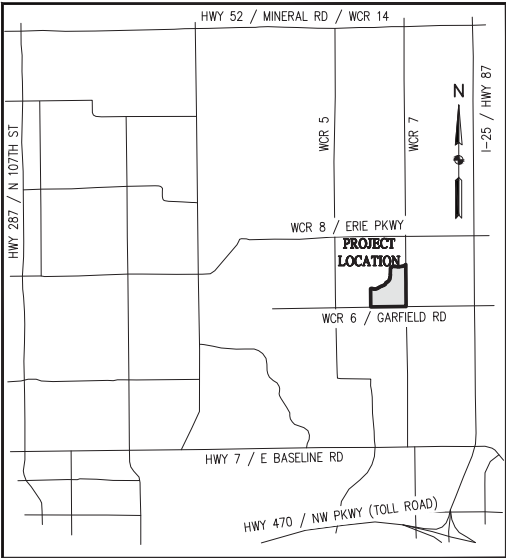


CIVIL CONSTRUCTION PLANS
FOR
ENCANA OIL & GAS (USA) INC.
LIQUIDS HANDLING HUB

A PARCEL OF LAND LOCATED IN THE EAST HALF OF SECTION 21,
TOWNSHIP 1 NORTH, RANGE 68 WEST OF THE 6TH P.M.
WELD COUNTY, COLORADO

GENERAL NOTES:

- WELD COUNTY, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE IS AFFIXED TO THIS DOCUMENT.
- ALL PUBLIC ROADWAY CONSTRUCTION SHALL CONFORM TO WELD COUNTY DESIGN AND CONSTRUCTION STANDARDS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY WELD COUNTY. THE COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY, A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO STARTING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION CONTACT 811.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (ACCEPTED BY WELD COUNTY) AT THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS. THE GENERAL CONTRACTOR SHALL HAVE A FULL TIME QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED.
- A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO WELD COUNTY FOR ACCEPTANCE WITH THE PERMIT APPLICATION. AN EXCAVATION OR PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR IS TO GUARANTEE ALL WORK INCLUDING WORK DONE BY SUBCONTRACTORS FOR A PERIOD OF ONE YEAR COMMENCING WITH SUBSTANTIAL COMPLETION OF THE WORK.
- CONTRACTOR TO REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT INDICATED ON THE CONTRACT DOCUMENTS ARE TO BE REPORTED TO THE ENGINEER PRIOR TO BEGINNING WORK IMMEDIATELY.
- THE CONTRACTOR SHALL REMOVE ALL DEBRIS AS A RESULT OF THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY AND TRAFFIC CONTROL DURING CONSTRUCTION.
- CONTRACTOR TO OBTAIN AND COMPLY WITH THE WELD COUNTY RIGHT-OF-WAY PERMIT STANDARD PROVISIONS.
- BASIS OF BEARINGS: BASIS OF BEARINGS: ASSUMING THE SOUTH LINE OF THE SOUTHEAST CORNER OF SECTION 21, TOWNSHIP 1 NORTH, RANGE 68 WEST OF THE 6TH PRINCIPAL MERIDIAN, AS MONUMENTED BY A NO. 6 REBAR WITH A 3-1/4 INCH ALUMINUM CAP MARKED "LS 13155 1998" AT THE SOUTH QUARTER CORNER OF SAID SECTION 21 AND A NO. 6 REBAR WITH A 2 INCH ALUMINUM CAP MARKED "LS 25937 1995" AT THE SOUTHEAST CORNER OF SAID SECTION 21 TO BEAR S 89°23'58" W, A DISTANCE OF 2684.63 FEET WITH ALL BEARINGS CONTAINED HEREIN RELATIVE THERETO.
- THE BENCHMARK USED FOR THIS SITE IS A NGS MONUMENT "JR 53 5026" WHICH IS A THIRD ORDER VERTICAL MONUMENT, ELEVATION = 5028.0' (NAVD 88).
- FOR SURVEY CONTROL AND DATUM INFORMATION, CONTACT BASELINE CORPORATION.
- COORDINATES SHOWN ON THIS DRAWING ARE MODIFIED STATE PLANE COORDINATES. TO REDUCE TO STATE PLANE COORDINATES, SCALE AT 0.99971859 (1.00028149) ABOUT THE ORIGIN (0,0).
- ALIQUOT MONUMENTS DESTROYED DURING CONSTRUCTION TO BE REPLACED BY PROFESSIONAL LAND SURVEYOR.
- REFER TO "GEOTECHNICAL EVALUATION, THE HUB FACILITY, NORTHWEST CORNER OF WCR 6 AND WCR 7," BY NINYO & MOORE, DATED OCTOBER 4, 2013 FOR COMPACTION REQUIREMENTS AND PAVEMENT SPECIFICATIONS.



VICINITY MAP
NOT TO SCALE

OWNER:

ENCANA OIL & GAS (USA) INC.
CONTACT: MIRACLE PFISTER
370 17th STREET, SUITE 510
DENVER, CO 80202
303.876.3761

ENGINEER:

BASELINE ENGINEERING
CONTACT: NOAH NEMMERS, PE
700 12th STREET, SUITE 220
GOLDEN, CO 80401
303.940.9966

INDEX OF SHEETS

- | | |
|-----|----------------------------------|
| NO. | SHEET TITLE |
| C1 | COVER |
| C2 | SITE PLAN |
| C3 | GRADING PLAN |
| C4 | EROSION CONTROL PLAN- INTERM |
| C5 | EROSION CONTROL PLAN- FINAL |
| C6 | EROSION CONTROL DETAILS |
| C7 | STORM PLAN & PROFILE |
| C8 | SITE DETAILS |
| C9 | STORM AND DETENTION POND DETAILS |

CONTACTS

WELD COUNTY PLANNING DEPARTMENT	KIM OGLE 1555 N 17TH AVE GREELEY, COLORADO 80631 (970) 353-6100 X3540
WELD COUNTY SHERIFFS DEPARTMENT	JOHN COOKE WELD COUNTY SHERIFF (970) 356-4000 OR 911
MOUNTAIN VIEW FIRE PROTECTION DISTRICT	9119 E. COUNTY LINE ROAD LONGMONT, CO 80501 (303) 772-0710 OR 911
COLORADO OIL & GAS CONSERVATION COMMISSION	1120 LINCOLN STREET DENVER, CO 80203 (303) 894-2100
ENVIRONMENTAL PROTECTION AGENCY REGION VIII	1595 WYKHOOP STREET DENVER, CO 80202 (303) 312-6312
CDOT	GLORIA HICE-IDLER 1420 2ND STREET GREELEY, COLORADO 80631 (970) 350-2148
ATMOS ENERGY	JERRY ADAMS P.O. BOX 1200 GREELEY, CO. 80631 (970) 304-2075
CENTURYLINK COMMUNICATIONS	12680 WCR 58 GREELEY COLORADO 80634 (970) 350-2941
XCEL ENERGY	TERRY STENCEL 1500 6TH AVE GREELEY CO, 80631 (800) 895-4999



Know what's below.
Call before you dig.

