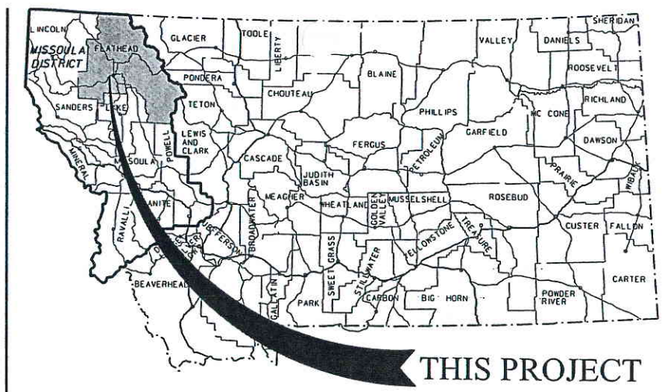


MONTANA DEPARTMENT OF TRANSPORTATION

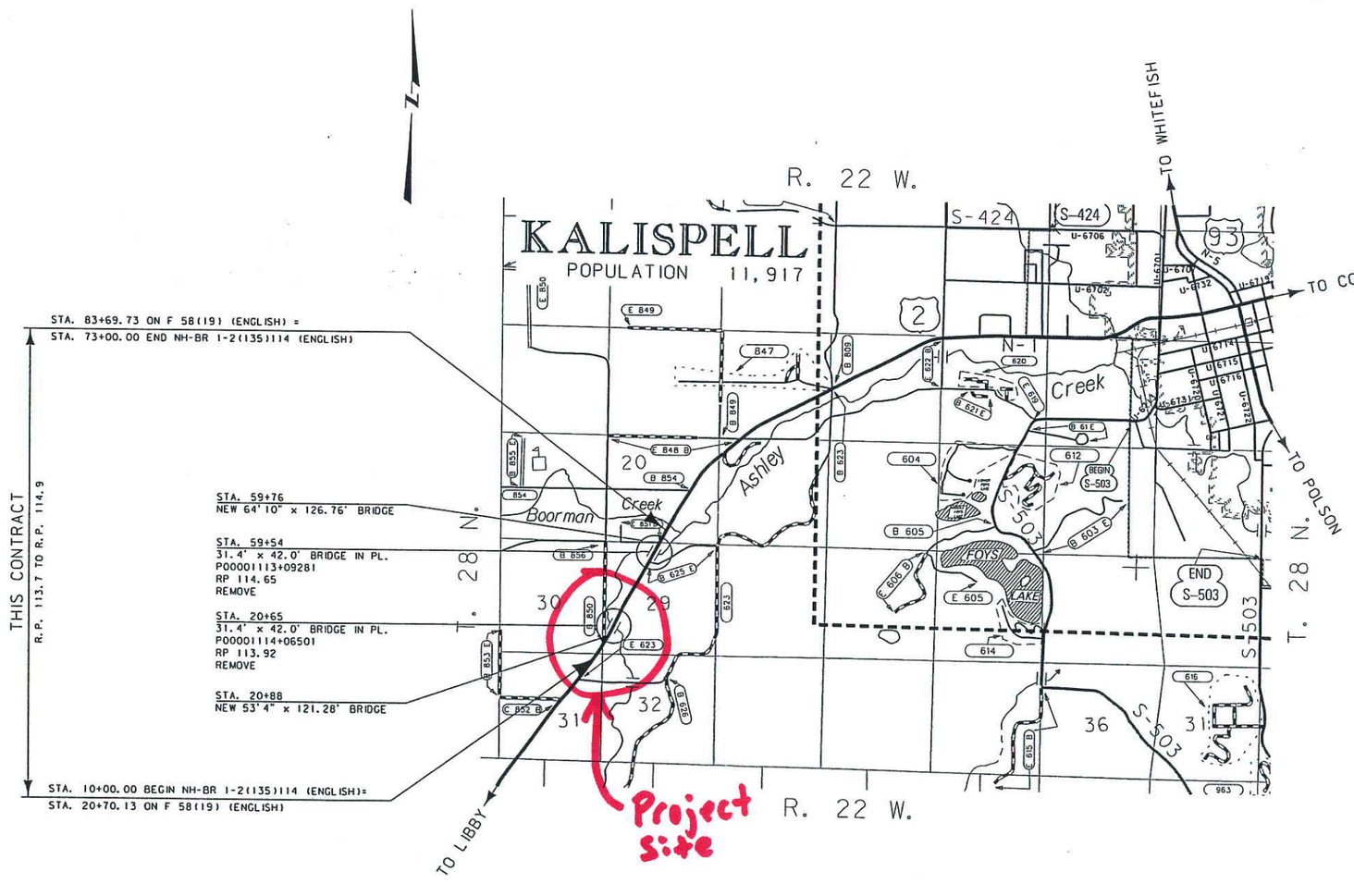
FEDERAL AID PROJECT NH-BR 1-2(135)114
BRIDGE REPLACEMENT WITH ADDED CAPACITY
KALISPELL - WEST
FLATHEAD COUNTY

