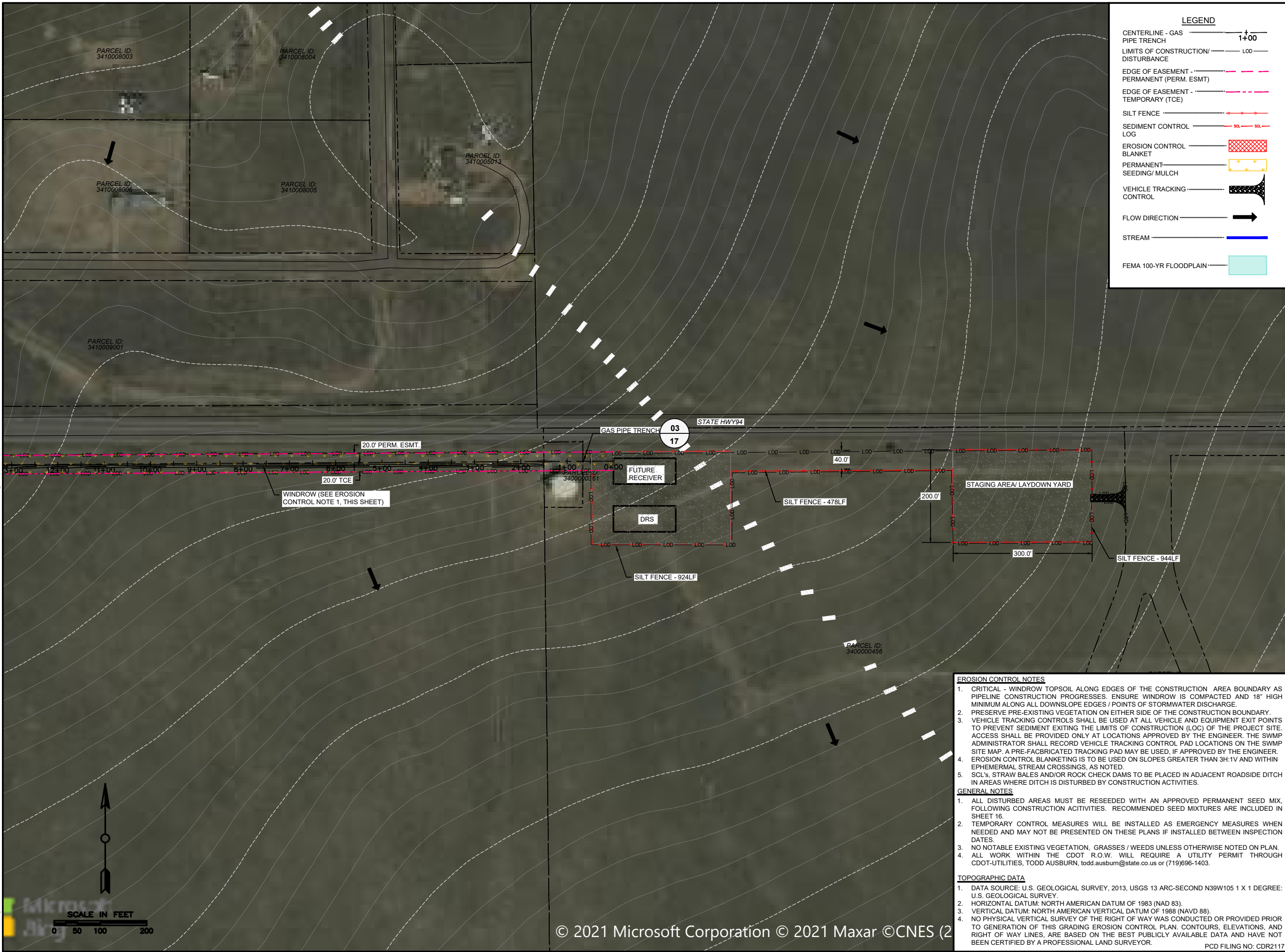
ISSUE DATE:  
12-06-2021

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.
  - 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 AND WITHIN EPHEMERAL STREAM CROSSINGS, AS NOTED.
  - SCL'S, STRAW BALES AND/OR ROCK CHECK DAMS TO BE PLACED IN ADJACENT ROADSIDE DITCH IN AREAS WHERE DITCH IS DISTURBED BY CONSTRUCTION ACTIVITIES.
- GENERAL NOTES**
- ALL DISTURBED AREAS MUST BE RESEEDED WITH AN APPROVED PERMANENT SEED MIX, FOLLOWING CONSTRUCTION ACTIVITIES. 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.
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12-06-2021

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**01 EROSION CONTROL BLANKET**  
15

Shallow Slope: On shallow slopes, strips of netting may be applied across the slope.