ENCANA OIL & GAS (USA) INC.

LIQUIDS HANDLING HUB

PART OF SE 1/4 SECTION 21, T1N, R68W

COVER

WELD COUNTY

COLORADO

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 8/9/2013

DRAWING SIZE 24" X 36"

SURVEY FIRM BASELINE

SURVEY DATE 7/23/2013

JOB NO. PL 226

DRAWING NAME 226 Cover and Details.dwg

SHEET 1 OF 9

ENCANA OIL & GAS (USA) INC.

Engineering • Planning • Surveying

700 12TH STREET, SUITE 220 • GOLDEN, COLORADO 80401

P. 303.940.9966 • F. 303.940.9969 • www.baselinecorp.com

DESIGNED BY LTV

DATE 03-18-2014

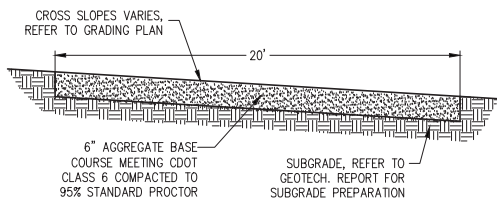
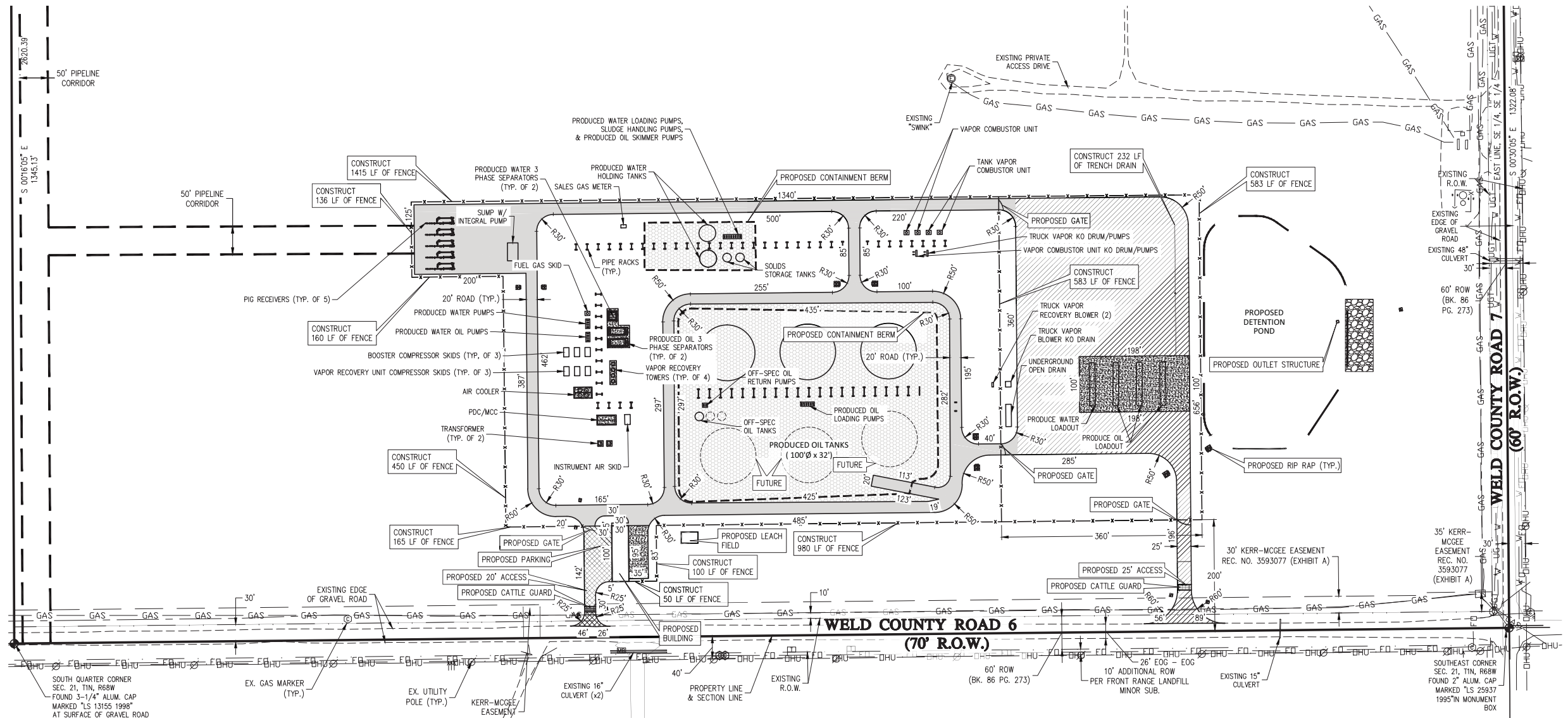
PREPARED BY LTV

REVISION DESCRIPTION PER ENCANA REVIEW

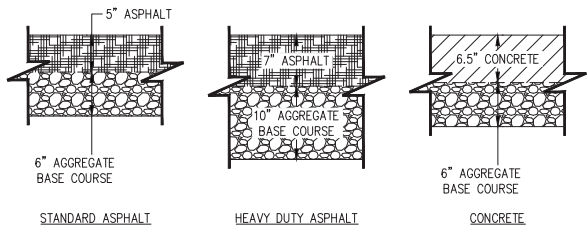
DRAWN BY LTV

CHECKED BY N.J.N.

C1



2 ACCESS ROAD SECTION



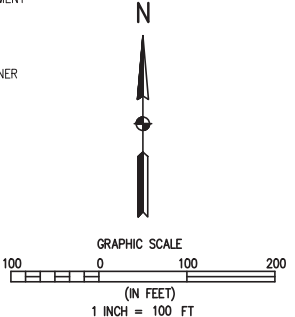
3 PAVEMENT SECTIONS

LEGEND

- EXISTING WELL HEAD
- POWER POLE
- TELEPHONE PEDESTAL
- WATER METER
- SECTION LINE
- PROPERTY LINE
- SUBJECT PROPERTY LINE
- EASEMENT
- WCR RIGHT-OF-WAY
- EDGE OF EXISTING ASPHALT PAVING
- EX. OVERHEAD UTILITY
- EX. UNDERGROUND TELEPHONE
- EX. GAS LINE
- EX. FIBER OPTICS
- PROPOSED FENCE
- PROPOSED CONTAINMENT BERM
- PROPOSED PIPERACKS
- PROPOSED CRUSHED GRAVEL PAVEMENT
- PROPOSED STANDARD ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED RIP RAP PAD
- PROPOSED CONTAINMENT LINER

NOTES

- REFER TO "GEOTECHNICAL EVALUATION, THE HUB FACILITY," DATED OCTOBER 4, 2013 FOR DETAILS AND SPECIFICATIONS OF PAVEMENT SECTIONS.
- PROPOSED CATTLE GUARDS SHALL BE PER THE LATEST WELD COUNTY STANDARDS.
- REFER TO ENCANA CONSTRUCTION STANDARDS AND SPECIFICATIONS FOR DETAILS OF CONTAINMENT LINER.



ENCANA OIL & GAS (USA) INC.

LIQUIDS HANDLING HUB

PART OF SE 1/4 SECTION 21, T1N, R68W

SITE PLAN

DESIGNED BY

LTV

DATE

03-18-2014

PREPARED BY

LTV

REVISION DESCRIPTION

PER ENCANA REVIEW

COLORADO

WELD COUNTY

FOR AND ON BEHALF OF

BASELINE CORPORATION

INITIAL SUBMITTAL

8/9/2013

DRAWING SIZE

24" X 36"

SURVEY FIRM

BASELINE

SURVEY DATE

7/23/2013

JOB NO.

PL 226

DRAWING NAME

226-USR.dwg

SHEET

2

OF

9

C2

ENGINEERING • PLANNING • SURVEYING

700 27TH STREET, SUITE 200 • COLORADO SPRINGS, CO 80901

P. 303.940.9868 • F. 303.940.9859 • WWW.BASELINECORP.COM

N:\PLANNING LLC\226 Encana Weld CO USR\Drawings\226 Civil.dwg, 3/20/2014 10:55:01 AM, Lon Van

APPROXIMATE EARTHWORK QUANTITIES
CUT = 52,911 CY
FILL = 59,041 CY
NET = 6,310 CY (IMPORT)
NOTE: THESE ARE UNADJUSTED VALUES PROVIDED FOR GENERAL INFORMATION. THESE QUANTITIES REPRESENT EXISTING GROUND SURFACE TO PROPOSED FINISH SURFACE AND DO NOT TAKE INTO ACCOUNT IMPORTED GRAVEL, CUT-FILL FACTORS, TOPSOIL, TANK FOOTINGS, ETC. CONTRACTOR IS RESPONSIBLE FOR PERFORMING THEIR OWN QUANTITY CALCULATIONS.

NOTES:

- GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
- ALL INTERIOR CULVERTS WILL UTILIZE TYPE 'L' OUTLET SOIL RIP RAP PROTECTION, REFER TO STORM PLAN AND PROFILES (C7) FOR LIMITS OF PROTECTION AND SIZE OF RIP RAP PAD FOR EACH CULVERT.
- REFER TO SHEET C5 FOR CULVERT PROFILES.
- HEADGATES ARE REQUIRED ON ALL CULVERTS INTERIOR TO THE FACILITY PER DETAIL 7 ON SHEET C9.
- 12" ZURN PERMA-TRENCH DRAIN WITH H-20 RATED GRATE OR EQUIVALENT, 24"x24" CATCH BASIN FOR CLEAN OUT LOCATED AT THE MIDPOINT OF THE TRENCH DRAIN SYSTEM WITH NO OUTFALL. REFER TO DETAIL 5 ON C8.

BASELINE

Engineering • Planning • Surveying
700 27TH STREET, SUITE 220 • GOLDEN, COLORADO 80401
P: 303.940.9888 • F: 303.940.9889 • www.baselineworks.com

DESIGNED BY LTV
CHECKED BY NUN

DATE 03-18-2014
DRAWN BY LTV

REVISION DESCRIPTION
PER ENCANIA REVIEW

PREPARED BY LTV

ENCANA OIL & GAS (USA) INC.

COLORADO

LIQUIDS HANDLING HUB

PART OF SE 1/4 SECTION 21, T1N, R68W

GRADING PLAN

WELD COUNTY

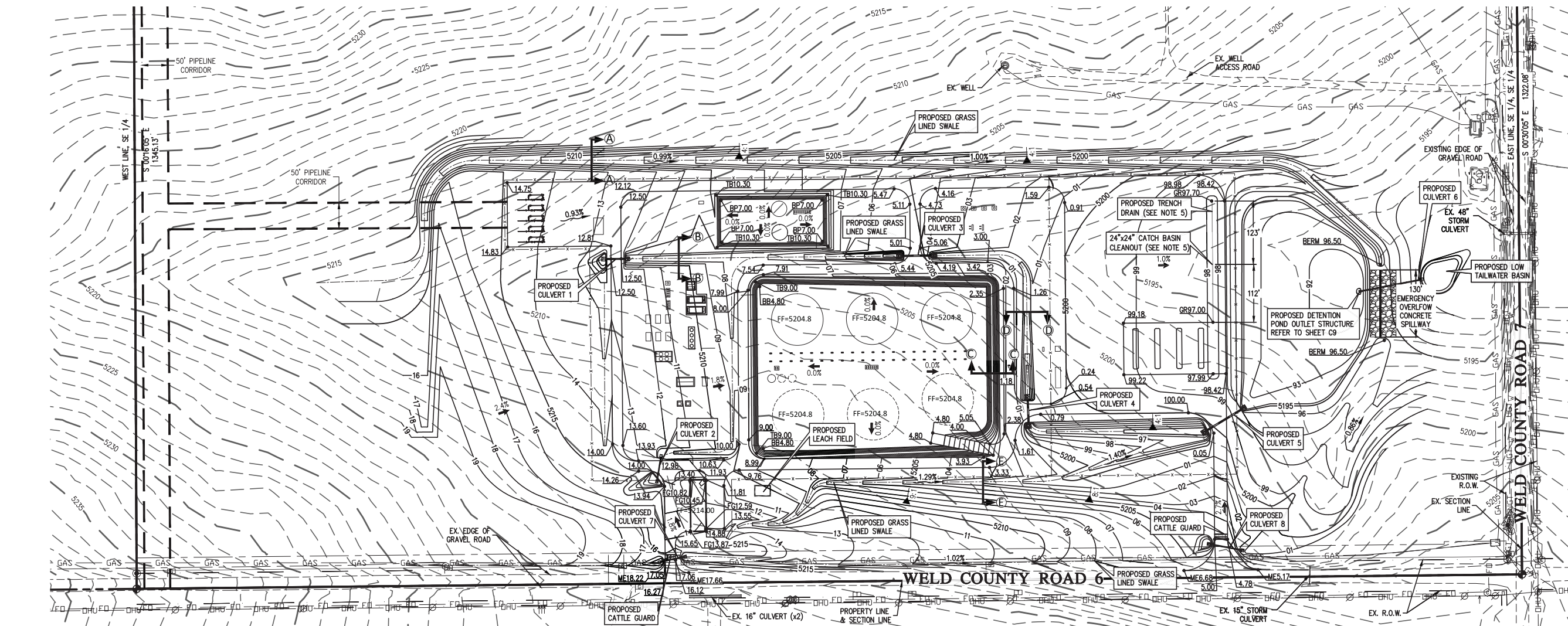
FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 8/9/2013
DRAWING SIZE 24" X 36"