PRESENT 2006	A. D. T.	= 4,890
LETTING 2010	A. D. T.	= 5,610
DESIGN 2026	A. D. T.	= 9,720
	D. H. V.	= 1,030
	TRUCKS	= 7.3%
	V.	= 70 mph
	18 KIP ESAL'S	= 245 DAILY
	GROWTH RATE	= 3.5% ANNUALLY

CSF = 0.99943428

LENGTH 1.2 MILES

SURFACING SOURCES -
CONTRACTOR FURNISHED



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ASSOCIATED PROJECT AGREEMENT NUMBERS	
R / W & I.C.	NH-BR 1-2(113)114
P. E.	NH-BR 1-2(113)114

MONTANA DEPARTMENT OF TRANSPORTATION

APPROVED : _____ 20 ____

TIM REARDON
DIRECTOR OF TRANSPORTATION

BY _____
BRIDGE ENGINEER

MONTANA
KENT M. BARNES
5751 PE
REGISTERED PROFESSIONAL ENGINEER

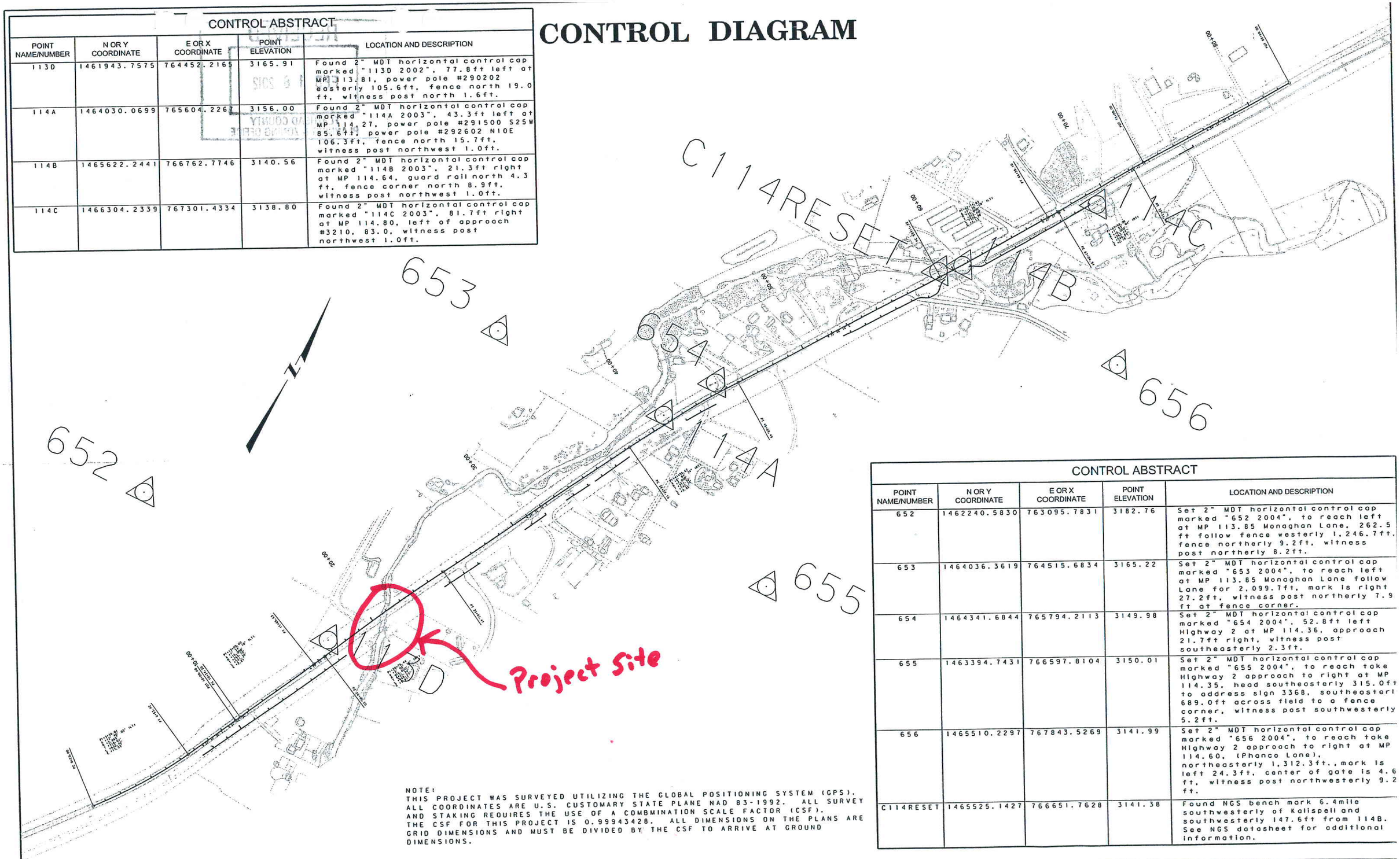
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED : _____

DIVISION ADMINISTRATOR _____ DATE

3 2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	c:\dgn\4773rdtl001.dgn	DESIGNED BY	JACQUELYN SMITH	9/2008	ROAD PLANS
		10/25/2011	REVIEWED BY			UPN 4773
		3:21:40 PM CPS - U9892	CHECKED BY			PRELIMINARY PIH

CONTROL DIAGRAM



CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
113D	1461943.7575	764452.2165	3165.91	Found 2" MDT horizontal control cap marked "113D 2002", 77.8ft left at MP 113.81, power pole #290202 easterly 105.6ft, fence north 19.0 ft, witness post north 1.6ft.
114A	1464030.0699	765604.2267	3156.00	Found 2" MDT horizontal control cap marked "114A 2003", 43.3ft left at MP 114.27, power pole #291500 S25W 85.6ft, power pole #292602 N10E 106.3ft, fence north 15.7ft, witness post northwest 1.0ft.
114B	1465622.2441	766762.7746	3140.56	Found 2" MDT horizontal control cap marked "114B 2003", 21.3ft right at MP 114.64, guard rail north 4.3 ft, fence corner north 8.9ft, witness post northwest 1.0ft.
114C	1466304.2339	767301.4334	3138.80	Found 2" MDT horizontal control cap marked "114C 2003", 81.7ft right at MP 114.80, left of approach #3210, 83.0, witness post northwest 1.0ft.

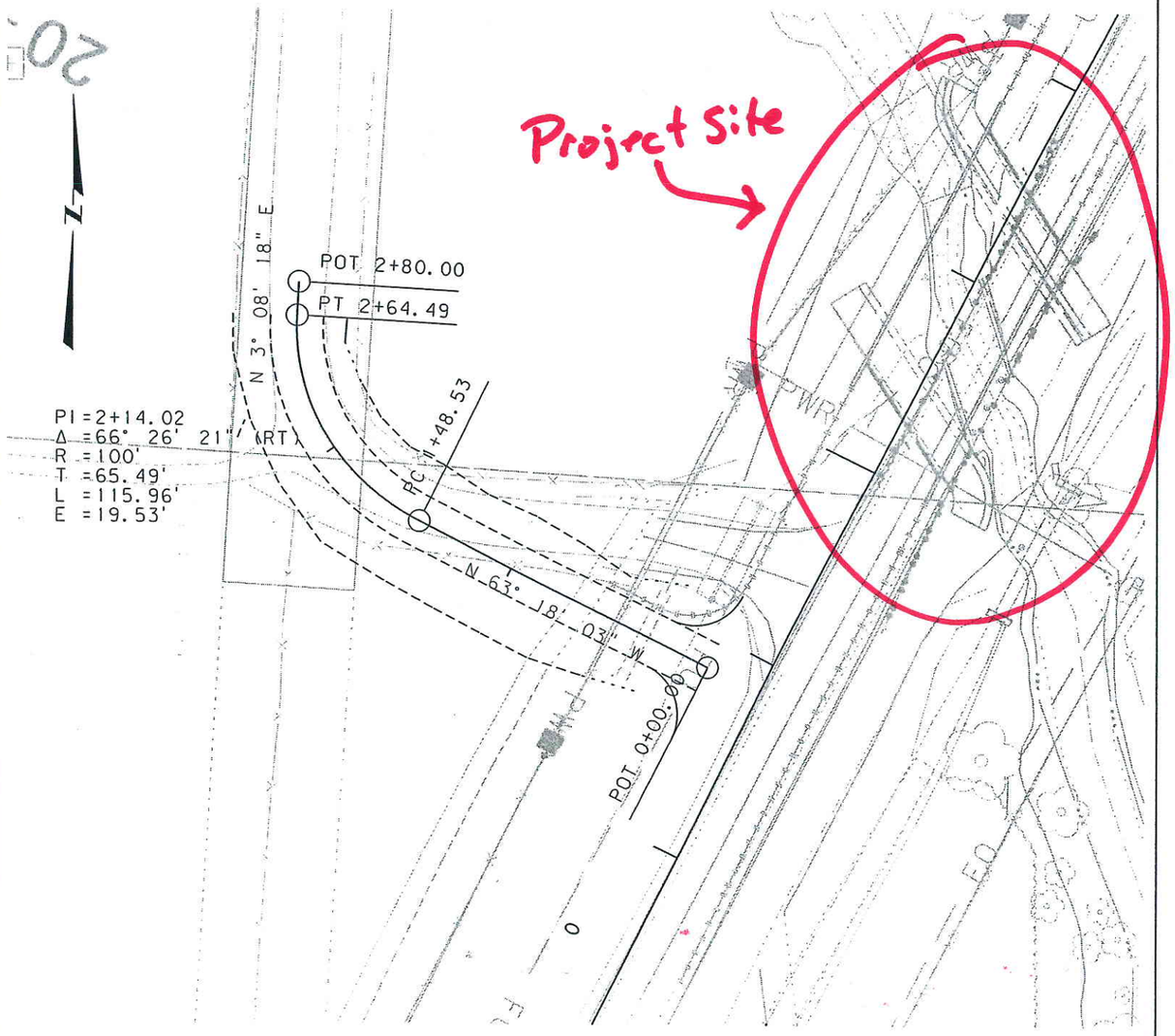
NOTE:
THIS PROJECT WAS SURVEYED UTILIZING THE GLOBAL POSITIONING SYSTEM (GPS). ALL COORDINATES ARE U.S. CUSTOMARY STATE PLANE NAD 83-1992. ALL SURVEY AND STAKING REQUIRES THE USE OF A COMBMINATION SCALE FACTOR (CSF). THE CSF FOR THIS PROJECT IS 0.99943428. ALL DIMENSIONS ON THE PLANS ARE GRID DIMENSIONS AND MUST BE DIVIDED BY THE CSF TO ARRIVE AT GROUND DIMENSIONS.

CONTROL ABSTRACT

POINT NAME/NUMBER	N OR Y COORDINATE	E OR X COORDINATE	POINT ELEVATION	LOCATION AND DESCRIPTION
652	1462240.5830	763095.7831	3182.76	Set 2" MDT horizontal control cap marked "652 2004", to reach left at MP 113.85 Monaghan Lane, 262.5 ft follow fence westerly 1,246.7ft, fence northerly 9.2ft, witness post northerly 8.2ft.
653	1464036.3619	764515.6834	3165.22	Set 2" MDT horizontal control cap marked "653 2004", to reach left at MP 113.85 Monaghan Lane follow Lane for 2,099.7ft, mark is right 27.2ft, witness post northerly 7.9 ft at fence corner.
654	1464341.6844	765794.2113	3149.98	Set 2" MDT horizontal control cap marked "654 2004", 52.8ft left Highway 2 at MP 114.36, approach 21.7ft right, witness post southeasterly 2.3ft.
655	1463394.7431	766597.8104	3150.01	Set 2" MDT horizontal control cap marked "655 2004", to reach take Highway 2 approach to right at MP 114.35, head southeasterly 315.0ft to address sign 3368, southeaster 689.0ft across field to a fence corner, witness post southwesterly 5.2ft.
656	1465510.2297	767843.5269	3141.99	Set 2" MDT horizontal control cap marked "656 2004", to reach take Highway 2 approach to right at MP 114.60, (Phonco Lane), northeasterly 1,312.3ft., mark is left 24.3ft, center of gate is 4.6 ft, witness post northwesterly 9.2 ft.
C114RESET	1465525.1427	766651.7628	3141.38	Found NGS bench mark 6.4mile southwesterly of Kalispell and southwesterly 147.6ft from 114B. See NGS datasheet for additional information.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	c:\dgn\4773rdtrv001.dgn	DESIGNED BY JAQUELYN SMITH	9/2008	ROAD PLANS	KALISPELL - WEST	NH-BR 1-2(135)114
2		10/25/2011	REVIEWED BY			CSF=0.99943428 UPN 4773	
1		3:22:00 PM CPS - U9892	CHECKED BY		FLATHEAD COUNTY	PRELIMINARY PIH	SHEET 4 OF 35

