



- NOTES:
- SEE THE ARAPAHOE COUNTY GESC PLAN STANDARD NOTES AND DETAILS, REVISED JANUARY 2010 (3 SHEETS) FOR ALL STANDARD DETAILS, NOTES AND LEGENDS OF BMP NAMES AND SYMBOLS PART OF FIELD WIDE REPORT.
 - QUANTITIES:
EXISTING GRADE AT WELL HEAD 4CH = 5637.2'
EXISTING GRADE AT WELL HEAD 4AH = 5636.7'
EXISTING GRADE AT WELL HEAD 3DH = 5633.8'
EXISTING GRADE AT WELL HEAD 3CH = 5633.1'
PAD SITE ELEVATION = 5632.4' (GROUND), 5632.9' (GRAVEL)
CUT SLOPES = 3:1
FILL SLOPES = 3:1
TOPSOIL PHASE 1 = 6,757 CY REMOVED, 1,258 CY PLACED @ 3" DEPTH ON PAD CUT/FILL SLOPES, 5,500 CY STOCKPILED
TOPSOIL PHASE 2 = 3,168 CY REMOVED, 242 CY PLACED @ 3" DEPTH ON PAD CUT/FILL SLOPES, 2,926 CY STOCKPILED
TOTAL PHASE 1 CUT = 56,900 CY (DOES NOT INCLUDE TOPSOIL)
TOTAL PHASE 2 CUT = 8,076 CY (DOES NOT INCLUDE TOPSOIL)
TOTAL PHASE 1 FILL = 5,995 CY (INCLUDES 10% ADJUSTMENT FOR COMPACTION)
TOTAL PHASE 2 FILL = 9,143 CY (INCLUDES 10% ADJUSTMENT FOR COMPACTION)
PHASE 1 GRAVEL BASE AT 6" DEPTH = 3,770 CY
PHASE 2 GRAVEL BASE AT 6" DEPTH = 2,683 CY
TOTAL PHASE 1 DISTURBED AREA = 18.87 ACRES (INCLUDING ACCESS ROADWAY)
TOTAL PHASE 2 DISTURBED AREA = 6.25 ACRES (INCLUDING ACCESS ROADWAY)
**SEE THE QUANTITIES/COST ESTIMATE FOR ADDITIONAL QUANTITIES (COVER SHEET).
 - ALL DIVERSION DITCHES ARE ANTICIPATED TO BE UNLINED.
 - THE DIMENSION OF THE CRUSHED ROCK AROUND THE SEDIMENT BASIN RISER PIPE IS LARGER THAN THE HOLE DIAMETER.
 - ALL BMP'S ARE FINAL UNLESS DASHED LINE TYPE. DASHED LINE TYPE BMP'S ARE INTERIM.

SOILS:

USING THE US DEPARTMENT OF AGRICULTURE'S WEB SOIL SURVEY 2 SOIL TYPES EXIST WITHIN THE PROJECT BOUNDARY, ADENA-COLBY SILT LOAMS, 1 TO 5 PERCENT SLOPES (AdC), 59.2% AND WELD-DEERTRAIL SILT LOAMS, 0 TO 3 PERCENT SLOPES (WbB), 40.8%. ALL OF THE SOILS LISTED ABOVE FALL INTO THE HYDROLOGIC CLASSIFICATION GROUP C, WHICH HAS SLOW INFILTRATION. THE K FACTOR DESCRIBES A SOIL'S SUSCEPTIBILITY FOR RILL AND SHEET EROSION POTENTIAL (RATED 0.02 TO 0.69). THE HIGHER THE VALUE THE MORE SUSCEPTIBLE THE SOIL IS TO EROSION. THIS PROJECTS AREA'S SOIL HAS AN AVERAGE K OF 0.35.

SEDIMENT BASIN:

SEDIMENT BASIN: TRIBUTARY AREA IS 10.83 ACRES, WHICH IS LESS THAN 1/4 ACRES, THEREFORE USE 52'W X 104' L X 4' D, CL = 22', HD = 1 1/2'.

DIVERSION DITCH CAPACITY: 2.39 CFS @ 0.25%
OFFSITE DIVERSION DITCH CAPACITY: 4.77 CFS @ 0.25%

BENCH MARK
BENCHMARK 374 LOCATED ON THE SECTION LINE
BETWEEN SECTIONS 12 AND 13, T5S, R64W, 6TH
P.M., TAKEN FROM 1988 PUBLISHED DATUM BY THE
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY AS BEING 6054.81 FEET.

CALL 811
BEFORE YOU DIG
1-800-922-1987

ARAPAHOE COUNTY CASE NUMBER: OG15-002

No.	Revisions	Date	Init.	Appr.	Date
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CVL
CONSULTANTS
CIVIL ENGINEERING LAND SURVEYING

CONOCOPHILLIPS COMPANY
ATTN: WAYNE MCCREESH
1400 W. 10TH AVE.
WATKINS, CO 80137
PHONE: (303) 588-3789

PROSPER FARMS 4-65 2-1 4CH, 4AH,
3DH & 3CH GESC PLANS
FINAL GESC

SCALE: AS SHOWN
DRAWN BY: KID
CHECKED BY: MEL
DATE: 07-15-15
FILE NO: 8.13.0201678

SHEET NUMBER
3