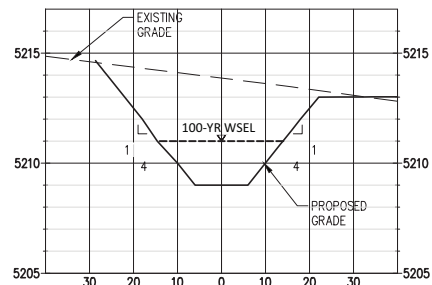
SURVEY FIRM BASELINE
SURVEY DATE 7/23/2013

JOB NO. PL 226
DRAWING NAME 226 Civil.dwg

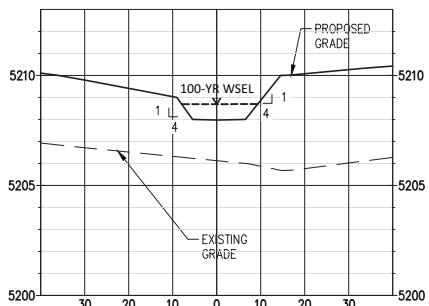
SHEET 3 OF 9
C3



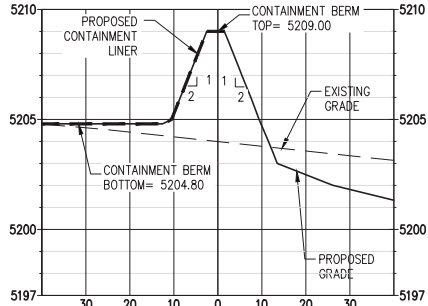
1
C3/C3 GRADING PLAN



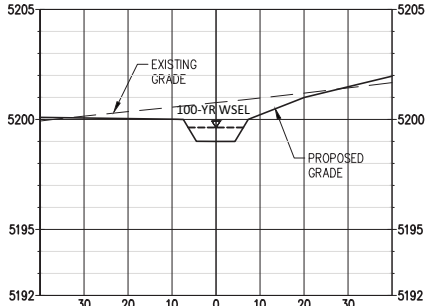
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C3/C3 CROSS SECTION A-A



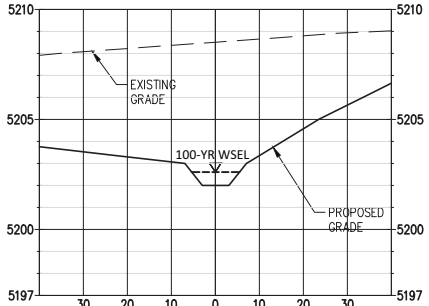
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C3/C3 CROSS SECTION B-B



4
C3/C3 CROSS SECTION C-C



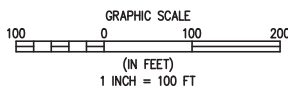
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C3/C3 CROSS SECTION D-D

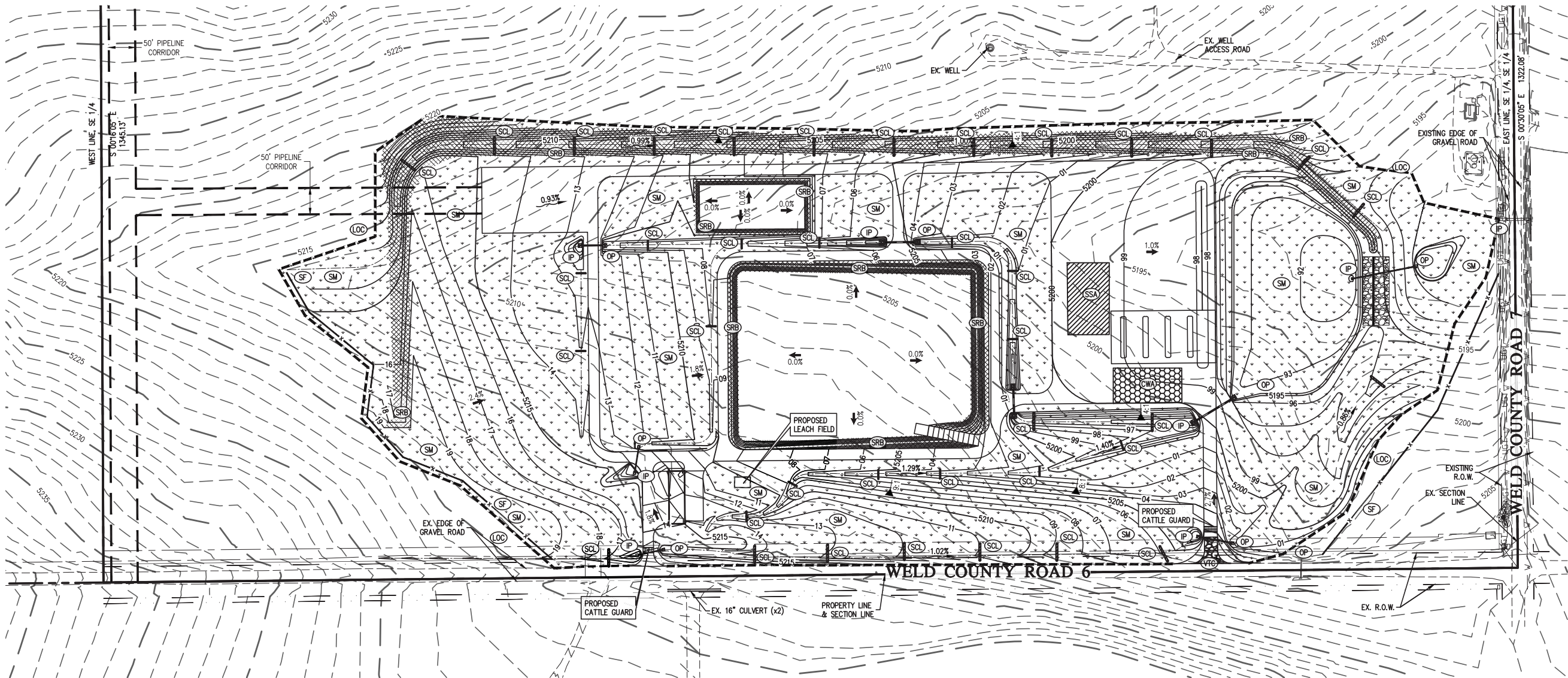


6
C3/C3 CROSS SECTION E-E


























LEGEND

- 5219--- EXISTING MINOR CONTOUR
- 5220--- EXISTING MAJOR CONTOUR
- 5219--- PROPOSED MINOR CONTOUR
- 5220--- PROPOSED MAJOR CONTOUR
- GR INLET GRATE ELEVATION
- ME MATCH EXISTING ELEVATION
- BB BOTTOM OF THE BERM
- TB TOP OF THE BERM
- PAVED FLOW DIRECTION & SLOPE
- SWALE FLOW DIRECTION & SLOPE
- NOMINAL SLOPE





