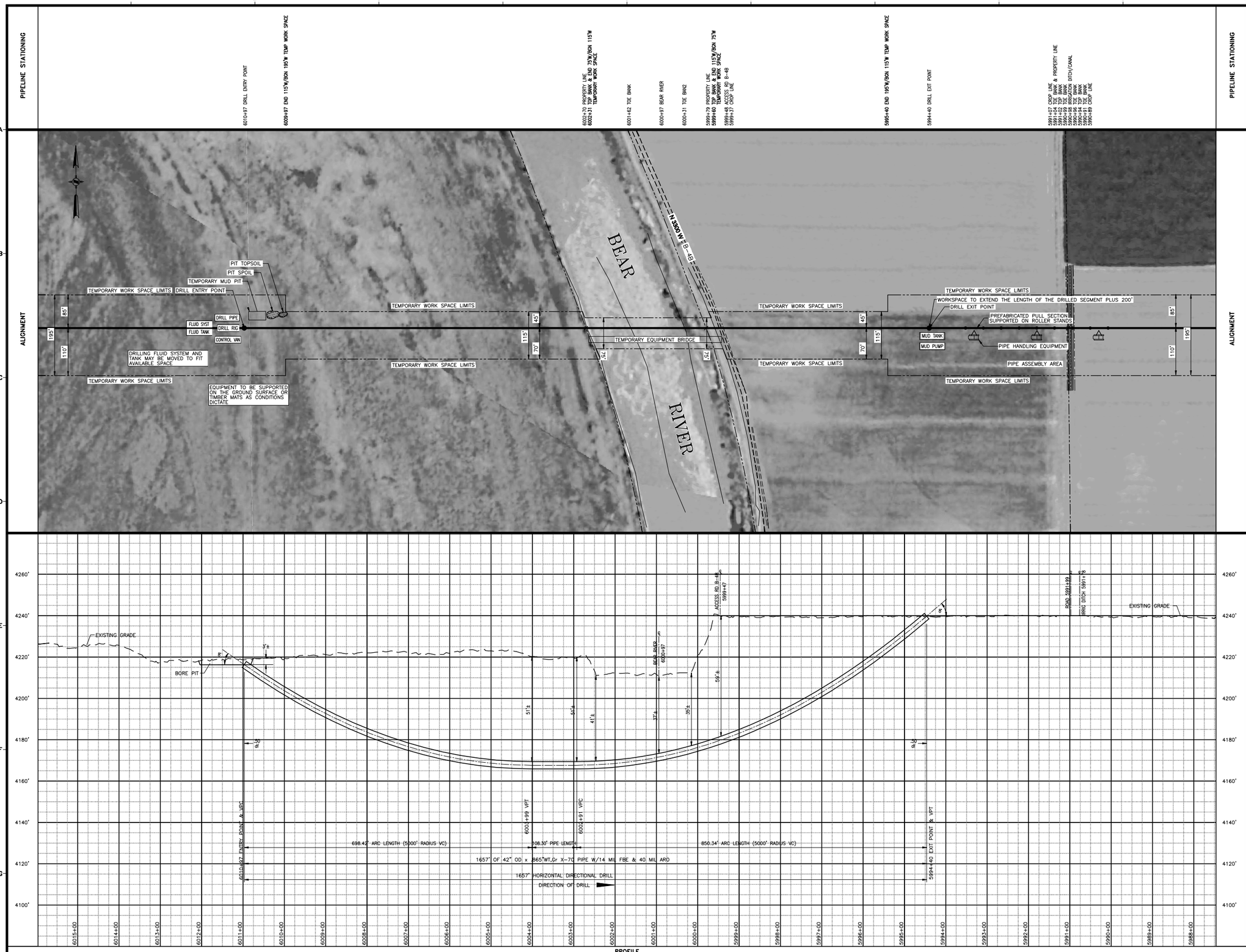


REFERENCE DRAWINGS

300A-48 ALIGNMENT SHEET

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1. PIPE DESIGN FACTOR IS 0.50
2. RIVER CROSSING TO BE INSTALLED BY THE HORIZONTAL DIRECTIONAL DRILL (HDD) METHOD.
3. HDD CONTRACTOR TO DESIGN PROFILE IN ACCORDANCE WITH INDUSTRY STANDARDS AND EQUIPMENT LIMITATION.
4. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND HYDROSTATICALLY TESTED FOR 4 HOURS.
5. A MINIMUM OF FIFTEEN (15) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED UNDER THE RIVER. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL RIVER BED ELEVATION.
6. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
7. CONSTRUCTION WORK IF REQUIRED AT THE RIVER BANK SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
8. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROVED ENVIRONMENTAL PLAN AND PROCEDURES.
9. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH BANKS OF THE RIVER SHALL BE MAINTAINED.
10. STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
11. CONTRACTOR MAY INSTALL A TEMPORARY BRIDGE FOR DAILY TRAFFIC ACCROSS THE RIVER. CONTRACTOR HAS THE CHOICE OF INSTALLING GRAVEL OVER THE FLUME(S) OR USING MATTS, RAILROAD CARS OR OTHER PORTABLE BRIDGING TO BRIDGE THE RIVER.
12. IF GRAVEL IS USED ACROSS THE FLUME, CONTRACTOR WILL SPREAD THE GRAVEL ALONG LOWER BANKS FOR STABILIZATION OR ALONG STREAM BOTTOM AS SPAWNING HABITAT AFTER REMOVAL OF THE FLUME. THE GRADIENT AT THE STREAM BOTTOM MUST BE THE SAME AS BEFORE CONSTRUCTION STARTED. THE GRAVEL SHALL CONSIST OF 1" TO 3" DIAMETER ROUND RIVER ROCK WITH A MINIMUM OF FINE MATERIAL.
13. ROW IS LIMITED TO 75 FEET IN THE WETLANDS LOCATED AT WATERS EDGE ON BOTH SIDES OF THE RIVER.

SITE SPECIFIC NOTES

1. CONTRACTOR MAY REQUEST A SHIFT IN WORK SPACE AS REQUIRED WITHIN THE STUDIED CORRIDOR.
2. CONTRACTOR WILL BE ALLOWED A ONE TIME PASS THROUGH THE RIVER CROSSING FOR EACH CONSTRUCTION CREW
3. EXTRA WORK SPACE IN RIVER WILL ONLY BE USED IN EVENT OF "FRAC OUT".
4. IF A "FRAC OUT" OCCURS IN THE RIVER
   (A) DRILLING IS TO CEASE IMMEDIATELY.
   (B) CONTRACTOR SHALL HAVE CONTAINMENT BOOMS OR SIMILAR CONTAINMENT DEVICE AVAILABLE TO CONTAIN DRILLING MUD IN THE RIVER.
   (C) CONTRACTOR SHALL ATTEMPT TO REMOVE AS MUCH OF THE DRILLING MUD AS PRACTICAL FROM THE RIVER BOTTOM BY SUCTION HOSE OR OTHER DEVICES.
   (D) CONTRACTOR MAY ATTEMPT TO RESUME DRILL WITH A ALTERNATE MUD VISCOSITY.
   (E) IF "FRAC OUT" CANNOT BE STOPPED BY CHANGING THE DRILLING FLUID, A NEW PILOT HOLE MAY BE DRILLED AT A DEEPER DEPTH.
   (F) OPEN CUTTING THE RIVER WILL ONLY BE PROPOSED IF ALL ATTEMPTS AT DRILLING FAIL. OPEN CUTTING REQUIRES PRIOR APPROVAL OF THE FREC, THE FISH & WILDLIFE SERVICE AND OTHER PERMITTING AGENCIES.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

50' 25' 0 50' 100'

SCALE: 1"=100' HORIZONTAL
1"= 20' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/18/10	JDK	IMPLEMENTATION FILING	128575	JJJ
A	7/10/09	JDK	ISSUE FOR FERC FILING	128575	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING BEAR RIVER (MP 113.7)
BY HORIZONTAL DIRECTIONAL DRILL
(MAJOR WATERBODY)

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: UTAH		Co./Par.: BOX ELDER	
Section: 29	Township: 10N	Range: 2W	
Drafter: JDK	Date: 02/04/09	Project ID: 128575	Type: C3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-0048A	
300A-48A		Sheet: 1 of 1	Rev: 0

