



BAYSWATER
EXPLORATION & PRODUCTION, LLC

RULE 304.e. SUBSTANTIALLY EQUIVALENT INFORMATION COVER SHEET

Blehm 18-I Pad Oil and Gas Development Plan, Docket #210300017

Blehm 18-I Pad: Lot 3 Section 18, Township 7 North, Range 66 West

Form 2A Doc #402580742

Weld County, Colorado

The attached Grading Plan is being submitted as a substantially equivalent document to the Construction Layout Drawings required by COGCC Rule 304.b.(7)B.

This document was developed for Weld County Public Works Grading Plan.

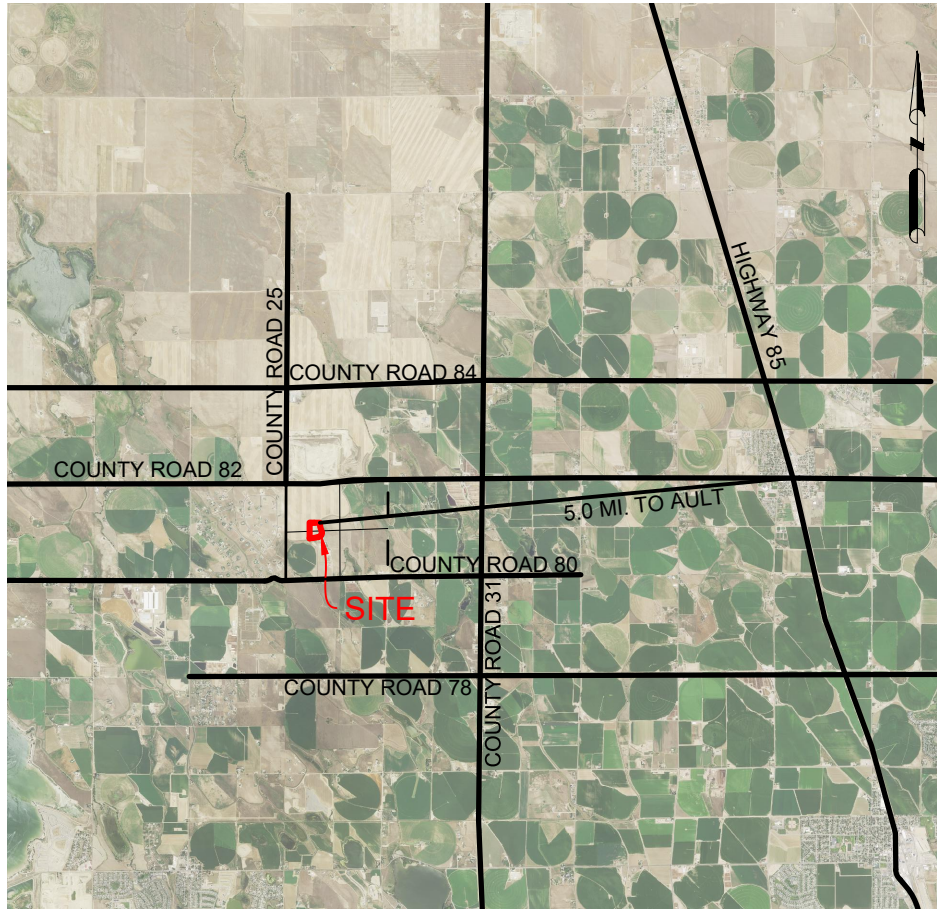
This document does not conform to COGCC rules or guidance in the following ways:

Proposed Pipeline and Utility corridors are unknown at this time and are the responsibility of parties with ownership of pipelines and utilities. Fencing and security plans will be determined in collaboration with the surface owner prior to construction. No onsite MLVT or minion tanks or offsite storage for water is anticipated, but water transfer company providing water to location will file and obtain any permits they need should offsite water storage become necessary.

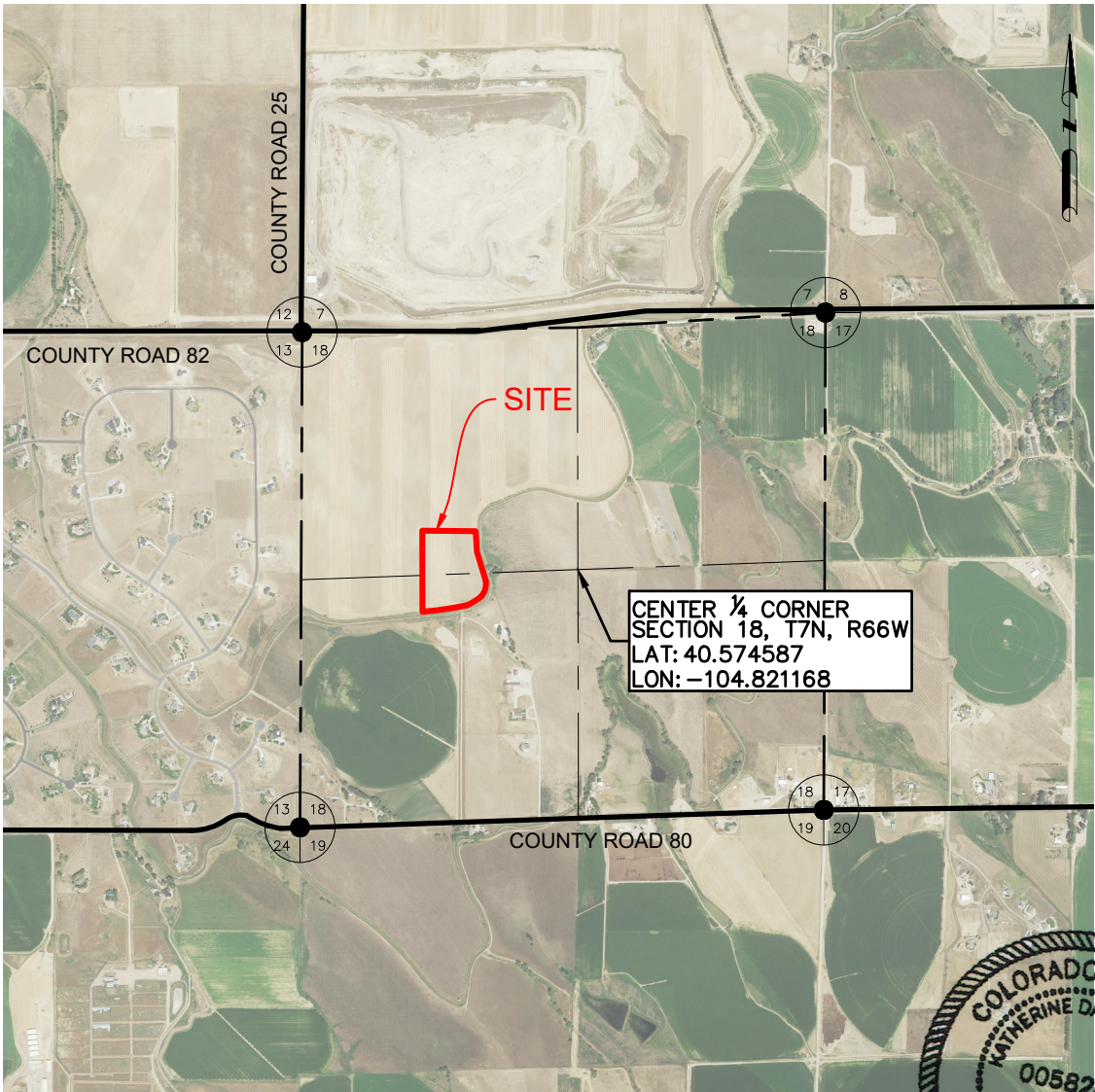
This document should be accepted as substantially equivalent:

The attached Grading Plan is to be submitted to Weld County Public Works and follows WELD COUNTY ENGINEERING AND CONSTRUCTION CRITERIA. The drawing contains location construction and operations layout drawings consistent with the Attachment Requirements of the Layout Drawings Guidance dated June 25, 2021: 1. Construction Layout Drawing (for initial site construction, well drilling, and completions operations [Sheet 3]); 2. Preliminary Rig Layout Drawing (for well drilling operations) [Sheet 5]; 3. Preliminary Well Completion and Stimulation Layout Drawing (for onsite well casing installation, well perforating, hydraulic stimulation and fracturing operations (frac) [Sheet 6], and, if relevant or required, a separate drawing for offsite remote completions support pad operations – N/A); 4. Preliminary Flowback Equipment Layout Drawing (for flowback operations) [Sheet 7]; and 5. Facility Layout Drawing (for production operations) [Sheet 8]. Additional location construction and operations cross-section plots including location and finish grades are included within Sheet 4. FYI - Tertiary containment earthen berms are labeled as 'embankment' on the layout drawings.

Added Access Grading Plan per COGCC Staff review comments.



REGIONAL MAP
N.T.S.



VICINITY MAP
N.T.S.

DATA SOURCE:
AERIAL IMAGERY: NAIP 2019

PUBLICLY AVAILABLE DATA SOURCES HAVE NOT
BEEN INDEPENDENTLY VERIFIED BY ASCENT.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND
SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY
OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED
HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY
AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

DRAWING INDEX		
SHEET NO.	TITLE	REV.
1	COVER SHEET	2
2	GENERAL NOTES	1
3	PAD LAYOUT	2
4	CROSS SECTIONS	1
5	RIG LAYOUT	2
6	WELL COMPLETION & STIMULATION LAYOUT	2
7	FLOWBACK EQUIPMENT LAYOUT	2
8	PRODUCTION LAYOUT	2
9	INTERIM-RECLAMATION LAYOUT	2
10	EROSION & SEDIMENT CONTROL PLAN	1
11	BMP NOTES	1
12	BMP TYPICAL DETAILS	1
13	BMP TYPICAL DETAILS	1
14	BMP TYPICAL DETAILS	1
15	BMP TYPICAL DETAILS	1

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

COVER SHEET

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION	RMC
2	7/2/21	ISSUED FOR CONSTRUCTION	RMC

FIELD DATE:

02-24-2020

DRAWING DATE:

02-09-2021

DRAFTED BY:

RMC

SHEET NO.

01 OF 15

BLEHM 18-I PAD
GRADING PLAN

GENERAL NOTES

1. SHOULD ARTIFACTS OF POTENTIAL HISTORICAL SIGNIFICANCE BE ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CLIENT AND DISCONTINUE EXCAVATION IN THE AFFECTED AREA UNTIL OTHERWISE NOTIFIED BY THE CLIENT OR ENGINEER. ANY DAMAGE TO A DESIGNATED ARCHEOLOGICAL SITE AS A RESULT OF CONTRACTOR NEGLIGENCE SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR.
2. DO NOT PERFORM ANY GRADING OR GRUBBING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR INTO NATURAL WATERCOURSES.
3. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
4. CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT DRAWINGS WITH ALL CHANGES IDENTIFIED. THE AS-BUILT FIELD DRAWINGS SHALL BE SUBMITTED TO CLIENT AT PROJECT COMPLETION.

SAFETY

5. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY OF HIS OWN PERSONNEL, ALL VISITORS TO THE SITE, AND THE GENERAL PUBLIC. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF ALL APPLICABLE HEALTH AND SAFETY STANDARDS INCLUDING, BUT NOT LIMITED TO, OSHA 29 CFR PARTS 1910 AND 1926 FOR GENERAL CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF DUST CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING ALL PHASES OF SITE PREP, EARTHWORKS AND GRADING.
7. UNLESS A SAFE EXCAVATION/TRENCH DEPTH IS SPECIFICALLY IDENTIFIED DURING THE PRECONSTRUCTION SAFETY ASSESSMENT BY QUALIFIED PERSONNEL, WHERE PERSONNEL ENTER EXCAVATIONS 4 FEET OR MORE IN DEPTH, PROTECT THE EXCAVATION WITH A SUPPORT SYSTEM OF SLOPING, SHORING, BRACING OR BY USE OF A TRENCH BOX MEETING OSHA SAFETY STANDARD; INSPECT SHORING AND/OR BRACING SYSTEMS DAILY AND AFTER RAINSTORMS OR OTHER HAZARD-INCREASING OCCURRENCE. ALSO PROVIDE SUCH PROTECTION IN EXCAVATIONS LESS THAN 4 FEET DEEP WHERE HAZARDOUS EARTH MOVEMENT MAY BE EXPECTED.
8. ALL CONTRACTORS PERFORMING SUBSURFACE EARTHWORKS MUST CONTACT 811 AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATION AND AS REQUIRED BY LAW.

TOPSOIL, CLEARING AND GRUBBING

9. CONTRACTOR SHALL CLEAR AND GRUB PROJECT AREA PRIOR TO PERFORMING ANY EARTHWORKS. HOLES RESULTING FROM REMOVAL OF VEGETATION SHALL BE BACKFILLED, COMPACTED AND GRADED IN ACCORDANCE WITH THIS DRAWING PACKAGE, GENERAL NOTES AND SPECIFICATIONS WHERE APPLICABLE.
10. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIAL INCLUDING, BUT NOT LIMITED TO VEGETATION, ROCK, DEBRIS, EXCESS SOILS, DEMOLITION MATERIALS, AND CONSTRUCTION MATERIALS. ACQUISITION OF OFF-SITE DISPOSAL AREA IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED BY CLIENT.
11. PERFORM ALL CLEARING, GRUBBING AND EARTHWORKS IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS, INCLUDING REQUIREMENTS FOR HANDLING, REMOVING AND DISPOSING OF CONTAMINATED SOIL, IF APPLICABLE.
12. NO VEGETATION OVERHANGING THE CONSTRUCTION AREA, BUT ROOTED OUTSIDE SAID AREA, SHALL BE REMOVED WITHOUT APPROVAL FROM THE CLIENT OR CONSTRUCTION MANAGER.
13. SHOULD THE CONTRACTOR DISCOVER THAT THE DEPTH OF TOPSOIL EXCEEDS THE DEPTH INDICATED ON THE PLANS, CONTRACTOR SHALL NOTIFY THE CLIENT AND ENGINEER IN WRITING TO DETERMINE IF ANY REVISIONS TO THE EARTHWORKS QUANTITIES AND DESIGN ARE REQUIRED. UNDER SUCH CIRCUMSTANCES THE CONTRACTOR SHALL NOT PROCEED WITH TOPSOIL REMOVAL UNTIL DIRECTED TO DO SO BY THE CLIENT OR CONSTRUCTION MANAGER.

GRADING AND COMPACTION

14. WHERE A GEOTECHNICAL REPORT EXISTS FOR THIS PROJECT, CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND ADHERING TO THE REQUIREMENTS OF THE REPORT. SHOULD A DISCREPANCY BETWEEN THE PROJECT SITE GEOTECHNICAL REPORT AND THESE PLANS EXIST, CONTRACTOR TO INFORM THE ENGINEER IN WRITING BEFORE PROCEEDING WITH EARTHWORKS ACTIVITIES. CONTRACTOR SHALL NOT PROCEED WITH EARTHWORKS ACTIVITIES UNTIL DIRECTED TO DO SO BY THE ENGINEER AND CLIENT.
15. CONTRACTOR SHALL PROPERLY DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE UNLESS DIRECTED OTHERWISE BY THE CLIENT OR ENGINEER.
16. ONSITE EXCAVATED MATERIAL STORAGE SHALL BE IN THE LOCATION INDICATED BY THE CLIENT OR AS INDICATED ON THESE PLANS. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES FOR THE SOIL STOCKPILES AS APPROPRIATE.
17. ANY ROCK UNEARTHED DURING EXCAVATION WITH A LONG AXIS LENGTH THAT EXCEEDS 5 INCHES AND IS NOT REQUIRED FOR SITE DEVELOPMENT, SHALL BE DISPOSED OF BY THE CONTRACTOR UNLESS INDICATED OTHERWISE BY THE CLIENT OR ENGINEER.
18. CONTRACTOR TO PROVIDE AND VERIFY THAT ADEQUATE COMPACTION HAS BEEN ACHIEVED PRIOR TO INDEPENDENT CONFIRMATION OF COMPACTION BY A QUALIFIED INSPECTOR. OPTIMUM MOISTURE CONTENT AND MAXIMUM COMPACTED DENSITY TO BE INDICATED IN THESE DRAWINGS OR IN THE ASSOCIATED GEOTECHNICAL REPORT. ON SPEC MATERIAL TO BE PLACED AND COMPACTED IN 6-INCH HORIZONTAL LIFTS.
19. COMPACTION TO BE VERIFIED BY NUCLEAR METHOD PER ASTM D-6938 OR BY AN EQUIVALENT METHOD APPROVED BY THE ENGINEER.

20. COMPACTION TESTING FREQUENCY FOR ROADS AND PARKING AREAS SHALL BE 1 TEST (ASTM D-6938) PER 12 FT. OF WIDTH PER 500 FT. OF LENGTH, OR FRACTION THEREOF PER 6" LIFT UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
21. COMPACTION TEST FREQUENCY FOR AREAS UNDER STRUCTURAL FOUNDATIONS SHALL BE 1 TEST (ASTM D-6938) FOR EACH 1,000 FT² OR FRACTION THEREOF PER 6" LIFT, UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
22. COMPACTION TEST FREQUENCY FOR DETENTION OR RETENTION POND FILL EMBANKMENTS OR ANY EMBANKMENT IMPOUNDING WATER SHALL BE A MINIMUM OF 1 TEST (ASTM D-6938) PER 2,500 FT² OR FRACTION THEREOF PER 6" LIFT UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
23. COMPACTION TEST FREQUENCY FOR REMAINING AREAS (NOT INCLUDING STRUCTURAL FOUNDATIONS, ROADS AND DETENTION POND EMBANKMENTS) IN NON-HEAVY LOADING AREAS SHALL BE 1 SPOT CHECKS PER 40,000 FT² PER 6" LIFT IN FILL AREAS UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
24. CONSTRUCTION MANAGER, INSPECTOR AND/OR ENGINEER MAY REQUIRE THAT MORE COMPACTION TESTS ARE NEEDED BASED ON FIELD OBSERVATIONS. THE RECOMMENDED NUMBER OF COMPACTION TESTS INDICATED IN THESE GENERAL NOTES CONSTITUTES THE MINIMUM NUMBER OF TESTS; MORE TESTS MAY BE WARRANTED BASED ON FINDINGS IN THE FIELD.
25. THE CONTRACTOR SHALL SCARIFY SUBGRADE 6" (MIN.) WITH A MOISTURE CONDITION AND COMPACT TO 95% MAXIMUM ACHIEVABLE DENSITY IN ACCORDANCE WITH ASTM D-698 UNLESS INDICATED OTHERWISE IN THESE PLANS.
26. HORIZONTAL LIFTS OF NON-GRAVEL MATERIAL TO BE COMPACTED IN 6" (MAX) LIFTS TO 95% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (-2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 UNLESS INDICATED OTHERWISE IN THESE PLANS. HORIZONTAL LIFTS OF GRAVEL MATERIAL TO BE COMPACTED IN 6" (MAX) LIFTS TO 90% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 UNLESS INDICATED OTHERWISE IN THESE PLANS. SHOULD A DISCREPANCY BETWEEN THE PROJECT SITE GEOTECHNICAL REPORT AND THESE PLANS EXIST, CONTRACTOR TO INFORM THE ENGINEER IN WRITING BEFORE PROCEEDING WITH SOIL LIFT PLACEMENT AND COMPACTION.
27. WHERE SUFFICIENT EXCAVATION MATERIAL IS NOT AVAILABLE FOR FILL AND "BORROW MATERIAL" IS REQUIRED; BORROW MATERIAL SHALL BE OBTAINED FROM SOURCES SHOWN IN THIS DRAWING PACKAGE OR OTHER SOURCES APPROVED BY THE ENGINEER. OVERBURDEN TO BE REMOVED FROM BORROW SITE PRIOR TO OBTAINING BORROW MATERIAL. ENGINEER APPROVED BMP AND EROSION CONTROL MEASURES TO BE PROVIDED BY CONTRACTOR FOR ANY BORROW LOCATIONS.
28. BLASTING IS NOT PERMITTED, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER AND CLIENT.
29. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. 6" OF TOPSOIL HAS BEEN REMOVED FROM THE EXISTING CAD SURFACE PRIOR TO PERFORMING EARTHWORKS CALCULATIONS UNLESS NOTED OTHERWISE IN THESE PLANS. CONTRACTOR AND SUBCONTRACTOR ARE RESPONSIBLE FOR DETERMINING ALL QUANTITIES.
30. THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ARE LISTED AS BANK (I.E. IN-SITU) VOLUMES UNLESS INDICATED OTHERWISE. UNLESS STATED ELSEWHERE IN THIS DRAWING PACKAGE OR IN THE APPLICABLE GEOTECHNICAL REPORT, CONTRACTOR TO ASSUME A 25% VOLUMETRIC CHANGE OF EXCAVATED SOILS (BULKING/SHRINKAGE FACTOR) FOR THE PURPOSES OF EARTHWORKS TRANSPORT, STORAGE AND STOCKPILING. SOIL MATERIAL PLACED AND COMPACTED PER THE REQUIREMENTS OF THESE PLANS IS ASSUMED TO BE HAVE A 1:1 RATIO FOR EXCAVATED (BANK) TO PLACED EARTHWORKS VOLUMES; ANY OBSERVED VOLUMETRIC CHANGE IN THE SOILS (EXPANSION AND/OR SHRINKAGE) OF THE PLACED AND COMPACTED MATERIALS THAT IS NOT AT A 1:1 RATIO SHALL BE REPORTED TO THE CLIENT AND ENGINEER BY THE CONTRACTOR.
31. ALL STOCKPILES SHOWN IN THESE PLANS ARE ASSUMED TO HAVE 2H:1V SIDE SLOPES. MAXIMUM STOCKPILE HEIGHT IS ASSUMED TO BE 10 FT. CONTRACTOR SHALL NOT CREATE STOCKPILES WITH SIDE SLOPES GREATER THAN 2:1 OR HEIGHTS GREATER THAN 10 FT. WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS INDICATED OTHERWISE IN THESE PLANS. THE STOCKPILE FOOTPRINTS SHOWN IN THESE PLANS ARE ASSUMED TO HAVE AN EXPANSION FACTOR OF 1.25.
32. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES IDENTIFIED SHALL BE BROUGHT TO THE INSPECTOR'S OR CONSTRUCTION MANAGER'S ATTENTION AND RECONCILED WITH THE ENGINEER PRIOR TO CONSTRUCTION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ALL EXISTING DISTURBED AREAS, FENCES, WALLS, SHEDS OR ANY OTHER STRUCTURES DAMAGED DURING CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER CONDITION. ANY DAMAGE TO ADJACENT PROPERTY OFF OF THE CLIENT'S PROPERTY SHALL BE REPORTED TO THE CLIENT'S REPRESENTATIVE FOR AUTHORIZATION PRIOR TO SAID REPAIRS.
34. ALL EARTHWORKS SHALL CONFORM TO ELEVATIONS AND GRADES DESIGNATED IN THIS DRAWING PACKAGE. ALLOWABLE TOLERANCES ARE ± 0.10 FEET OF FINISHED FINAL GRADE (FG) FOR ALL EARTHWORKS UNLESS INDICATED OTHERWISE IN THIS DRAWING PACKAGE OR BY THE ENGINEER.
35. CONTRACTOR TO PROVIDE BEST MANAGEMENT PRACTICES (BMP) FOR STORMWATER RUNOFF AND SEDIMENT CONTROL IN ACCORDANCE WITH STATE AND FEDERAL GOVERNMENT REQUIREMENTS. IN PARTICULAR, BMP SHALL CONFORM WITH THE FEDERAL CLEAN WATER ACT'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER REGULATIONS REQUIREMENTS. DO NOT PERFORM ANY GRADING OR GRUBBING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR INTO NATURAL WATERCOURSES.
36. ALL PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY

OTHER EARTH DISTURBING ACTIVITY. ALL OTHER STRUCTURAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS SOON AS THE CONSTRUCTION ACTIVITIES, AROUND WHICH THEY ARE BASED, COMMENCE.

37. IMPORTED FILL TO MEET ASTM D-1241 SPECIFICATION FOR TYPE I, GRADE B MATERIAL AND 100% UNLESS INDICATED OTHERWISE IN THIS DRAWING PACKAGE:

- A. 100% SOIL MATERIAL FINER THAN 2-INCH SIEVE.
- B. 75% - 95% SOIL MATERIALS FINER THAN 1-INCH SIEVE.
- C. 40% - 75% SOIL MATERIALS FINER THAN NO. 3/8 SIEVE.
- D. 30% - 60% SOIL MATERIALS FINER THAN NO. 4 SIEVE.
- E. 20% - 45% SOIL MATERIALS FINER THAN NO. 10 SIEVE.
- F. 15% - 30% SOIL MATERIALS FINER THAN NO. 40 SIEVE.
- G. 5% - 15% SOIL MATERIALS FINER THAN NO. 200 SIEVE.
- H. MAXIMUM LIQUID LIMIT OF 25.
- I. PLASTICITY INDEX (PI) 6 (MAX).
- J. MAXIMUM EXPANSIVE POTENTIAL 0.5%.

38. THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS (WHEN APPLICABLE) ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).

FINAL GRADE AND ACCEPTANCE

39. FINAL GRADE TO MAINTAIN POSITIVE (I.E. OFFSITE) DRAINAGE ACROSS THE ENTIRE PROJECT SITE UNLESS SPECIFICALLY INDICATED OTHERWISE IN THIS DRAWING PACKAGE.
40. SETTLEMENT OR WASHING THAT OCCURS IN GRADED OR BACKFILLED AREAS PRIOR TO ACCEPTANCE OF THE WORK SHALL BE REPAIRED AND GRADES REESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL CHARGE TO CLIENT.
41. FINAL SUBGRADE (AS APPLICABLE) TO BE PROOF ROLLED BY A TRUCK WITH A REAR AXLE LOAD OF APPROXIMATE 16,000 LBS./AXLE AND ACCEPTED BY THE INSPECTOR OR CONSTRUCTION MANAGER PRIOR TO FINAL ACCEPTANCE OF SUBGRADE AND PLACEMENT OF GRAVEL TOP LAYER. REMOVE AND REPLACE ANY SOFT MATERIAL WHICH EXHIBITS PERMANENT SUBGRADE DEFORMATION EXCEEDING 0.5".

SITE COORDINATES NOTES

42. SITE COORDINATES AND DESIGN ARE GROUND VALUES BASED ON A LOW DISTORTION PROJECTION (LDP). THIS LDP IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 40.567905°N A CENTRAL MERIDIAN LONGITUDE OF 104.773474°W, A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000235 (EXACT), A FALSE NORTHING OF 300,000, AND A FALSE EASTING OF 100,000. THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
43. BEARINGS AND DISTANCES SHOWN ARE GROUND VALUES BASED ON THE LDP NOTED ABOVE.
44. CONTRACTOR TO FIELD VERIFY LOCAL BENCHMARKS /MONUMENTS BEFORE STARTING CONSTRUCTION. CONTRACTOR MAY BE REQUIRED TO RECTIFY TRUE COORDINATES TO MATCH THE NORTHINGS AND EASTINGS SHOWN IN THIS PLAN SET. ANY CONFLICTS WITH LOCAL COORDINATES SHALL BE DISCUSSED WITH FIELD ENGINEER.

GEOTECHNICAL REPORT

45. ASCENT GEOMATICS WAS NOT PROVIDED WITH A GEOTECHNICAL REPORT TO AID IN THE PREPARATION OF THIS GRADING PLAN.

PROJECT SPECIFIC NOTES

46. PAD TO BE CAPPED WITH CDOT CLASS 6 AGGREGATE BASE COURSE (ABC) UNLESS INDICATED OTHERWISE IN THESE PLANS OR BY THE CLIENT. ABC TO BE COMPACTED IN 6" (MAX) LIFTS TO 95% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (-2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 UNLESS INDICATED OTHERWISE IN THESE PLANS.
47. AS OF THE TIME THIS DRAWING PACKAGE WAS ISSUED, NO INFORMATION REGARDING TANK LOCATION, SIZE, WEIGHT (IF APPLICABLE) WAS AVAILABLE. THE PREFERRED LOCATION(S) FOR TANK PLACEMENT ARE IN AREAS OF CUT. IF ANY LARGE TANKS (E.G. MLVTS, MINION TANKS, ETC.) ARE INTENDED TO BE PLACED ON THE PAD IN FILL AREAS, THE TANK(S) MUST BE PLACED A MINIMUM OF 30 LINEAR FEET FROM THE EDGE OF THE PAD. THIS REQUIREMENT IS TO PROVIDE ADEQUATE SPACING TO PROTECT AGAINST SLOPE INSTABILITY ISSUES AND TO PROVIDE SAFE WORKING CONDITIONS IN ACCORDANCE WITH ENGINEERING BEST PRACTICES. IF THERE ARE ANY QUESTIONS OR CONCERNS REGARDING SAFE PLACEMENT OF LARGE TANK OR TANK LIKE STRUCTURES (I.E. LARGE LOADS) PLEASE CONTACT ASCENT GEOMATIC SOLUTIONS ENGINEERING DEPARTMENT TO OBTAIN GUIDANCE AS TO WHERE THE TANK(S) CAN BE SAFELY LOCATED.
48. HORIZONTAL LIFTS OF FILL SOIL MATERIAL (NON-GRAVELS) DIRECTLY BENEATH AND WITHIN 5.0 FT. OF THE TANK TO BE COMPACTED IN 6" (MAX) LIFTS TO 95% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (-2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557; A MINIMUM OF THREE (3) COMPACTION TESTS PER 6" LIFT (COMPACTED THICKNESS) SHALL BE PERFORMED FOR THE FILL AREAS DIRECTLY BENEATH AND WITHIN 5.0 FT. OF THE TANK TO CONFIRM THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128



PREPARED FOR:



Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

GENERAL NOTES

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	REVISION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION	RMC	
1	5/14/21	ISSUED FOR CONSTRUCTION	RMC	

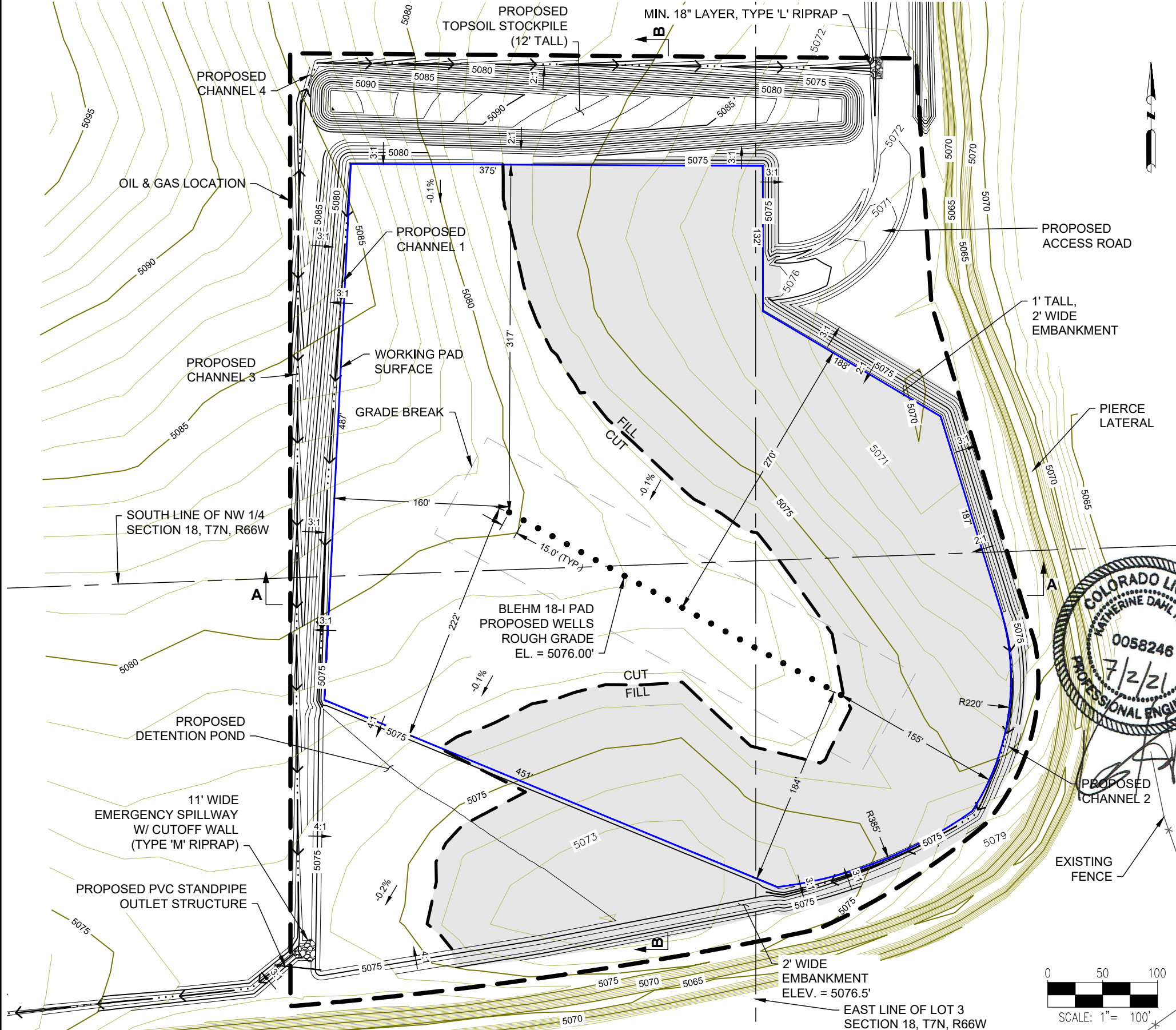
FIELD DATE:
02-24-2020

DRAWING DATE:
02-09-2021

DRAFTED BY:
RMC

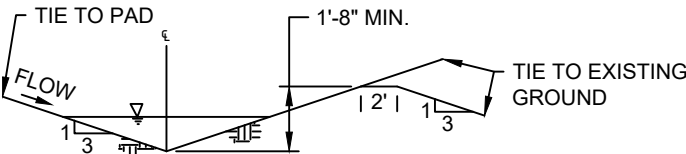
SHEET NO.
02 OF 15

BLEHM 18-I PAD
GRADING PLAN

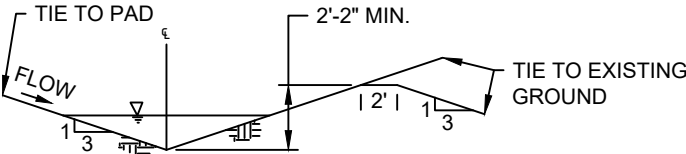


SITE QUANTITIES

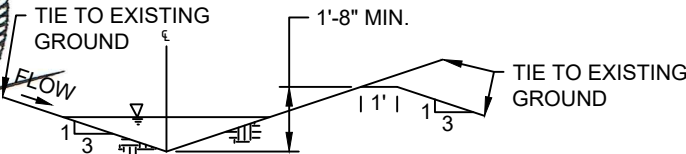
FINISHED GRADE ELEVATION	5076.5' - 5077.2'
ROUGH GRADE ELEVATION	5076.0' - 5076.7'
TOTAL CUT FOR SITE (BANK)	20,108 CY
TOTAL FILL FOR SITE	20,042 CY
NET EXCESS MATERIAL (BANK)	66 CY
TOPSOIL	8,308 CY
TOTAL DISTURBANCE AREA	11.7 ACRES
WORKING PAD SURFACE AREA	7.2 ACRES
ACCESS ROAD DISTURBANCE AREA	5.9 ACRES



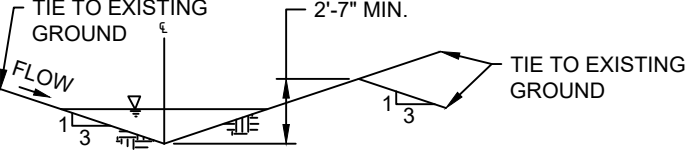
CHANNEL 1 TYPICAL DETAIL
N.T.S.



CHANNEL 2 TYPICAL DETAIL
N.T.S.



CHANNEL 3 TYPICAL DETAIL
N.T.S.



CHANNEL 4 TYPICAL DETAIL
N.T.S.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY
AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES,
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL
LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE
BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN
INDEPENDENTLY VERIFIED.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:



Bayswater Exploration &
Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:
PAD LAYOUT
SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION RMC	
1	5/14/21	ISSUED FOR CONSTRUCTION RMC	
2	7/2/21	ISSUED FOR CONSTRUCTION RMC	

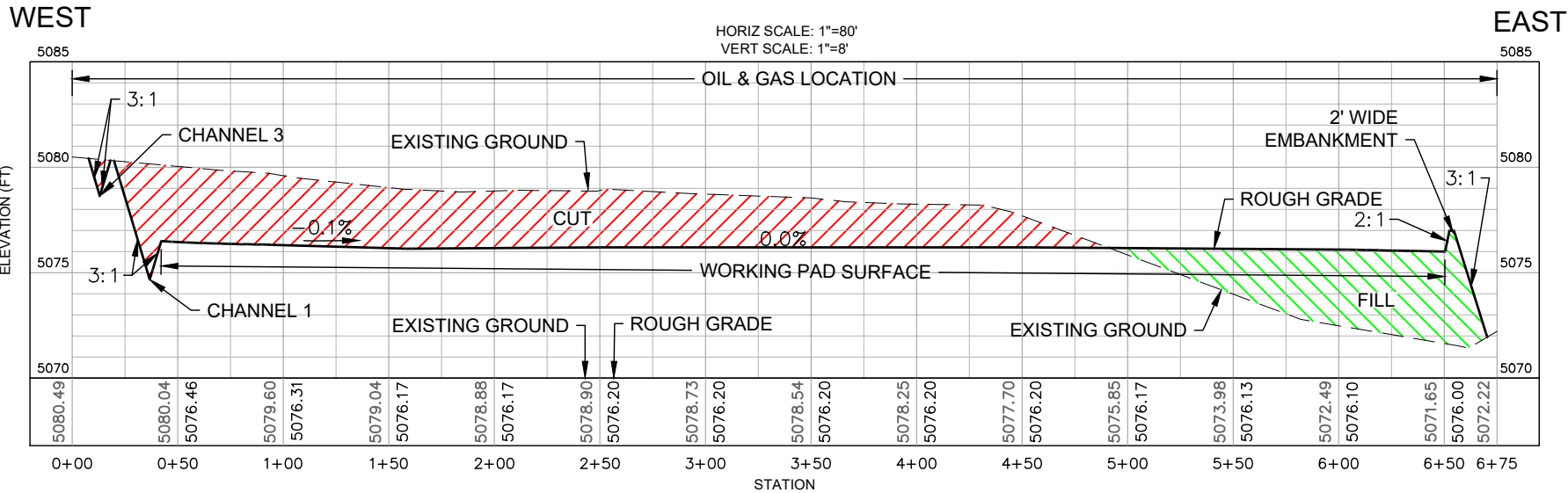
FIELD DATE:
02-24-2020

DRAWING DATE:
02-09-2021

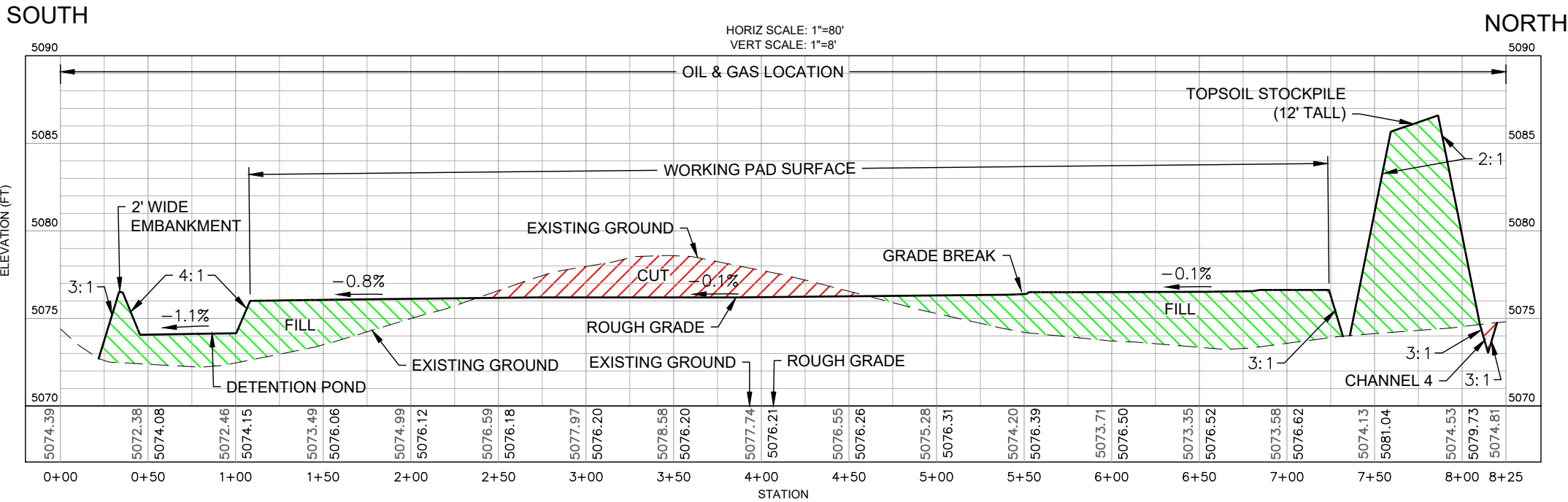
DRAFTED BY:
RMC

SHEET NO.
03 OF 15

BLEHM 18-I PAD
GRADING PLAN



SECTION A - LOOKING NORTH



SECTION B - LOOKING WEST

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED
LAND SURVEY AND SHOULD NOT BE RELIED UPON
TO DETERMINE BOUNDARY LINES, PROPERTY
OWNERSHIP OR OTHER PROPERTY INTERESTS.
PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD
VERIFIED AND MAY BE BASED UPON PUBLICLY
AVAILABLE DATA THAT ALSO HAS NOT BEEN
INDEPENDENTLY VERIFIED.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:
BAYSWATER
EXPLORATION & PRODUCTION, LLC

Bayswater Exploration &
Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

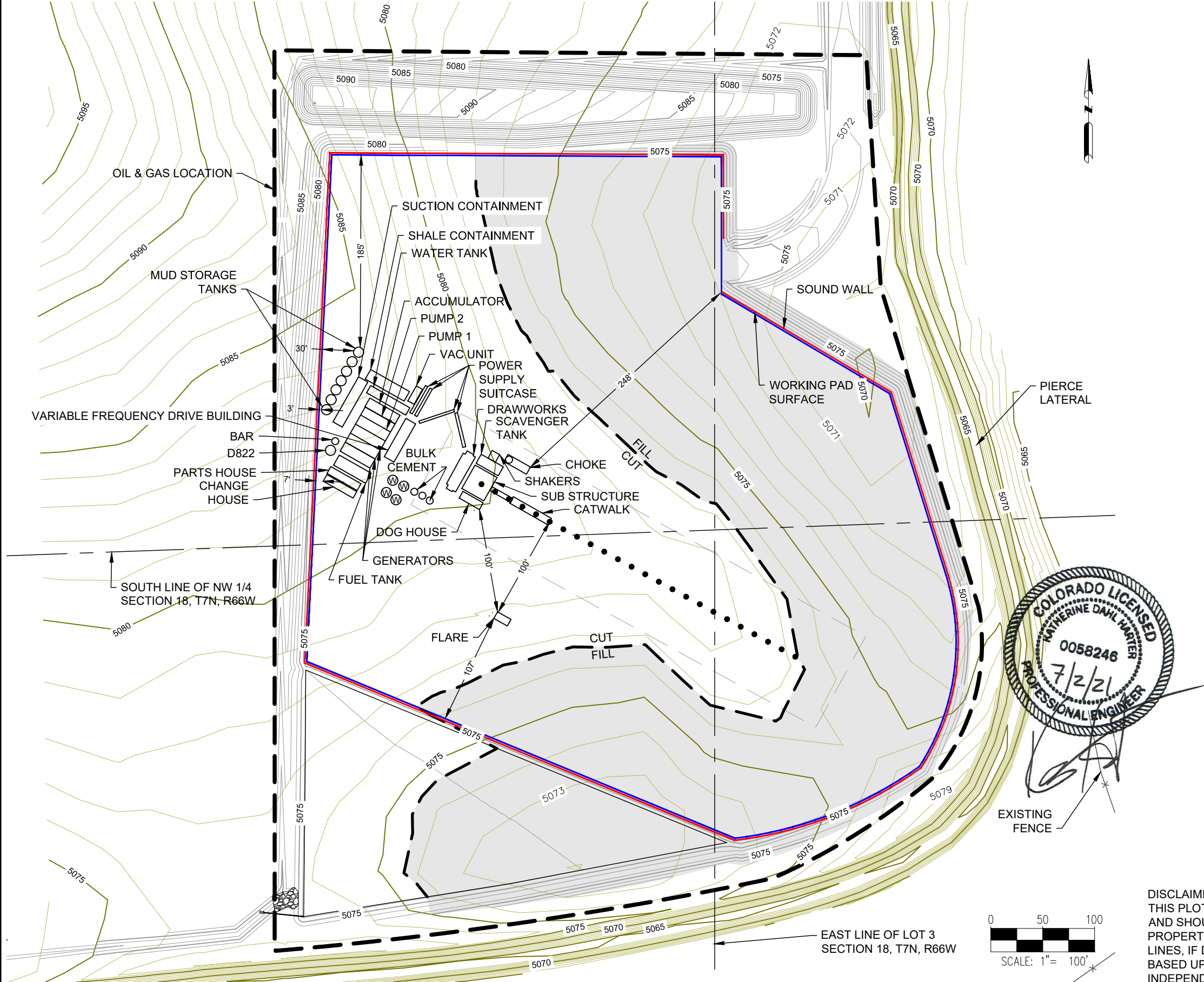
SHEET NAME:
CROSS SECTIONS
SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.,
WELD COUNTY, COLORADO



REV.	DATE	DESCRIPTION
0	02/09/21	ISSUED FOR CONSTRUCTION RMC
1	5/14/21	ISSUED FOR CONSTRUCTION RMC

FIELD DATE:
02-24-2020
DRAWING DATE:
02-09-2021
DRAFTED BY:
RMC
SHEET NO.
04 OF 15

BLEHM 18-I PAD
GRADING PLAN



DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY
AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES,
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL
LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE
BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN
INDEPENDENTLY VERIFIED.

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

RIG LAYOUT

SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION RMC	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION RMC	RMC
2	7/2/21	ISSUED FOR CONSTRUCTION RMC	RMC

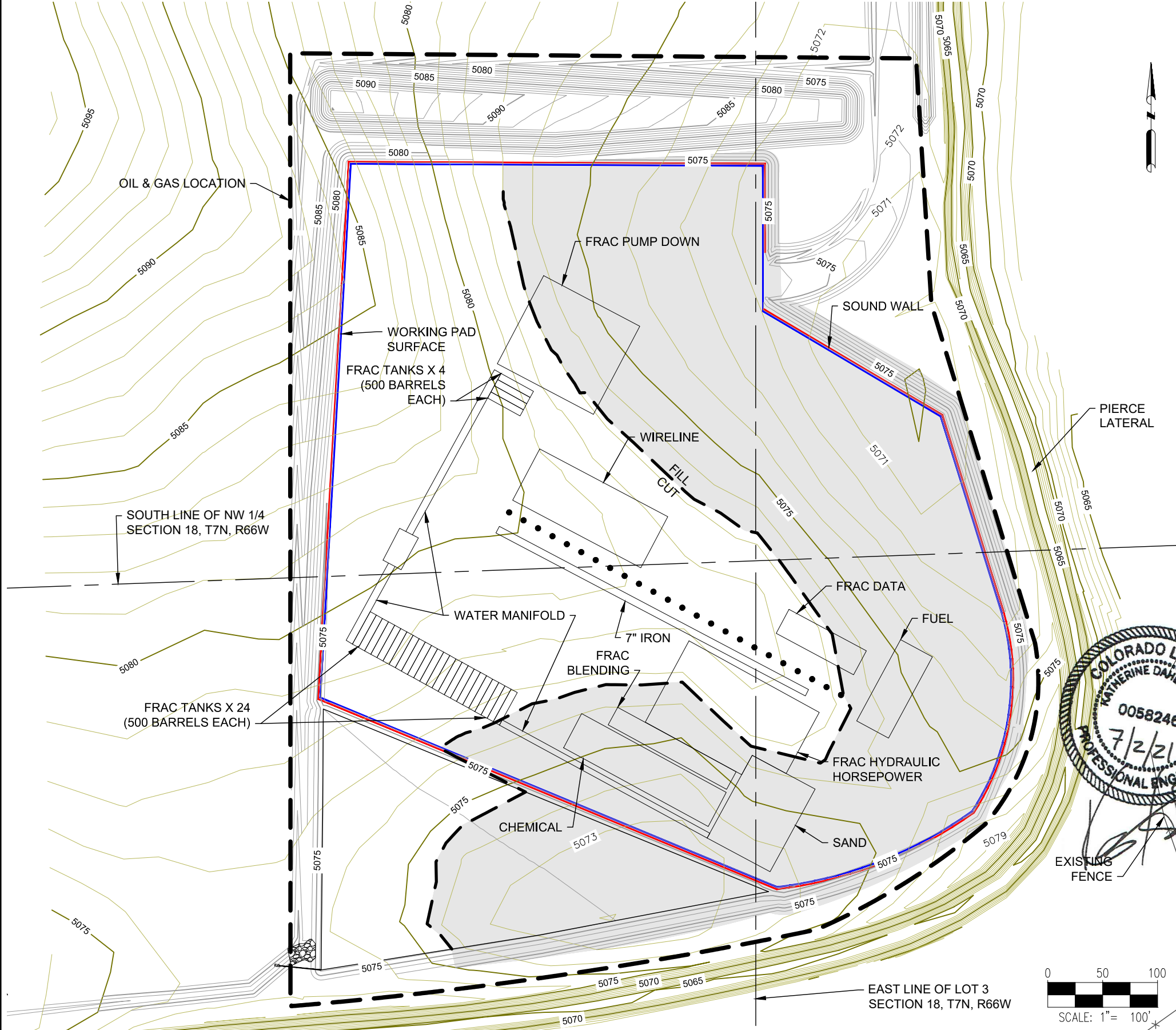
FIELD DATE:
02-24-2020

DRAWING DATE:
02-09-2021

DRAFTED BY:
RMC

SHEET NO.
05 OF 15

BLEHM 18-I PAD
GRADING PLAN



- NOTES:
- 1. NO MINION TANKS OR MLVT ARE PROPOSED FOR THIS LOCATION.
 - 2. NO GENERATORS ARE PROPOSED FOR THIS LOCATION.
 - 3. NO CONNECTIONS ARE PROPOSED FOR THIS LOCATION.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY
AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES,
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL
LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE
BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN
INDEPENDENTLY VERIFIED.