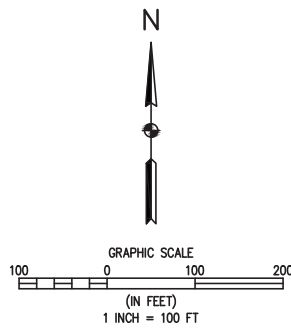
LEGEND

- | | | |
|---|---|--------------------------------------|
|  | EXISTING MINOR CONTOUR | |
|  | EXISTING MAJOR CONTOUR | |
|  | PROPOSED MINOR CONTOUR | |
|  | PROPOSED MAJOR CONTOUR | |
| GR | INLET GRATE ELEVATION | |
| ME | MATCH EXISTING ELEVATION | |
|  | PAVED FLOW DIRECTION & SLOPE | |
|  | SWALE FLOW DIRECTION & SLOPE | |
|  | NOMINAL SLOPE | |
|  |  | SILT FENCE |
|  |  | LIMITS OF CONSTRUCTION |
|  |  | SEDIMENT CONTROL LOGS |
|  |  | VEHICLE TRACKING CONTROL PAD |
|  |  | CONCRETE WASHOUT AREA |
|  |  | SOIL RETENTION BLANKET |
|  |  | STAGING & STORAGE AREA |
|  |  | SEEDING & MULCHING |
|  |  | INLET PROTECTION & OUTLET PROTECTION |

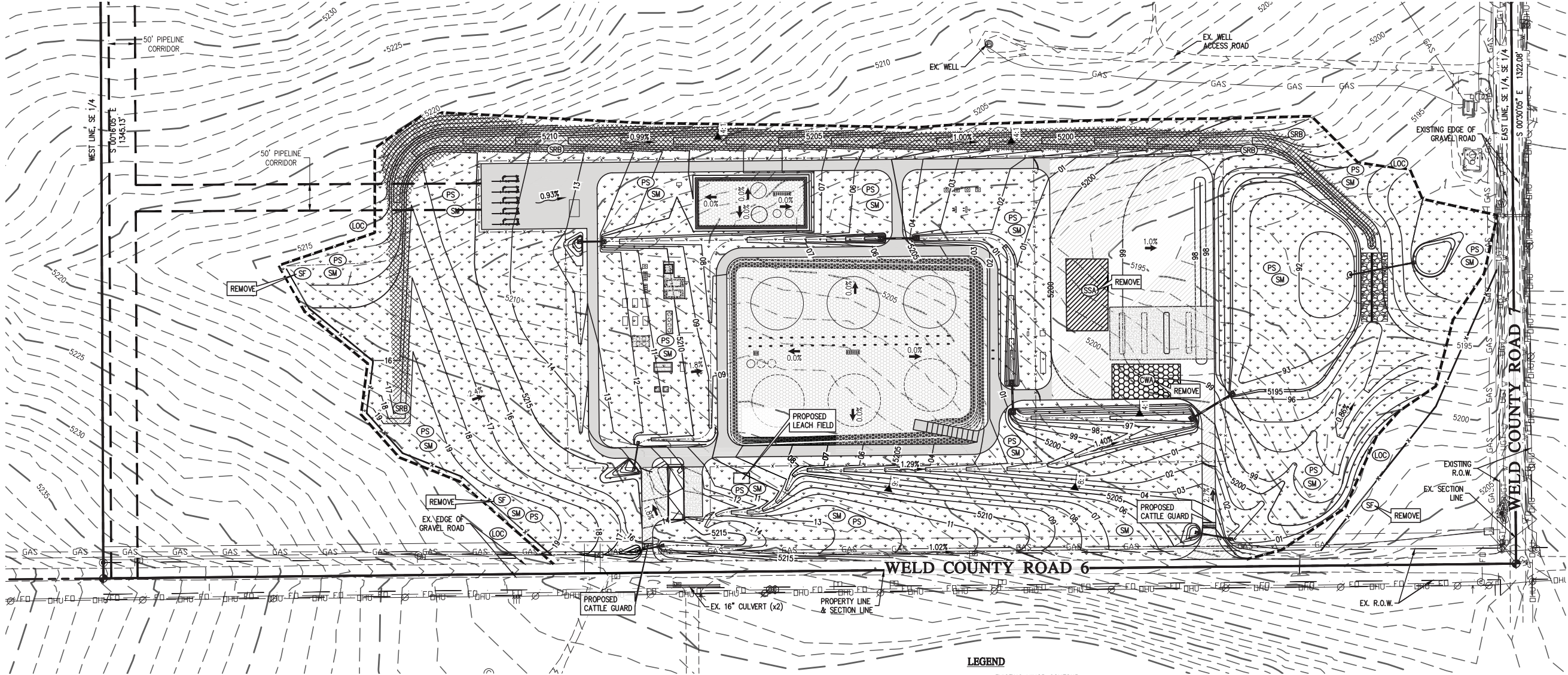
NOTES

1. GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
2. ALL INTERIOR CULVERTS WILL UTILIZE TYPE 'I' OUTLET SOIL RIP RAP PROTECTION, REFER TO STORM PLAN AND PROFILES FOR LIMITS OF PROTECTION.
3. REFER TO DETAIL 10 ON C6 FOR SOIL RETENTION BLANKET PLACEMENT.

1 EROSION CONTROL PLAN- INTERM



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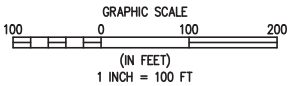


LEGEND

- 5219 --- EXISTING MINOR CONTOUR
- 5220 --- EXISTING MAJOR CONTOUR
- 5219 --- PROPOSED MINOR CONTOUR
- 5220 --- PROPOSED MAJOR CONTOUR
- GR INLET GRATE ELEVATION
- ME MATCH EXISTING ELEVATION
- 4.3% PAVED FLOW DIRECTION & SLOPE
- 4.3% SWALE FLOW DIRECTION & SLOPE
- 2:1 NOMINAL SLOPE
- (SF) SILT FENCE
- (LOC) LIMITS OF CONSTRUCTION
- (SCL) SEDIMENT CONTROL LOGS
- (VTC) VEHICLE TRACKING CONTROL PAD
- (CWA) CONCRETE WASHOUT AREA
- (SRB) SOIL RETENTION BLANKET
- (SSA) STAGING & STORAGE AREA
- (PS SM) PERMANENT SEEDING & MULCHING
- PROPOSED CRUSH GRAVEL PAVEMENT
- PROPOSED STANDARD ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- PROPOSED RIP RAP PAD
- PROPOSED CONTAINMENT LINER

NOTES

- GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
- ALL INTERIOR CULVERTS WILL UTILIZE TYPE "L" OUTLET SOIL RIP RAP PROTECTION, REFER TO STORM PLAN AND PROFILES FOR LIMITS OF PROTECTION.
- REFER TO DETAIL 10 ON C6 FOR SOIL RETENTION BLANKET PLACEMENT.
- THE EROSION AND SEDIMENT CONTROL MEASURES NOTED ON THIS PLAN WILL REMAIN IN PLACE UNTIL FINAL STABILIZATION UNLESS OTHERWISE NOTED. CONCRETE WASHOUT AREA WILL BE REMOVED FOLLOWING THE COMPLETION OF ALL CONCRETE WORK, PRIOR TO LANDSCAPING. VEHICLE TRACKING CONTROL WILL BE REMOVED FOLLOWING COMPLETION OF ALL PAVEMENT. INLET PROTECTION OF EXISTING INLETS WILL REMAIN UNTIL FINAL STABILIZATION.