IMPLEMENTATION PLAN 05/24/2010

Jun 14, 2010 - 5:00PM

PIPELINE STATIONING

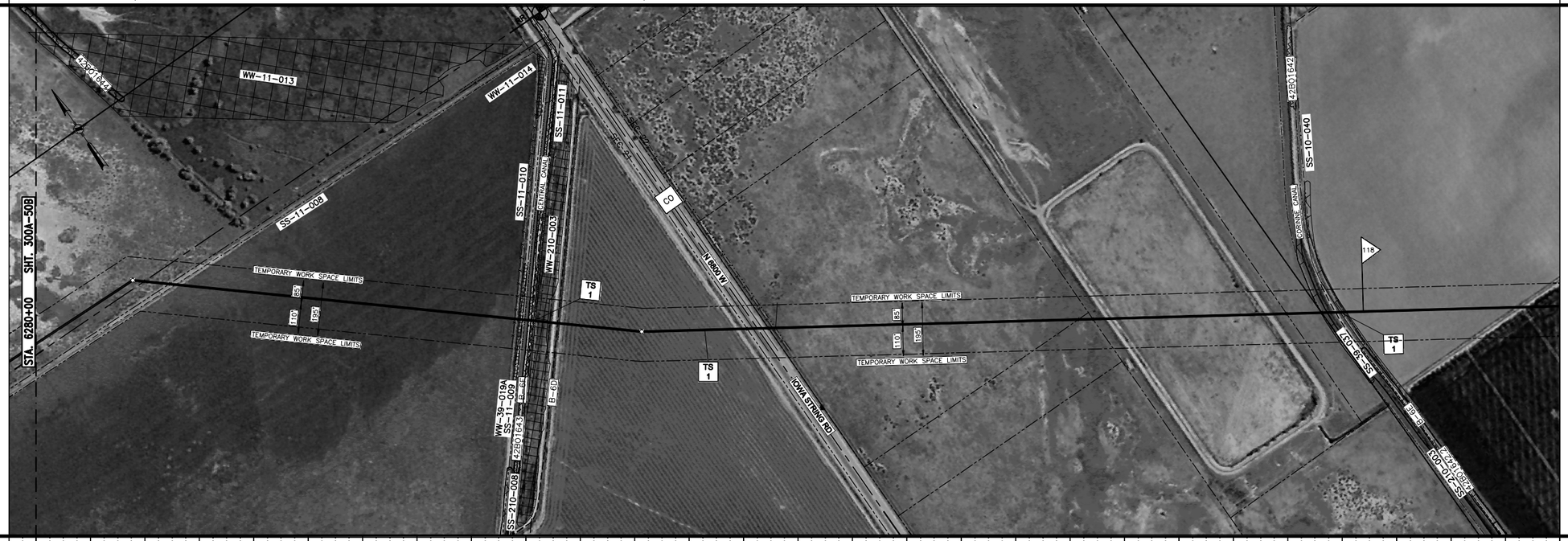
6280+00 MATCHLINE
6275+23 P.I. ∠ 39°02'30" LT & BOR REALIGNMENT
6274+51 SECTION LINE
6274+38 PROPERTY LINE
6274+14 DRAINAGE
6261+62 FENCE
6261+46 END WETLANDS
6261+44 DRAINAGE
6261+34 BOR WETLANDS
6261+27 PROPERTY LINE
6261+25 EDGE CENTRAL CANAL
6261+18 CENTRAL CANAL, NO DWG
6261+18 EDGE CENTRAL CANAL
6261+05 ACCESS RD B-6F
6260+77 TEST LEAD TYPE 1
6260+53 END WETLANDS
6260+32 PROPERTY LINE
6260+12 PROPERTY LINE
6260+18 BOR WETLANDS
6260+04 ACCESS RD B-6D
6256+83 P.I. ∠ 72°03'37" RT
6254+61 TEST LEAD TYPE 1
6253+06 PROPERTY LINE
6252+88 IOWA STRING ROAD, NO DWG
6252+67 SECTION LINE
6252+47 PROPERTY LINE
6252+12 FENCE
6252+12 IRRIGATION DITCH/CANAL
6252+10 PROPERTY LINE
6252+00 TEST LEAD TYPE 1
6240+87 PROPERTY LINE
6240+34 PROPERTY LINE
6233+22 PROPERTY LINE
6233+08 TEST LEAD TYPE 1
6232+95 PROPERTY LINE
6231+71 CORINNE CANAL, NO DWG
6231+42 CORINNE CANAL
6231+40 ACCESS RD B-8E
6231+05 IRRIGATION DITCH/CANALDRAINAGE
6230+40 MILEPOST 118

PIPELINE STATIONING

REFERENCE DRAWINGS

300A-50 ALIGNMENT SHEET

ALIGNMENT



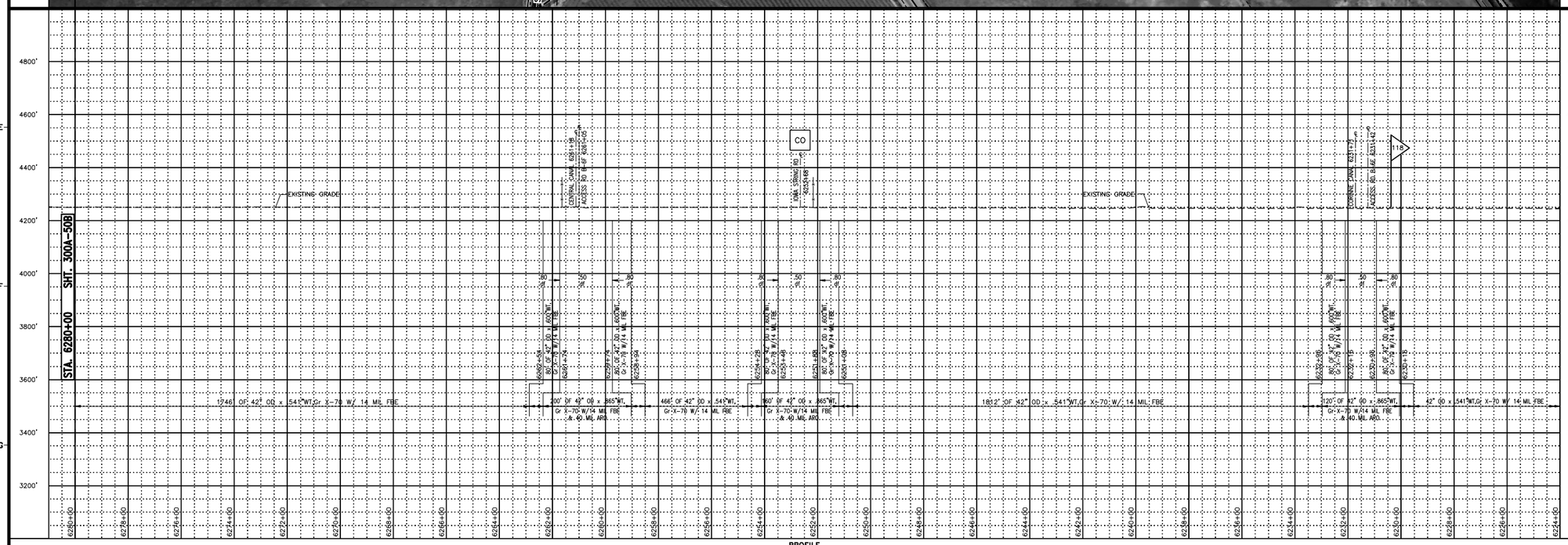
ALIGNMENT

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. CONSTRUCTION IN WETLANDS AND WATERBODIES SHALL BE IN ACCORDANCE WITH THE FERC WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES EXCEPT AND AS INDICATED AND NOTED BELOW.
3. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. WHERE EROSION CONTROL DEVICES ARE REQUIRED ACROSS THE CONSTRUCTION R.O.W., DRIVABLE BERMS MAY BE UTILIZED.
4. A MINIMUM OF FOUR (4) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED IN AGRICULTURAL LAND. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL GROUND ELEVATION.
5. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.

SITE SPECIFIC NOTES

1. 195 FEET MAXIMUM WORK SPACE IS REQUIRED DUE TO HIGH WATER TABLE, SATURATED UNSTABLE SUBSURFACE SOIL CONDITIONS AND CROSSING EXISTING DRAINAGE TILES.
2. RUBY PIPELINE WILL MAKE EFFORTS TO MINIMIZE WORK SPACE IN WETLANDS IF CONDITIONS AT TIME OF CONSTRUCTION ALLOW.
3. DUE TO SITE CONDITIONS AND LIMITED/NONEXISTANCE OF UPLAND AREAS, THE PIPE WILL BE ASSEMBLED WITHIN THE WETLAND BOUNDARIES.
4. IT MAY BE NECESSARY TO PARK EQUIPMENT OVERNIGHT AND TO RE-FUEL WITHIN THE WETLAND BOUNDARY. APPROPRIATE STEPS (INCLUDING SECONDARY CONTAINMENT STRUCTURES) TO PREVENT SPILLS AND PROVIDE FOR PROMPT CLEANUP OF A SPILL WILL BE IMPLEMENTED.



DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.60 & .80
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"=200' HORIZONTAL
1"=200' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
A	3/18/10	JDK	IMPLEMENTATION FILING	128575	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING WETLANDS AREA NEAR
SULPHUR CREEK
STATION 6230+40 TO 6280+00

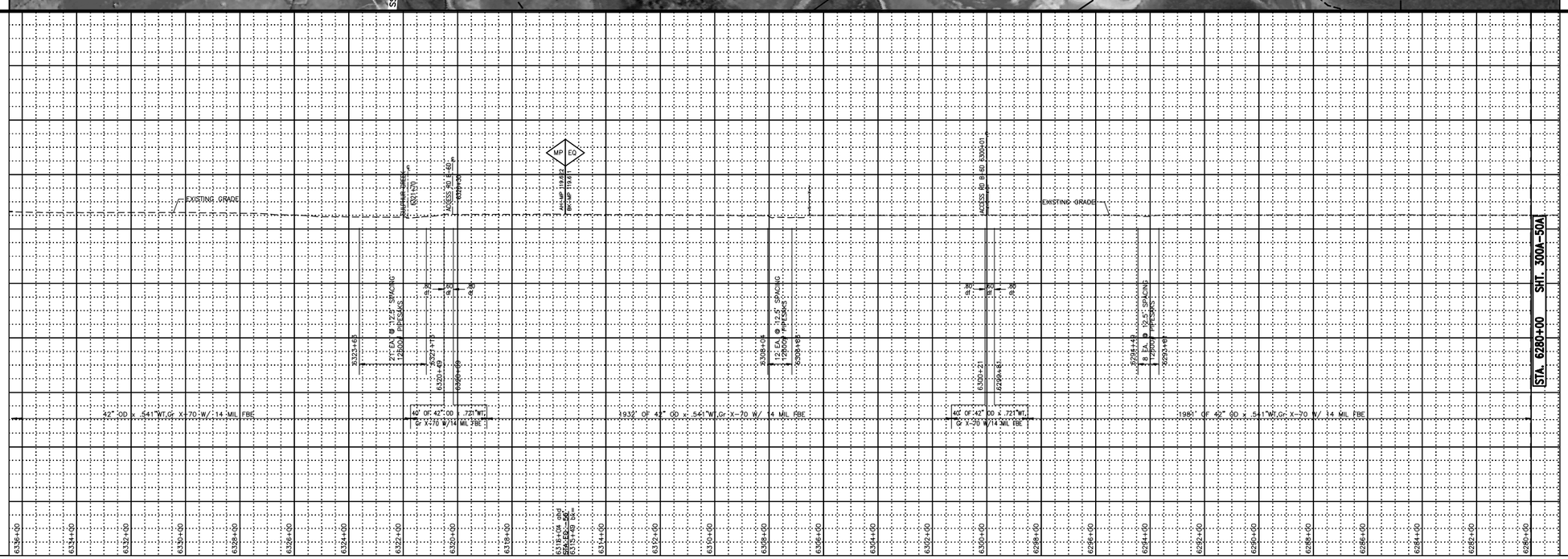
Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: UTAH		Co./Par.: BOX ELDER	
Section: 22,21,16	Township: 10N	Range: 3W	
Drafter: JDK	Date: 03/18/10	Project ID: 128575	Type: C3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-0050A	
300A-50A		Sheet: 1 of 1	Rev. 0