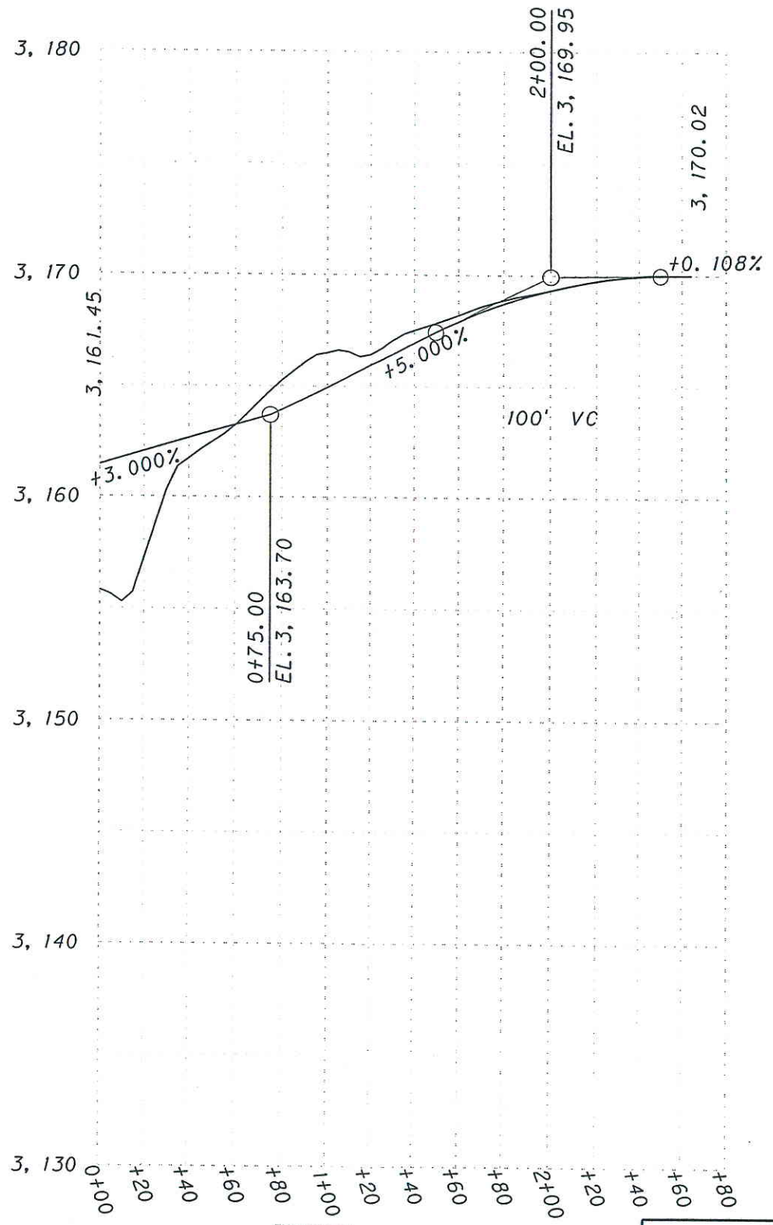
PLAN VIEW



CENTERLINE COORDINATE TABLE

STATION	DESCRIPTION	N OR Y COORDINATE	E OR X COORDINATE	REMARKS
0+00.00	POT	1,462,077.730	764,560.562	BEG. MANAGHAN LANE
1+48.53	PC	1,462,144.465	764,427.868	
2+14.02	PI	1,462,173.891	764,369.365	
2+64.49	PT	1,462,239.280	764,372.952	END MANAGHAN LANE

PROFILE VIEW



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DETAIL

MANAGHAN LANE
18+85 LT.
PLAN & PROFILE

NO SCALE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	c:\dgn\4773rddet001.dgn	DESIGNED BY	JACQUELYN SMITH		ROAD PLANS	NH-BR 1-2(135)114
2		10/25/2011	REVIEWED BY				
1		3:23:14 PM CPS - U9892	CHECKED BY			FLATHEAD COUNTY	SHEET 16 OF 35
						PRELIMINARY PIH	CSF= 0.99943428 / UPN 4773