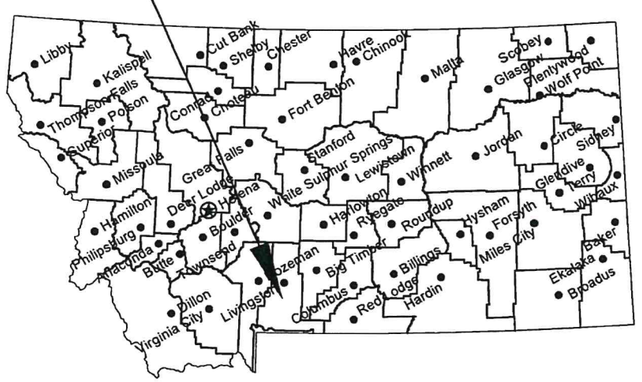
ROAD MAINTENANCE

MALLARD'S REST FISHING ACCESS SITE

near Livingston, MT

FWP # 7173728

PROJECT LOCATION



Location Map

No Scale

North

PROJECT LOCATION

Vicinity Map

No Scale

MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION BUREAU

MAILING ADDRESS:	PHYSICAL ADDRESS:
PO BOX 200701	1522 9th AVENUE
HELENA, MT 59620-0701	HELENA, MT 59601

TEL 406.841.4000
FAX 406.841.4004
fwp.mt.gov/Doing Business/Design&Construction

DRAWING INDEX

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3/31/20
MONTANA
PHILLIP N. JAGODA
No. 49530PE
LICENSED PROFESSIONAL ENGINEER

J. Kevin McDonnell 3.2020			
DRAWN BY: DATE:	APPROVED BY: DATE:	APPROVED BY: DATE:	MONTANA FISH, WILDLIFE & PARKS
CHECKED BY: DATE:	APPROVED BY: DATE:	APPROVED BY: DATE:	

COVER
Mallard's Rest FAS south of Livingston, MT

SHEET: 1 of 9

Notes:

1) The FWP Engineer will stake radius points, centerline stations of alignments and provide reference elevations.

2) Bid Item #5 Testing Allowance on the Bid Form provides a lump sum allowance for compaction testing. