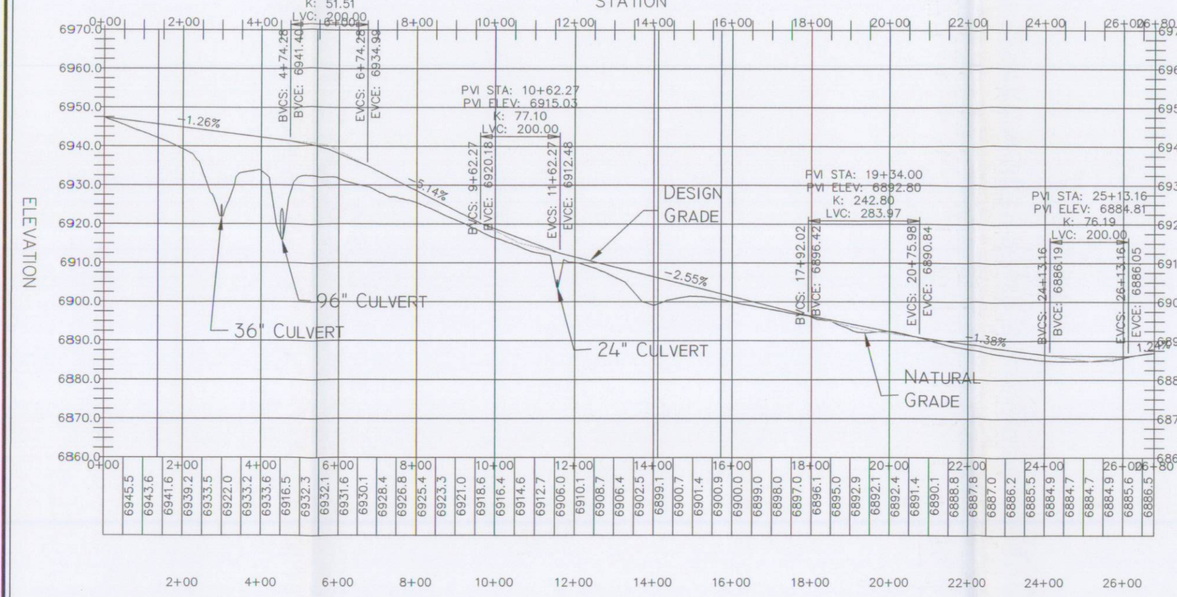
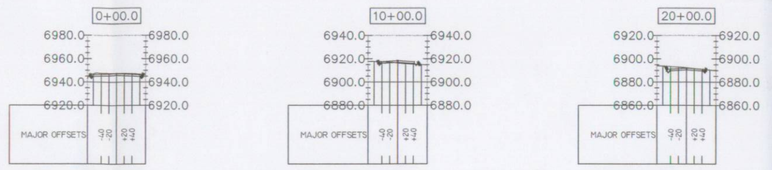
YEAR 1 AND 2

PROFILE VIEW: PV - (1)
SCALE: 20
DATUM: 6860.00

HORZ. SCALE 1" = 300', VERT. SCALE 1" = 100'
STATION



HORZ. SCALE 1" = 300', VERT. SCALE 1" = 100'

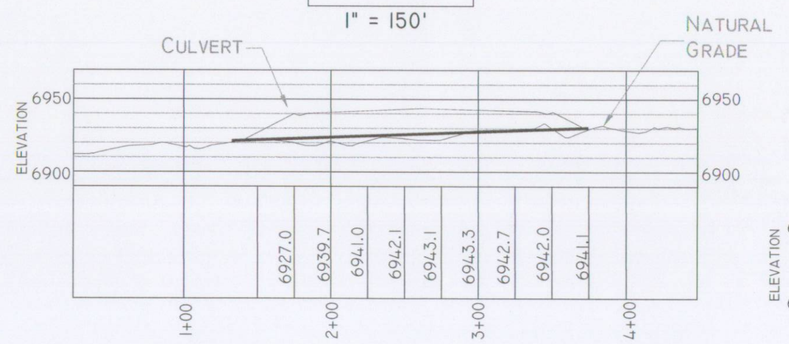


NG 6947.44'
SG 6945.88'
CUT 1.56'