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

COMPLETION & STIMULATION LAYOUT

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION	RMC
2	7/2/21	ISSUED FOR CONSTRUCTION	RMC

FIELD DATE:

02-24-2020

DRAWING DATE:

02-09-2021

DRAFTED BY:

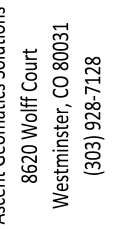
RMC

SHEET NO.

06 OF 15

This topographic map illustrates an oil and gas site layout. Key features include:

- Boundaries:** The site is bounded by a dashed line on the left and a solid line on the right. The bottom boundary is labeled 'EAST LINE OF LOT 3 SECTION 18, T7N, R66W'. A horizontal line on the left is labeled 'SOUTH LINE OF NW 1/4 SECTION 18, T7N, R66W'.
- Topography:** Contour lines are shown with elevations ranging from 5065 to 5095 feet.
- Site Features:**
 - WORKING PAD SURFACE:** A large rectangular area in the upper left.
 - SOUND WALL:** A dashed line running along the right side of the working pad.
 - FILL CUT:** A dashed line running diagonally across the center.
 - TEMPORARY CHOKE MANIFOLDS, TEMPORARY HIGH PRESSURE VESSEL, TEMPORARY FLOWBACK TANKS:** Located in the lower left.
 - TEMPORARY COMBUSTOR, TEMPORARY LOW PRESSURE VESSEL:** Located in the lower right.
 - PROPOSED FLOWLINES:** Lines connecting the vessels and tanks.
 - H2O and GAS:** Labels indicating the flow of water and gas through the system.
 - CUT FILL:** A hatched area in the lower center.
- Other Labels:**
 - OIL & GAS LOCATION:** Pointed to the top left corner.
 - PIERCE LATERAL:** Located on the right side.
 - EXISTING FENCE:** Indicated by a dashed line at the bottom right.
- Scale and Orientation:** A scale bar at the bottom right shows 0, 50, and 100 feet. A north arrow is located in the top right corner.
- Professional Engineer Seal:** A circular seal for Katherine Dahl, Colorado License 0058248, dated 7/2/21, is visible in the bottom right.



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

BLEHM 18-1 PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

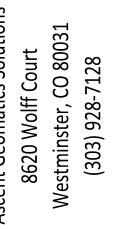
REV.	DATE	REVISION DESCRIPTION	INITIALS
0	02/09/21	ISSUED FOR CONSTRUCTION	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION	RMC
2	7/2/21	ISSUED FOR CONSTRUCTION	RMC

SHEET NO. 07 OF 15

This detailed site plan illustrates the proposed layout for an oil and gas facility. The plan includes the following components and labels:

- Proposed Equipment and Structures:**
 - PROPOSED TANK BATTERY
 - PROPOSED OIL & WATER TANKS
 - PROPOSED SUMP
 - PROPOSED ECD's
 - PROPOSED SCRUBBERS
 - PROPOSED GAS LIFT INJECTION MANIFOLD
 - PROPOSED WATER TRANSFER SKID
 - PROPOSED OIL LACT
 - PROPOSED SEPARATORS
 - PROPOSED PIPING
 - PROPOSED PIPING CORRIDOR
 - PROPOSED SALES GAS METERS
 - PROPOSED COMPRESSORS
 - PROPOSED INSTRUMENT AIR SKID
 - PROPOSED GAS LIFT COMPRESSOR
- Flowlines and Corridors:**
 - FLOWLINE CORRIDOR
 - PROPOSED FLOWLINES
 - PROPOSED SEPARATOR BERM
- Site Features and Boundaries:**
 - OIL & GAS LOCATION
 - SOUTH LINE OF NW 1/4 SECTION 18, T7N, R66W
 - WORKING PAD SURFACE
 - CUT FILL
 - EXISTING FENCE
 - EAST LINE OF LOT 3 SECTION 18, T7N, R66W
 - PIERCE LATERAL
- Topography and Dimensions:**
 - Contour lines are labeled with elevations such as 5070, 5075, 5080, 5085, and 5090.
 - Various dimensions are provided for setbacks and areas, including 30', 32', 37', 40', 42', 79', 150', 154', 184', and 222'.
- Professional Information:**
 - Professional Engineer Seal: COLORADO, KATHERINE DAVIS, 005824, 7/2/20, PROFESSIONAL ENGINEER.
 - Scale: 1" = 100'
 - North Arrow pointing towards the top right.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY
AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES,
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL
LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE
BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN
INDEPENDENTLY VERIFIED.



BAYSWATER
EXPLORATION & PRODUCTION, LLC

**Bayswater Exploration &
Production, LLC**
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

PRODUCTION LAYOUT

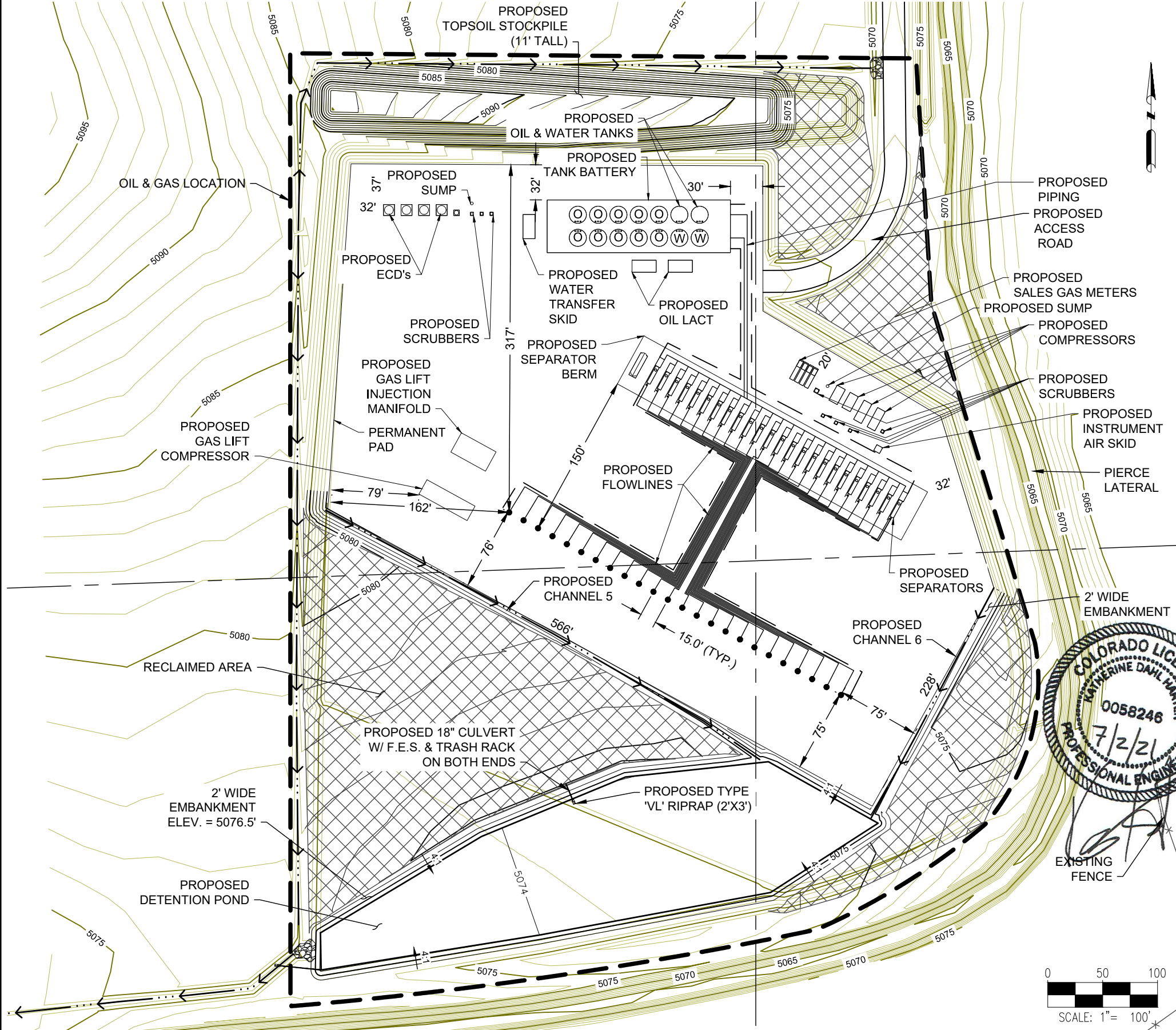
SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INITIALS
0	02/09/21	ISSUED FOR CONSTRUCTION	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION	RMC
2	7/2/21	ISSUED FOR CONSTRUCTION	RMC

FIELD DATE:	02-24-2020
DRAWING DATE:	02-09-2021
DRAFTED BY:	RMC
SHEET NO.	08 OF 15

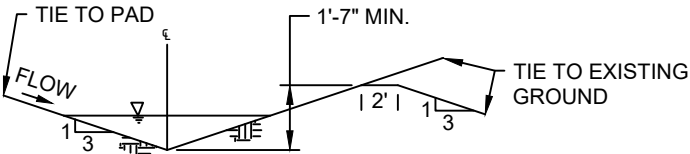
BLEHM 18-I PAD
GRADING PLAN



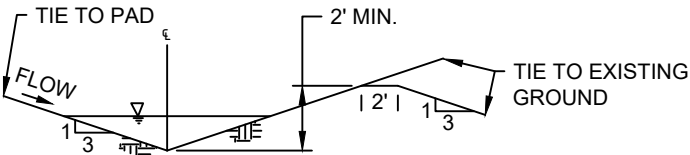
SITE QUANTITIES

TOTAL CUT FOR SITE (BANK)	3,453 CY
TOTAL FILL FOR SITE	3,410 CY
NET EXCESS MATERIAL (BANK)	43 CY
TOPSOIL TO BE REPLACED	1,694 CY
EXCESS TOPSOIL REMAINING	6,614 CY
TOTAL RECLAIMED AREA	2.5 AC
PERMANENT DISTURBANCE AREA	9.2 AC
OIL & GAS LOCATION DISTURBANCE AREA	11.7 AC

LEGEND:
 RECLAIMED AREA



CHANNEL 5 TYPICAL DETAIL
N.T.S.



CHANNEL 6 TYPICAL DETAIL
N.T.S.



DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

INTERIM-RECLAMATION LAYOUT

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION RMC	
1	5/14/21	ISSUED FOR CONSTRUCTION RMC	
2	7/2/21	ISSUED FOR CONSTRUCTION RMC	

FIELD DATE:

02-24-2020

DRAWING DATE:

02-09-2021

DRAFTED BY:

RMC

SHEET NO.

09 OF 15

MIN. 18" LAYER, TYPE 'L' RIPRAP

PROPOSED CHANNEL 4

OIL & GAS LOCATION

PROPOSED CHANNEL 3

PROPOSED SEDIMENT CONTROL LOG

TEMPORARY SEEDING AND/OR HYDROMULCH SURFACE ROUGHENING

PROPOSED CHANNEL 1

SOUTH LINE OF NW 1/4 SECTION 18, T7N, R66W

TEMPORARY SEEDING AND/OR HYDROMULCH SURFACE ROUGHENING

PROPOSED DETENTION POND

MIN. 18" LAYER TYPE 'L' RIPRAP (2'x4')

MIN. 24" LAYER TYPE 'M' RIPRAP

FILL CUT

PROPOSED SEDIMENT CONTROL LOG

1' TALL, 2' WIDE EMBANKMENT (SEE NOTE 1)

PIERCE LATERAL

PROPOSED CHANNEL 2

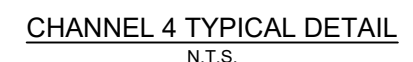
EXISTING FENCE

EAST LINE OF LOT 3 SECTION 18, T7N, R66W

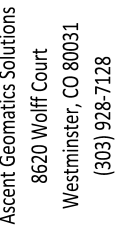
COLORADO LICENSE
KATHERINE DAHL
0058246
7/2/21
PROFESSIONAL ENGINEER

0 50 100
SCALE: 1" = 100'

1. A BERM IS PROPOSED AT THE TOP OF ALL FILL SLOPES. WHICH WILL ACT AS TERTIARY CONTAINMENT FOR THE LOCATION.



DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY
AND SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES,
PROPERTY OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL
LINES, IF DEPICTED HAVE NOT BEEN FIELD VERIFIED AND MAY BE
BASED UPON PUBLICLY AVAILABLE DATA THAT ALSO HAS NOT BEEN
INDEPENDENTLY VERIFIED.



BAYSWATER
EXPLORATION & PRODUCTION, LLC

**Bayswater Exploration &
Production, LLC**
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION RMC	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION RMC	RMC

FIELD DATE:
02-24-2020

DRAWING DATE:
02-09-2021

DRAFTED BY:
RMC

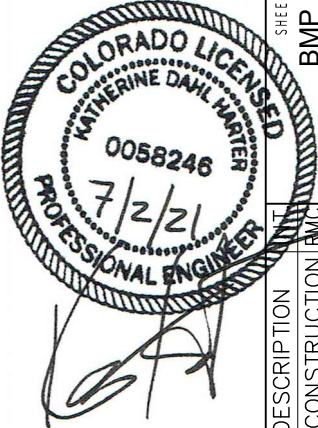
SHEET NO. 10 OF 15

BLEHM 18-I PAD
GRADING PLAN

STANDARD EROSION AND SEDIMENT CONTROL PLAN NOTES

1. THE OPERATOR HOLDS A CURRENT STORMWATER CONSTRUCTION PERMIT AND STORMWATER MANAGEMENT PLAN (SWMP) IN ACCORDANCE WITH COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT REQUIREMENTS. CONSTRUCTION, MATERIALS MANAGEMENT, AND BMP INSTALLING/MAINTENANCE WILL BE CONDUCTED ACCORDING THE SWMP. BMPS WILL BE ROUTINELY INSPECTED AS ESTABLISHED IN THE SWMP INSPECTION SCHEDULE. INSPECTION REPORTS, REPAIR LOGS, ETC. ARE MAINTAINED IN AN ONLINE DATABASE, AND AVAILABLE TO THE DEPARTMENT OR OTHER AGENCIES UPON REQUEST.
2. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM WELD COUNTY PUBLIC WORKS.
3. CLEARING, GRUBBING, AND TOPSOIL STRIPPED SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THE E&S PLAN.
4. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
5. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION.
6. SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
7. ALL SEDIMENT REMOVED FROM BMPS SHALL BE PLACED WITHIN THE RIGHT-OF-WAY EXCEPT IN WETLAND AREAS OR AS OTHERWISE DESCRIBED IN THE PLAN DRAWINGS.
8. AREAS WHICH ARE TO BE TOP SOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES - 6 TO 12 INCHES ON COMPACTED SOILS - PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
9. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
10. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPS.

11. UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
12. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
13. AT STREAM CROSSINGS, 50' BUFFER AREAS SHOULD BE MAINTAINED. ON BUFFERS, CLEARING, SOD DISTURBANCES, EXCAVATION, AND EQUIPMENT TRAFFIC SHOULD BE MINIMIZED. ACTIVITIES SUCH AS STACKING LOGS, BURNING CLEARED BRUSH, DISCHARGING RAINWATER FROM TRENCHES, WELDING PIPE SECTIONS, REFUELING AND MAINTAINING EQUIPMENT SHOULD BE ACCOMPLISHED OUTSIDE OF BUFFERS.
14. MULCH WITH NETTING OR EROSION CONTROL MATS MUST BE INSTALLED ON ALL SLOPES 3:1 AND STEEPER AND WITHIN 100' OF SPECIAL PROTECTION WATERS OR 50' OF SURFACE WATERS.
15. THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE, OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS. THE CONTRACTOR SHALL NOT ILLEGALLY BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIAL OR WASTES AT THE SITE.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:
BMP NOTES

SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION
0	02/09/21	ISSUED FOR CONSTRUCTION RMC
1	5/14/21	ISSUED FOR CONSTRUCTION RMC

FIELD DATE:
02-24-2020

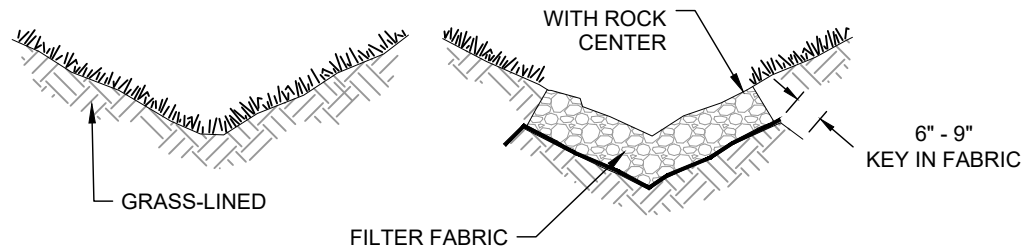
DRAWING DATE:
02-09-2021

DRAFTED BY:
RMC

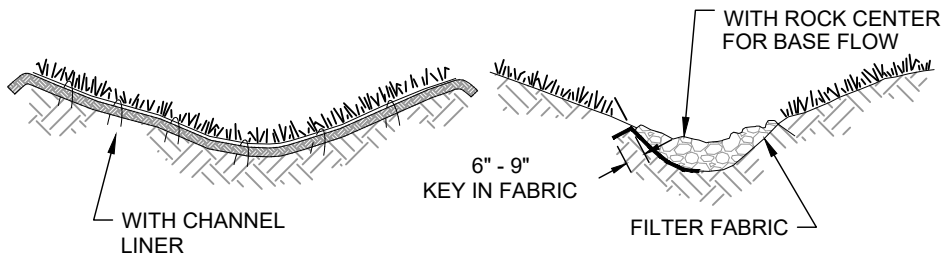
SHEET NO.
11 OF 15

BLEHM 18-I PAD
GRADING PLAN

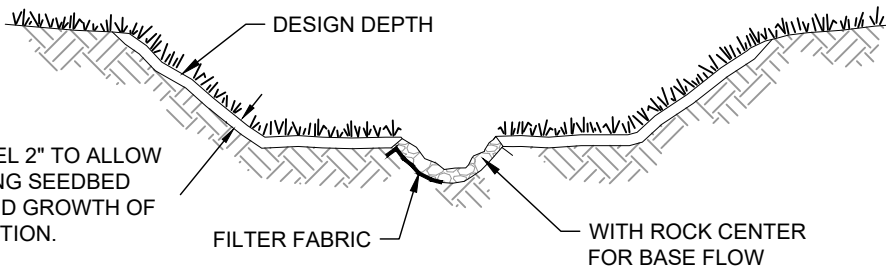
TYPICAL V-SHAPED CHANNEL CROSS-SECTION



TYPICAL PARABOLIC CHANNEL CROSS-SECTION



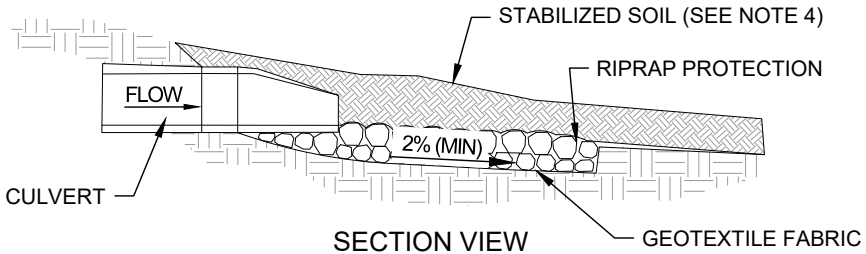
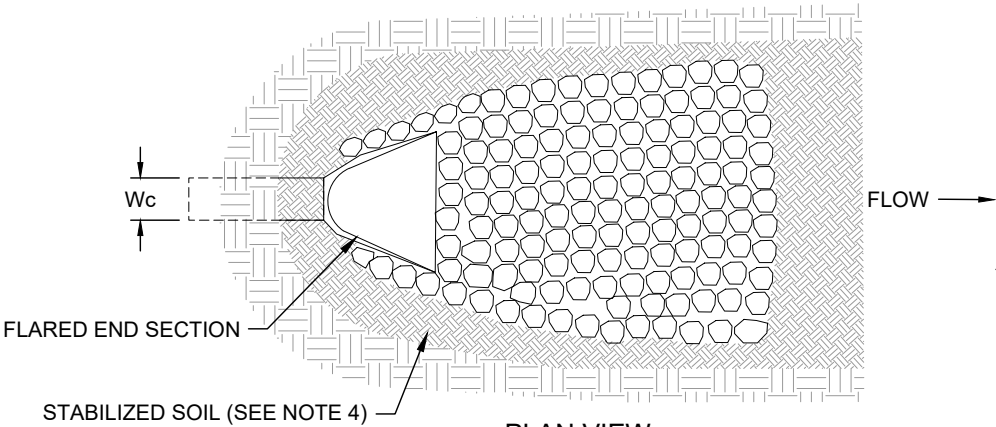
TYPICAL TRAPEZOIDAL CHANNEL CROSS-SECTION



OVERCUT CHANNEL 2" TO ALLOW
BULKING DURING SEEDBED
PREPARATION AND GROWTH OF
VEGETATION.