IMPLEMENTATION PLAN 05/24/2010

Jun 14, 2010 - 8:19PM

PIPELINE STATIONING

6336+20 P.I. < 10°02'24" LT.
6336+00 MILEPOST 130R
6335+40 P.I. < 10°02'27" LT.
6334+60 P.I. < 10°02'00" LT.
6333+80 P.I. < 10°02'37" LT.
6328+81 P.I. < 16°36'46" RT.
6328+01 P.I. < 16°36'35" RT.
6327+21 P.I. < 16°36'36" RT.
6326+85 TOP SLOPE
6325+40 END WETLANDS
6325+25 TOE SLOPE
6322+13 SECTION LINE
6321+90 BGN WETLANDS
6321+80 TOP BANK
6321+35 TOE BANK
6321+70 SULPHUR CREEK, NO DWG
6321+42 END WETLANDS
6321+31 TOE BANK
6321+29 TOP BANK
6321+27 BGN WETLANDS
6320+70 TOE SLOPE
6320+50 TOP SLOPE
6320+30 ACCESS RD B-40
6319+61 P.I. < 81°35'13" RT
6318+94 P.I. < 70°30'17" LT
STATION EQUATION =56
6315+49 Bac END REALIGNMENT
6314+27 P.I. < 12°10'33" LT.
6313+44 P.I. < 19°13'17" LT.
6312+26 P.I. < 11°50'24" LT.
6311+06 P.I. < 17°49'38" LT.
6308+52 P.I. < 21°13'57" RT.
6308+00 TOP BANK
6307+88 TOE BANK
6307+80 BGN WETLANDS
6306+80 END WETLANDS
6306+73 BGN WETLANDS
6306+69 TOE BANK
6306+64 TOP BANK
6306+59 FENCE
6305+30 P.I. < 46°30'30" LT.
6300+00 ACCESS RD B-40
6299+90 FENCE
6294+35 END WETLANDS
6293+90 BGN WETLANDS
6284+50 P.I. < 31°09'24" RT.
6284+46 PROPERTY LINE
6283+20 MILEPOST 119R
6280+00 MATCHLINE



REFERENCE DRAWINGS

300A-50 ALIGNMENT SHEET

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. CONSTRUCTION IN WETLANDS AND WATERBODIES SHALL BE IN ACCORDANCE WITH THE FERC WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES EXCEPT AND AS INDICATED AND NOTED BELOW.
3. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. WHERE EROSION CONTROL DEVICES ARE REQUIRED ACROSS THE CONSTRUCTION R.O.W., DRIVABLE BERMS MAY BE UTILIZED.
4. A MINIMUM OF FOUR (4) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED IN AGRICULTURAL LAND. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL GROUND ELEVATION.
5. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.

SITE SPECIFIC NOTES

1. 195 FEET MAXIMUM WORK SPACE IS REQUIRED DUE TO HIGH WATER TABLE, SATURATED UNSTABLE SUBSURFACE SOIL CONDITIONS AND CROSSING EXISTING DRAINAGE TILES.
2. RUBY PIPELINE WILL MAKE EFFORTS TO MINIMIZE WORK SPACE IN WETLANDS IF CONDITIONS AT TIME OF CONSTRUCTION ALLOW.
3. DUE TO SITE CONDITIONS AND LIMITED/NONEXISTANCE OF UPLAND AREAS, THE PIPE WILL BE ASSEMBLED WITHIN THE WETLAND BOUNDARIES.
4. IT MAY BE NECESSARY TO PARK EQUIPMENT OVERNIGHT AND TO RE-FUEL WITHIN THE WETLAND BOUNDARY. APPROPRIATE STEPS (INCLUDING SECONDARY CONTAINMENT STRUCTURES) TO PREVENT SPILLS AND PROVIDE FOR PROMPT CLEANUP OF A SPILL WILL BE IMPLEMENTED.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.50,.60 & .80
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"=200' HORIZONTAL
1"=200' VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
A	3/18/10	JDK	IMPLEMENTATION FILING	128575	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING WETLANDS AREA NEAR
SULPHUR CREEK
STATION 6280+00 TO 6336+00

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: UTAH		Co./Par.: BOX ELDER	
Section: 16,17	Township: 10N	Range: 2W	
Drafter: JDK	Date: 03/18/10	Project ID: 128575	Type: C3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-0050B	

300A-50B

Sheet: 1 of 1 Rev. 0

IMPLEMENTATION PLAN 05/24/2010

Jan 14, 2010 - 8:41PM

PIPELINE STATIONING

6607+92 MATCHLINE
6607+76 END WETLANDS
6607+44 BORWET
6607+42 BGN WETLANDS
6605+27 END WETLANDS
6604+53 BGN WETLANDS
6603+83 END WETLANDS
6600+68 BGN WETLANDS
6600+00 MILEPOST 125
6596+95 TYPE 1 TEST LEAD
6596+90 END WETLANDS
6596+70 SALT CREEK MARSH
6596+17 BGN WETLANDS
6595+28 FENCE
6594+59 END WETLANDS
6592+93 BGN WETLANDS
6592+41 END WETLANDS
6591+37 BGN WETLANDS
6590+82 SALT CREEK MARSH
6589+74 P.I. < 21°52' LT
6589+38 END WETLANDS
6589+14 BGN WETLANDS
6579+53 SECTION LINE
6569+44 TYPE 3 TEST LEAD
6569+39 END WETLANDS
6569+25 BORWET
6569+05 BGN WETLANDS
6567+65 P.I. < 13°41'20" RT
6563+04 END WETLANDS
6562+29 P.I. < 20°03'13" LT
6558+38 ROAD
6554+44 BGN WETLANDS
6553+77 FENCE

PIPELINE STATIONING

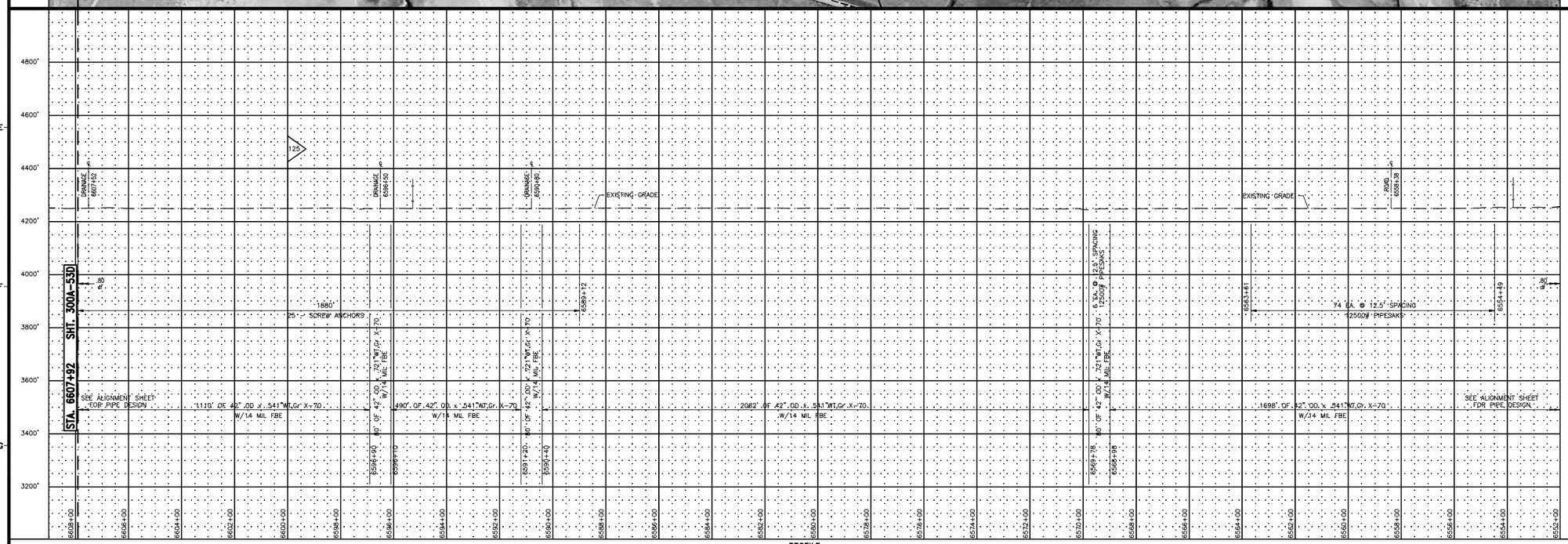
REFERENCE DRAWINGS

300A-52	ALIGNMENT SHEET
300A-53	ALIGNMENT SHEET

ALIGNMENT

ALIGNMENT

PROFILE



GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. CONSTRUCTION IN WETLANDS AND WATERBODIES SHALL BE IN ACCORDANCE WITH THE FERC WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES EXCEPT AND AS INDICATED AND NOTED BELOW.
3. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. WHERE EROSION CONTROL DEVICES ARE REQUIRED ACROSS THE CONSTRUCTION R.O.W., DRIVABLE BERMS MAY BE UTILIZED.
4. A MINIMUM OF FOUR (4) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED IN AGRICULTURAL LAND. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL GROUND ELEVATION.
5. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.

SITE SPECIFIC NOTES

1. 195 FEET MAXIMUM WORK SPACE IS REQUIRED DUE TO HIGH WATER TABLE, SATURATED UNSTABLE SUBSURFACE SOIL CONDITIONS AND CROSSING EXISTING DRAINAGE TILES.
2. RUBY PIPELINE WILL MAKE EFFORTS TO MINIMIZE WORK SPACE IN WETLANDS IF CONDITIONS AT TIME OF CONSTRUCTION ALLOW.
3. DUE TO SITE CONDITIONS AND LIMITED/NONEXISTANCE OF UPLAND AREAS, THE PIPE WILL BE ASSEMBLED WITHIN THE WETLAND BOUNDARIES.
4. IT MAY BE NECESSARY TO PARK EQUIPMENT OVERNIGHT AND TO RE-FUEL WITHIN THE WETLAND BOUNDARY. APPROPRIATE STEPS (INCLUDING SECONDARY CONTAINMENT STRUCTURES) TO PREVENT SPILLS AND PROVIDE FOR PROMPT CLEANUP OF A SPILL WILL BE IMPLEMENTED.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.80 & .60
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"=200' HORIZONTAL
1"=200' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/18/10	JDK	IMPLEMENTATION FILING	128575	JJJ
A	7/10/09	JDK	ISSUE FOR FERC FILING	128575	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING MARSH AREA NEAR
SALT CREEK WMA AREA
STA 6533+77 TO STA 6662+27

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: UTAH		Co./Par.: BOX ELDER	
Section: 3,4	Township: 10N	Range: 4W	
Drafter: JDK	Date: 02/04/09	Project ID: 128575	Type: C3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-0052A	

300A-52A

Sheet: 1 of 2 Rev. 0

Jan 14, 2010 - 5:52PM

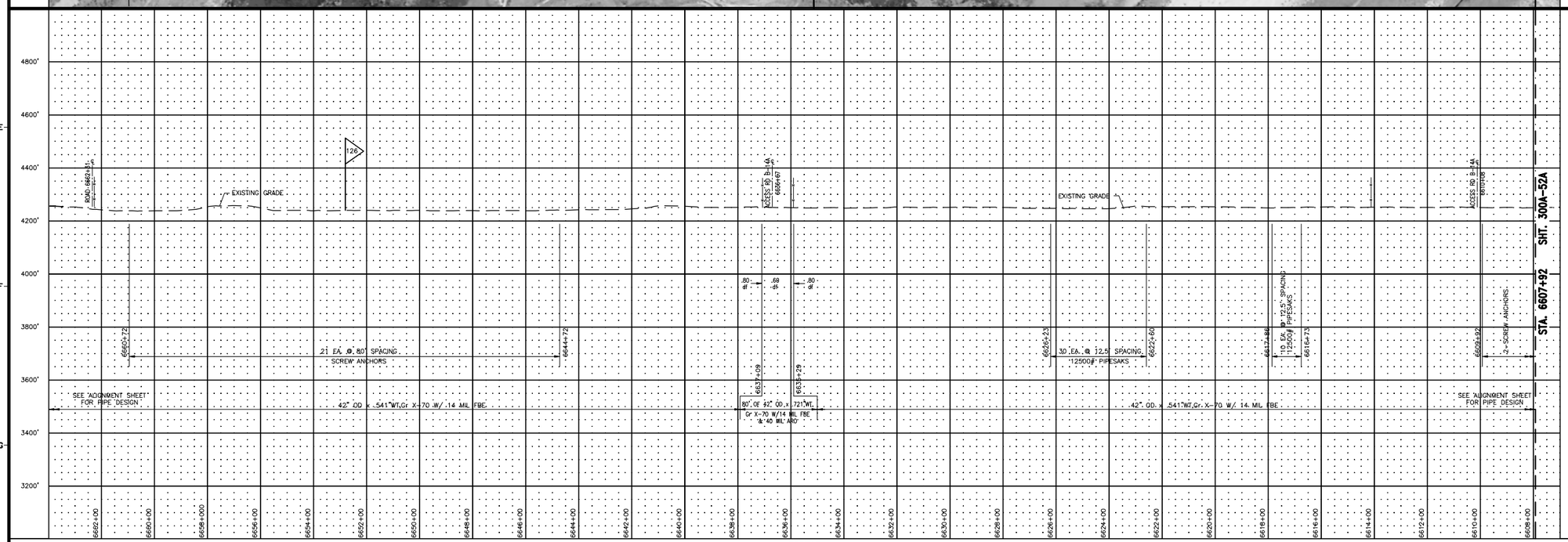
IMPLEMENTATION PLAN 05/24/2010

PIPELINE STATIONING

6663+80 P.I. < 28°07'08" LT
6660+00 END R/W FOLLOWING TMP WKE(OS)/BGN 195'W TEMPORARY WORK SPACE
6663+65 PROPERTY LINE
6662+22 P.I. < 24°07'30" RT
6660+94 END WETLANDS
6659+65 BGN WETLANDS
6654+90 END WETLANDS
6654+70 END 110'W LT/BGN REDUCED LT TEMP WORK SPACE (R/W FOLLOWS TOWNSHIP LINE)
6652+79 MILEPOST 126
6644+51 BGN WETLANDS
6637+06 FENCE
6636+49 ACCESS RD. B-14A(N11600W)
6636+61 SECTION LINE
6636+28 PROPERTY LINE
6635+89 FENCE
6626+78 END WETLANDS
6622+40 BGN WETLANDS
6622+37 P.I. < 14°24'10" LT & BGN REALIGNMENT
6621+60 P.I. < 15°51'19" LT
6617+86 END WETLANDS
6616+77 BGN WETLANDS
6616+21 P.I. < 7°30'50" RT
6614+27 TOWNSHIP LINE
6614+12 FENCE
6610+40 P.I. < 21°14'6" RT
6610+30 BGN WETLANDS
6609+88 TYPE 1 TEST LEAD
6609+37 END WETLANDS
6608+52 BGN WETLANDS
6607+92 MATCHLINE

ALIGNMENT

PROFILE



REFERENCE DRAWINGS

300A-53 ALIGNMENT SHEET

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. CONSTRUCTION IN WETLANDS AND WATERBODIES SHALL BE IN ACCORDANCE WITH THE FERC WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES EXCEPT AND AS INDICATED AND NOTED BELOW.
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SITE SPECIFIC NOTES

1. 195 FEET MAXIMUM WORK SPACE IS REQUIRED DUE TO HIGH WATER TABLE, SATURATED UNSTABLE SUBSURFACE SOIL CONDITIONS AND CROSSING EXISTING DRAINAGE TILES.
2. RUBY PIPELINE WILL MAKE EFFORTS TO MINIMIZE WORK SPACE IN WETLANDS IF CONDITIONS AT TIME OF CONSTRUCTION ALLOW.
3. DUE TO SITE CONDITIONS AND LIMITED/NONEXISTANCE OF UPLAND AREAS, THE PIPE WILL BE ASSEMBLED WITHIN THE WETLAND BOUNDARIES.
4. IT MAY BE NECESSARY TO PARK EQUIPMENT OVERNIGHT AND TO RE-FUEL WITHIN THE WETLAND BOUNDARY. APPROPRIATE STEPS (INCLUDING SECONDARY CONTAINMENT STRUCTURES) TO PREVENT SPILLS AND PROVIDE FOR PROMPT CLEANUP OF A SPILL WILL BE IMPLEMENTED.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df= .80 &
PRESSURE: 1440 PSIG MAOP .60

SCALE, PROJECTION & SURVEY DATA

200' 100' 0 200' 400'

SCALE: 1"=200' HORIZONTAL
1"=200' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 12, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/18/10	JDK	IMPLEMENTATION FILING	128575	JJJ
A	7/10/09	JDK	ISSUE FOR FERC FILING	128575	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING MARSH AREA NEAR
SALT CREEK WMA AREA
STA 6533+77 TO STA 6662+27

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: UTAH		Co./Par.: BOX ELDER	
Section: 3,4	Township: 10N	Range: 4W	
Drafter: JDK	Date: 02/04/09	Project ID: 128575	Type: C3D
Chk'd:	Date:	Scale: AS SHOWN	Filename: 0300-A-0053D
Appr:	Date:		

300A-53D

Sheet: 2 of 2 Rev: 0

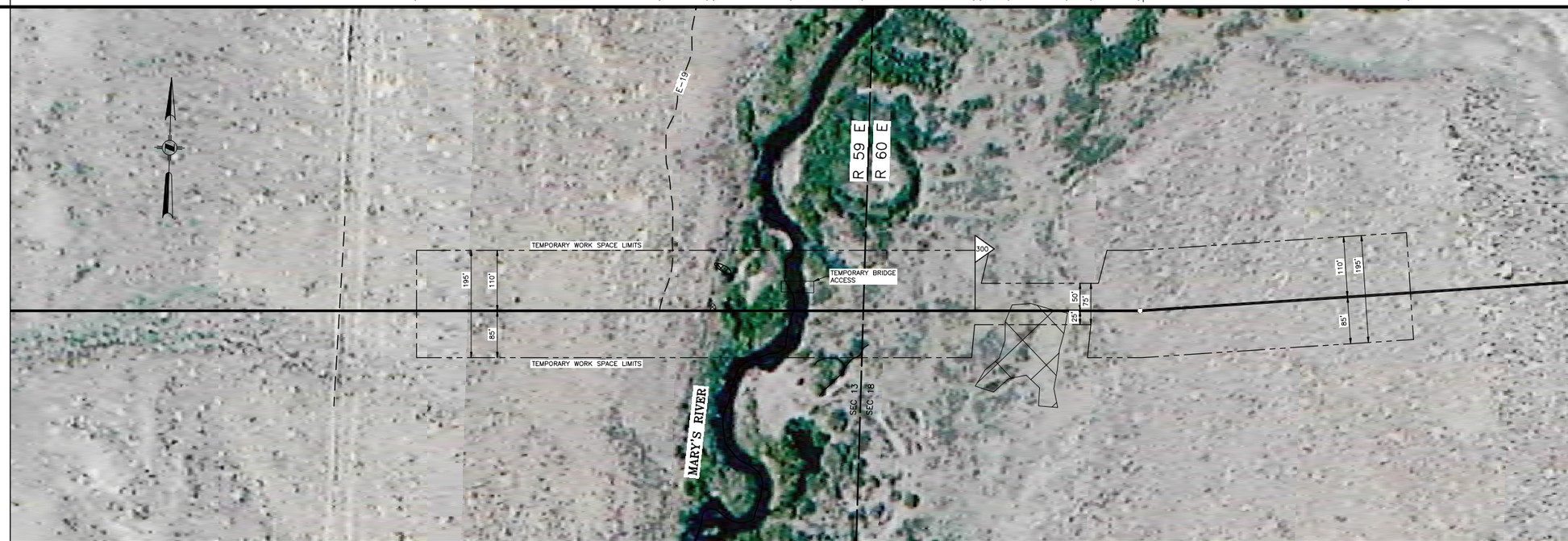
IMPLEMENTATION PLAN 05/24/2010

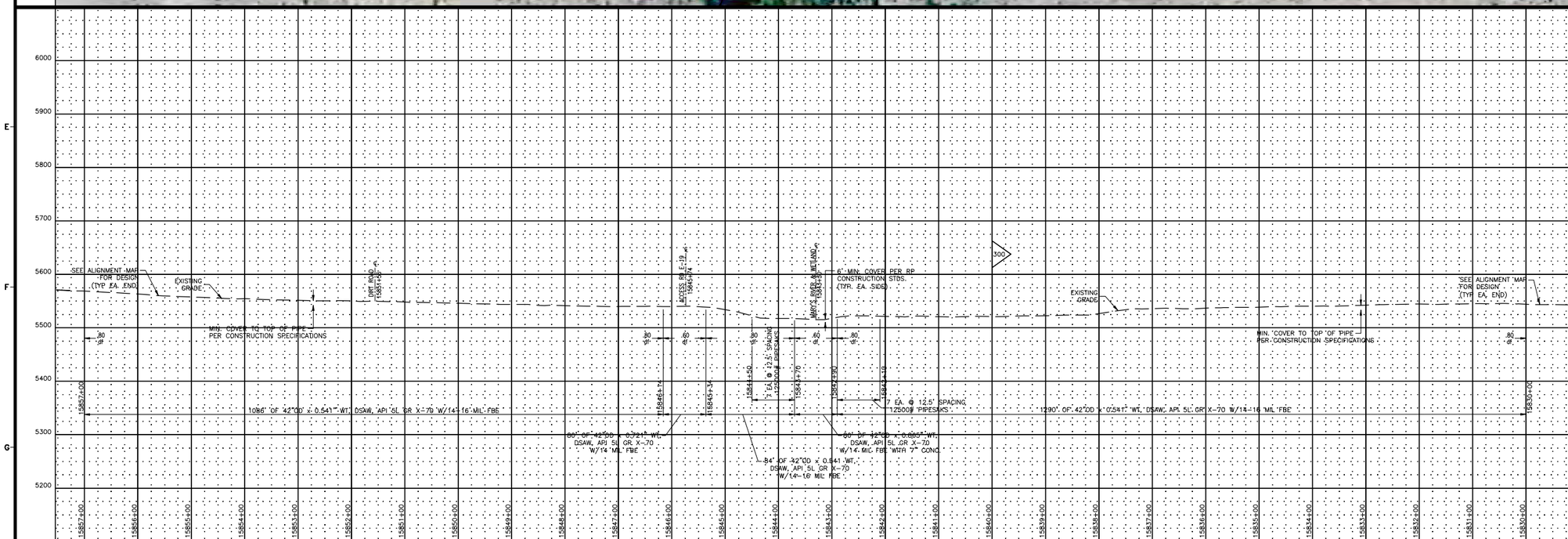
Jun 14, 2010 - 5:51PM

PIPELINE STATIONING

15850+16 END 195'W TEMP WORK SPACE
15845+74 ACCESS ROAD E-19
15844+80 END WETLAND
15844+72 BGN WETLAND
15843+30 MARY'S RIVER
15842+03 RANGE LINE
15840+00 MILEPOST 300
15839+97 END 75'W/BGN 195'W TEMP WORK SPACE
15839+37 END WETLAND
15838+49 BGN WETLAND
15837+85 END 195'W/BGN 75'W TEMP WORK SPACE
15837+00 P.I. ∠ 3°45'49" RT.
15832+07 BGN 195'W TEMP WORK SPACE

ALIGNMENT





REFERENCE DRAWINGS

300A-124 ALIGNMENT SHEET

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
8. PRIOR TO ACTUAL INSTALLATION, THE PIPE SHALL BE WELDED ON THE BANK AND PULLED OR CARRIED FOR CROSSING.
9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE.
10. A MINIMUM OF SIX (6) FEET COVER TO TOP OF PIPE SHALL BE REQUIRED. COVER SHALL BE MEASURED FROM THE TOP OF THE PIPELINE TO THE ORIGINAL CREEK BED ELEVATION.
11. RIPARIAN CANOPY OR STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS, DURING PIPE INSTALLATION, SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.

SITE SPECIFIC NOTES

1. CONTRACTOR MAY SHIFT WORK SPACE AND SPOIL SIDE THROUGH THE CROSSING AS REQUIRED FOR DITCHING AND INSTALLATION OF PIPE.
2. CONTRACTOR MUST MAKE EVERY EFFORT TO SAVE ANY WOODY VEGETATION. BY WELDING PIPE IN THE TEMPORARY WORK SPACE AND DRAGGING OR CARRYING THE PIPE IN PLACE. THE WORK LIMITS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
3. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
4. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 36 HOUR DURATION.
5. NO DITCH SPOIL WILL BE PLACED IN THE CREEK.
6. A TEMPORARY BRIDGE WILL BE PLACED ON WORKING SIDE FOR EQUIPMENT CROSSING.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.60 &
PRESSURE: 1440 PSIG MAOP .80

SCALE, PROJECTION & SURVEY DATA

100' 50' 0 100' 200'

SCALE: 1"=100' HORIZONTAL
1"=100' VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 11, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/10/10	JDK	IMPLEMENTATION FILING	122659	LAC
A	7/17/09	ATB	ISSUE FOR FERC FILING	122659	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING MARY'S RIVER

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: NEVADA		Co./Par.: ELKO	
Section: 13	Township: 39N	Range: 59E/60E	
Drafter: DLM	Date: 02/25/09	Project ID: 122659	Type: CIVIL3D
Chk'd:	Date:	Scale: AS SHOWN	Filename: 0300-A-124A
Appr:	Date:		