NG 6916.38'
SG 6916.83'
FILL 0.45'

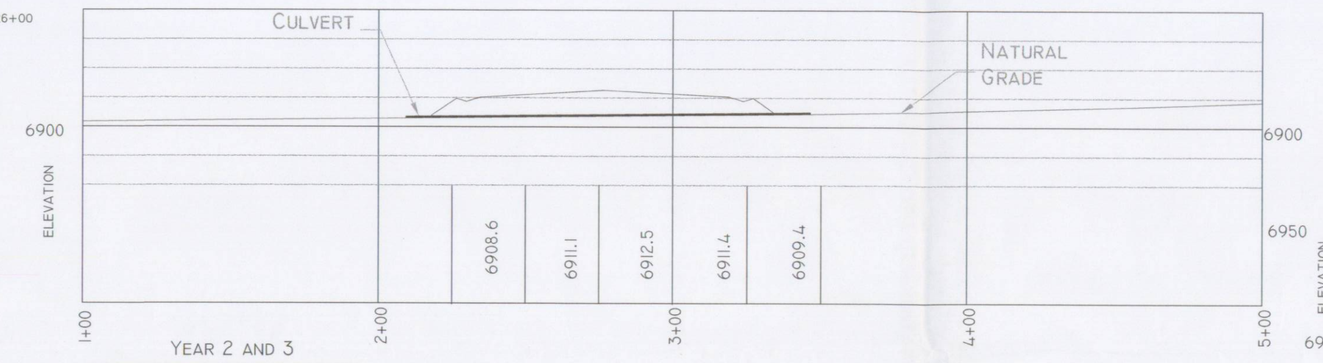
NG 6892.36'
SG 6890.51'
CUT 1.85'

18" CULVERT
YEAR 1 AND 2
1+86.05'
1" = 150'



HORIZONTAL SCALE: 1" = 80'
VERTICAL SCALE: 1" = 80'

24" CULVERT
YEAR 1 AND 2
11+55.86'
1" = 150'

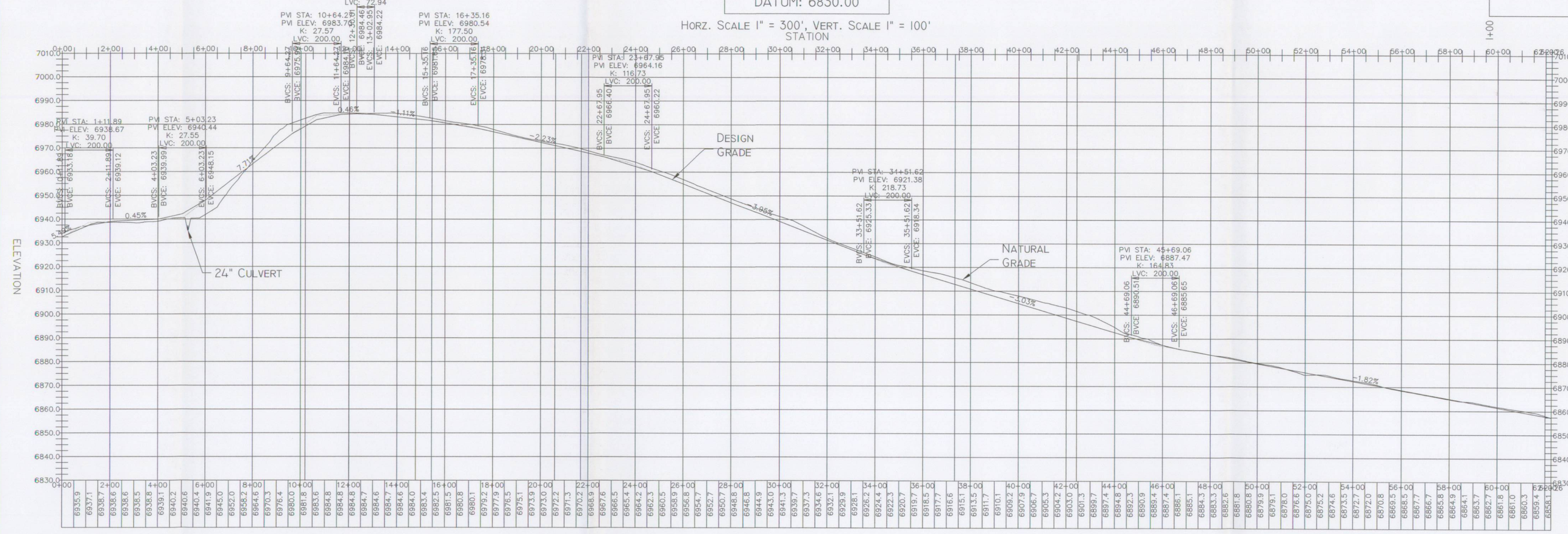


HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 80'

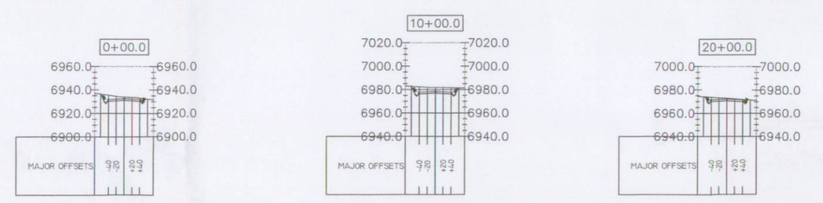
YEAR 2 AND 3

PROFILE VIEW: PV - (2)
SCALE: 20
DATUM: 6830.00

HORZ. SCALE 1" = 300', VERT. SCALE 1" = 100'
STATION



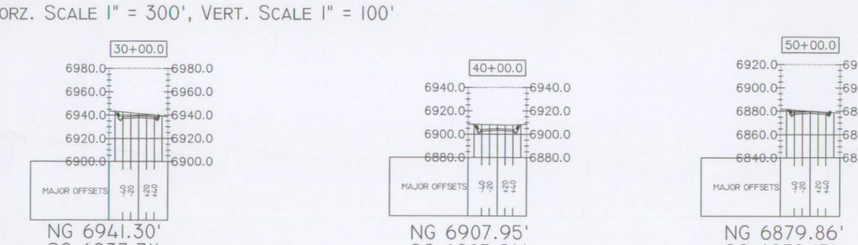
HORZ. SCALE 1" = 300', VERT. SCALE 1" = 100'



NG 6933.90'
SG 6931.03'
CUT 2.87'

NG 6981.84'
SG 6976.98'
CUT 4.86'

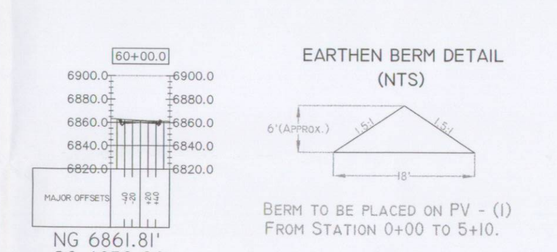
NG 6973.02'
SG 6970.89'
CUT 2.13'



NG 6941.30'
SG 6937.71'
CUT 3.59'