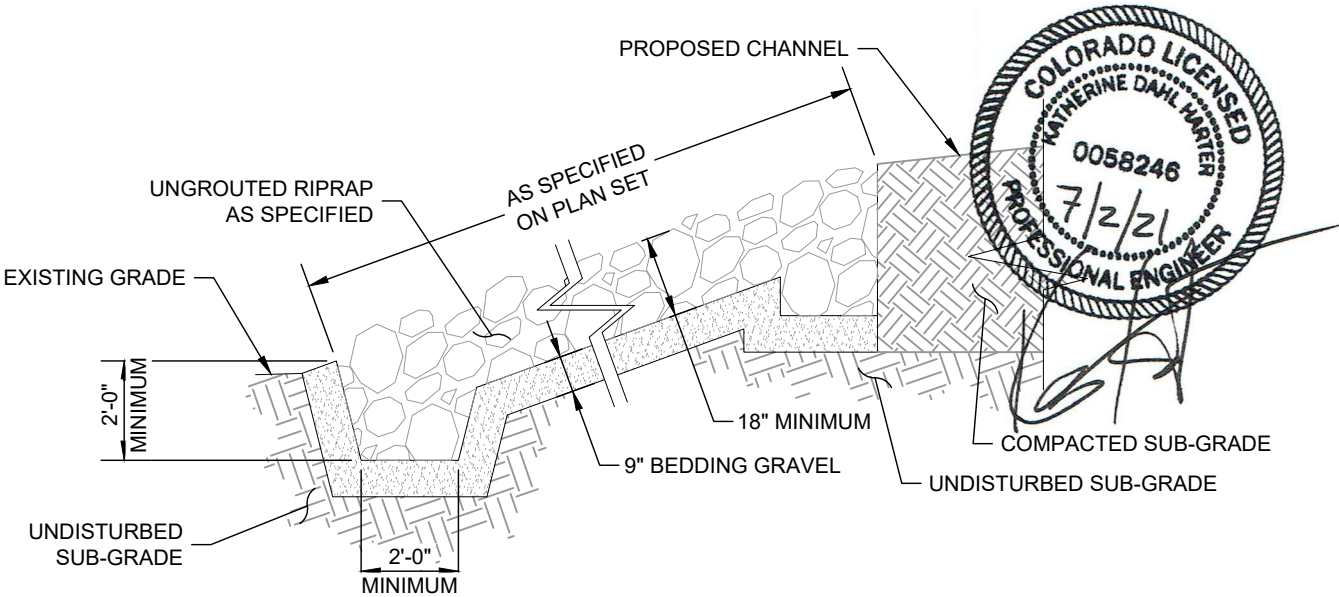
TYPICAL GRASS-LINED CHANNELS

SCALE: NOT TO SCALE



OUTLET PROTECTION

SCALE: NOT TO SCALE



RIPRAP

SCALE: NOT TO SCALE

- OUTLET PROTECTION NOTES:**
1. THE MINIMUM THICKNESS OF RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 4".
 2. INSTALL FABRIC TO PREVENT SOIL EROSION BENEATH RIPRAP. RIPRAP MAY BE INSTALLED USING MECHANICAL EQUIPMENT. AVOID DAMAGING FABRIC.
 3. STABILIZED ALL DISTRIBUTED AREAS IMMEDIATELY AFTER CONSTRUCTION.
 4. INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS AND SPRING SNOWMELT. REPAIR AS REQUIRED.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128



Bayswater Exploration &
Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:
BMP TYPICAL DETAILS
SURFACE LOCATION:
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

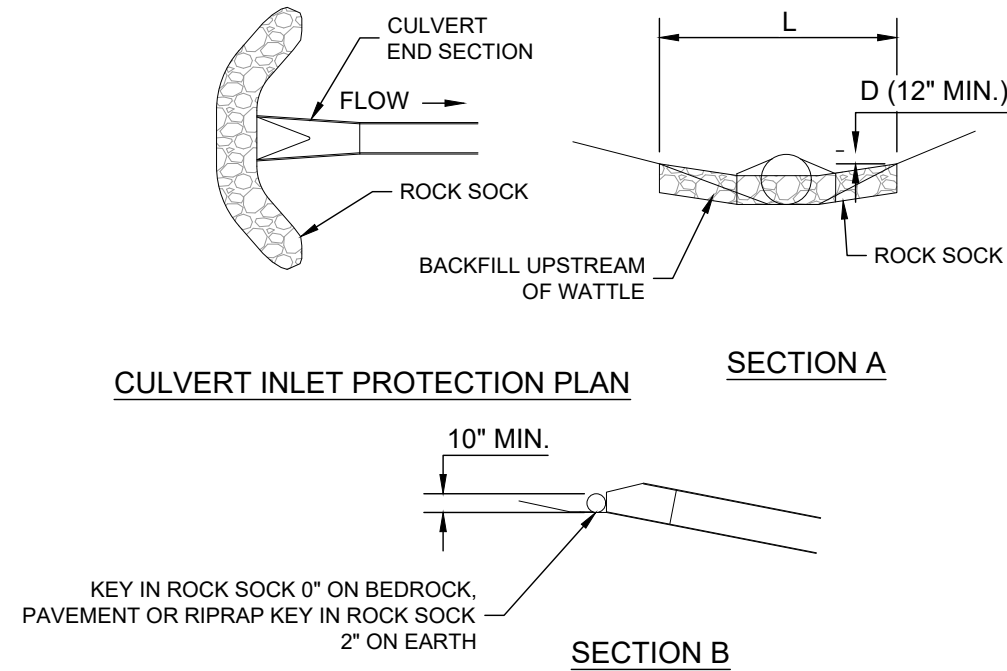
REV.	DATE	REVISION DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION RMC	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION RMC	RMC

FIELD DATE:
02-24-2020

DRAWING DATE:
02-09-2021

DRAFTED BY:
RMC

SHEET NO.
12 OF 15



CULVERT INLET PROTECTION

SCALE: NOT TO SCALE

GENERAL INLET PROTECTION INSTALLATION NOTES:

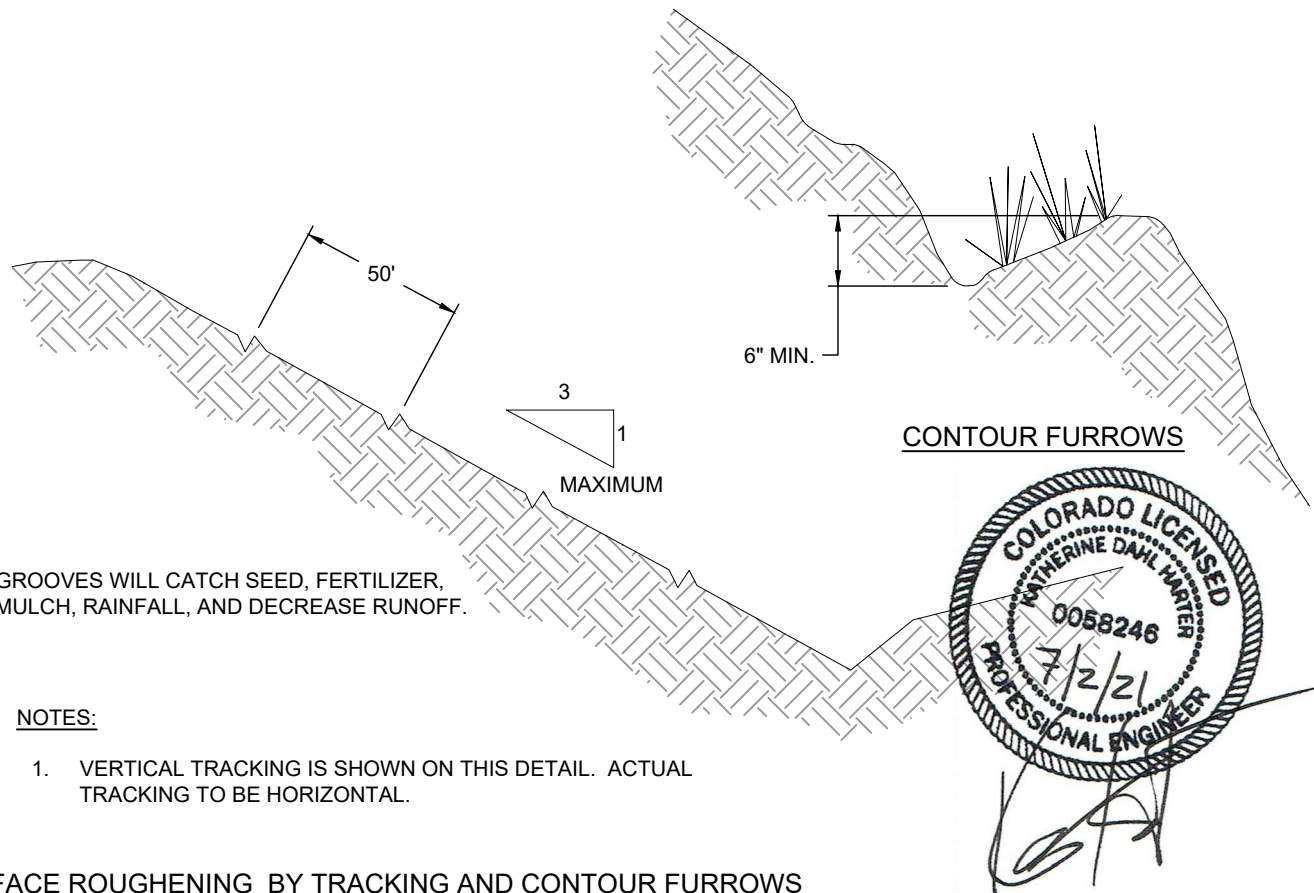
- SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6).
- INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.

INLET PROTECTION 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.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLET IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

BLEHM 18-I PAD GRADING PLAN

TRACKING WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, RAINFALL, AND REDUCE RUNOFF.



SURFACE ROUGHENING BY TRACKING AND CONTOUR FURROWS

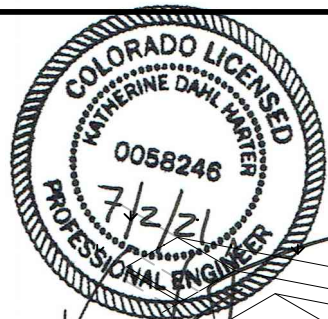
SCALE: NOT TO SCALE

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

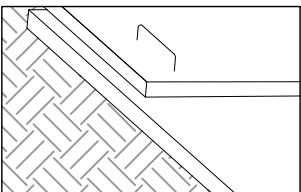
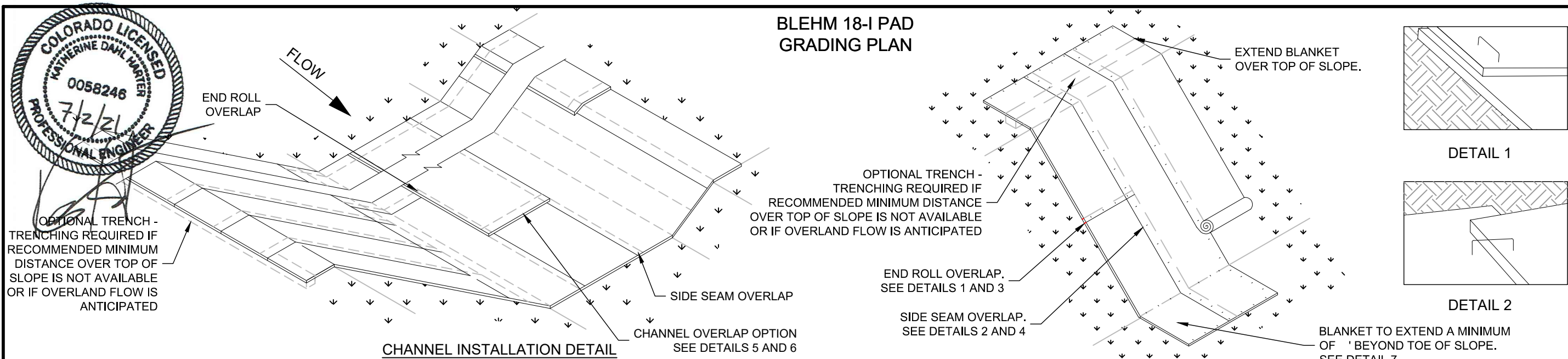
PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

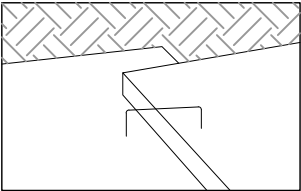
SHEET NAME:		BMP TYPICAL DETAILS	
		SURFACE LOCATION	
		BLEHM 18-I PAD LOT 3 SECTION 18, T7N R66W 6TH P.M. WELD COUNTY, COLORADO	
REV.	DATE	REVISION DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION	RMC
FIELD DATE: 02-24-2020			
DRAWING DATE: 02-09-2021			
DRAFTED BY: RMC			
SHEET NO. 13 OF 15			



BLEHM 18-I PAD
GRADING PLAN

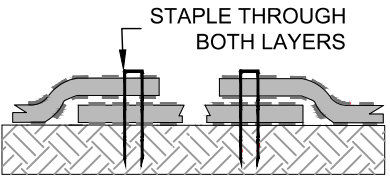


DETAIL 1

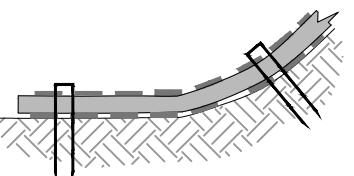


DETAIL 2

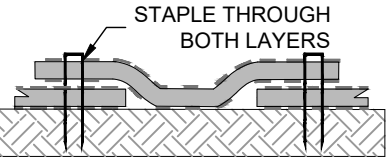
SLOPE INSTALLATION DETAIL



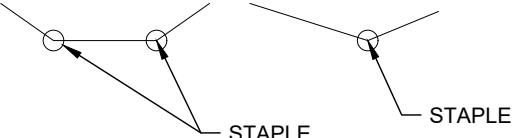
DETAIL 5
CHANNEL INSTALLATION
OPTION 1



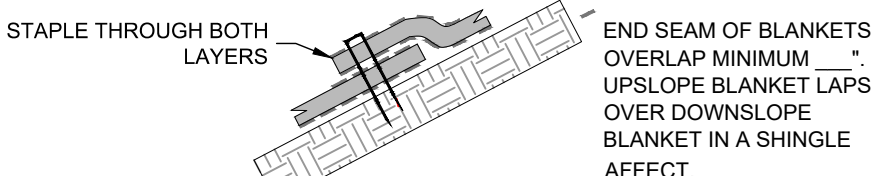
DETAIL 7
TOE OF SLOPE INSTALLATION



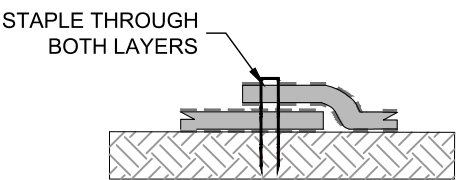
DETAIL 6
CHANNEL INSTALLATION
OPTION 2



CRITICAL STAPLE LOCATIONS IN
CHANNELS

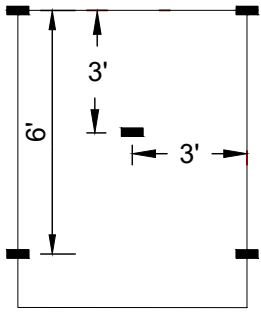


DETAIL 3
END ROLL OVERLAP

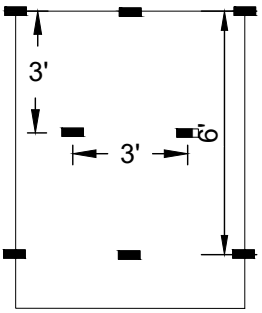


DETAIL 4
SIDE SEAM OVERLAP

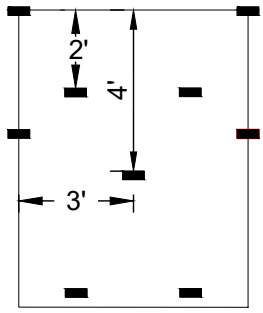
STAPLE
PATTERNS



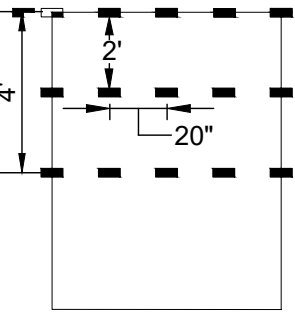
0.7 STAPLES/YD²
4:1 SLOPES



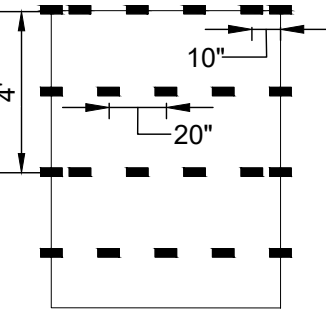
1.2 STAPLES/YD²
3:1 SLOPES



1.75 STAPLES/YD²
2:1 SLOPES



3.5 STAPLES/YD²
MED. FLOW CHANNEL

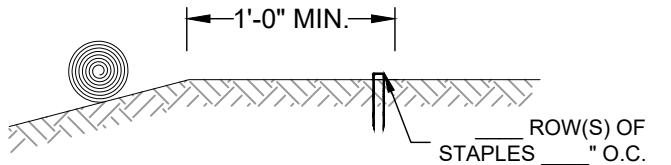


3.8 STAPLES/YD²
1:1 SLOPES OR
HIGH FLOW CHANNEL

EROSION CONTROL MAT INSTALLATION NOTES:

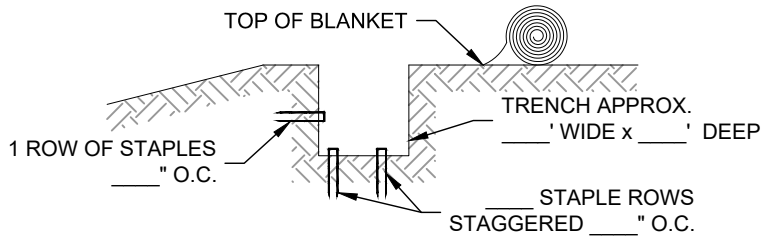
1. STAPLE PATTERNS ARE DEPENDENT UPON SLOPE CONDITIONS AND MANUFACTURER'S RECOMMENDATIONS.
2. STAPLES OF 11 GAUGE OR HEAVIER SHALL BE USED TO HOLD MATS AND NETS IN PLACE.
3. STAPLES SHALL BE U-SHAPED WITH A 1-INCH CROWN.
4. STAPLE LENGTHS ARE DETERMINED BASED ON SOIL CONDITION. SEE WI STANDARD 484-MULCHING FOR STAPLE LENGTH REQUIREMENTS.
5. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR BOTH END AND EDGE OVERLAP LENGTH.
6. CONSIDER THE USE OF BIODEGRADABLE STAPLES IN LOCATIONS WHERE WIRE STAPLES ARE DETERMINED TO BE A RISK.

TRENCH ANCHOR
OPTION 1

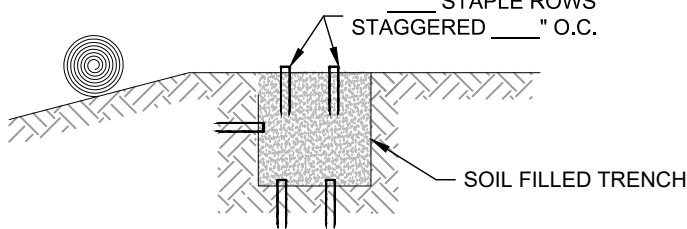


CREST ANCHOR - NO TRENCH

STEP 1

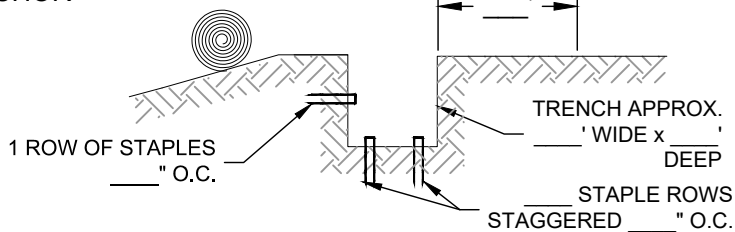


STEP 2

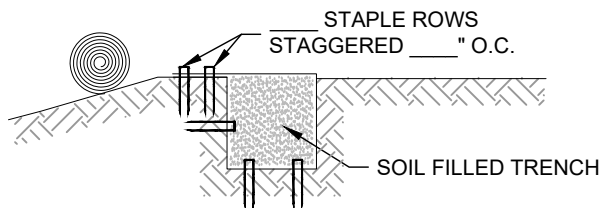


TRENCH ANCHOR
OPTION 2

STEP 1



STEP 2



EROSION CONTROL MAT INSTALLATION

SCALE: NOT TO SCALE



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:



Bayswater Exploration &
Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:
BMP TYPICAL DETAILS

SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	02/09/21	ISSUED FOR CONSTRUCTION RMC	RMC
1	5/14/21	ISSUED FOR CONSTRUCTION RMC	RMC

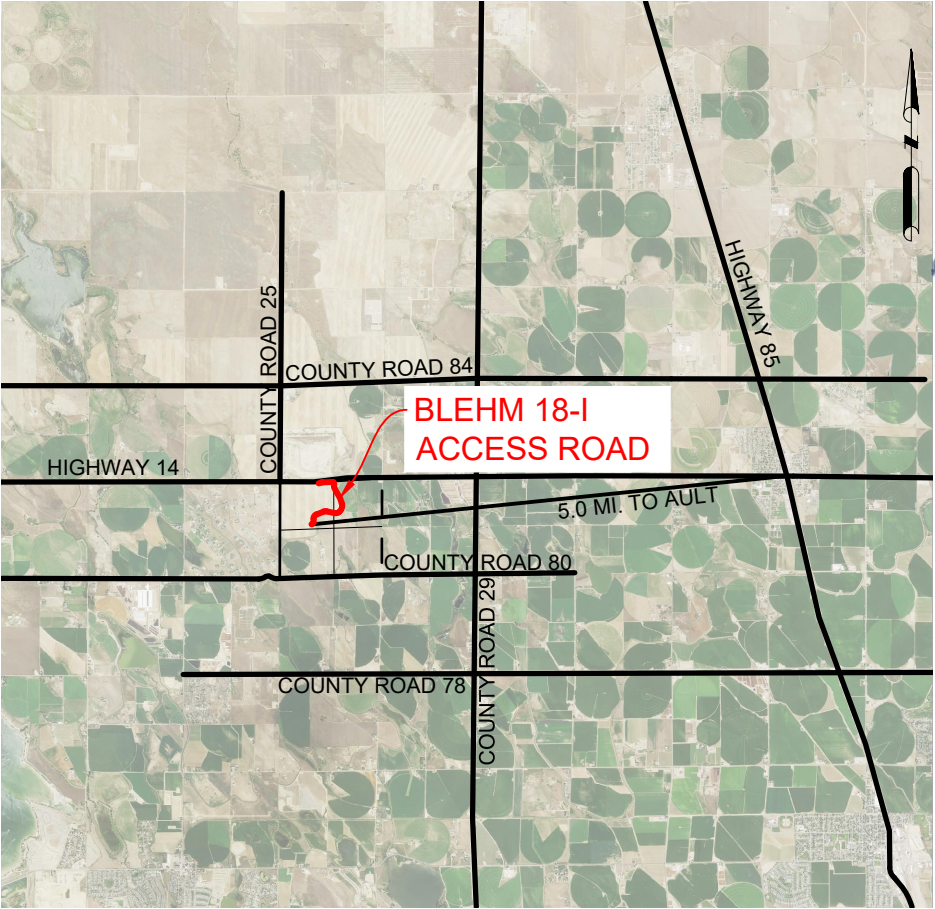
FIELD DATE:
02-24-2020

DRAWING DATE:
02-09-2021

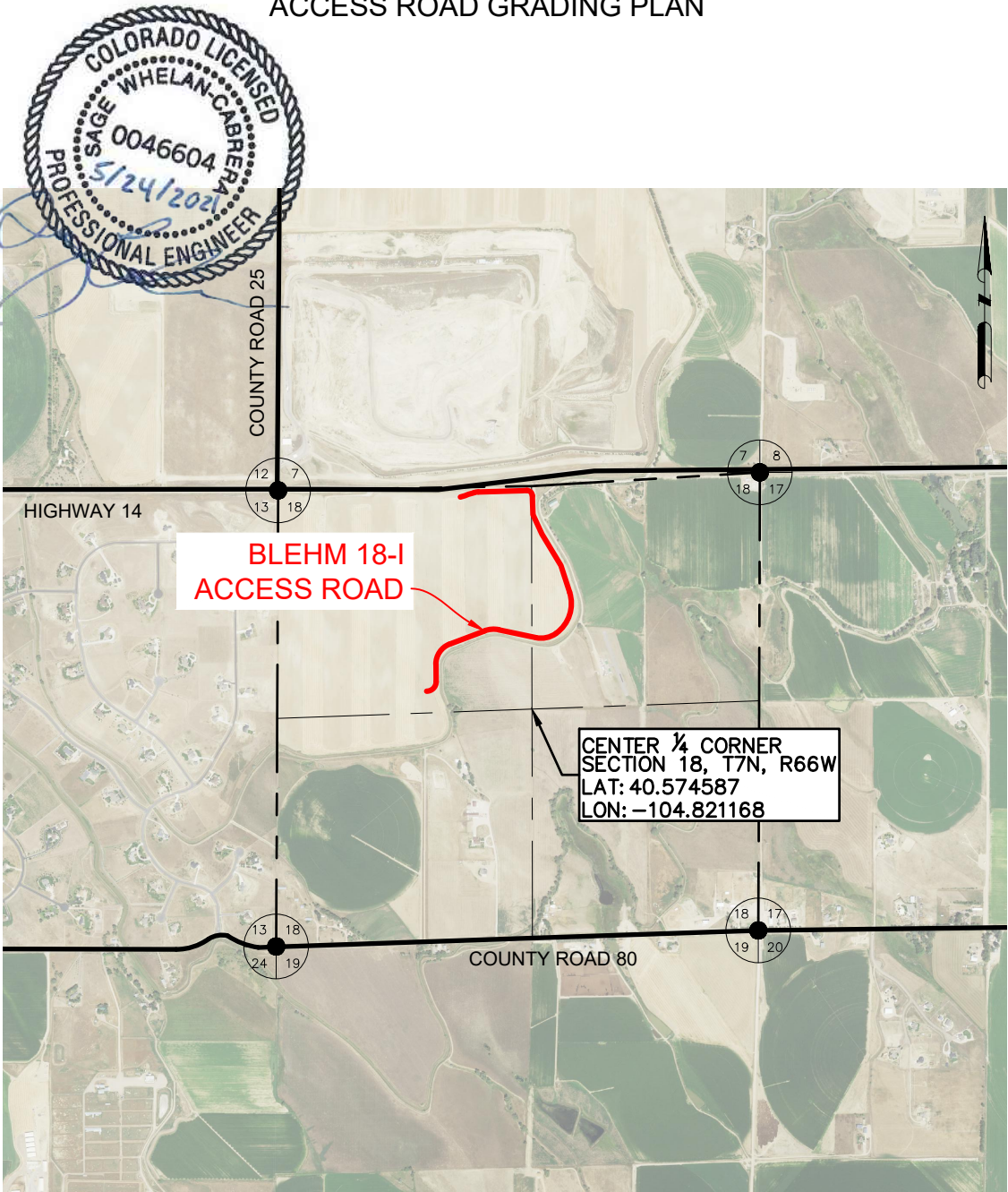
DRAFTED BY:
RMC

SHEET NO.
14 OF 15

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN



REGIONAL MAP
N.T.S.