Steep Slope: On steep slopes, apply strips of netting parallel to the direction of flow and anchor securely.

Ditch: In ditches, apply netting parallel to the direction of flow. Use check slots every 15 feet. Do not join strips in the center of the ditch.

Where there is a berm at the top of the slope, bring the netting over the berm and anchor it behind the berm.

Bring netting down to a level area before terminating the installation. Turn the end under 6" and staple at 12" intervals.

From: Virginia Soil and Water Conservation Commission, 1989

**01 EROSION CONTROL BLANKET**  
15

**Anchor Slot:** Bury the up-channel end of the net in a 6" deep trench. Tamp the soil firmly. Staple at 12" intervals across the net.

**Overlap:** Overlap edges of the strips at least 4". Staple every 3 feet down the center of the strip.

**Joining Strips:** Insert the new roll of net in a trench, as with the Anchor Slot. Overlap the up-channel end of the previous roll 18" and turn the end under 6". Staple the end of the net just below the anchor slot and at the end at 12" intervals.

**Check Slots:** On erodible soils or steep slopes, check slots should be made every 15 feet. Insert a fold of the net into a 6" trench and tamp firmly. Staple at 12" intervals across the net. Lay the net smoothly on the surface of the soil - do not stretch the net, and do not allow wrinkles.

**Anchoring Ends At Structures:** Place the end of the net in a 6" slot on the up-channel side of the structure. Fill the trench and tamp firmly. Roll the net up the channel. Place staples at 12" intervals along the anchor end of the net.

From: Virginia Soil and Water Conservation Commission, 1989

**02 SEDIMENT CONTROL LOG**  
15

**SEDIMENT CONTROL LOG:** 4" MAX. ON CENTER (TYPICAL), 1"x1"16" (MIN.) WOODEN STAKE, 9" DIAMETER (MIN.) SEDIMENT CONTROL LOG, 1/2 DIA. OF SCL (TYP.), 6" MIN. TRENCH SOIL, 9" DIAMETER (MIN.) SEDIMENT CONTROL LOG, CENTER STAKE IN CONTROL LOG, 1/2 DIA. SCL (TYP.), 6" MIN. TRENCH SOIL, 9" DIAMETER (MIN.) SEDIMENT CONTROL LOG, 1"x1"16" (MIN.) WOODEN STAKE.

**SEDIMENT CONTROL LOG JOINTS:** 12" OVERLAP (MIN.), 9" DIAMETER (MIN.) SEDIMENT CONTROL LOG, 1"x1"16" (MIN.) WOODEN STAKE.

**INSTALLATION NOTES:**

- ALL SEDIMENT CONTROL LOGS MUST BE EMBEDDED TO 1/2 OF THE HEIGHT OF THE LOG.
- LARGER DIAMETER SEDIMENT CONTROL LOGS NEED TO BE EMBEDDED DEEPER.
- PLACE SEDIMENT CONTROL LOG AGAINST SIDEWALK OR BACK OF CURB WHEN ADJACENT TO THESE FEATURES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELISIOR OR COCONUT FIBER, AND SHALL BE FREE FROM ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- IF USING AS SLOPE PROTECTION, INSTALL SEDIMENT CONTROL LOGS ALONG THE CONTOUR.

**MAINTENANCE NOTES:**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 1/2 OF THE HEIGHT OF THE SEDIMENT CONTROL LOG.
- PERMANENTLY STABILIZE AREA AFTER SEDIMENT CONTROL LOGS HAVE BEEN REMOVED.

**03 SILT FENCE**  
15

Case 1: Placed on perimeter. Drainage area < 1.0 AC. See Table SF-1.

Case 2: Placed on perimeter. Drainage area > 1.0 AC. See Table SF-1.