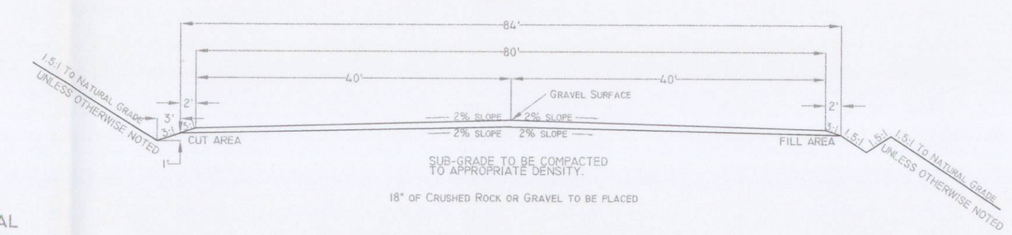
NG 6907.95'
SG 6903.24'
CUT 4.71'

NG 6879.86'
SG 6878.13'
CUT 1.73'

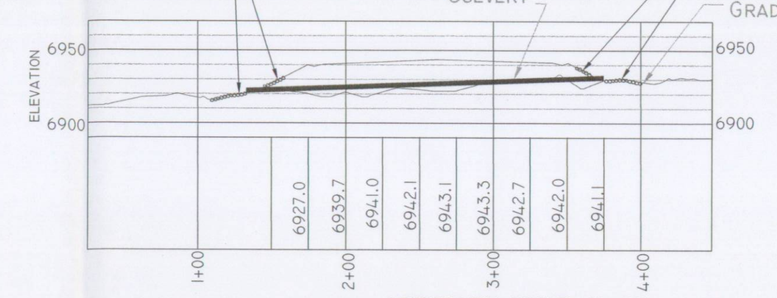


NG 6861.81'
SG 6859.92'
CUT 1.89'

TYPICAL CROSS SECTION
NTS

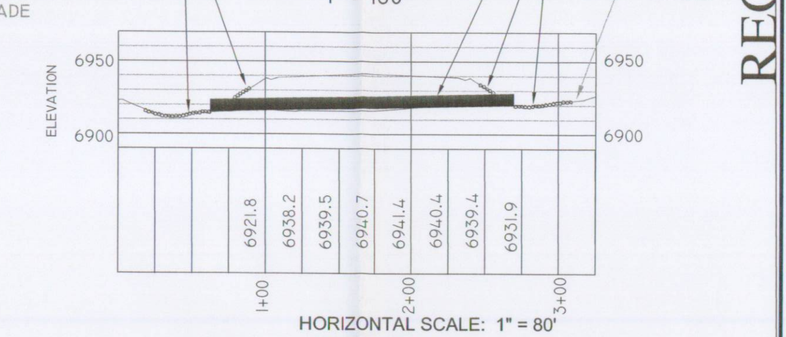


36" CULVERT
YEAR 1 AND 2
2+94.45'
1" = 150'



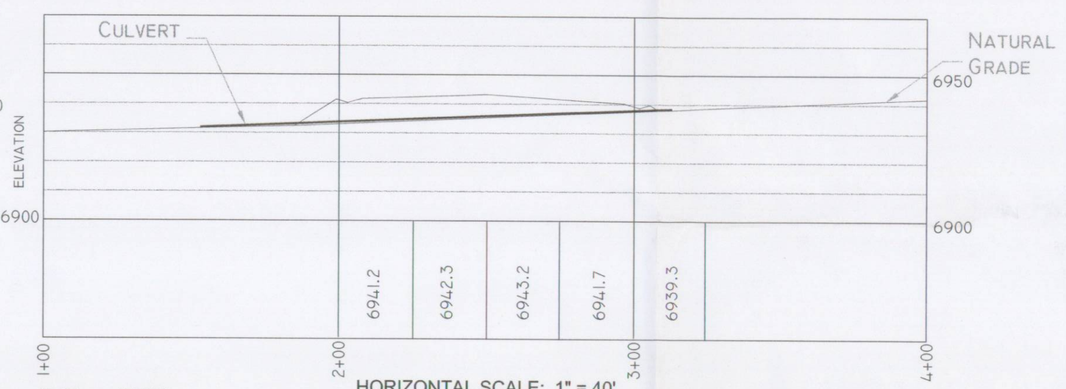
HORIZONTAL SCALE: 1" = 80'
VERTICAL SCALE: 1" = 80'