VICINITY MAP
N.T.S.

DRAWING INDEX		
SHEET NO.	TITLE	REV.
1	COVER SHEET	0
2	GENERAL NOTES	0
3	QUANTITIES & LEGEND	0
4	PLAN & PROFILE	0
5	PLAN & PROFILE	0
6	PLAN & PROFILE	0
7	PLAN & PROFILE	0
8	PLAN & PROFILE	0
9	PLAN & PROFILE	0
10	ACCESS ROAD STANDARD DETAILS	0
11	ACCESS ROAD STANDARD DETAILS	0
12	BMP TYPICAL DETAILS	0
13	BMP TYPICAL DETAILS	0

DATA SOURCE:
AERIAL IMAGERY: NAIP 2019


PUBLICLY AVAILABLE DATA SOURCES HAVE NOT
BEEN INDEPENDENTLY VERIFIED BY ASCENT.

DISCLAIMER:
THIS PLOT DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND
SHOULD NOT BE RELIED UPON TO DETERMINE BOUNDARY LINES, PROPERTY
OWNERSHIP OR OTHER PROPERTY INTERESTS. PARCEL LINES, IF DEPICTED
HAVE NOT BEEN FIELD VERIFIED AND MAY BE BASED UPON PUBLICLY
AVAILABLE DATA THAT ALSO HAS NOT BEEN INDEPENDENTLY VERIFIED.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:



Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

COVER SHEET

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP

FIELD DATE:

01-13-2021

DRAWING DATE:

05-11-2021

DRAFTED BY:

DP

SHEET NO.

01 OF 13

BLEHM 18-I PAD ACCESS ROAD GRADING PLAN

GENERAL NOTES

1. SHOULD ARTIFACTS OF POTENTIAL HISTORICAL SIGNIFICANCE BE ENCOUNTERED DURING EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CLIENT AND DISCONTINUE EXCAVATION IN THE AFFECTED AREA UNTIL OTHERWISE NOTIFIED BY THE CLIENT OR ENGINEER. ANY DAMAGE TO A DESIGNATED ARCHEOLOGICAL SITE AS A RESULT OF CONTRACTOR NEGLIGENCE SHALL BE THE SOLE RESPONSIBILITY OF CONTRACTOR.
2. DO NOT PERFORM ANY GRADING OR GRUBBING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR INTO NATURAL WATERCOURSES.
3. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
4. CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT DRAWINGS WITH ALL CHANGES IDENTIFIED. THE AS-BUILT FIELD DRAWINGS SHALL BE SUBMITTED TO CLIENT AT PROJECT COMPLETION.

SAFETY

5. THE CONTRACTOR IS RESPONSIBLE FOR JOB SITE SAFETY OF HIS OWN PERSONNEL, ALL VISITORS TO THE SITE, AND THE GENERAL PUBLIC. CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF ALL APPLICABLE HEALTH AND SAFETY STANDARDS INCLUDING, BUT NOT LIMITED TO, OSHA 29 CFR PARTS 1910 AND 1926 FOR GENERAL CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF DUST CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING ALL PHASES OF SITE PREP, EARTHWORKS AND GRADING.
7. UNLESS A SAFE EXCAVATION/TRENCH DEPTH IS SPECIFICALLY IDENTIFIED DURING THE PRECONSTRUCTION SAFETY ASSESSMENT BY QUALIFIED PERSONNEL, WHERE PERSONNEL ENTER EXCAVATIONS 4 FEET OR MORE IN DEPTH, PROTECT THE EXCAVATION WITH A SUPPORT SYSTEM OF SLOPING, SHORING, BRACING OR BY USE OF A TRENCH BOX MEETING OSHA SAFETY STANDARD; INSPECT SHORING AND/OR BRACING SYSTEMS DAILY AND AFTER RAINSTORMS OR OTHER HAZARD-INCREASING OCCURRENCE. ALSO PROVIDE SUCH PROTECTION IN EXCAVATIONS LESS THAN 4 FEET DEEP WHERE HAZARDOUS EARTH MOVEMENT MAY BE EXPECTED.
8. ALL CONTRACTORS PERFORMING SUBSURFACE EARTHWORKS MUST CONTACT 811 AT LEAST 3 BUSINESS DAYS PRIOR TO EXCAVATION AND AS REQUIRED BY LAW.

TOPSOIL, CLEARING AND GRUBBING

9. CONTRACTOR SHALL CLEAR AND GRUB PROJECT AREA PRIOR TO PERFORMING ANY EARTHWORKS. HOLE RESULTING FROM REMOVAL OF VEGETATION SHALL BE BACKFILLED, COMPACTED AND GRADED IN ACCORDANCE WITH THIS DRAWING PACKAGE, GENERAL NOTES AND SPECIFICATIONS WHERE APPLICABLE.
10. CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIAL INCLUDING, BUT NOT LIMITED TO VEGETATION, ROCK, DEBRIS, EXCESS SOILS, DEMOLITION MATERIALS, AND CONSTRUCTION MATERIALS. ACQUISITION OF OFF-SITE DISPOSAL AREA IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS OTHERWISE INDICATED BY CLIENT.
11. PERFORM ALL CLEARING, GRUBBING AND EARTHWORKS IN CONFORMANCE WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS, INCLUDING REQUIREMENTS FOR HANDLING, REMOVING AND DISPOSING OF CONTAMINATED SOIL, IF APPLICABLE.
12. NO VEGETATION OVERHANGING THE CONSTRUCTION AREA, BUT ROOTED OUTSIDE SAID AREA, SHALL BE REMOVED WITHOUT APPROVAL FROM THE CLIENT OR CONSTRUCTION MANAGER.
13. SHOULD THE CONTRACTOR DISCOVER THAT THE DEPTH OF TOPSOIL EXCEEDS THE DEPTH INDICATED ON THE PLANS, CONTRACTOR SHALL NOTIFY THE CLIENT AND ENGINEER IN WRITING TO DETERMINE IF ANY REVISIONS TO THE EARTHWORKS QUANTITIES AND DESIGN ARE REQUIRED. UNDER SUCH CIRCUMSTANCES THE CONTRACTOR SHALL NOT PROCEED WITH TOPSOIL REMOVAL UNTIL DIRECTED TO DO SO BY THE CLIENT OR CONSTRUCTION MANAGER.

GRADING AND COMPACTION

14. WHERE A GEOTECHNICAL REPORT EXISTS FOR THIS PROJECT, CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND ADHERING TO THE REQUIREMENTS OF THE REPORT. SHOULD A DISCREPANCY BETWEEN THE PROJECT SITE GEOTECHNICAL REPORT AND THESE PLANS EXIST, CONTRACTOR TO INFORM THE ENGINEER IN WRITING BEFORE PROCEEDING WITH EARTHWORKS ACTIVITIES. CONTRACTOR SHALL NOT PROCEED WITH EARTHWORKS ACTIVITIES UNTIL DIRECTED TO DO SO BY THE ENGINEER AND CLIENT.
15. CONTRACTOR SHALL PROPERLY DISPOSE OF EXCESS EXCAVATED MATERIAL OFF SITE UNLESS DIRECTED OTHERWISE BY THE CLIENT OR ENGINEER.
16. ONSITE EXCAVATED MATERIAL STORAGE SHALL BE IN THE LOCATION INDICATED BY THE CLIENT OR AS INDICATED ON THESE PLANS. CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES FOR THE STOCKPILES AS APPROPRIATE.
17. ANY ROCK UNearthED DURING EXCAVATION WITH A LONG AXIS LENGTH THAT EXCEEDS 5 INCHES AND IS NOT REQUIRED FOR SITE DEVELOPMENT, SHALL BE DISPOSED OF BY THE CONTRACTOR UNLESS INDICATED OTHERWISE BY THE CLIENT OR ENGINEER.
18. CONTRACTOR TO PROVIDE AND VERIFY THAT ADEQUATE COMPACTION HAS BEEN ACHIEVED PRIOR TO INDEPENDENT CONFIRMATION OF COMPACTION BY A QUALIFIED INSPECTOR. OPTIMUM MOISTURE CONTENT AND MAXIMUM COMPACTED DENSITY TO BE INDICATED IN THESE DRAWINGS OR IN THE ASSOCIATED GEOTECHNICAL REPORT. ON SPEC MATERIAL TO BE PLACED AND COMPACTED IN 6-INCH HORIZONTAL LIFTS.

- COMPACTION TO BE VERIFIED BY NUCLEAR METHOD OR ASTM D-6938 OR BY AN EQUIVALENT METHOD APPROVED BY THE ENGINEER.
20. COMPACTION TESTING FREQUENCY FOR ROADS AND PARKING AREAS SHALL BE 1 TEST (ASTM D-6938) PER 12 FT. OF WIDTH PER 500 FT. OF LENGTH, OR FRACTION THEREOF PER 6" LIFT UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
21. COMPACTION TEST FREQUENCY FOR AREAS UNDER STRUCTURAL FOUNDATIONS SHALL BE 1 TEST (ASTM D-6938) FOR EACH 1,000 FT² OR FRACTION THEREOF PER 6" LIFT, UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
22. COMPACTION TEST FREQUENCY FOR DETENTION OR RETENTION POND FILL EMBANKMENTS OR ANY EMBANKMENT IMPOUNDING WATER SHALL BE A MINIMUM OF 1 TEST (ASTM D-6938) PER 2,500 FT² OR FRACTION THEREOF PER 6" LIFT UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
23. COMPACTION TEST FREQUENCY FOR REMAINING AREAS (NOT INCLUDING STRUCTURAL FOUNDATIONS, ROADS AND DETENTION POND EMBANKMENTS) IN NON-HEAVY LOADING AREAS SHALL BE 1 SPOT CHECKS PER 40,000 FT² PER 6" LIFT IN FILL AREAS UNLESS INDICATED OTHERWISE IN THESE PLANS OR IN THE ASSOCIATED GEOTECHNICAL REPORT.
24. CONSTRUCTION MANAGER, INSPECTOR AND/OR ENGINEER MAY REQUIRE THAT MORE COMPACTION TESTS ARE NEEDED BASED ON FIELD OBSERVATIONS. THE RECOMMENDED NUMBER OF COMPACTION TESTS INDICATED IN THESE GENERAL NOTES CONSTITUTES THE MINIMUM NUMBER OF TESTS; MORE TESTS MAY BE WARRANTED BASED ON FINDINGS IN THE FIELD.
25. THE CONTRACTOR SHALL SCARIFY SUBGRADE 6" (MIN.) WITH A MOISTURE CONDITION AND COMPACT TO 95% MAXIMUM ACHIEVABLE DENSITY IN ACCORDANCE WITH ASTM D-698 UNLESS INDICATED OTHERWISE IN THESE PLANS.
26. HORIZONTAL LIFTS OF NON-GRAVEL MATERIAL TO BE COMPACTED IN 6" (MAX) LIFTS TO 95% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (+2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 UNLESS INDICATED OTHERWISE IN THESE PLANS. HORIZONTAL LIFTS OF GRAVEL MATERIAL TO BE COMPACTED IN 6" (MAX) LIFTS TO 90% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 UNLESS INDICATED OTHERWISE IN THESE PLANS. SHOULD A DISCREPANCY BETWEEN THE PROJECT SITE GEOTECHNICAL REPORT AND THESE PLANS EXIST, CONTRACTOR TO INFORM THE ENGINEER IN WRITING BEFORE PROCEEDING WITH SOIL LIFT PLACEMENT AND COMPACTION.
27. WHERE SUFFICIENT EXCAVATION MATERIAL IS NOT AVAILABLE FOR FILL AND "BORROW MATERIAL" IS REQUIRED; BORROW MATERIAL SHALL BE OBTAINED FROM SOURCES SHOWN IN THIS DRAWING PACKAGE OR OTHER SOURCES APPROVED BY THE ENGINEER. OVERBURDEN TO BE REMOVED FROM BORROW SITE PRIOR TO OBTAINING BORROW MATERIAL. ENGINEER APPROVED BMP AND EROSION CONTROL MEASURES TO BE PROVIDED BY CONTRACTOR FOR ANY BORROW LOCATIONS.
28. BLASTING IS NOT PERMITTED, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER AND CLIENT.
29. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. 6" OF TOPSOIL HAS BEEN REMOVED FROM THE EXISTING CAD SURFACE PRIOR TO PERFORMING EARTHWORKS CALCULATIONS UNLESS NOTED OTHERWISE IN THESE PLANS. CONTRACTOR AND SUBCONTRACTOR ARE RESPONSIBLE FOR DETERMINING ALL QUANTITIES.
30. THE CUT AND FILL VOLUMES PROVIDED IN THIS DRAWING PACKAGE ARE LISTED AS BANK (I.E. IN-SITU) VOLUMES UNLESS INDICATED OTHERWISE. UNLESS STATED ELSEWHERE IN THIS DRAWING PACKAGE OR IN THE APPLICABLE GEOTECHNICAL REPORT, CONTRACTOR TO ASSUME A 25% VOLUMETRIC CHANGE OF EXCAVATED SOILS (BULKING/SHRINKAGE FACTOR) FOR THE PURPOSES OF EARTHWORKS TRANSPORT, STORAGE AND STOCKPILING. SOIL MATERIAL PLACED AND COMPACTED PER THE REQUIREMENTS OF THESE PLANS IS ASSUMED TO BE HAVE A 1:1 RATIO FOR EXCAVATED (BANK) TO PLACED EARTHWORKS VOLUMES; ANY OBSERVED VOLUMETRIC CHANGE IN THE SOILS (EXPANSION AND/OR SHRINKAGE) OF THE PLACED AND COMPACTED MATERIALS THAT IS NOT AT A 1:1 RATIO SHALL BE REPORTED TO THE CLIENT AND ENGINEER BY THE CONTRACTOR.
31. ALL STOCKPILES SHOWN IN THESE PLANS ARE ASSUMED TO HAVE 2H:1V SIDE SLOPES. MAXIMUM STOCKPILE HEIGHT IS ASSUMED TO BE 10 FT. CONTRACTOR SHALL NOT CREATE STOCKPILES WITH SIDE SLOPES GREATER THAN 2:1 OR HEIGHTS GREATER THAN 10 FT. WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OR UNLESS INDICATED OTHERWISE IN THESE PLANS. THE STOCKPILE FOOTPRINTS SHOWN IN THESE PLANS ARE ASSUMED TO HAVE AN EXPANSION FACTOR OF 1.25.
32. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES IDENTIFIED SHALL BE BROUGHT TO THE INSPECTOR'S OR CONSTRUCTION MANAGER'S ATTENTION AND RECONCILED WITH THE ENGINEER PRIOR TO CONSTRUCTION.
33. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR ALL EXISTING DISTURBED AREAS, FENCES, WALLS, SHEDS OR ANY OTHER STRUCTURES DAMAGED DURING CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER CONDITION. ANY DAMAGE TO ADJACENT PROPERTY OFF OF THE CLIENT'S PROPERTY SHALL BE REPORTED TO THE CLIENT'S REPRESENTATIVE FOR AUTHORIZATION PRIOR TO SAID REPAIRS.
34. ALL EARTHWORKS SHALL CONFORM TO ELEVATIONS AND GRADES DESIGNATED IN THIS DRAWING PACKAGE. ALLOWABLE TOLERANCES ARE ± 0.10 FEET OF FINISHED FINAL GRADE (FG) FOR ALL EARTHWORKS UNLESS INDICATED OTHERWISE IN THIS DRAWING PACKAGE OR BY THE ENGINEER.
35. CONTRACTOR TO PROVIDE BEST MANAGEMENT PRACTICES (BMP) FOR STORMWATER RUNOFF AND SEDIMENT CONTROL IN ACCORDANCE WITH STATE AND FEDERAL GOVERNMENT REQUIREMENTS. IN PARTICULAR, BMP SHALL CONFORM WITH THE FEDERAL CLEAN WATER ACT'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER REGULATIONS REQUIREMENTS. DO NOT

PERFORM ANY GRADING OR GRUBBING OPERATION SO AS TO CAUSE FALLING ROCKS, SOIL OR DEBRIS IN ANY FORM TO FALL, SLIDE OR FLOW ONTO ADJOINING PROPERTIES, STREETS, OR INTO NATURAL WATERCOURSES.

36. ALL PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY OTHER EARTH DISTURBING ACTIVITY. ALL OTHER STRUCTURAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AS SOON AS THE CONSTRUCTION ACTIVITIES, AROUND WHICH THEY ARE BASED, COMMENCE.
37. IMPORTED FILL TO MEET ASTM D-1241 SPECIFICATION FOR TYPE I, GRADE B MATERIAL AS FOLLOWS UNLESS INDICATED OTHERWISE IN THIS DRAWING PACKAGE:
- A. 100% SOIL MATERIAL FINER THAN 2-INCH SIEVE.
 - B. 75% - 95% SOIL MATERIALS FINER THAN 1-INCH SIEVE.
 - C. 40% - 75% SOIL MATERIALS FINER THAN NO. 3/8 SIEVE.
 - D. 30% - 60% SOIL MATERIALS FINER THAN NO. 4 SIEVE.
 - E. 20% - 45% SOIL MATERIALS FINER THAN NO. 10 SIEVE.
 - F. 15% - 30% SOIL MATERIALS FINER THAN NO. 40 SIEVE.
 - G. 5% - 15% SOIL MATERIALS FINER THAN NO. 200 SIEVE.
 - H. MAXIMUM LIQUID LIMIT OF 25.
 - I. PLASTICITY INDEX (PI) 6 (MAX).
 - J. MAXIMUM EXPANSIVE POTENTIAL 0.5%.

38. THE SPOT CUT/FILL VALUES SHOWN ON THESE DRAWINGS (WHEN APPLICABLE) ARE FOR PROPOSED GROUND VS. SCRAPED (I.E. TOPSOIL REMOVED) GROUND (E.G. +0.7 MEANS THAT THE PROPOSED GROUND IS 0.7 FT ABOVE THE SCRAPED GROUND).
39. HORIZONTAL LIFTS OF FILL SOIL MATERIAL (NON-GRAVELS) DIRECTLY BENEATH AND WITHIN 5.0 FT OF THE WATER TANK TO BE COMPACTED IN 6" (MAX) LIFTS TO 95% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (-2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557; A MINIMUM OF THREE (3) COMPACTION TESTS PER 6" LIFT (COMPACTED THICKNESS) SHALL BE PERFORMED FOR THE FILL AREAS DIRECTLY BENEATH AND WITHIN 5.0 FT OF THE WATER TANK TO CONFIRM THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.

FINAL GRADE AND ACCEPTANCE

40. FINAL GRADE TO MAINTAIN POSITIVE (I.E. OFFSITE) DRAINAGE ACROSS THE ENTIRE PROJECT SITE UNLESS SPECIFICALLY INDICATED OTHERWISE IN THIS DRAWING PACKAGE.
41. SETTLEMENT OR WASHING THAT OCCURS IN GRADED OR BACKFILLED AREAS PRIOR TO ACCEPTANCE OF THE WORK SHALL BE REPAIRED AND GRADES REESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL CHARGE TO CLIENT.
42. FINAL SUBGRADE (AS APPLICABLE) TO BE PROOF ROLLED BY A TRUCK WITH A REAR AXLE LOAD OF APPROXIMATE 16,000 LBS./AXLE AND ACCEPTED BY THE INSPECTOR OR CONSTRUCTION MANAGER PRIOR TO FINAL ACCEPTANCE OF SUBGRADE AND PLACEMENT OF GRAVEL TOP LAYER. REMOVE AND REPLACE ANY SOFT MATERIAL WHICH EXHIBITS PERMANENT SUBGRADE DEFORMATION EXCEEDING 0.5".

SITE COORDINATES NOTES

43. SITE COORDINATES AND DESIGN ARE GROUND VALUES BASED ON A LOW DISTORTION PROJECTION (LDP). THIS LDP IS BASED ON THE NORTH AMERICAN DATUM OF 1983, U.S. SURVEY FOOT WITH A LATITUDE ORIGIN OF 40.567905°N A CENTRAL MERIDIAN LONGITUDE OF 104.773473°W, A SCALE FACTOR ON THE CENTRAL MERIDIAN OF 1.000235 (EXACT), A FALSE NORTHING OF 100,000, AND A FALSE EASTING OF 300,000. THE LDP BASIS OF BEARINGS IS GEODETIC NORTH.
44. BEARINGS AND DISTANCES SHOWN ARE GROUND VALUES BASED ON THE LDP NOTED ABOVE.
45. CONTRACTOR TO FIELD VERIFY LOCAL BENCHMARKS /MONUMENTS BEFORE STARTING CONSTRUCTION. CONTRACTOR MAY BE REQUIRED TO RECTIFY TRUE COORDINATES TO MATCH THE NORTHINGS AND EASTINGS SHOWN IN THIS PLAN SET. ANY CONFLICTS WITH LOCAL COORDINATES SHALL BE DISCUSSED WITH FIELD ENGINEER.

GEOTECHNICAL REPORT

46. ASCENT GEOMATICS WAS NOT PROVIDED WITH A GEOTECHNICAL REPORT TO AID IN THE PREPARATION OF THIS GRADING PLAN.

PROJECT SPECIFIC NOTES

47. PAD TO BE CAPPED WITH CDOT CLASS 6 AGGREGATE BASE COURSE (ABC) UNLESS INDICATED OTHERWISE IN THESE PLANS OR BY THE CLIENT. ABC TO BE COMPACTED IN 6" (MAX) LIFTS TO 95% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (-2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D698 UNLESS INDICATED OTHERWISE IN THESE PLANS.



Daywater Exploration & Production, LLC
 730 17th St, Suite 500
 Denver, CO 80202
 (202) 902-2503

SHEET NAME:

GENERAL NOTES


SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M
WELD COUNTY, COLOR

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP

FIELD DATE:	01-13-2021
DRAWING DATE:	05-11-2021
DRAFTED BY:	DP
SHEET NO.	02 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN





ASCENT
GEOMATICS SOLUTIONS

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

LEGEND:

- 5280—

—5280—

—5280—

— — —

— — —

— — —

— x —

—> . . . —

— — —

— . . . —

10+00

00

00


EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
PROPOSED MAJOR CONTOUR
PROPOSED MINOR CONTOUR
SECTION LINE
CENTER-SECTION LINE
QUARTER-SECTION LINE
EXISTING FENCE
EXISTING DIRT DITCH
EXISTING CULVERT
EXISTING RIVER OR STREAM
ROADWAY ALIGNMENT STATIONING
EXISTING PAVED ROAD
EXISTING OIL & GAS WELL
PROPOSED OIL & GAS WELL

QUANTITIES:

TOTAL CUT FOR ACCESS ROAD	1,489	CY
TOTAL FILL FOR ACCESS ROAD	1,433	CY
NET EXCESS MATERIAL	56	CY
CDOT CLASS 6 BASE COURSE (6" DEPTH)	1,962	CY
DISTURBANCE AREA	5.92	AC

- NOTES:
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.