Case 3: Placed on contour. Drainage area up to 1.0 Ac/100ft.

Case 4: Placed around inlet. See Inlet Protection Fact Sheet.

Case 5: At the top and/or toe of a steep slope.

Construction Site Perimeter, Sediment Basin, 5530, 5520, 5510, 5500.

**Table SF-1**

Silt Fence Used as	Case 1		
	DA < 0.25 AC	0.25 < DA < 1 AC	Case 2 DA > 1.0 AC
Continuous Grade	OK <sup>(1)</sup>	OK <sup>(1)</sup>	OK <sup>(1)</sup>
Area of Concentrated Flow	OK	NO <sup>(2)</sup>	NO <sup>(3)</sup>

(1) Temporary Swale or Straw Bale Barrier may be used as alternative to a Silt Fence.  
 (2) Check Dam may also be used as alternative to Silt Fence at low point.  
 (3) Sediment Basin is required for concentrated flow from drainage areas > 1.0 AC.

**03 SILT FENCE**  
15

**SILT FENCE NOTES**

**INSTALLATION REQUIREMENTS**

- SILT FENCES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- WHEN JOINTS ARE NECESSARY, SILT FENCE GEOTEXTILE SHALL BE SPICED TOGETHER ONLY AT SUPPORT POST AND SECURELY SEALED.
- METAL POSTS SHALL BE "STUDDED TEE" OR "I" TYPE WITH MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT. WOOD POSTS SHALL HAVE A MINIMUM DIAMETER OR CROSS SECTION DIMENSION OF 2 INCHES.
- THE FILTER MATERIAL SHALL BE FASTENED SECURELY TO METAL OR WOOD POSTS USING WIRE TIES, OR TO WOOD POSTS WITH 3/4" LONG #9 HEAVY-DUTY STAPLES. THE SILT FENCE GEOTEXTILE SHALL NOT BE STAPLED TO EXISTING TREES.
- WHILE NOT REQUIRED, WIRE MESH FENCE MAY BE USED TO SUPPORT THE GEOTEXTILE. WIRE FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 3/4" LONG. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 6" AND SHALL NOT EXTEND MORE THAN 3' ABOVE THE ORIGINAL GROUND SURFACE.
- ALONG THE TOE OF FILLS, INSTALL THE SILT FENCE ALONG A LEVEL CONTOUR AND PROVIDE AN AREA BEHIND THE FENCE FOR RUNOFF TO POND AND SEDIMENT TO SETTLE. A MINIMUM DISTANCE OF 5 FEET FROM THE TOE OF THE FILL IS RECOMMENDED.
- THE HEIGHT OF THE SILT FENCE FROM THE GROUND SURFACE SHALL BE MINIMUM OF 24 INCHES AND SHALL NOT EXCEED 36 INCHES; HIGHER FENCES MAY INPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.

**MAINTENANCE REQUIREMENTS**

- CONTRACTOR SHALL INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL. DAMAGED, COLLAPSED, UNENTRENCHED OR INEFFECTIVE SILT FENCES SHALL BE PROMPTLY REPAIRED OR REPLACED.
- SEDIMENT SHALL BE REMOVED FROM BEHIND SILT FENCE WHEN IT ACCUMULATES TO HALF THE EXPOSED GEOTEXTILE HEIGHT.
- SILT FENCES SHALL BE REMOVED WHEN ADEQUATE VEGETATIVE COVER IS ATTAINED.

**03 SILT FENCE**  
15

Top View of Silt Fence Posts Detail

Refer to "Top View of Silt Fence Posts Detail"

Post for Silt Fence B, Post for Silt Fence A, Silt Fence B, Silt Fence A, Staple Silt Fence B to the post for Silt Fence A, Staple Silt Fence A to the post for Silt Fence B.



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

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PROJECT MANAGER: DC

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ISSUE DATE: 12-06-2021

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
Gram, blue	<i>Bouteloua gracilis</i>	Warm, bunch	10	0.5	0.25	0.13
Green needlegrass <sup>1</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
Gram, 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.