300A-124A

Sheet: 1 of 1 Rev. 0

IMPLEMENTATION PLAN 05/24/2010

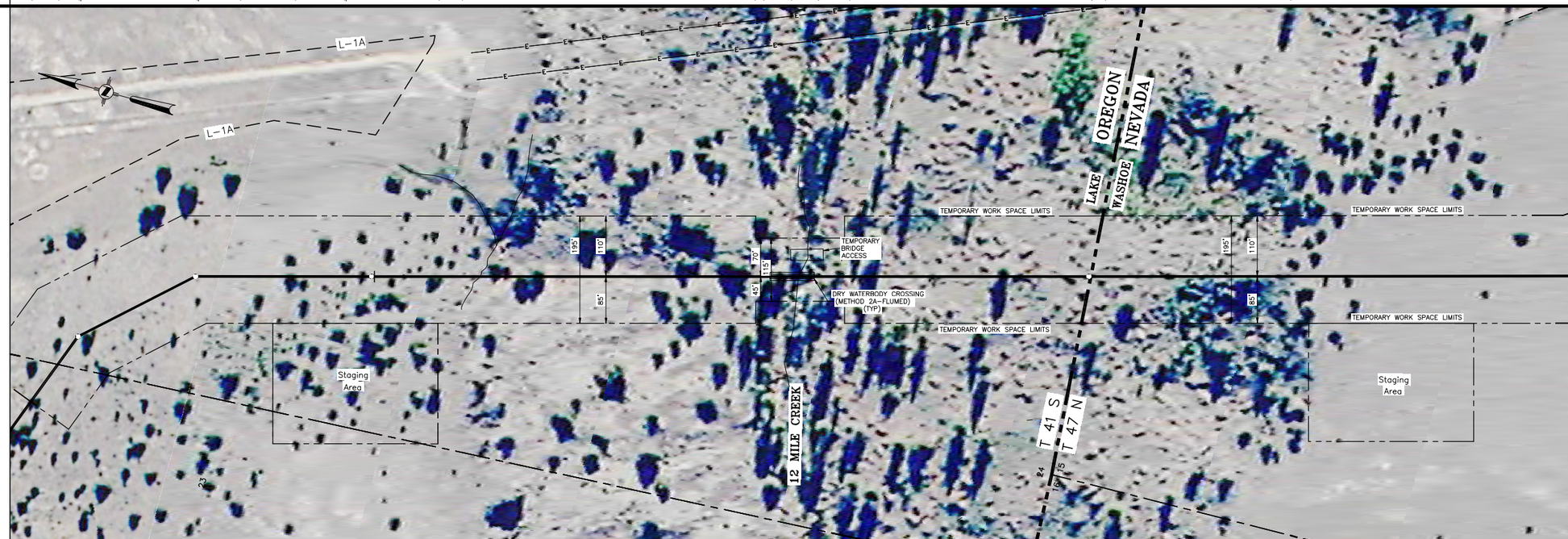
Jun 15, 2010 - 11:39AM

PIPELINE STATIONING

31081+13 END 195'W TEMP WORK SPACE
31080+29 SECTION LINE
31079+66 P.I. = 27°10'41" LT
31077+26 P.I. = 26°59'43" LT
31076+00 HYDROSTATIC TEST MANIFOLD
31074+85 STAGING AREA
31074+06 P.I. = 27°02'40" RT
31072+85 STAGING AREA
31072+08 DRAINAGE
31067+07 BGN 195 TEMP WORK SPACE
31066+42 DRAINAGE
31066+41 12 MILE CREEK
31066+38 DRAINAGE
31065+46 END 195 TEMP WORK SPACE
31061+02 OREGON/NEVADA STATELINE &
31059+81 END 195 W/BGN 115' TEMP WORK SPACE
31057+36 TEST LEAD TYPE 4
31052+28 P.I. = 17°59'54" RT

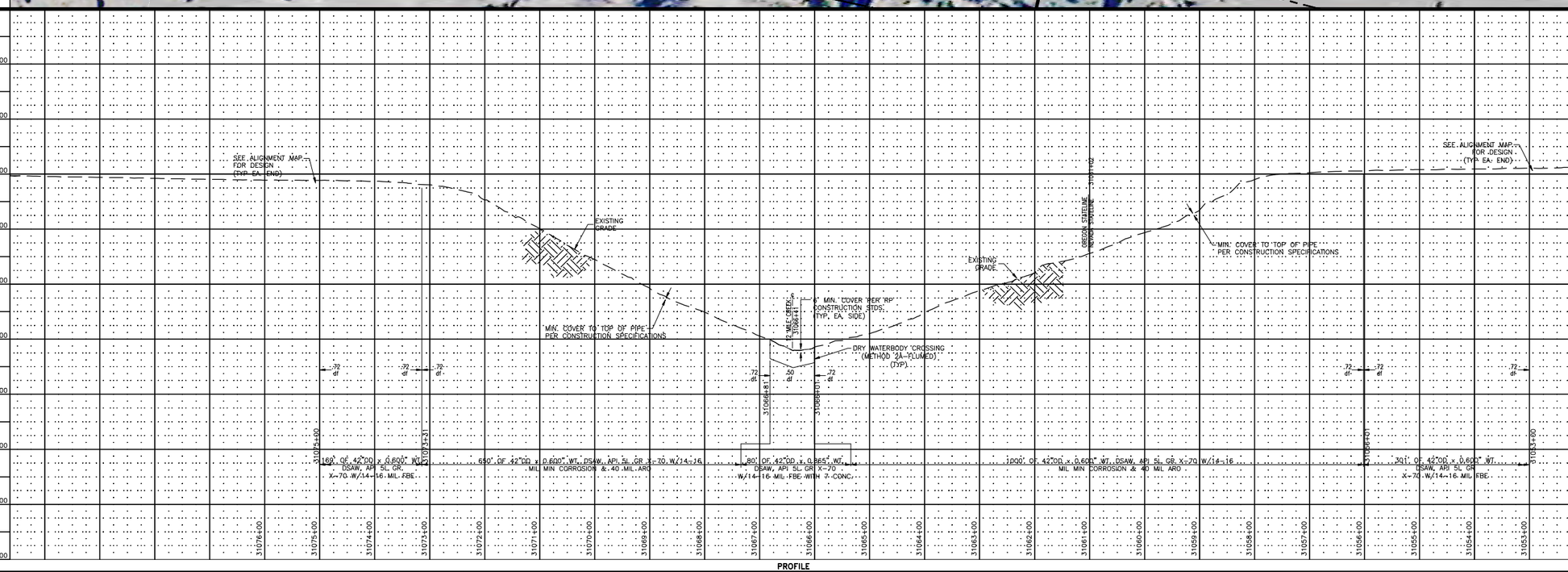
PIPELINE STATIONING

ALIGNMENT



ALIGNMENT

PROFILE



PROFILE

REFERENCE DRAWINGS

300A-242 ALIGNMENT SHEET

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
7. EXCEPT TO PROVIDE VEHICLE EQUIPMENT ACCESS, RIVER BANKS WILL BE GRADED JUST PRIOR TO CONSTRUCTION OF THE CROSSING. A 10 FT. VEGETATED BUFFER STRIP, EXCEPT FOR VEHICLE CROSSING, ON BOTH SIDES OF THE CROSSING SHALL BE MAINTAINED AND ONLY CUT PRIOR TO CONSTRUCTION OF THE CROSSING
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9. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TREES TO BE REMOVED. ORANGE BARRICADE FENCING TO BE INSTALLED AROUND MARKED TREES TO REMAIN IN PLACE.
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11. RIPARIAN CANOPY OR STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
12. MOST EQUIPMENT WILL ONLY REQUIRE A ONE-TIME CROSSING. MULTIPLE CROSSINGS, DURING PIPE INSTALLATION, SHALL BE KEPT TO A REASONABLE MINIMUM.
13. IMMEDIATELY AFTER THE BACKFILLING OF PIPE, SEDIMENTATION CONTROL DEVICES (HAY BALES, SILT FENCE, ETC.) SHALL BE PLACED ACROSS THE R/W TO CONTROL SEDIMENT FROM THE R/W.

SITE SPECIFIC NOTES

1. CONTRACTOR MAY SHIFT WORK SPACE AND SPOIL SIDE THROUGH THE CROSSING AS REQUIRED FOR DITCHING AND INSTALLATION OF PIPE.
2. CONTRACTOR MUST MAKE EVERY EFFORT TO SAVE ANY WOODY VEGETATION. BY WELDING PIPE IN THE TEMPORARY WORK SPACE AND DRAGGING OR CARRYING THE PIPE IN PLACE. THE WORK LIMITS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
3. AFTER PIPE INSTALLATION, DOZERS AND BACKHOES WILL BE ALLOWED IN THE RIVER TO BACKFILL THE DITCHES AS QUICKLY AS POSSIBLE.
4. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 18 HOUR DURATION.
5. NO DITCH SPOIL WILL BE PLACED IN THE CREEK.
6. A TEMPORARY BRIDGE WILL BE PLACED ON WORKING SIDE FOR EQUIPMENT CROSSING.
7. CONTRACTOR MAY SUBSTITUTE PIPESAKS FOR CONCRETE.
8. EQUIPMENT BRIDGE MAY BE INSTALLED AT ANY LOCATION WITHIN THE APPROVED WORKSPACE DEPENDING ON CONTRACTOR REQUIREMENTS.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df= .50 & .72
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

100' 50' 0 100' 200'

SCALE: 1"= 100'HORIZONTAL
1"= 10'VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 10, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/10/10	JDK	IMPLEMENTATION FILING	128576	LAC
A	7/17/09	ATB	ISSUE FOR FERC FILING	128576	LAC

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 3001A-42 INCH
CROSSING 12 MILE CREEK

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: OREGON/NEVADA		Co./Par.: LAKE/WASHOE	
Section: 24,15	Township: 41S,47N	Range: 23E,18E	
Drafter: DLM	Date: 02/16/09	Project ID: 128576	Type: CIVIL3D
Chk'd:	Date:	Scale: AS SHOWN	Filename: 0300-A-242A
Appr:	Date:		

300A-242A

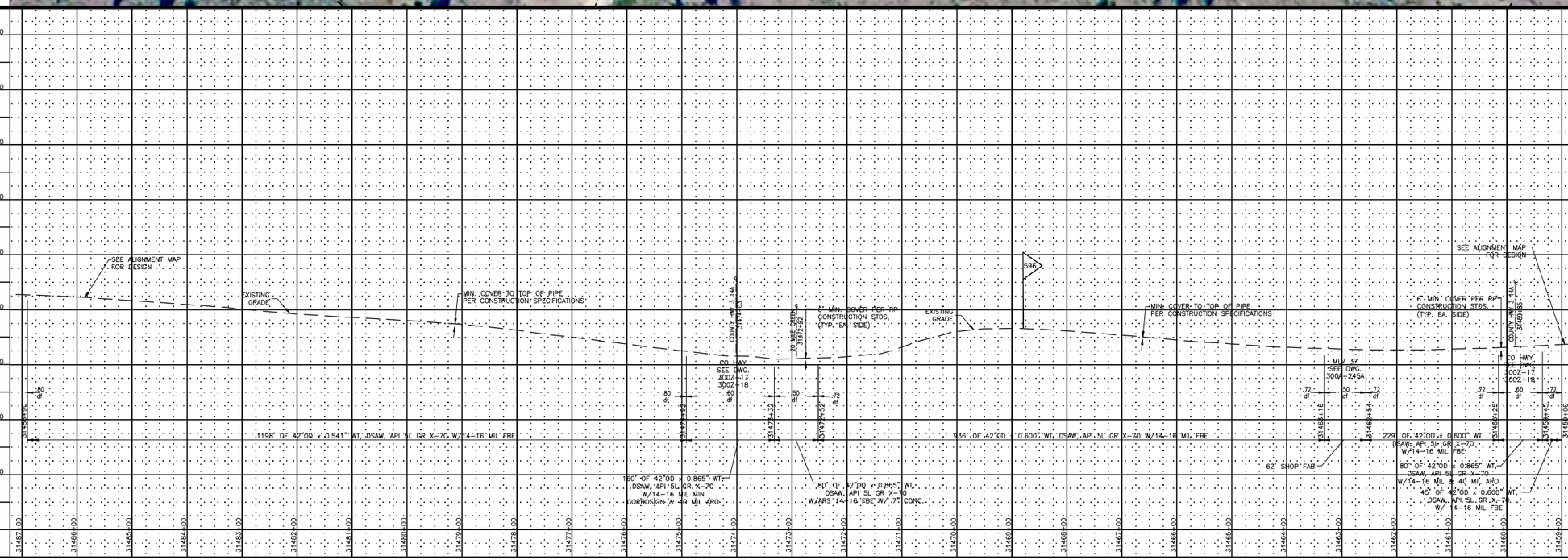
Sheet: 1 of 1 Rev. B

IMPLEMENTATION PLAN 05/24/2010

Jun 15, 2010 - 1:21PM

PIPELINE STATIONING

31476+84 END 195'W TEMP WORK SPACE
31474+34 END 155'W/BGN 195'W TEMP WORK SPACE
31474+03 COUNTY HWY 3-14A
31473+71 END 115'W/BGN 155'W TEMP WORK SPACE
31473+36 END WETLAND & BGN 115'W/END 155'W TEMP WORK SPACE
31472+92 20 MILE CREEK
31472+87 BGN WETLAND & BGN 75'W/END 115'W TEMP WORK SPACE
31472+37 BGN 115'W/END 195'W TEMP WORK SPACE
31469+28 BGN 195'W TEMP WORK SPACE
31468+80 MILEPOST 596
31464+80 PROPERTY LINE
31463+11 END 195'W TEMP WORK SPACE
31462+85 MLV 37



REFERENCE DRAWINGS

300A-245	ALIGNMENT SHEET
300Z-17	CO HWY 344A
300Z-18	CO HWY 344A

GENERAL NOTES

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
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SITE SPECIFIC NOTES

1. CONTRACTOR MAY SHIFT WORK SPACE AND SPOIL SIDE THROUGH THE CROSSING AS REQUIRED FOR DITCHING AND INSTALLATION OF PIPE.
2. CONTRACTOR MUST MAKE EVERY EFFORT TO SAVE ANY WOODY VEGETATION. BY WELDING PIPE IN THE TEMPORARY WORK SPACE AND DRAGGING OR CARRYING THE PIPE IN PLACE. THE WORK LIMITS SHALL BE MINIMIZED TO THE EXTENT POSSIBLE.
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4. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 18 HOUR DURATION.
5. NO DITCH SPOIL WILL BE PLACED IN THE CREEK.
6. A TEMPORARY BRIDGE WILL BE PLACED ON WORKING SIDE FOR EQUIPMENT CROSSING IF WATER IS PRESENT.
7. CONTRACTOR MAY SUBSTITUTE PIPESAKS FOR CONCRETE.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df= .50, .80 & .72
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

100' 50' 0 100' 200'

SCALE: 1"= 100'HORIZONTAL
1"= 100'VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 10, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/10/10	JDK	IMPLEMENTATION FILING	128576	LAC
A	7/17/09	ATB	ISSUE FOR FERC FILING	128576	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING 20 MILE CREEK

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: OREGON		Co./Par.: LAKE	
Section: 25	Township: 40S	Range: 22E	
Drafter: DLM	Date: 02/10/09	Project ID: 128576	Type: CIVIL3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-245A	

300A-245A

Sheet: 1 of 1 Rev. B

IMPLEMENTATION PLAN 05/24/2010

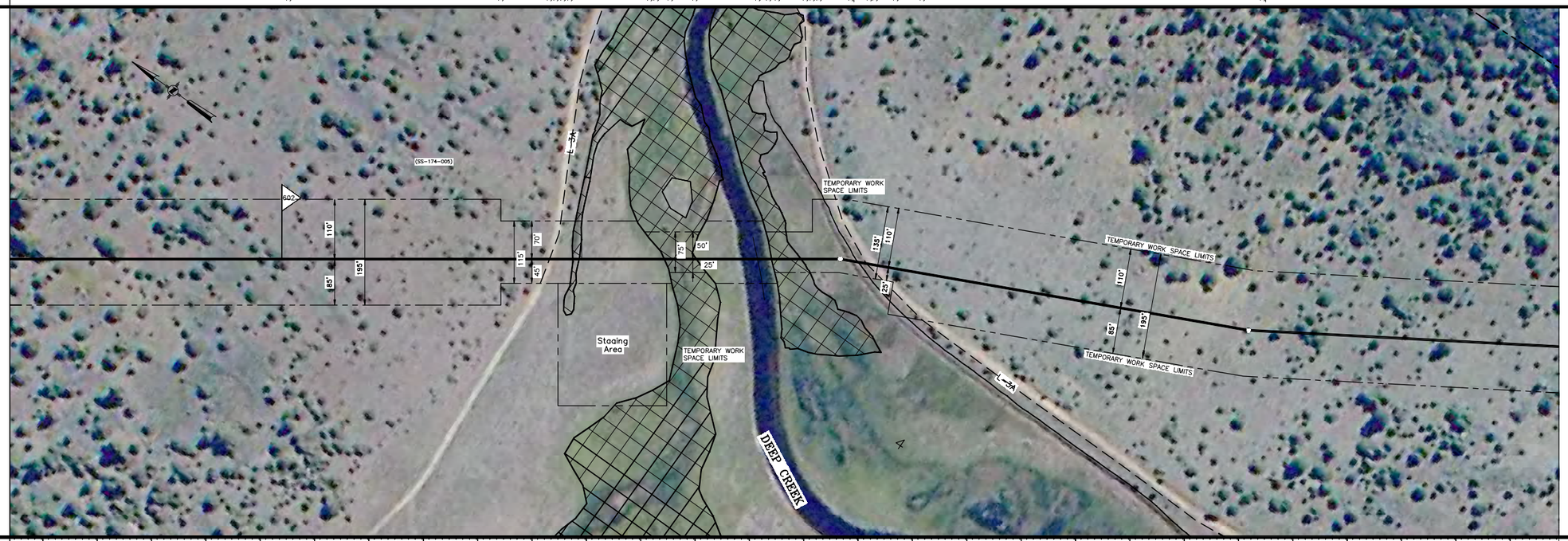
Jun 15, 2010 - 1:32PM

PIPELINE STATIONING

31785+60 WILDFOST 602
31781+58 END 115'W/BGN 195'W TEMP WORK SPACE
31780+87 ACCESS RD L-3A
31780+52 STAGING AREA
31780+25 DRAINAGE & END WETLAND
31780+13 BGN WETLAND & DRAINAGE
31779+93 TEST LEAD TYPE 1
31778+87 DRAINAGE & END WETLAND
31778+57 END 75'W/BGN 115'W TEMP WORK SPACE
31778+52 STAGING AREAS
31777+97 BGN WETLAND & DRAINAGE &
END 115'W/BGN 75'W TEMP WORK SPACE
31776+85 DEEP CREEK
31776+66 51' TIE TO WATER SOURCE
31776+59 DRAINAGE & END WETLAND &
END 75'W/BGN 115'W TEMP WORK SPACE
31776+05 BGN WETLAND & DRAINAGE
31775+84 END 115'W/BGN 75' TEMP WORK SPACE
31776+04 TEST LEAD TYPE 1
31775+33 P.I. = 6°53'55" LT
31775+00 DRAINAGE
31774+50 ACCESS RD L-3A
31774+29 END 195'W/BGN 115'W TEMP WORK SPACE
31774+12 HYDROSTATIC TEST MANIFOLD
31762+70 P.I. = 6°53'29" RT

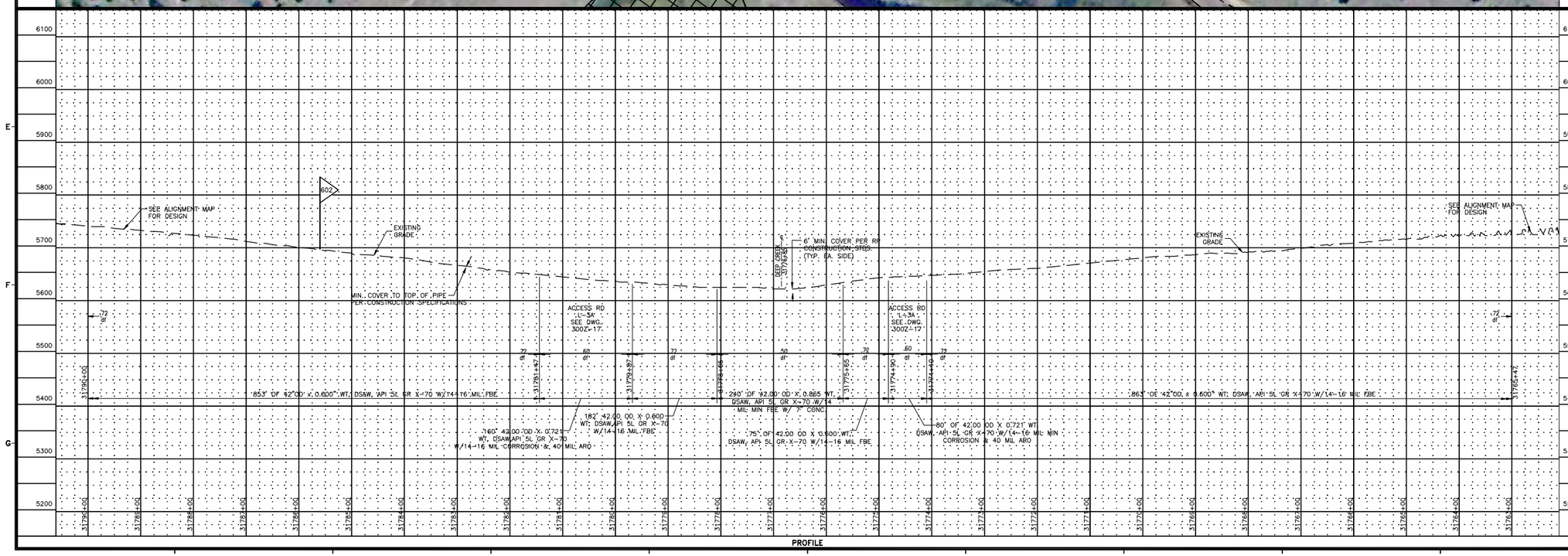
PIPELINE STATIONING

ALIGNMENT



ALIGNMENT

PROFILE



REFERENCE DRAWINGS

300A-247	ALIGNMENT SHEET
3002-17	ACCESS ROAD

1. THIS PIPELINE INSTALLED UNDER CODE: TITLE 49, PART 192 CFR, CLASS 1.
2. THERE WILL BE LIMITED ACCESS, NO PARKING, NO REFUELING, NO VEHICLE MAINTENANCE, NO STORAGE WITHIN 100 FT. OF EACH HIGH BANK
3. CONSTRUCTION OF THE PIPELINE AT THE RIVER SHALL BE PERFORMED IN SUCH MANNER AS TO KEEP TO A MINIMUM DAMAGE TO SHORELINE, WATER CROSSED, AND FISH AND WILDLIFE HABITATS.
4. EROSION CONTROL DEVICES WILL BE INSTALLED AND INSPECTED AND MAINTAINED BY THE CONTRACTOR. SILT FENCE OR HAY BALES SHALL BE MAINTAINED ACROSS THE PIPELINE R/W AT BOTH SIDES OF THE RIVER CROSSING.
5. FOLLOWING CONSTRUCTION, THE RIVER BOTTOM SHALL BE RETURNED TO IT'S ORIGINAL CONTOUR AND GRADIENT.
6. TOPSOIL AND APPROACH SPOIL SHALL BE KEPT SEPARATE. AFTER INSTALLATION OF THE PIPE, THE SPOIL SHALL BE REPLACED TO IT'S ORIGINAL LOCATION.
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11. RIPARIAN CANOPY OR STABILIZING VEGETATION REMOVAL SHALL BE KEPT TO A MINIMUM. CRUSHING OR SHEARING STREAMSIDE WOODY VEGETATION IS PREFERABLE TO COMPLETE REMOVAL.
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SITE SPECIFIC NOTES

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3. ACTUAL CROSSING MUST BE INSTALLED WITHIN A 36 HOUR DURATION.
4. NO DITCH SPOIL WILL BE PLACED IN THE CREEK.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df= .50,
PRESSURE: 1440 PSIG MAOP .60 & .72

SCALE, PROJECTION & SURVEY DATA

100' 50' 0 100' 200'

SCALE: 1"=100'HORIZONTAL
1"=100'VERTICAL

GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 10, NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
B	3/18/10	DLM	IMPLEMENTATION FILING	128576	LAC
A	7/17/09	ATB	ISSUE FOR FERC FILING	128576	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING DEEP CREEK

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: OREGON		Co./Par.: LAKE	
Section: 4	Township: 40S	Range: 22E	
Drafter: DLM	Date: 02/17/09	Project ID: 128576	Type: CIVIL3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-247A	

300A-247A

Sheet: 1 of 1 Rev. B

IMPLEMENTATION PLAN 05/24/2010

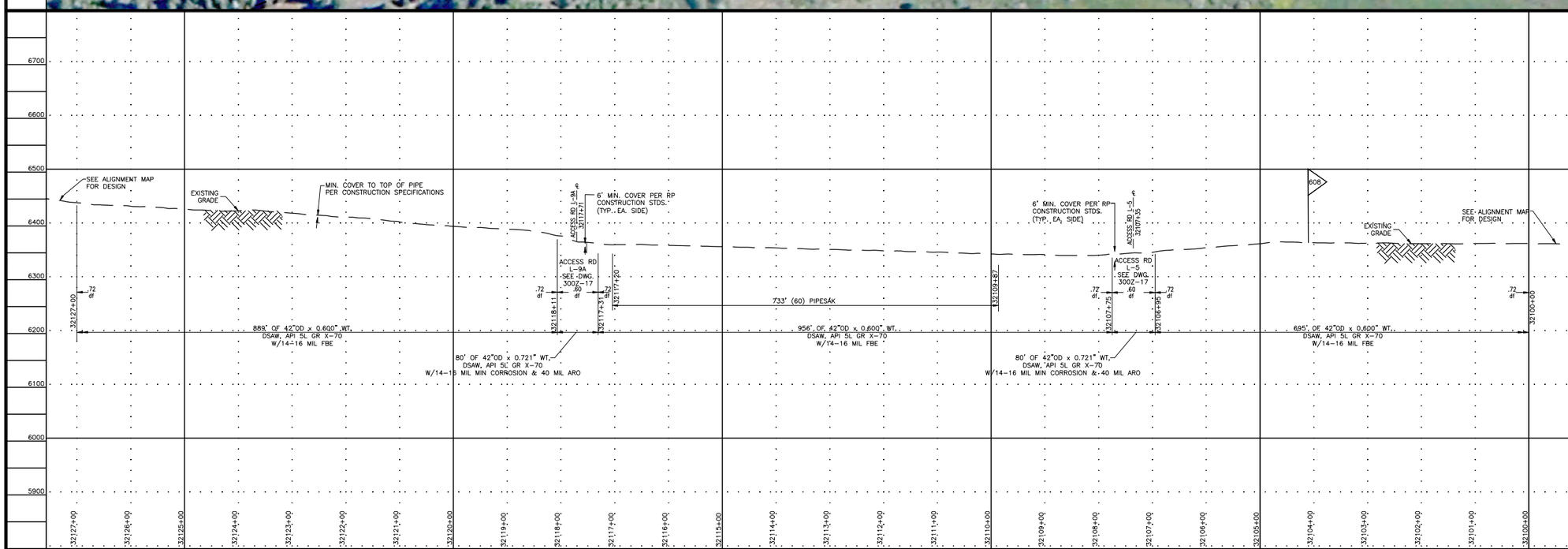
Jun 15, 2010 - 4:32PM

PIPELINE STATIONING

32123+65 P.I. < 83°37'51" RT.
32119+77 P.I. < 38°37'33" LT.
32118+00 TEST LEAD TYPE 1
32117+71 ACCESS RD L-9A
32117+70 BGN 195'W TEMP WORK SPACE
32117+20 DRAINAGE & END WETLAND
32116+65 P.I. < 33°14'22" RT.
32114+75 SECTION LINE
32109+86 DRAINAGE & BGN WETLAND
32109+58 P.I. < 3°54'02" RT.
32108+15 P.I. < 56°25'38" RT.
32107+86 END 195'W TEMP WORK SPACE
32107+35 ACCESS RD L-5
32104+75 P.I. < 54°29'49" LT.
32102+40 MILEPOST 608

ALIGNMENT

PROFILE



PIPELINE STATIONING

REFERENCE DRAWINGS

300A-250	ALIGNMENT SHEET
300Z-17	ACCESS ROAD

GENERAL NOTES

SITE SPECIFIC NOTES

1. CONTRACTOR MAY SHIFT WORK SPACE AND SPOIL SIDE THROUGH THE CROSSING AS REQUIRED FOR DITCHING AND INSTALLATION OF PIPE.
2. DEPENDING ON WATER TABLE AT TIME OF INSTALLATION, CONTRACTOR MAY CHOSE TO PERFORM A "PUSH" TYPE INSTALLATION
3. THE EXTRA WORK SPACE IS REQUIRED IN THE WETLAND TO ALLOW FOR STORAGE OF SLOOPY DITCH MATERIAL AND SEPARATION OF TOPSOIL.

DESIGN DATA

CODE: TITLE 49, PART 192 CFR, CLASS 1, df=.60 &.72
PRESSURE: 1440 PSIG MAOP

SCALE, PROJECTION & SURVEY DATA

100' 50' 0 100' 200'

SCALE: 1"= 100'HORIZONTAL
1"= 100'VERTICAL
GPS SURVEY (G.P.S. TRIMBLE 5800 SERIES)
UTM ZONE 10 , NAD83 (US FT), NAVD88, GEOID03

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
A			ISSUE FOR FERC FILING	128576	JJJ

REVISIONS

RUBY PIPELINE LLC

PLAN AND PROFILE
RUBY PIPELINE LN 300A-42 INCH
CROSSING WARNER LAKES

Division: ROCKY MOUNTAIN		Op. Area: ELKO	
State: OREGON		Co./Par.: LAKE	
Section: 21 & 28	Township: 39S	Range: 21E	
Drafter: DLM	Date: 02/10/09	Project ID: 128576	Type: CIVIL3D
Chk'd:	Date:	Scale: AS SHOWN	
Appr:	Date:	Filename: 0300-A-245A	
300A-250A		Sheet: 1 of 1	Rev. 0

IMPLEMENTATION PLAN 05/24/2010

RCH24 - RUBE
Jun 15, 2010