PREPARED FOR:



BAYSWATER
EXPLORATION & PRODUCTION, LLC

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

GENERAL NOTES

SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.,
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP

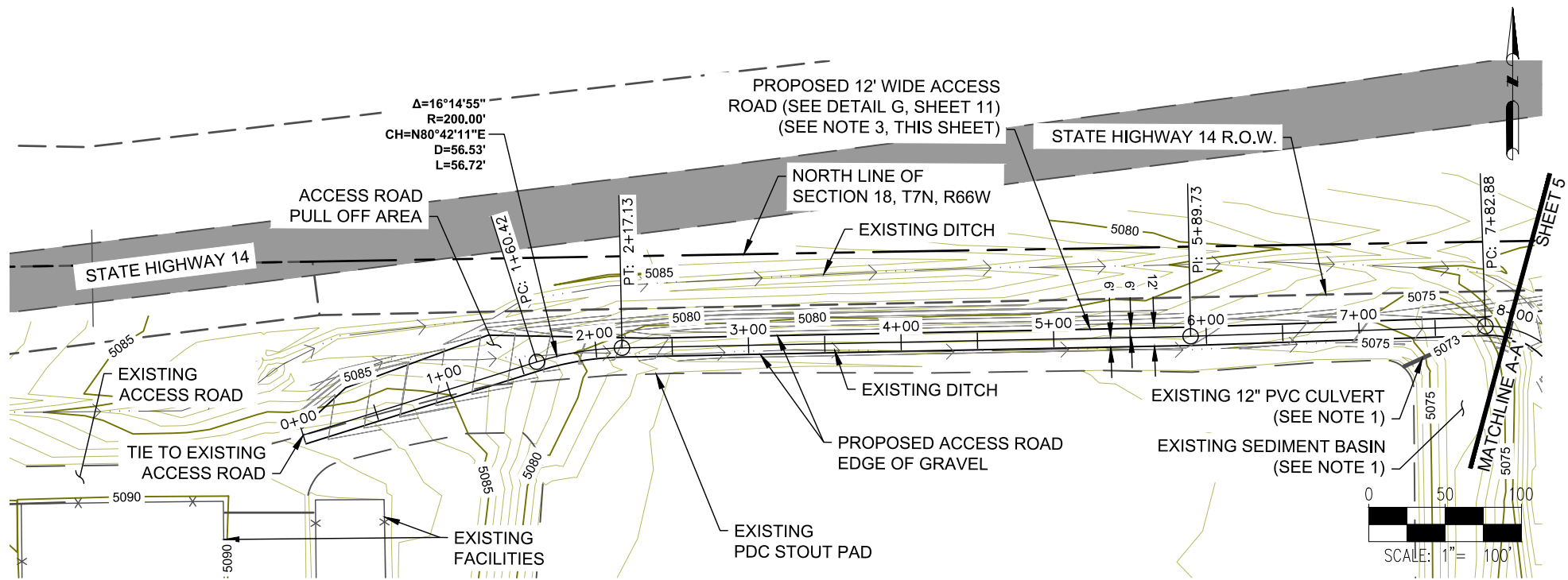
FIELD DATE:
01-13-2021

DRAWING DATE:
05-11-2021

DRAFTED BY:
DP

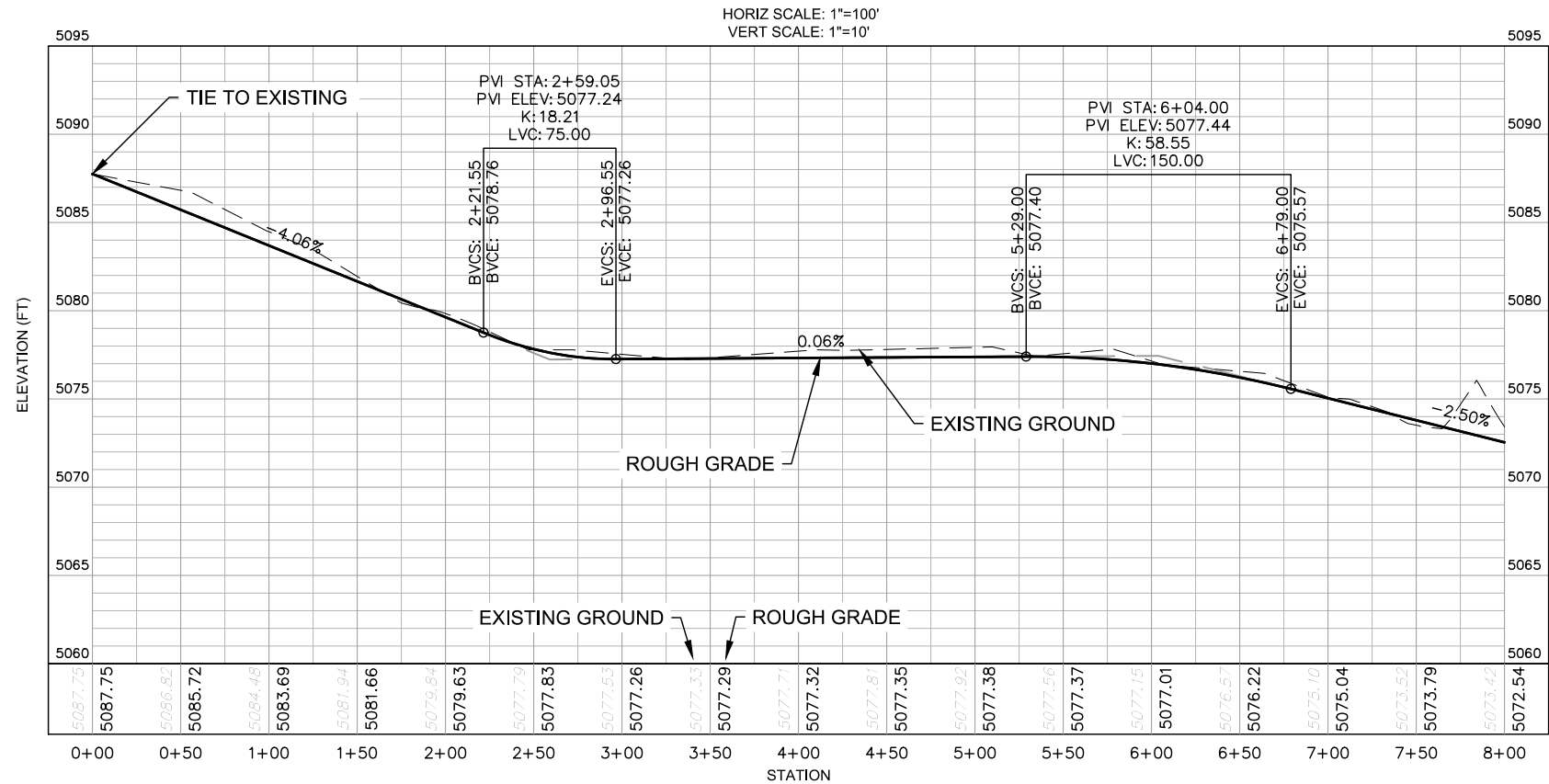
SHEET NO.
03 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN

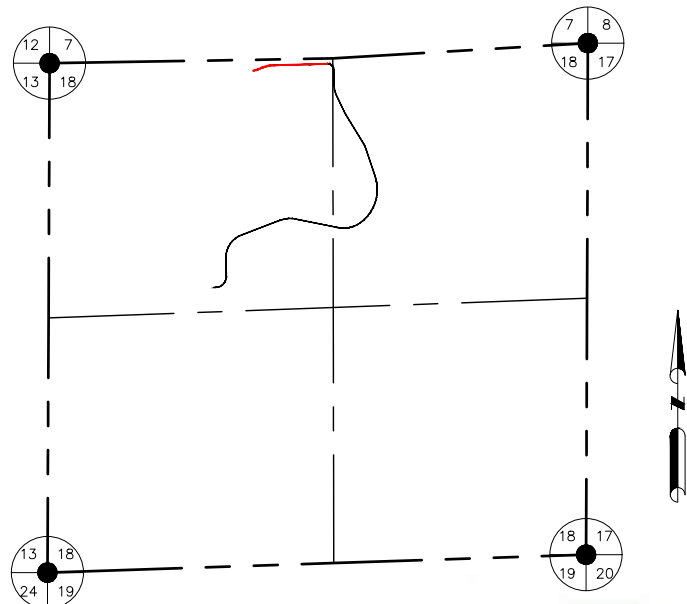


PLAN VIEW OF BLEHM 18-I ACCESS ROAD

SCALE: 1" = 100'



PROFILE VIEW OF BLEHM 18-I ACCESS ROAD



NOTES:

- UPON CONSTRUCTION OF THE BLEHM ACCESS ROAD THE EXISTING 12" PVC CULVERT SHALL BE RELOCATED AND THE NORTH SIDE OF THE SEDIMENT BASIN WILL BE REGRADED.
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.
- THE ROAD FROM STATION 0+00 TO 8+00 SLOPES DOWN TOWARDS THE NORTH SUCH THAT WATER DRAINS TOWARDS THE NORTH (i.e. CROSS SLOPE).

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME: PLAN & PROFILE
SURFACE LOCATION: BLEHM 18-I PAD
LOT 3 SECTION 18, T7N, R66W, 6TH P.M., WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP

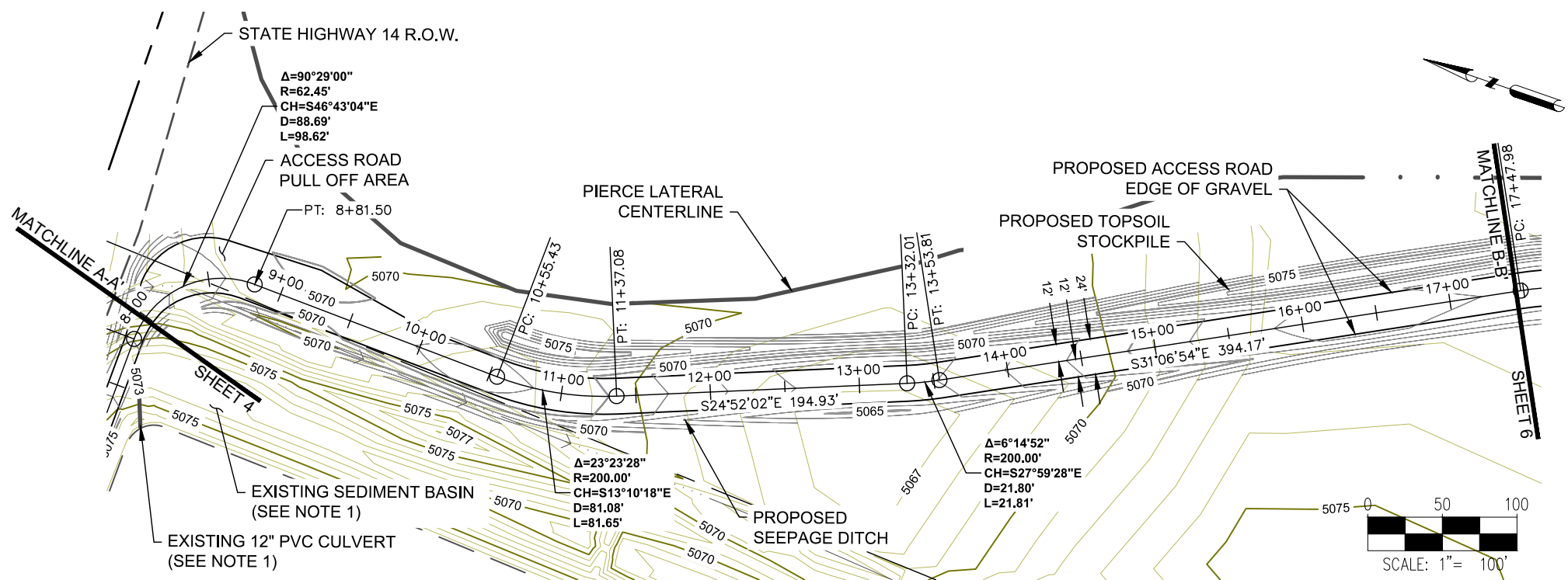
FIELD DATE: 01-13-2021

DRAWING DATE: 05-11-2021

DRAFTED BY: DP

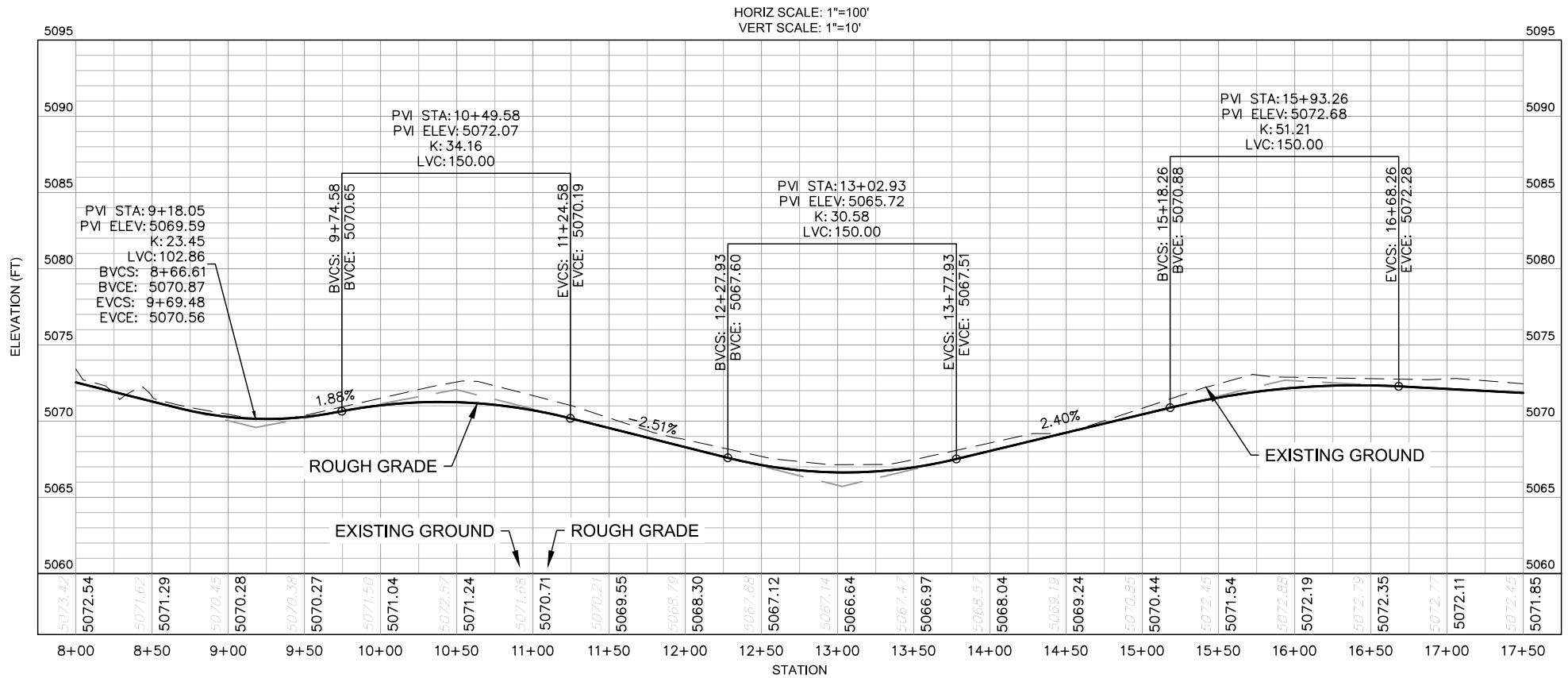
SHEET NO. 04 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN

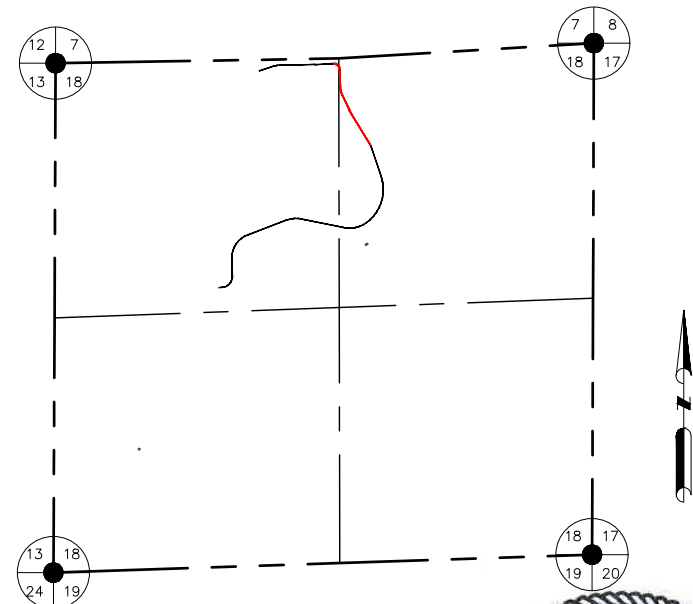


PLAN VIEW OF BLEHM 18-I ACCESS ROAD

SCALE: 1" = 100'



PROFILE VIEW OF BLEHM 18-I ACCESS ROAD



KEY MAP
N.T.S.



NOTES:

- UPON CONSTRUCTION OF THE BLEHM ACCESS ROAD THE EXISTING 12" PVC CULVERT SHALL BE RELOCATED AND THE NORTH SIDE OF THE SEDIMENT BASIN WILL BE REGRADED.
- ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:



Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

PLAN & PROFILE
SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP
1			
2			
3			
4			

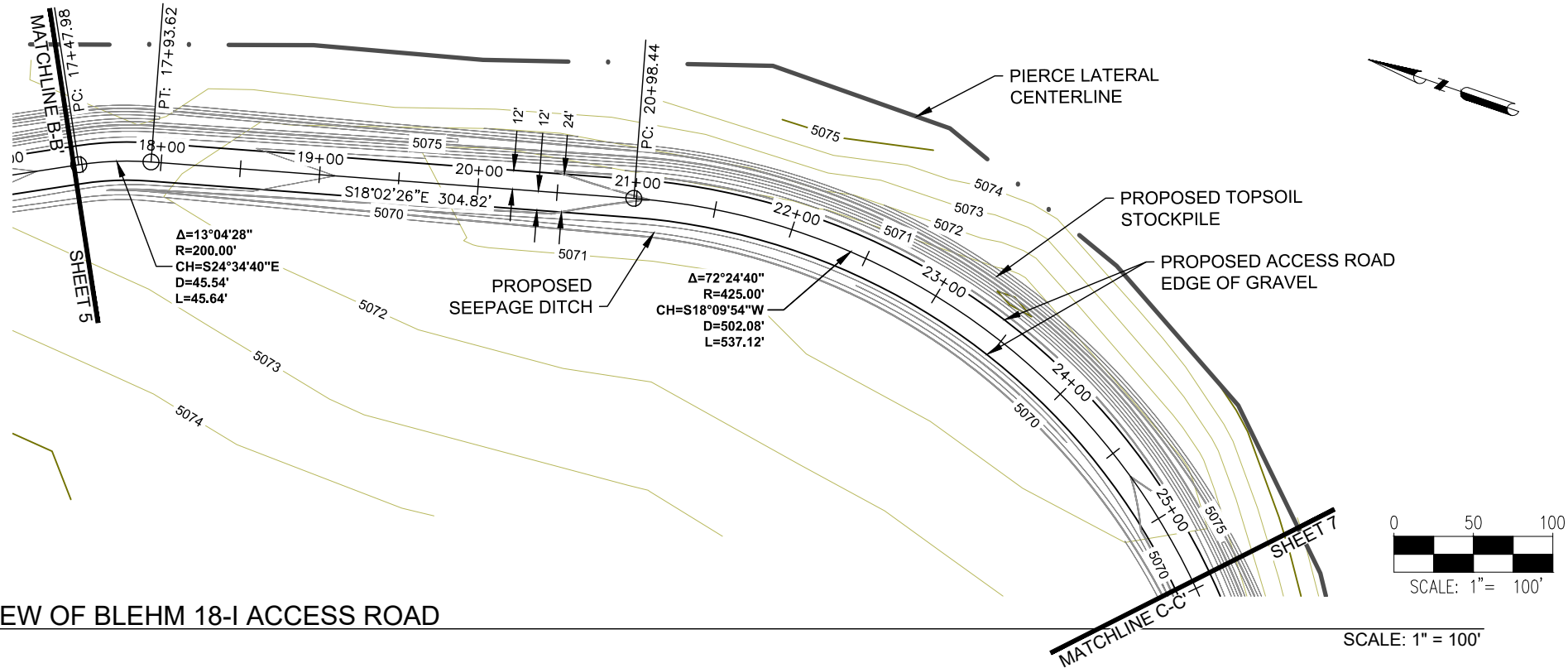
FIELD DATE:
01-13-2021

DRAWING DATE:
05-11-2021

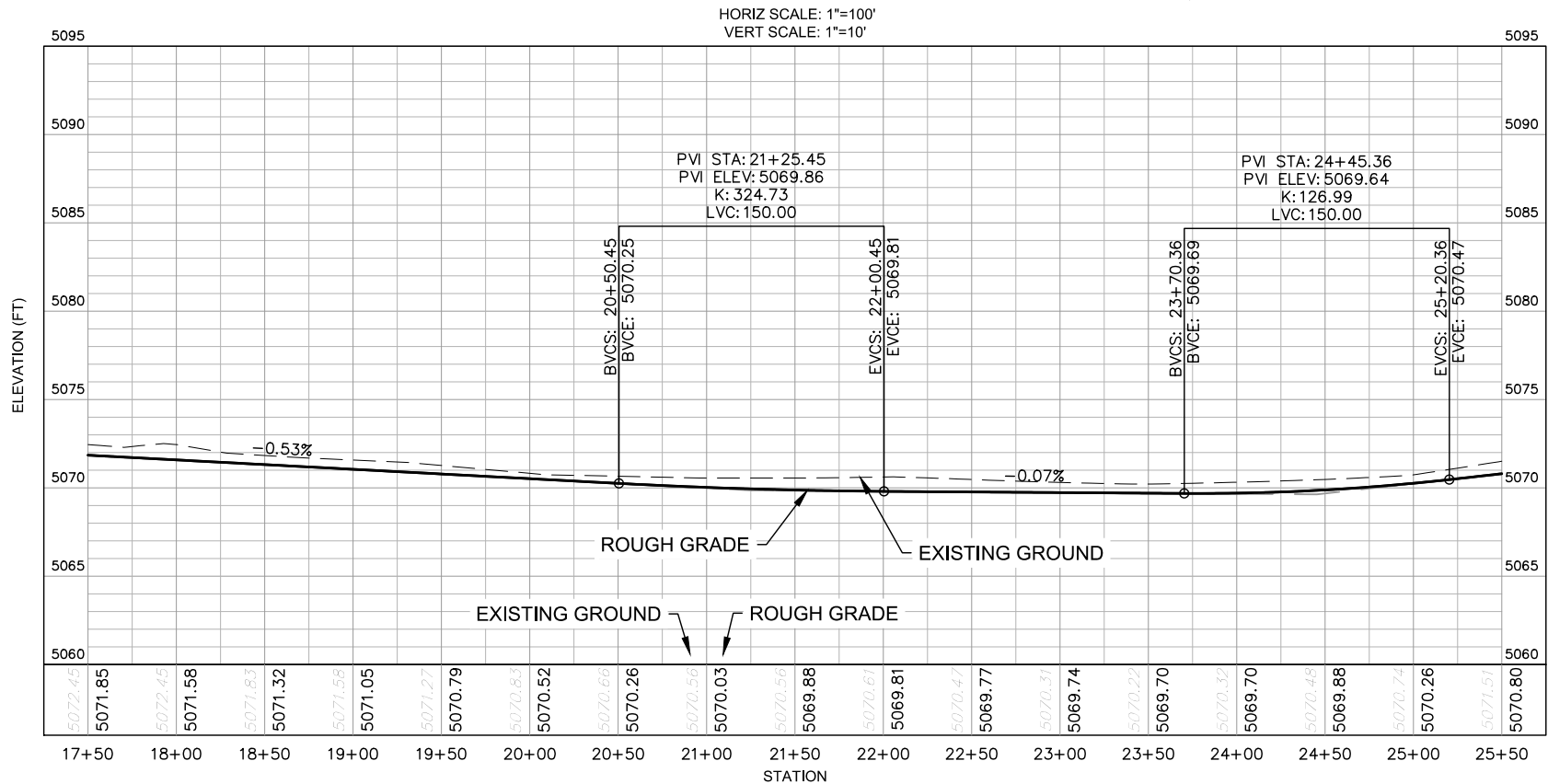
DRAFTED BY:
DP

SHEET NO.
05 OF 13

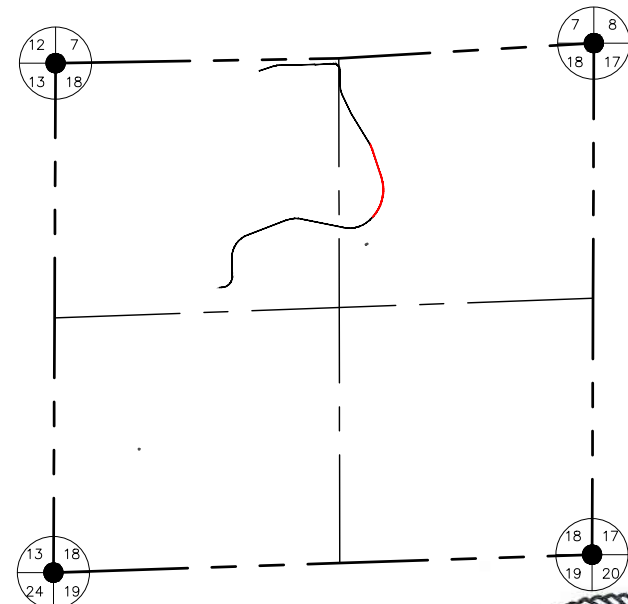
BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN



PLAN VIEW OF BLEHM 18-I ACCESS ROAD



PROFILE VIEW OF BLEHM 18-I ACCESS ROAD



KEY MAP
N.T.S.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME: PLAN & PROFILE
SURFACE LOCATION: BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION DP	DP
1			
2			
3			