02 SEEDING AND MULCHING  
16

### MULCHING NOTES

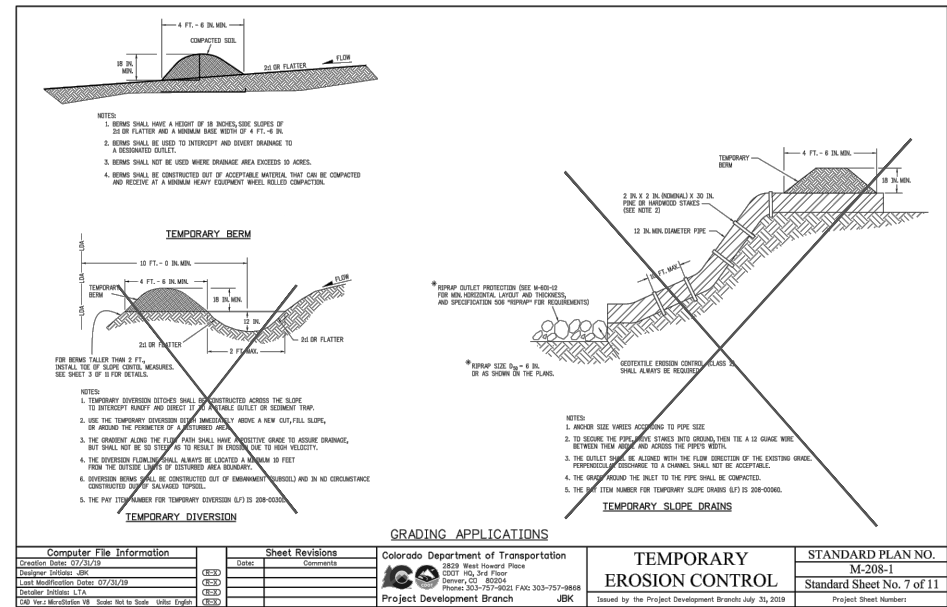
#### INSTALLATION REQUIREMENTS

- ALL DISTURBED AREAS MUST BE MULCHED WITHIN 21 DAYS AFTER FINAL GRADE AND SEEDING AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.
- MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FIELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED FREE FORAGE CERTIFICATION PROGRAM.
- HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD FIBER MANUFACTURED FROM CLEAN WHOLE WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.
- MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
- MULCH IS TO BE ANCHORED EITHER BY GRIMPING (TUCKING MULCH FIBERS 4 INCHES INTO THE SOIL) USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKIFIER.
- HYDRAULIC MULCHING AND TACKIFIERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

#### MAINTENANCE REQUIREMENTS

- REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
- MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDING.