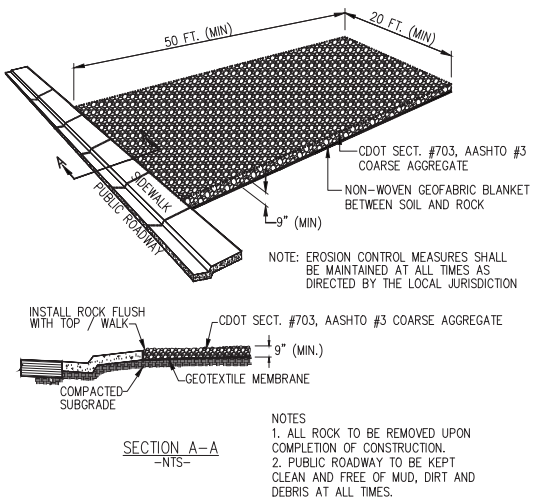
1 EROSION CONTROL PLAN- FINAL

DESIGNED BY	LTV
PREPARED BY	LTV
DATE	03-18-2014
REVISION DESCRIPTION	PER ENCANA REVIEW
REVISION	
BY	
DATE	
CHECKED BY	NUN

ENCANA OIL & GAS (USA) INC.
COLORADO
WELD COUNTY
LIQUIDS HANDLING HUB
PART OF SE 1/4 SECTION 21, T1N, R68W
EROSION CONTROL PLAN- FINAL

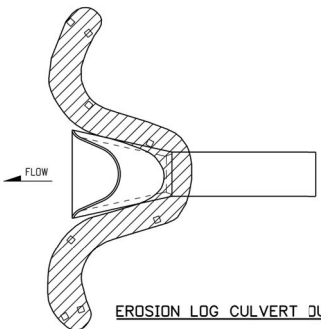
PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF	BASELINE CORPORATION
INITIAL SUBMITTAL	8/9/2013
DRAWING SIZE	24" X 36"
SURVEY FIRM	BASELINE
SURVEY DATE	7/23/2013
JOB NO.	PL 226
DRAWING NAME	226 Civil.dwg
SHEET	5 OF 9
C5	



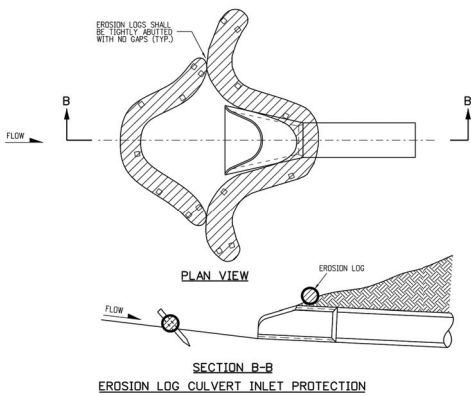
2
C4 C6

VEHICLE TRACKING CONTROL (VTC)



3
C4 C6

OUTLET PROTECTION (OP)



4
C4 C6

INLET PROTECTION (IP)

SEED MIX:

BLUE GRAMA	3.0
SIDEOTS GRAMA	1.0
WESTERN WHEATGRASS	3.0
BUFFALOGRASS	2.0
GREEN NEEDLEGRASS	1.5
SAND BLUESTEM	1.25
SAND DROPSEED	0.25

TOTAL 12 PLS/ACRE (PLS= POUNDS LIVE SEED)

PLUS A NURSE (COVER) CROP AT TIME OF SEEDING.

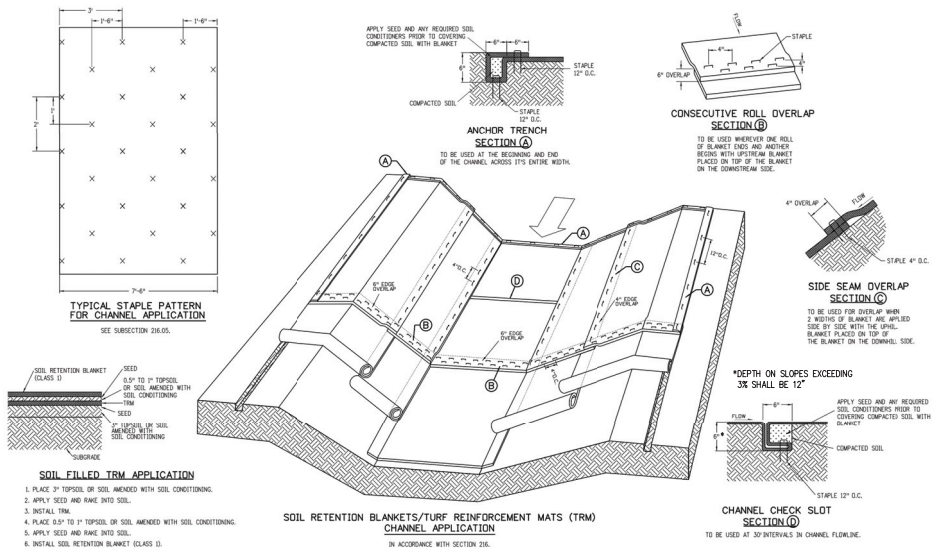
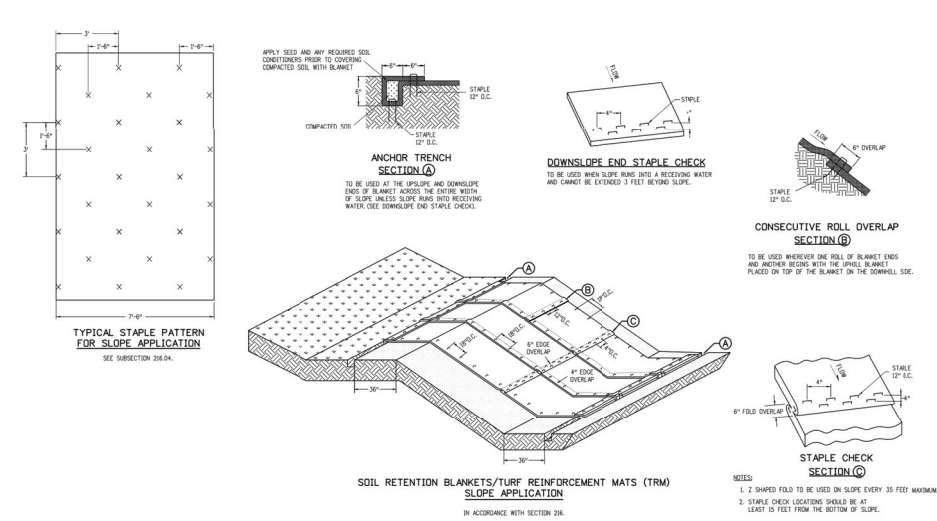
REGREEN (STERILE WHEAT) OR QUICKGUARD (STERILE TRITICALE)

SEEDED AT 1-2 POUNDS/ACRE.