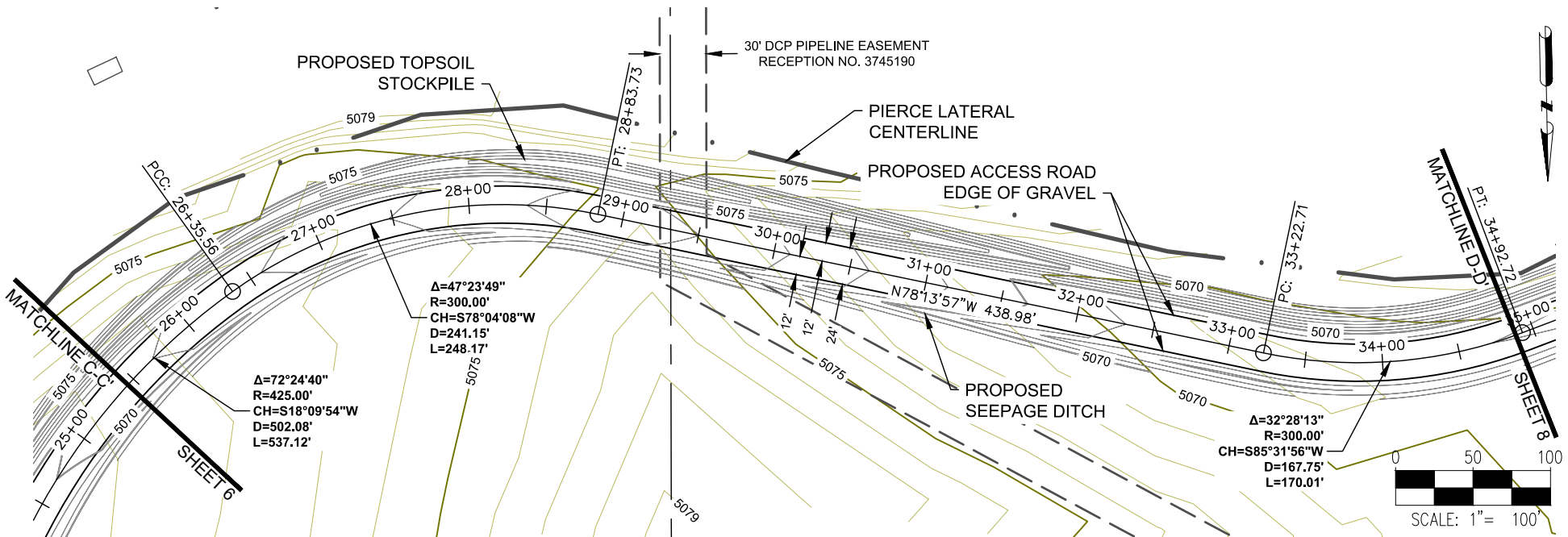
FIELD DATE: 01-13-2021

DRAWING DATE: 05-11-2021

DRAFTED BY: DP

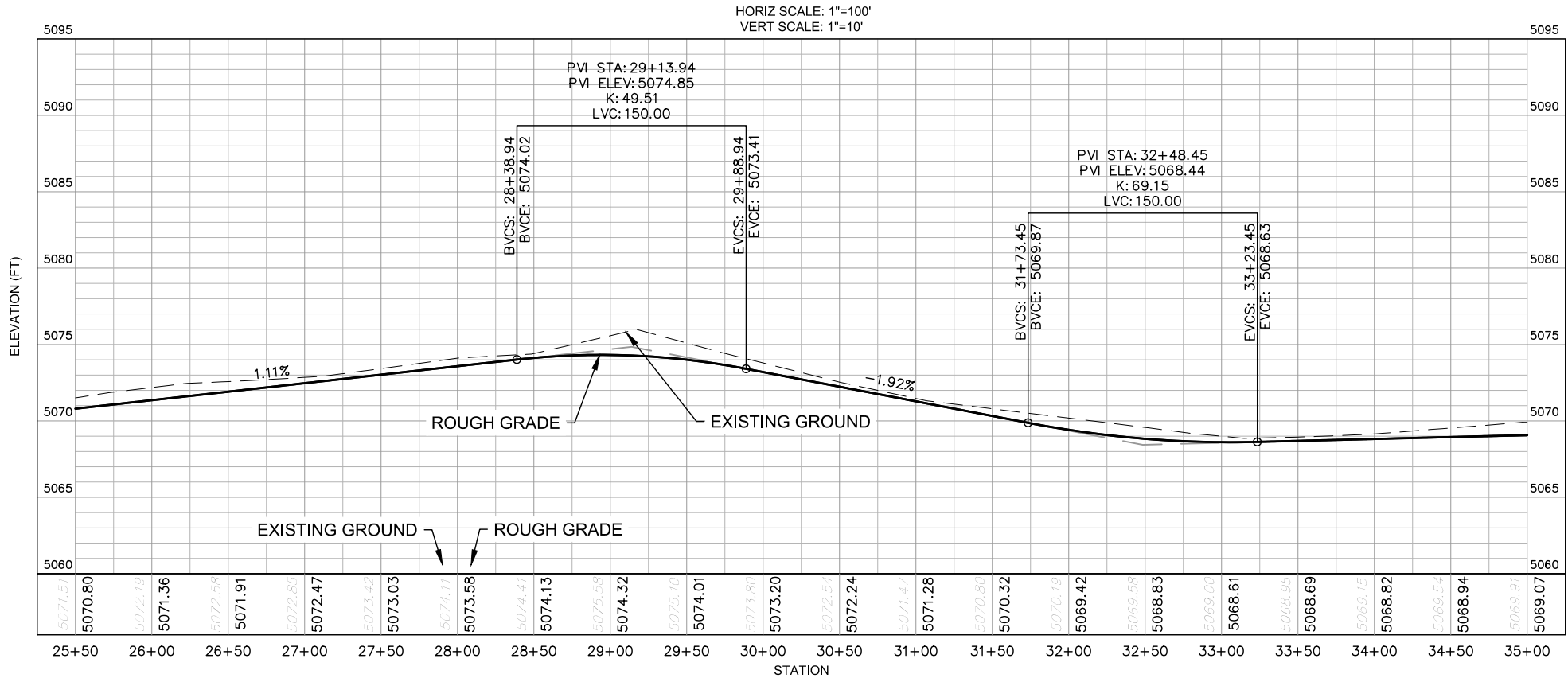
SHEET NO. 06 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN

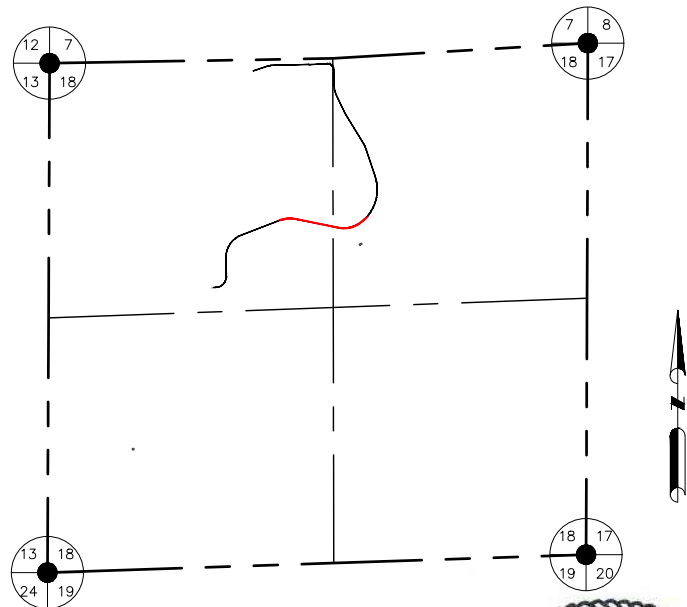


PLAN VIEW OF BLEHM 18-I ACCESS ROAD

SCALE: 1" = 100'



PROFILE VIEW OF BLEHM 18-I ACCESS ROAD



KEY MAP
N.T.S.



NOTES:

1. ASCENT GEOMATICS SOLUTIONS WAS NOT PROVIDED A TITLE REPORT FOR THIS SITE. ALL RECORDED DOCUMENTS REFERENCED ON THESE PLANS WERE DOWNLOADED FROM RESEARCH VIA THE WELD COUNTY CLERK AND RECORDER. ASCENT GEOMATICS SOLUTIONS MAKES NO GUARANTY OR WARRANTY, EITHER EXPRESSED OR IMPLIED, TO THE COMPLETENESS OF ENCUMBRANCES TO THE SUBJECT PROPERTY.

Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME: PLAN & PROFILE

SURFACE LOCATION: BLEHM 18-I PAD, LOT 3 SECTION 18, T7N, R66W, 6TH P.M., WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP
1			
2			
3			
4			

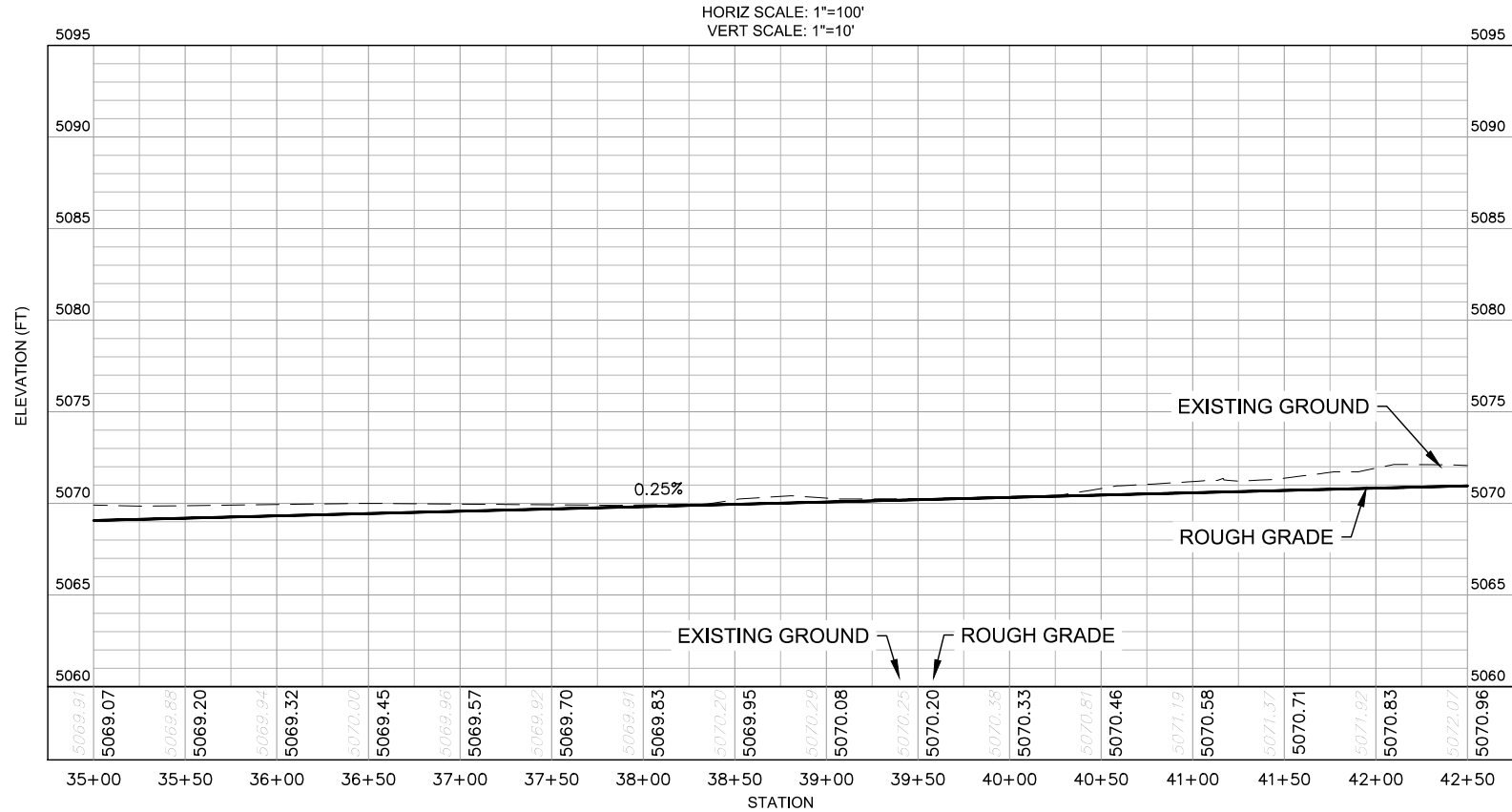
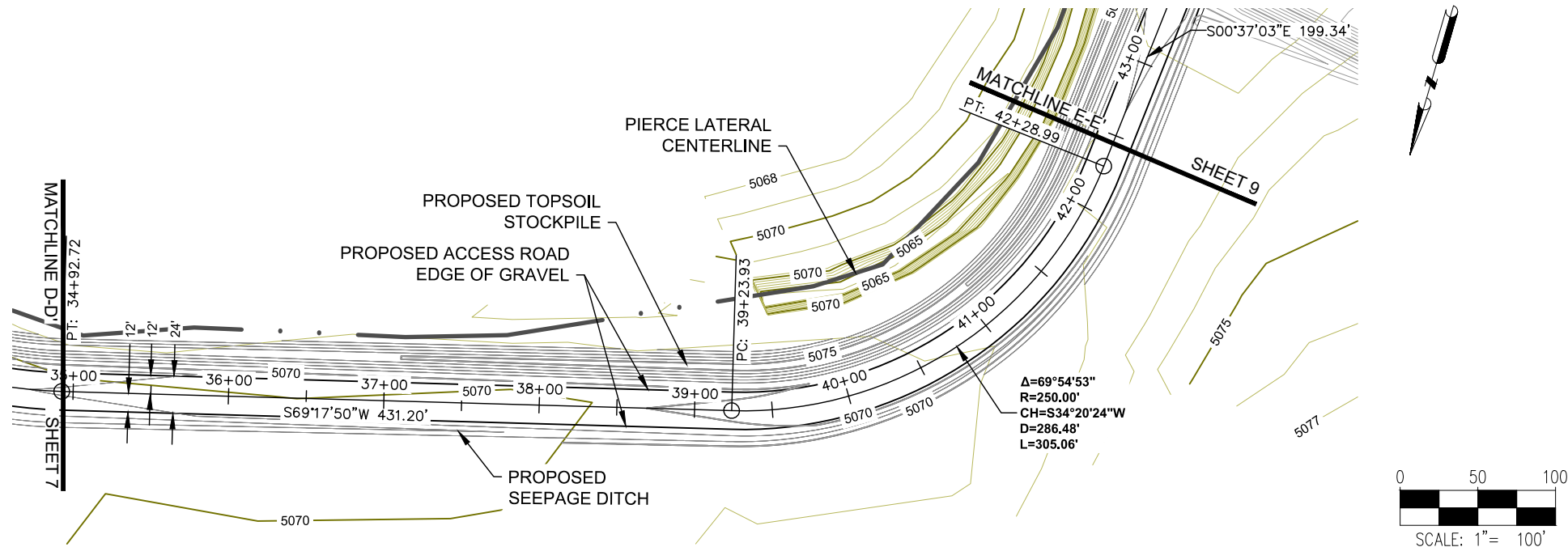
FIELD DATE: 01-13-2021

DRAWING DATE: 05-11-2021

DRAFTED BY: DP

SHEET NO. 07 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

PLAN & PROFILE

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP
1			
2			
3			
4			

FIELD DATE:

01-13-2021

DRAWING DATE:

05-11-2021

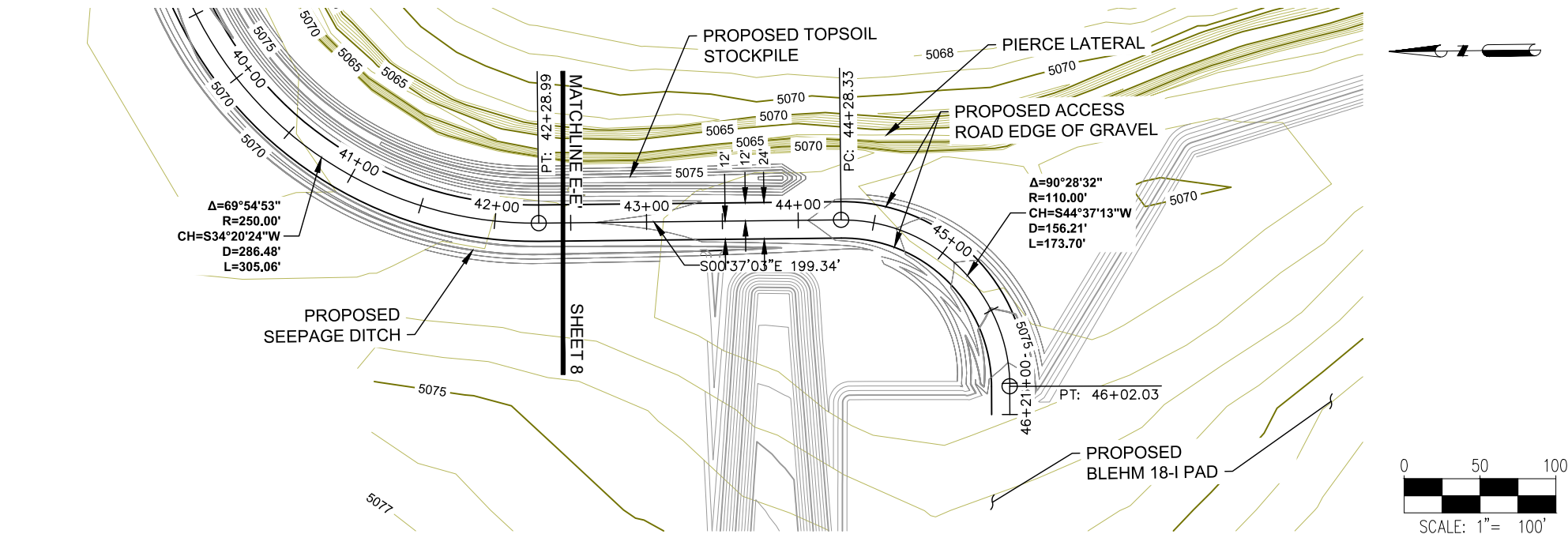
DRAFTED BY:

DP

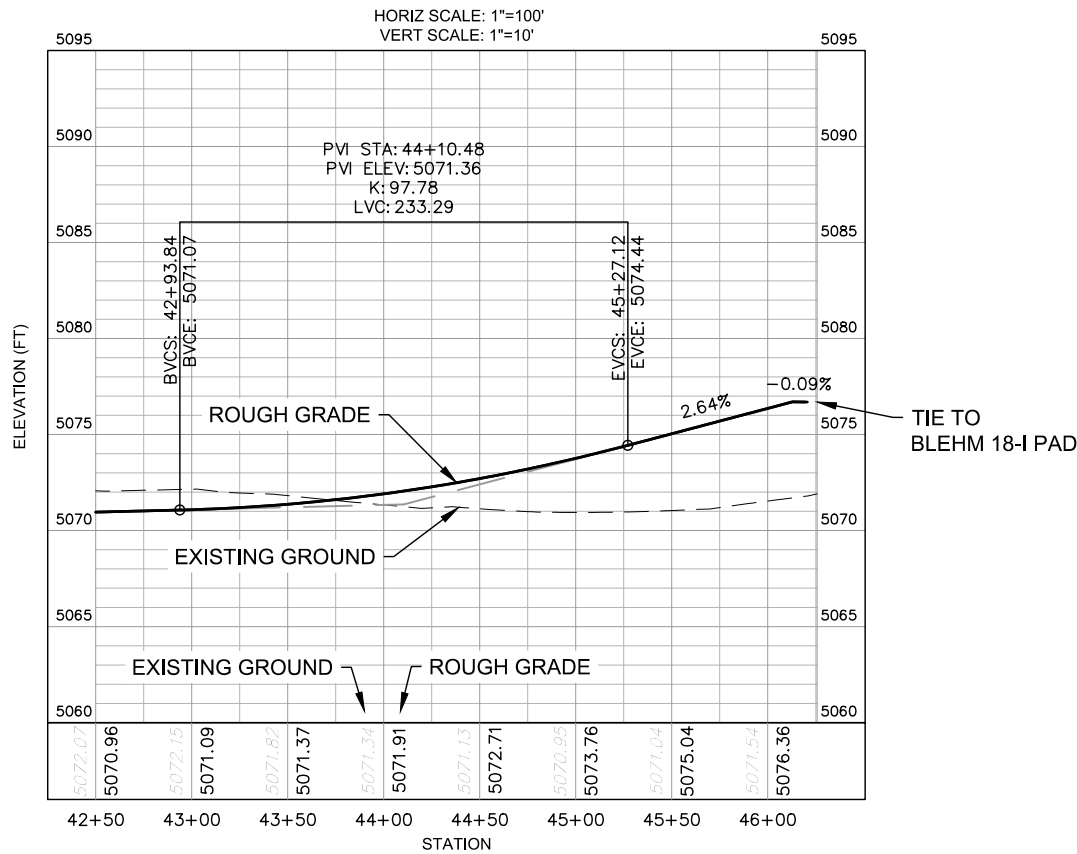
SHEET NO.

08 OF 13

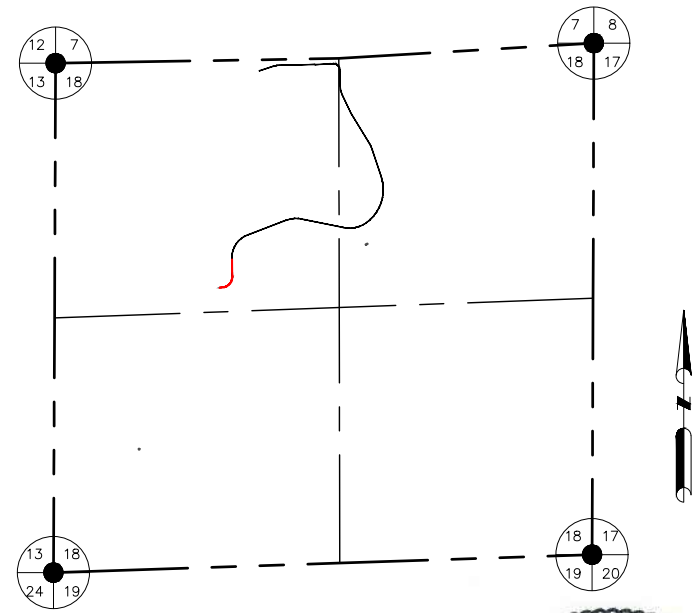
BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN



PLAN VIEW OF BLEHM 18-I ACCESS ROAD



PROFILE VIEW OF BLEHM 18-I ACCESS ROAD



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME:

PLAN & PROFILE

SURFACE LOCATION

BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N R66W 6TH P.M.
WELD COUNTY, COLORADO

REV.	DATE	REVISION DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP
1			
2			
3			
4			

FIELD DATE:

01-13-2021

DRAWING DATE:

05-11-2021

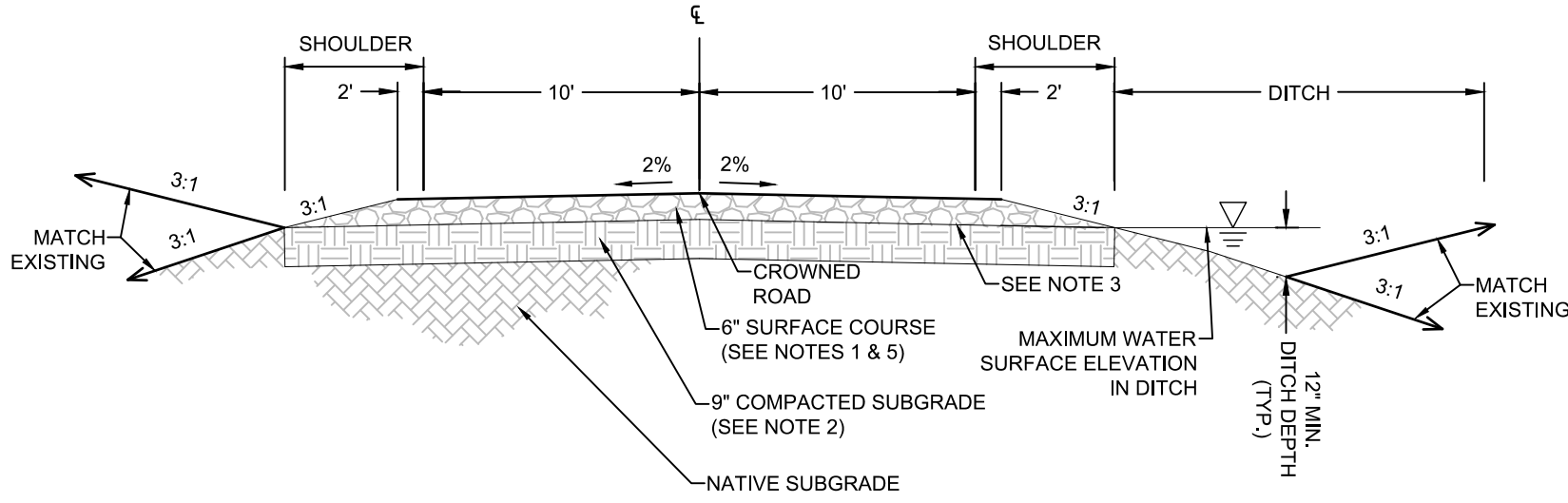
DRAFTED BY:

DP

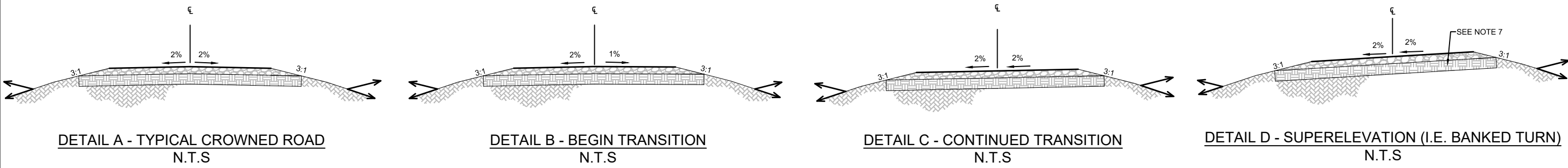
SHEET NO.