02 SEEDING AND MULCHING  
16



03 TEMPORARY BERM  
16



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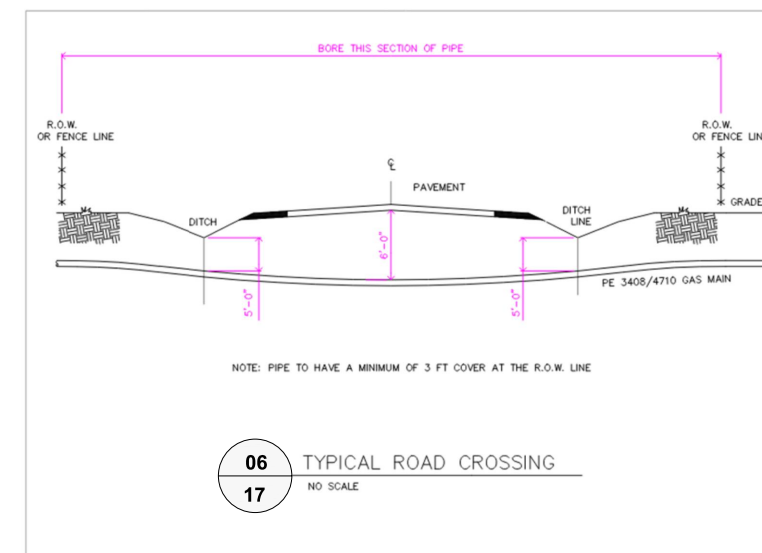
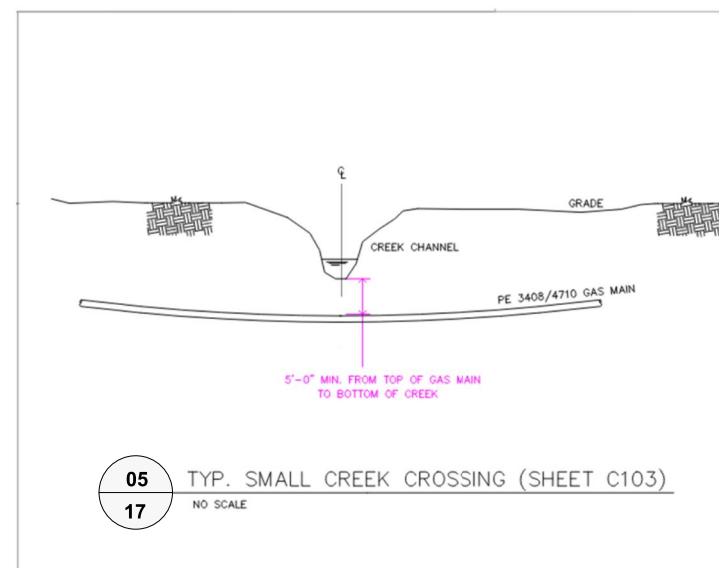
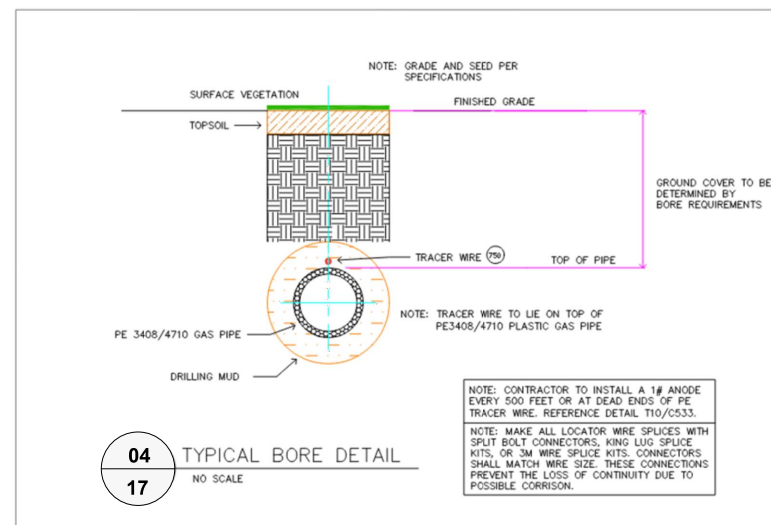