- NOTES:
- ALL DISTURBED AREAS SHALL BE DRILL SEEDDED OR HYDRO-MULCHED.
 - WATER SEEDD AREAS A MINIMUM OF 2 TIMES PER WEEK TO GET GERMINATION THRU MAY 2014.

5
C4 C6

SEED MIX



6
C4 C6

SOIL RETENTION BLANKET (SRB)

- NOTES:
- BLANKET TO BE PLACED ALONG ALL DISTURBED DITCH SLOPES. WINTERS COIR DOUBLE COCONUT BLANKET OR EQUIVALENT.

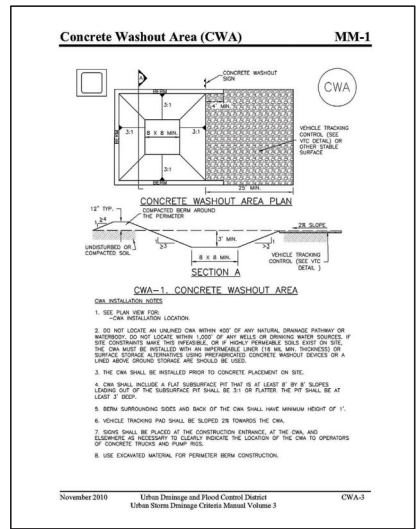
REFER TO CDOT
DETAIL M208-1

Ditch Gradient (%)	Recommended Sediment Control Log Spacing
0.5	250
1	150
2	70
3	50
4	35
5	25
6 or more	20

- NOTES:
- SCL SPACING NOTED ON THE PLAN VIEW IS FOR GRAPHIC PURPOSES ONLY. USE THE RECOMMENDED SPACING ABOVE BASED ON THE FINAL DITCH SLOPE.
 - FOR DITCH GRADIENT GREATER THAN 4.5% USE ROCK CHECK DAMS.

7
C4 C6

SEDIMENT CONTROL LOGS (SCL)



8
C4 C6

CONCRETE WASHOUT AREA (CWA)

Western Wheatgrass (Arimba, Barton, Rosana)	3 lbs. / acre
Little Bluestem (Cimarron, Camper, Blaze, Aldous)	2 lbs. / acre
Blue Grama (Hachital, Lovington)	2.5 lbs. / acre
Sideots Grama (Vaughn, Butte, Niner, El Reno, Haskell)	2 lbs. / acre
Switchgrass (Pathfinder, Nebraska 28, Summer, Sunburst)	2 lbs. / acre
Green Needlegrass Grass (Lodonn)	2 lbs. / acre
Sand Dropseed	0.25 lb / acre
Total:	13.75 lbs pls /acre

** Double the seed mix for hydroseeding.

9
C4 C6

SEED MIXTURE TABLE

EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES:

- THE DISTURBANCE AREA FOR THE PROJECT IS GREATER THAN ONE ACRE; THEREFORE, A STATE OF COLORADO CONSTRUCTION STORMWATER DISCHARGE PERMIT IS TO BE OBTAINED BY CONTRACTOR.

- THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE STORMWATER MANAGEMENT PLANS MAY BE MODIFIED WITH APPROPRIATE APPROVALS FROM THE ENGINEER, AND MAY REQUIRE ADDITIONAL MEASURES AS FIELD CONDITIONS WARRANT.

- A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT PLAN BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE PERFORMED EVERY FOURTEEN (14) CALENDAR DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT EVENT. PERIODIC INSPECTIONS SHALL ALSO INCLUDE INSPECTING EQUIPMENT FOR LEAKS AND REVIEWING EQUIPMENT MAINTENANCE PRACTICE. ALL INSPECTIONS AND MAINTENANCE SHALL BE DOCUMENTED BY THE PROJECT EROSION CONTROL SUPERVISOR AND MADE AVAILABLE TO THE ENGINEER UPON REQUEST. ANY EROSION CONTROL BMP'S THAT HAS BEEN COMPROMISED OR HAS BEEN DISTURBED SHALL BE REPLACED OR RECONSTRUCTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL EROSION CONTROL BMP'S IN PLACE AND EFFECTIVE PRIOR TO A STORM EVENT.

- THE STORMWATER MANAGEMENT PLAN LOG BOOK SHALL BE UPDATED EVERY FOURTEEN (14) DAYS. THIS LOG SHALL REMAIN ON SITE AVAILABLE FOR REVIEW BY THE ENGINEER UPON REQUEST. MAINTENANCE ACTIVITIES TO CORRECT PROBLEMS NOTED DURING INSPECTIONS MUST BE DOCUMENTED AND KEPT IN THE STORMWATER MANAGEMENT PLAN LOG BOOK.

- ALL CONSTRUCTION SITE OPERATORS SHALL CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE, TRUCK WASHOUT, HAZARDOUS CHEMICALS (TO INCLUDE BUT NOT LIMITED TO HEAVY EQUIPMENT MAINTENANCE FLUIDS, MOTOR OIL, ANTIFREEZE AND VEHICLE FUEL), LITTER, AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO STORMWATER QUALITY.

- ALL POTENTIAL POLLUTION SOURCES ON-SITE SHALL BE IDENTIFIED AND CONTROL MEASURES INSTALLED AND PRACTICED TO MINIMIZE THE LIKELIHOOD OF A RELEASE.

- ALL PORTABLE TOILET FACILITIES SHALL BE LOCATED AWAY FROM GUTTERS, INLETS, DITCHES, DRAINAGEWAYS, RECEIVING WATERS AND AREAS SUSCEPTIBLE TO FLOODING OR DAMAGE BY CONSTRUCTION EQUIPMENT.

- ALL PORTABLE TOILET FACILITIES SHALL BE SECURED IN PLACE BY STAKES INTO THE GROUND TO PREVENT TIPPING.