96" CULVERT
YEAR 1 AND 2
4+54.66'
1" = 150'

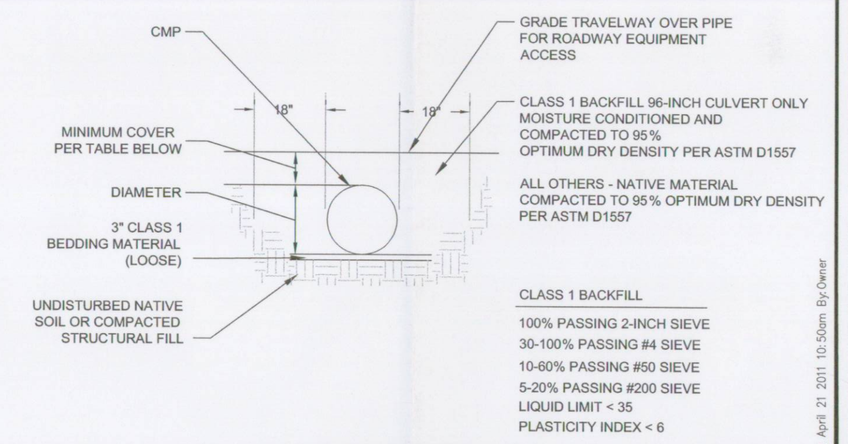


HORIZONTAL SCALE: 1" = 80'
VERTICAL SCALE: 1" = 80'

24" CULVERT
YEAR 2 AND 3
5+25.52'
1" = 150'

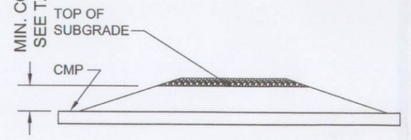


HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 80'



CMP PIPE BEDDING DETAIL
(NTS)

MINIMUM COVER FOR CMP PIPES IN HAUL ROADS	
PIPE DIAMETER (INCHES)	MINIMUM COVER (INCHES)
18	36
24	36
36	36
96	48
MINIMUM COVER FOR CMP PIPES IN FACILITIES ROADS	
PIPE DIAMETER (INCHES)	MINIMUM COVER (INCHES)
18	24



EARTHEN BERM DETAIL
(NTS)

BERM TO BE PLACED ON PV - (1)
FROM STATION 0+00 TO 5+10.

NG - NATURAL GROUND ELEVATION
SG - SUBGRADE ELEVATION

RECORD DRAWING

Alton Coal Development
Coal Hollow Project
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435)867-5331
Fax (435)867-1192

THIS SHEET LIMITED TO HAUL ROAD CULVERTS ALL OTHER DATA IS FOR INFORMATION ONLY

LICENSED PROFESSIONAL ENGINEER No. 348930 KERRY ROBERT BENSON STATE OF UTAH
4-19-2011

PRIMARY MINE HAUL ROAD CULVERT DETAILS (BID SCHEDULE 1)

COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: C6.1

REVISIONS

DATE:	BY:
4/19/11	KRB

DRAWN BY:	CHECKED BY:
KRB	JPL
DRAWING:	DATE: 11/06/2010
	SCALE: AS NOTED
	JOB NUMBER: 594-01-01

RECEIVED JUL 05 2011 DIV. OF OIL, GAS & MINING

CONSULTANT:
LESLIE & ASSOCIATES
444 South Main Street
Cedar City, Utah 84720
Phone (435)586-9474
FAX (435)586-8399
CIVIL ENGINEERS
LAND SURVEYORS

LEGEND:
PERMIT BOUNDARY
SECTION LINE
PROPOSED SEDIMENT IMPOUNDS
PROPOSED DIVERSION DITCHES

\\Slot\Alton\594-01\CAD\LAND_MINING\01-COAL_HOLLOW_PROJECT\Primary Haul Road Culverts.dwg April 21, 2011 10:50am By:Owner