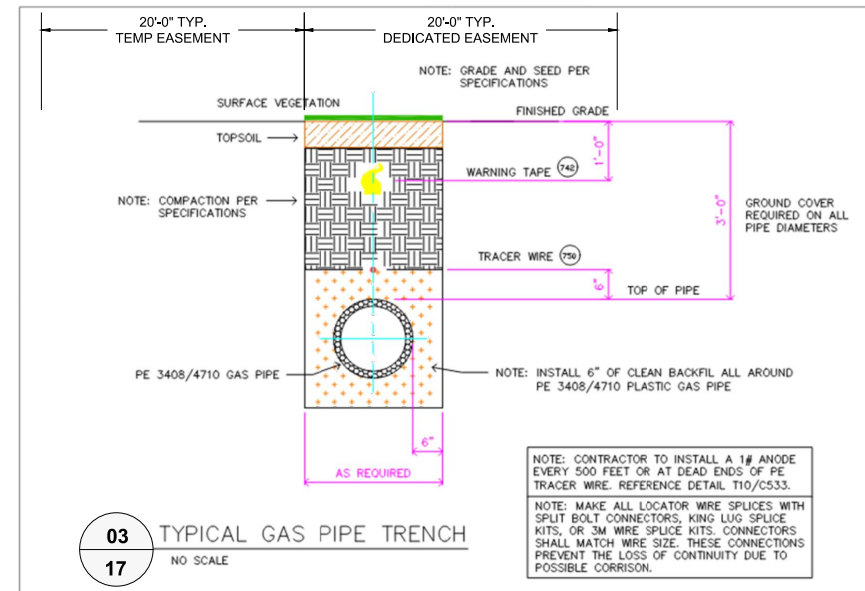
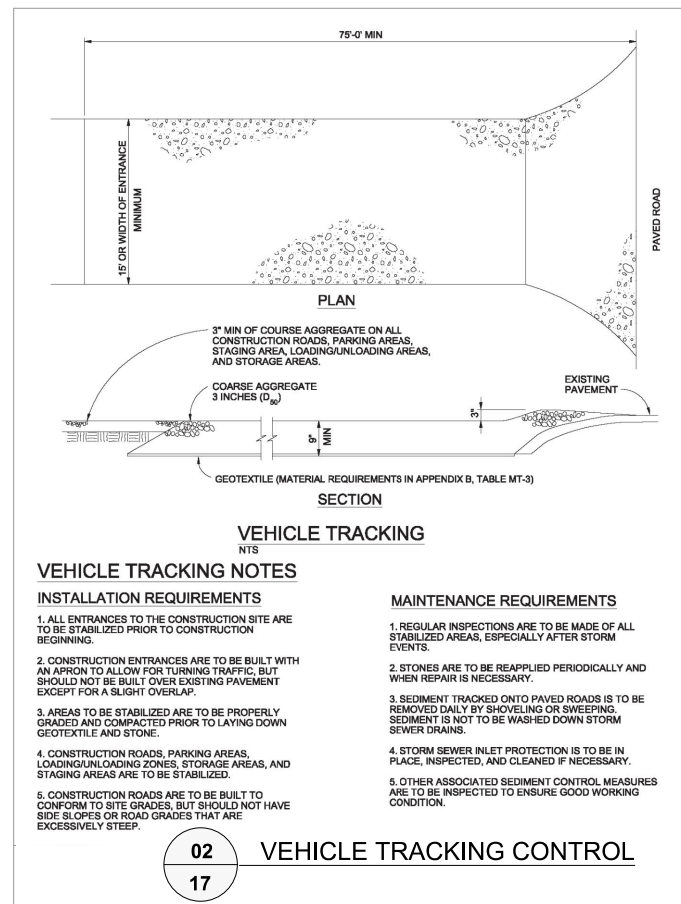
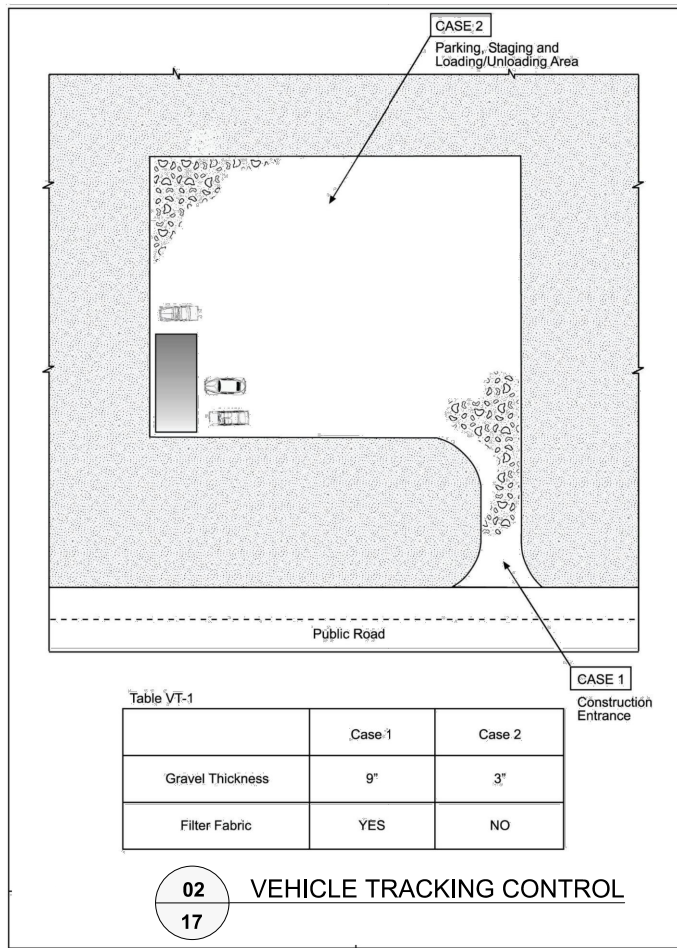
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EPC 12/29/21

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