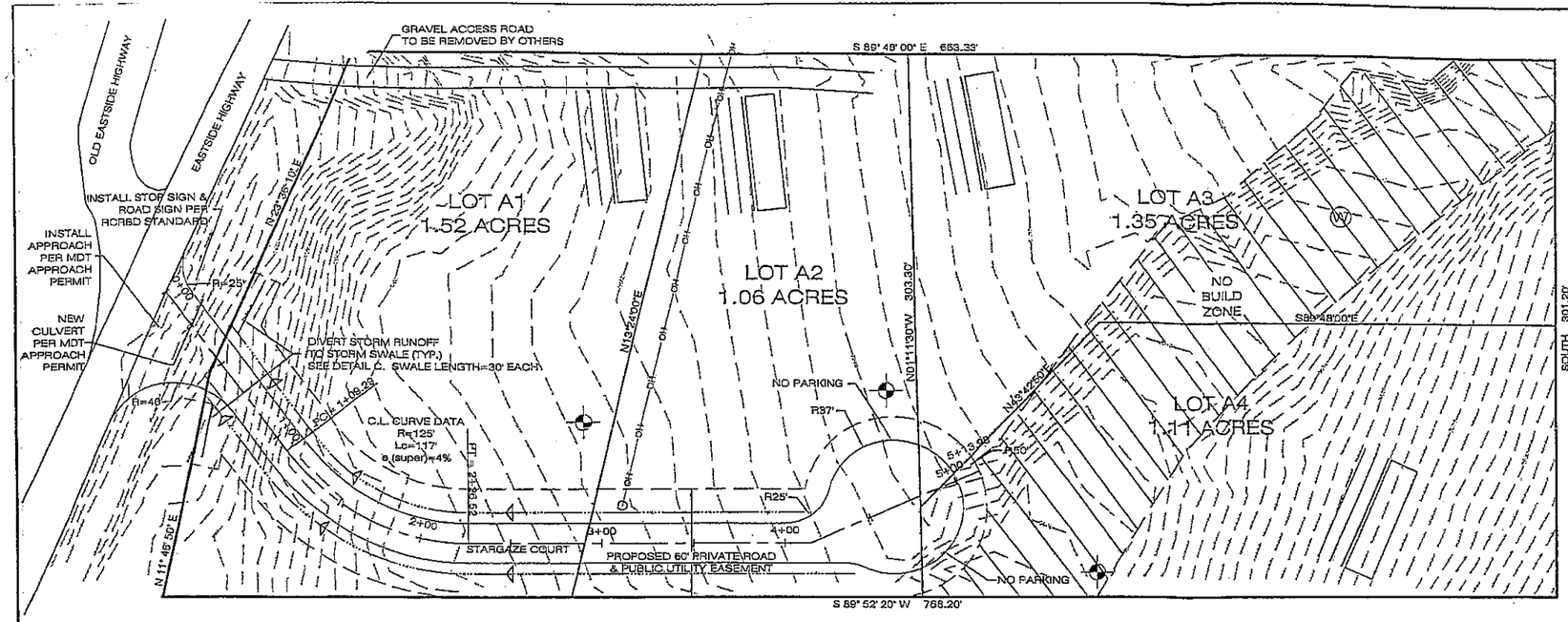
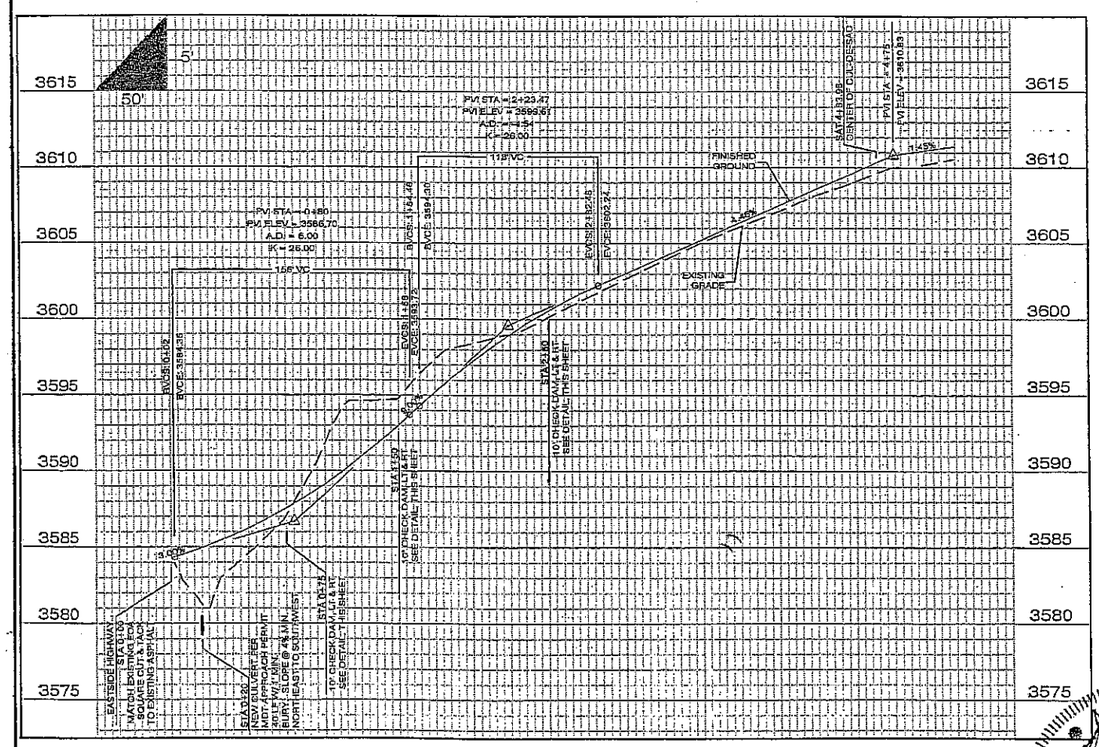
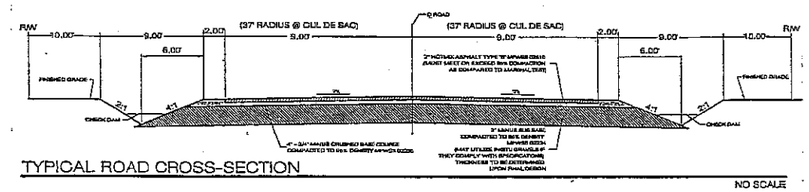
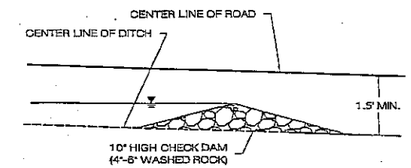