09 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN



TYPICAL GRAVEL ACCESS ROAD CROSS-SECTION
N.T.S



TRANSITION TO SUPERELEVATION

GENERAL NOTES

- THIS ROAD STANDARD HAS BEEN CREATED AS A GENERAL STANDARD FOR GRAVEL ROADS CONSTRUCTION IN WELD COUNTY, COLORADO AND APPLIES FOR RURAL, LOCAL UNPAVED PRIVATE ROADS.
- SEE WELD COUNTY ENGINEERING AND CONSTRUCTION GUIDELINES (LATEST EDITION) FOR ADDITIONAL INFORMATION ON RECOMMENDED DESIGN AND CONSTRUCTION FOR ROADS.

DESIGN NOTES:

- IMPORTED FILL TO MEET THE FOLLOWING SPECIFICATION:
 - 100% SOIL MATERIAL FINER THAN 1.5 INCH SIEVE.
 - 100% - 95% SOIL MATERIALS FINER THAN 1 INCH SIEVE.
 - 30% - 70% SOIL MATERIALS FINER THAN NO. 4 SIEVE.
 - 3% - 15% SOIL MATERIALS FINER THAN NO. 200 SIEVE.
 - MAXIMUM LIQUID LIMIT OF 30.
- THE CONTRACTOR SHALL SCARIFY THE SUBGRADE 9" (MIN.), MOISTURE CONDITION, THEN COMPACT TO 95% MAXIMUM ACHIEVABLE DENSITY IN ACCORDANCE WITH ASTM D-698.
- FINAL SUBGRADE TO BE PROOF ROLLED BY A RUBBER-TIRE TRUCK WITH A REAR AXLE LOAD OF APPROXIMATE 18,000 LBS./AXLE AND ACCEPTED BY THE INSPECTOR OR CONSTRUCTION MANAGER PRIOR TO ACCEPTANCE OF THE SUBGRADE AND PLACEMENT OF ROAD BASE. REMOVE AND REPLACE ANY SOFT MATERIAL WHICH EXHIBITS PERMANENT SUBGRADE DEFORMATION EXCEEDING 0.5".
- HORIZONTAL LIFTS OF ROAD BASE MATERIAL TO BE COMPACTED BY LARGE COMPACTING EQUIPMENT IN MAXIMUM 8" LIFTS (LOOSE DEPTH) TO 95% MAXIMUM DENSITY (AT A MINIMUM) AT OPTIMUM MOISTURE CONTENT (-2% TO +2%) TO ACHIEVE MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557.
- COMPACTION TO BE VERIFIED BY NUCLEAR METHOD PER ASTM D-6938 OR BY AN EQUIVALENT METHOD APPROVED BY THE ENGINEER.
- COMPACTION TESTING FREQUENCY FOR ROADS SHALL BE 1 TEST (ASTM D-6938) PER 15 FT. OF WIDTH PER 500 FT. OF LENGTH, OR FRACTION THEREOF PER 6" LIFT (COMPATED DEPTH).
- SUPERELEVATION DESIGN BASED ON GRAVEL ROAD WITH A DESIGN SPEED LIMIT OF 25 MPH AND CURVATURE LENGTH OF 200 FEET (BEGINNING OF CURVE TO END OF CURVE).



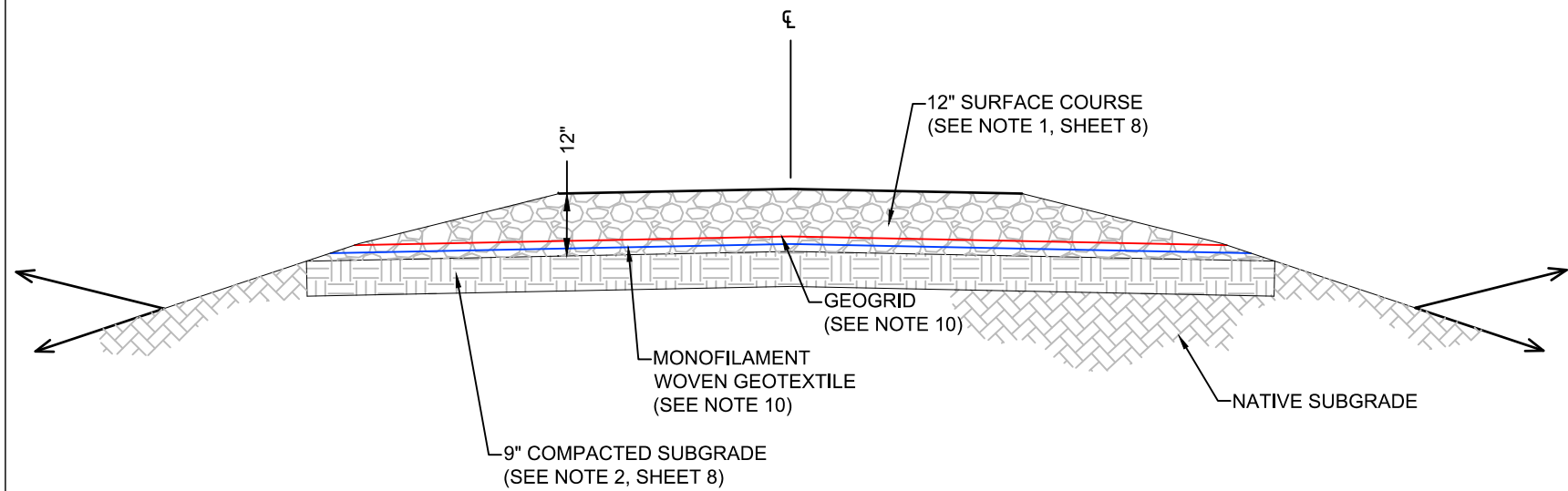
Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

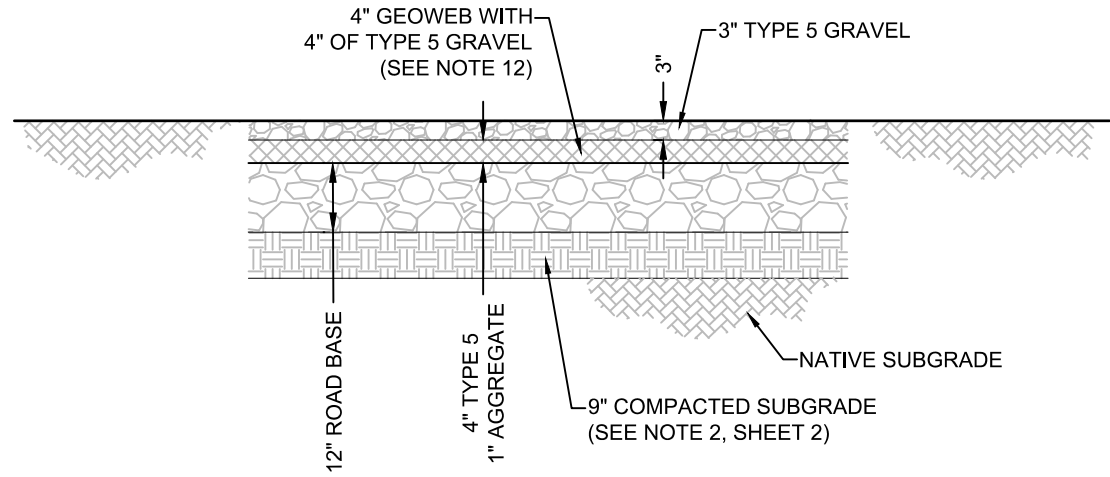
Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

ACCESS ROAD STANDARDS				SHEET NAME:			
SURFACE LOCATION				BLEHM 18-I PAD			
				LOT 3 SECTION 18,			
				T7N R66W 6TH P.M.			
				WELD COUNTY, COLORADO			
REV.	DATE	DESCRIPTION	INT.	DP	INT.	DP	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION					
FIELD DATE:				01-13-2021			
DRAWING DATE:				05-11-2021			
DRAFTED BY:				DP			
SHEET NO.				10 OF 13			

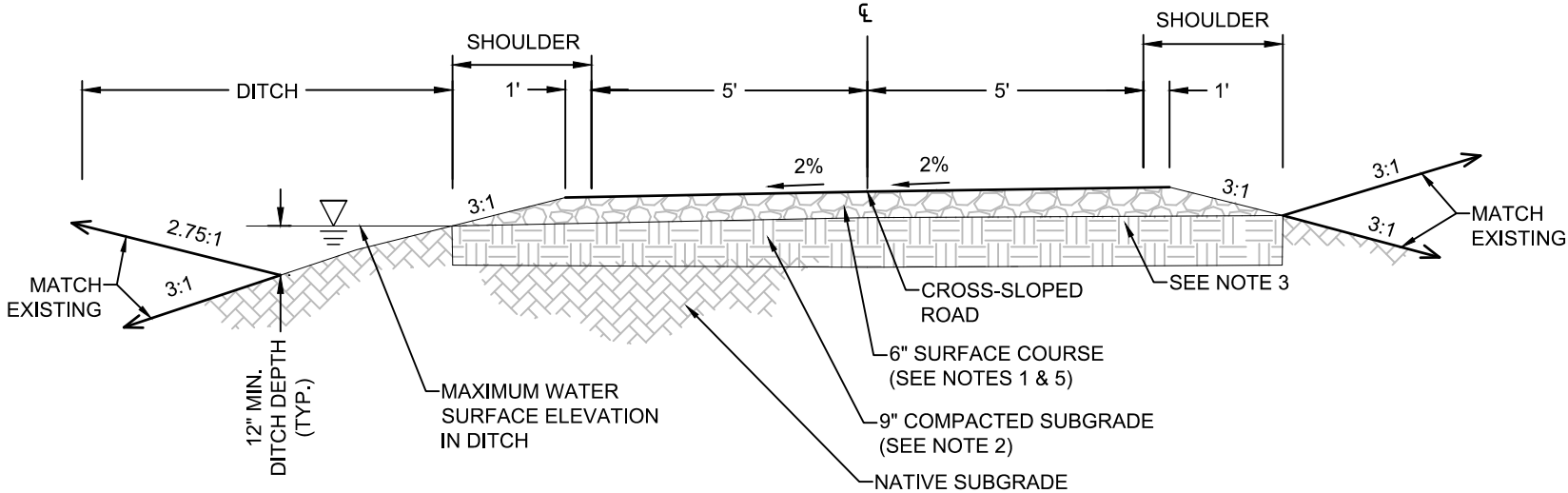
BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN



DETAIL E - SOFT SOIL ROAD DESIGN (SEE NOTE 13)
N.T.S



DETAIL F - DRAINAGEWAY CROSSING ROAD DESIGN
N.T.S



DETAIL G - TYPICAL 12' WIDE GRAVEL ACCESS
ROAD CROSS-SECTION
N.T.S

NOTES:

- #5 GRADE CRUSHED STONE WITH STONE SIZE RANGING FROM 1.5" - 3/8" WITH THE MAJORITY OF THE STONE BEING OF 1-INCH SIZE.
- HORIZONTAL LIFTS OF GRAVEL MATERIAL TO BE COMPACTED BY LARGE COMPACTING EQUIPMENT IN MAXIMUM OF 6" (LOOSE DEPTH) LIFTS TO 90% MAXIMUM DENSITY (MINIMUM) AT OPTIMUM MOISTURE CONTENT (+ OR - 2%) TO ACHIEVE MAXIMUM DENSITY.
- GEOSYNTHETIC REINFORCEMENT OF THE SUBGRADE TO BE ACHIEVED BY PROVIDING A WOVEN MONOFILAMENT GEOTEXTILE WITH A W200 GRAB TENSILE STRENGTH (I.E. BREAK STRENGTH) RATING AS THE BOTTOM LAYER. WOVEN MONOFILAMENT GEOTEXTILE TO BE OVERLAID WITH A GEOGRID GEOTEXTILE REINFORCEMENT WITH A 1-INCH APERTURE SIZE AND AN ULTIMATE TENSILE STRENGTH OF NOT LESS THAN 1,200 POUNDS PER FOOT. BOTH GEOSYNTHETICS TO BE 100% RESISTANT TO UV DEGRADATION.
- GEOSYNTHETIC REINFORCEMENT TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- SMALL CELL POLYETHYLENE GEOWEB (APPROXIMATE 45 IN²/CELL), 4-INCH DEPTH WITH A MINIMUM 300 POUND CELL SEAM STRENGTH.
- SOFT SOIL TO BE DEFINED AS ANY SOILS WHICH EXHIBITS PERMANENT DEFORMATION EXCEEDING 3/4" WHEN PROOF ROLLED (SEE NOTE 3, SHEET 1) OR AS REQUIRED BY THE CONSTRUCTION MANAGER.



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

ACCESS ROAD STANDARDS

SURFACE LOCATION
BLEHM 18-I PAD
LOT 3 SECTION 18,
T7N, R66W, 6TH P.M.,
WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	INT.
0	05/11/21	ISSUED FOR CONSTRUCTION	DP

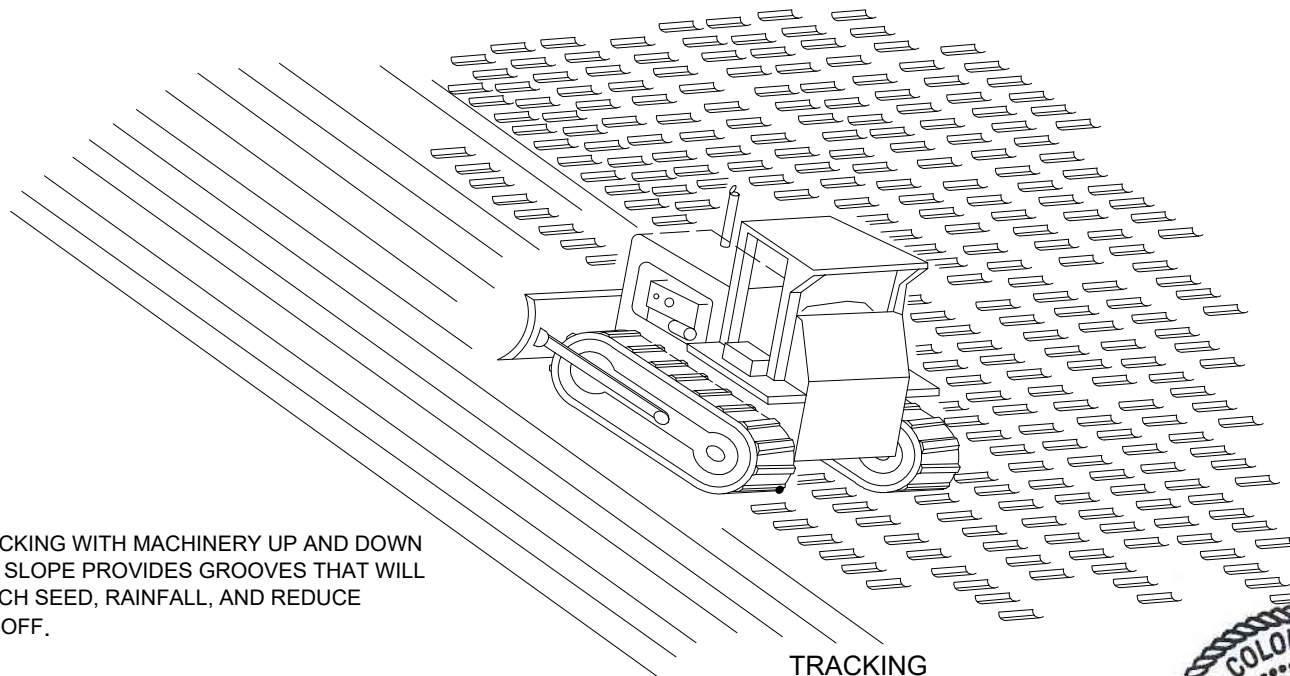
FIELD DATE:
01-13-2021

DRAWING DATE:
05-11-2021

DRAFTED BY:
DP

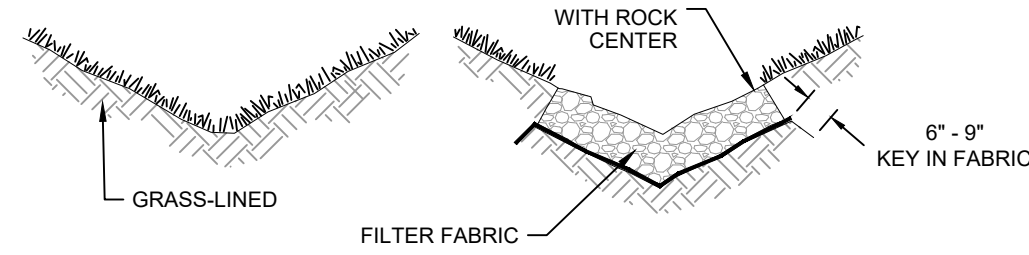
SHEET NO.
11 OF 13

BLEHM 18-I PAD
ACCESS ROAD GRADING PLAN

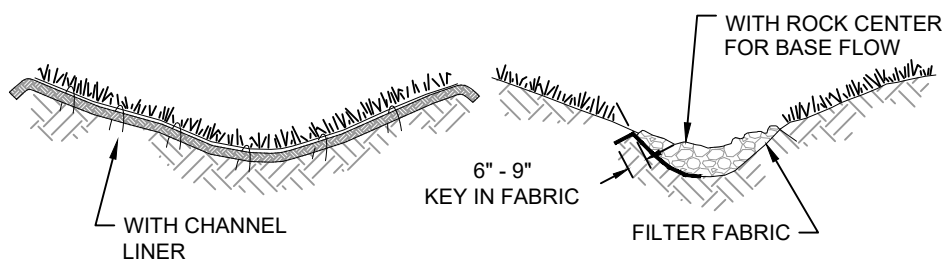


TRACKING WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, RAINFALL, AND REDUCE RUNOFF.

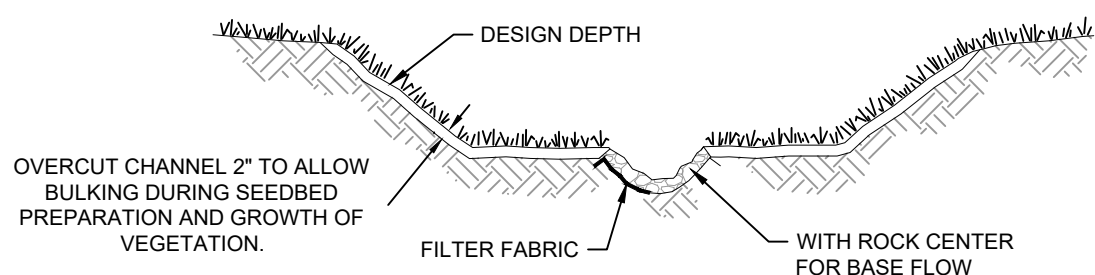
TYPICAL V-SHAPED CHANNEL CROSS-SECTION



TYPICAL PARABOLIC CHANNEL CROSS-SECTION

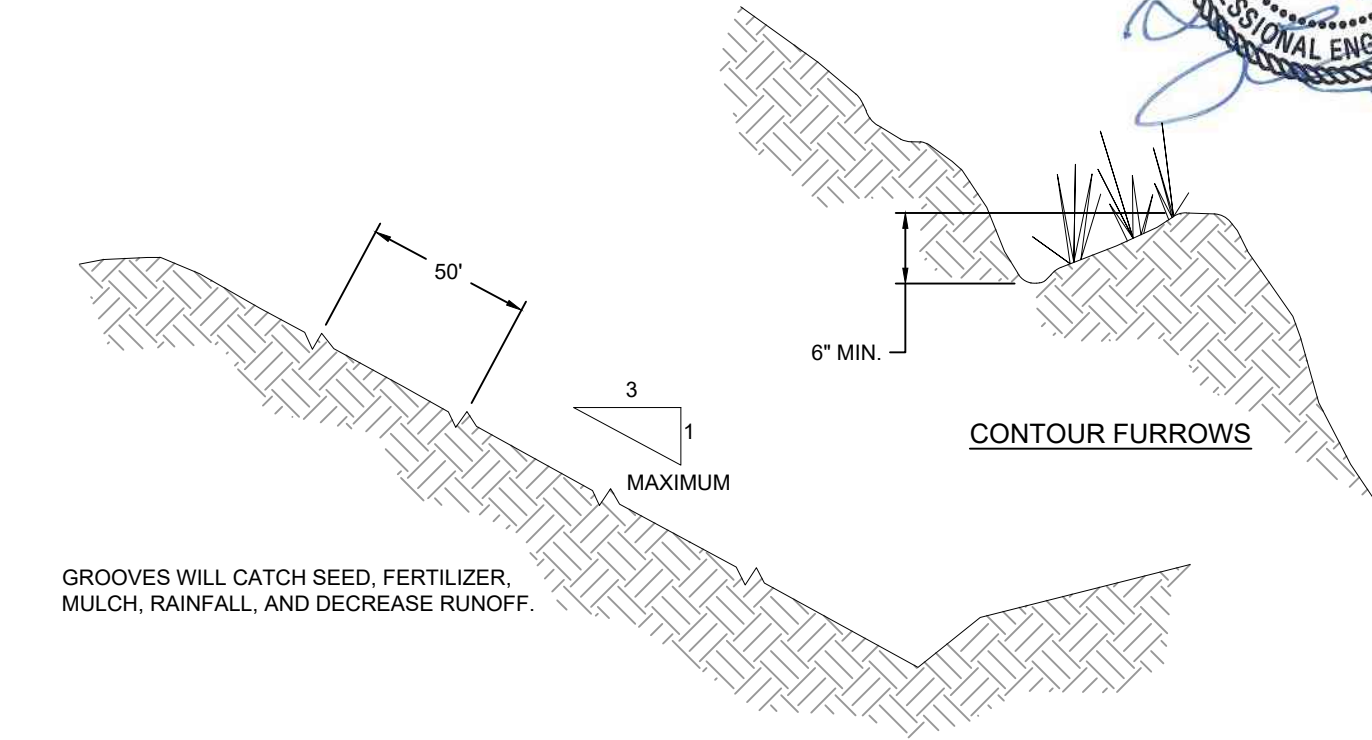


TYPICAL TRAPEZOIDAL CHANNEL CROSS-SECTION



TYPICAL GRASS-LINED CHANNELS

SCALE: NOT TO SCALE



GROOVES WILL CATCH SEED, FERTILIZER, MULCH, RAINFALL, AND DECREASE RUNOFF.

SURFACE ROUGHENING BY TRACKING AND CONTOUR FURROWS

SCALE: NOT TO SCALE



Ascent Geomatics Solutions
8620 Wolff Court
Westminster, CO 80031
(303) 928-7128

PREPARED FOR:

Bayswater Exploration & Production, LLC
730 17th St, Suite 500
Denver, CO 80202
(303) 893-2503

SHEET NAME: BMP TYPICAL DETAILS

SURFACE LOCATION: BLEHM 18-I PAD, LOT 3 SECTION 18, T7N, R66W, 6TH P.M., WELD COUNTY, COLORADO

REV.	DATE	DESCRIPTION	REVISION	ISSUED FOR CONSTRUCTION	INT.
0	05/11/21				

FIELD DATE: 01-13-2021

DRAWING DATE: 05-11-2021

DRAFTED BY: DP

SHEET NO. 12 OF 13