- STOCKPILES INCLUDING LANDSCAPING MATERIALS, EARTH MATERIALS AND DIRT FROM GRADING OR EXCAVATION SHALL NOT BE LOCATED ADJACENT TO WATERWAYS.

- ALL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE PROPERLY COVERED TO PREVENT THE LOSS OF MATERIAL DURING TRANSPORT. HAUL ROUTES MUST BE PRE-APPROVED BY THE COUNTY. NO MATERIAL SHALL BE TRANSPORTED TO ANOTHER SITE WITHOUT FIRST OBTAINING A HAULING PERMIT FROM THE COUNTY.

PERFORMANCE STANDARD NOTES:

- TEMPORARY EROSION CONTROL FACILITIES AND/OR PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF AN EARTH DISTURBANCE OPERATION SHALL BE INSTALLED BEFORE ANY EARTH DISTURBANCE OPERATIONS TAKE PLACE.

- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.

- PERSONS ENGAGED IN EARTH DISTURBANCES SHALL DESIGN, IMPLEMENT, AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS ADOPTED BY WELD COUNTY.

- EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST POSSIBLE PERIOD OF TIME.

- SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE REMOVED FROM RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE.

- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.

- RECORDS OF SPILLS, LEAKS, OR OVERFLOWS THAT RESULT IN THE DISCHARGE OF POLLUTANTS MUST BE DOCUMENTED AND MAINTAINED. SOME SPILLS MAY NEED TO BE REPORTED TO THE DIVISION IMMEDIATELY; SPECIFICALLY, A RELEASE OF ANY CHEMICAL, OIL, PETROLEUM PRODUCT, SEWAGE, ETC., WHICH MAY ENTER WATERS OF THE STATE, MUST BE REPORTED. MORE GUIDANCE IS AVAILABLE ON THE WEB AT WWW.CDPHE.STATE.CO.US/EMP/SPILLSANDRELEASED.HTM. THE DIVISION'S TOLL FREE 24-HOUR ENVIRONMENTAL EMERGENCY SPILL REPORTING LINE IS 1.877.518.5608. ALSO IMMEDIATELY CALL THE ENGINEER - RICK BEHNING AT 970.353.7600 AND WELD COUNTY - JOSH HOLBROOK AT 970.301.2622.

BMP MAINTENANCE NOTES:

- IT IS ANTICIPATED THAT THE BMP'S IMPLEMENTED AT THE SITE WILL HAVE TO BE MODIFIED TO ADAPT TO CHANGING CONDITIONS OR TO ENSURE THAT POTENTIAL POLLUTANTS ARE BEING PROPERLY MANAGED AT THE SITE. WHEN BMP'S ARE MODIFIED, THE SWMP MUST BE MODIFIED TO ACCURATELY REFLECT THE ACTUAL FIELD CONDITIONS.

- THE OWNER/CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL SILT FENCING SO THAT IT FUNCTIONS PROPERLY DURING CONSTRUCTION AND WORK SUSPENSIONS. ALL SILT FENCING SHALL BE REMOVED BY THE CONTRACTOR UPON SUBSTANTIAL PERMANENT STABILIZATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

- ALL INLET/OUTLET PROTECTIONS WILL BE CHECKED FOR MAINTENANCE AND FAILURE. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF ONCE IT HAS ACCUMULATED TO HALF THE DESIGN OF THE TRAP.

- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

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ENCANA OIL & GAS (USA) INC.

LIQUIDS HANDLING HUB

PART OF SE 1/4 SECTION 21, T1N, R68W

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03-08-2014

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PER ENCAN

FOR AND ON BEHALF OF

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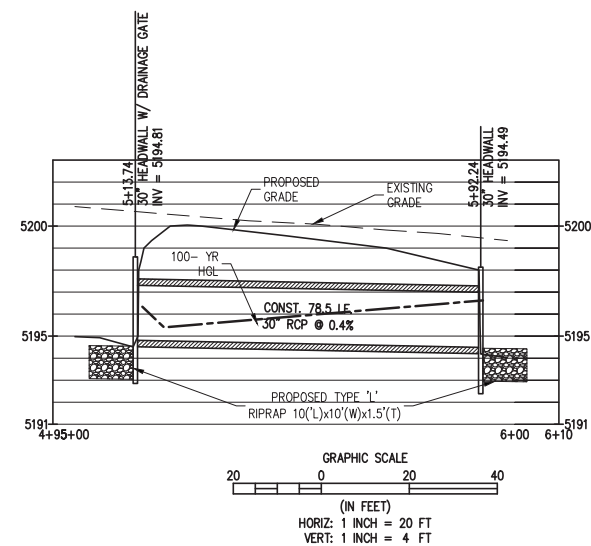
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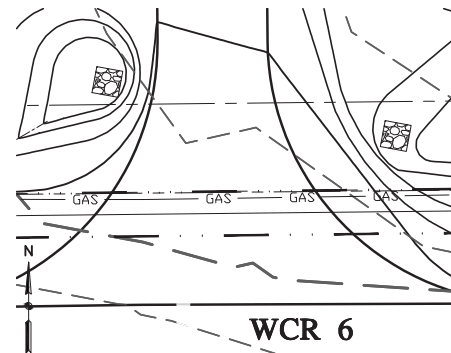
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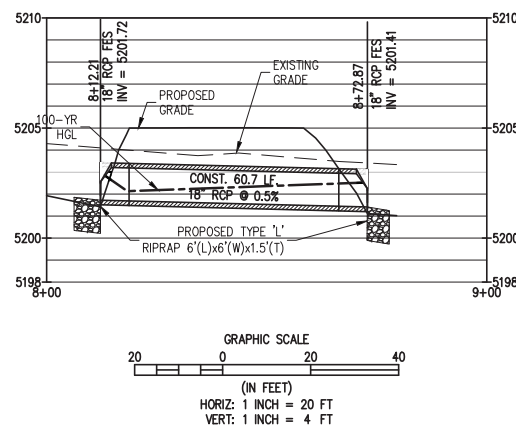
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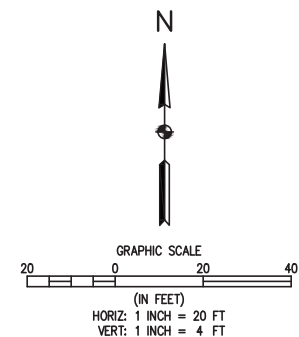
6 DP 5: CULVERT 5 – PLAN & PROFILE



1. ALL PIPE LENGTHS INCLUDE END SECTIONS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO STORM UTILITY CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY IF EXISTING CONDITIONS DIFFER FROM WHAT IS HWON ON APPROVED PLANS.
3. CULVERTS WITH LESS THAN 1 FOOT OF COVER SHALL USE FLOW FILL PER THE LATEST WELD COUNTY STANDARDS AND SPECIFICATIONS.



9 DP 13: CULVERT 8 – PLAN & PROFILE
C7 C7



1 STORM PLAN & PROFILE

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