TYPICAL ROAD CROSS-SECTION

NO SCALE

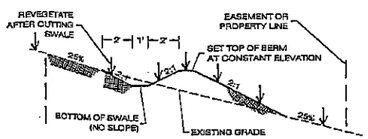


TYP. CHECK DAM DETAIL

NO SCALE

NOTE TO CONTRACTOR

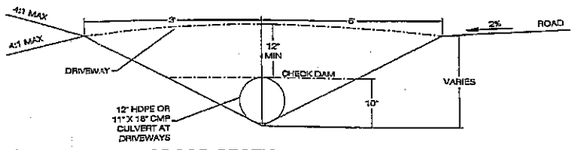
1. THE CONSTRUCTION OF THIS ROAD REQUIRES CERTIFICATION BY A PROFESSIONAL ENGINEER
2. THE CONTRACTOR SHALL CONTACT LANDWORKS CONSULTING AND DESIGN, INC. (406-542-1415) AT LEAST 3 WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION TO DISCUSS CONSTRUCTION AND CERTIFICATION.
3. THE CONTRACTOR SHALL PROVIDE TO THE CERTIFYING ENGINEER GRADATION AND PROCTOR OF THE SUB-BASE AND BASE MATERIALS TO BE USED IN CONSTRUCTION AT LEAST 48 HOURS BEFORE CONSTRUCTION IS TO START ON THESE WORK ITEMS.
4. THE CONTRACTOR SHALL PROVIDE TO THE CERTIFYING ENGINEER MIX DESIGN OF THE ASPHALT TO BE USED IN CONSTRUCTION AT LEAST 48 HOURS BEFORE PAVING IS TO START WHERE APPLICABLE.
5. THE CONTRACTOR SHALL PROVIDE AT LEAST 24 HOURS NOTICE TO THE CERTIFYING ENGINEER PRIOR TO COMPLETING WORK ON THE SUB-GRADE, SUB-BASE OR PAVING SO THE ENGINEER MAY COMPLETE THE NECESSARY INSPECTIONS AND TESTING WHERE APPLICABLE.



© TYPICAL INFILTRATION DRAINAGE SWALE FOR ROADSIDE DRAINAGE

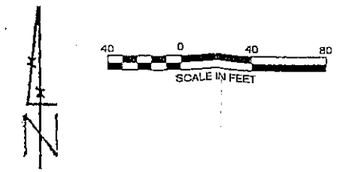
NO SCALE

PLACE ONE TRENCH (TWO TOTAL) ON EACH SIDE OF ROADWAY PARALLEL TO CONTOURS. TRENCHES SHALL BE LOCATED WITHIN PROPERTY BOUNDARY & EASEMENTS NEAR PROPOSED ROADWAY APPROACH. ALL DRAINAGE FROM ROADSIDE DITCHES SHALL BE DIVERTED TO DRAINAGE SWALE.



TYPICAL DITCH CROSS-SECTION

NO SCALE



LEGEND

- PROPOSED WELL
- EXISTING WELL
- ROAD SLOPE
- DRAINAGE FLOW ARROWS
- PROPERTY LINE
- PROPOSED ROAD
- ROADSIDE DITCH
- PROPOSED 3" IRRIGATION LINE
- EASEMENTS
- GRAVEL CHECK DAM
- ROAD DRAINAGE FLOW ARROWS (WHERE NO DITCH IS PLANED)

GENERAL NOTES

1. DURING CONSTRUCTION IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT EXISTING UTILITY LINES.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SHOULD ANY CONFLICTS EXIST BETWEEN THE PLANS AND WHAT IS FOUND IN THE FIELD.
3. THE CONTRACTOR SHALL VERIFY ALL THE NECESSARY PERMITS HAVE BEEN OBTAINED TO COMPLETE THE PROPOSED WORK AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
4. THE CONTRACTOR SHALL NOTIFY APPROPRIATE PERSONNEL FOR UTILITY LOCATIONS AND NOTICE OF CONSTRUCTION COMMENCEMENT TWO BUSINESS DAYS PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS (BUILDINGS, ROADWAYS, FENCES, PARKING LOTS, UTILITIES, TREES, ETC.) FROM DAMAGE AND EROSION. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
6. ALL SITE CIVIL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS, MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (MPWSS 5TH EDITION), RAVALLI COUNTY STANDARDS, AND LANDWORKS SPECIFICATIONS, WHERE APPROPRIATE.
7. MAPPING AND ELEVATIONS ARE BASED ON A SURVEY COMPLETED BY APPLEBURY SURVEYING (406-961-3257). LANDWORKS CONSULTING AND DESIGN, INC. ASSUMES NO RESPONSIBILITY OR LIABILITY FOR ACCURACY AND/OR COMPLETENESS OF THE LOCATED OR UTILITIES SHOWN. EXCAVATION OF UNDERGROUND UTILITIES MAY INDICATE ADDITIONAL UTILITIES OR LOCATIONS OTHER THAN SHOWN HERE.
8. AN APPROACH PERMIT HAS BEEN OBTAINED FROM MDT. CONTACT LANDWORKS CONSULTING & DESIGN, INC. AT 406-542-1415 FOR A COPY TO ENSURE THE APPROACH IS INSTALLED AS REQUIRED.

andworks
Consulting & Design, Inc.
+ Civil Engineering + Land Consulting
Ph: (406) 542-1415
Fax: (406) 542-8232
PO Box 7908
Missoula, MT 59807

MONTANA NATHAN D. LUCKE 14183PE LICENSED PROFESSIONAL ENGINEER

REVISIONS	
DATE	DESCRIPTION

DATE JUNE 2, 2006

AP OF LOT 1, VERNON RANCHETTS

GRADING & DRAINAGE PLAN

LEGAL DESCRIPTION: TRACT A OF COS 630 SEC. 30, T10N, R19W RAVALLI COUNTY, MT

PREPARED FOR: JEFF AND TRACY SCUSSEL

DWG LOCATION: Z:\2005 PROJECTS\1154 - SCUSSEL\DWGS\Plot\P&P.Grading.dwg

LANDWORKS PROJECT NO. 05-1154 | FLAT FILE NO. XX | SHEET 1 OF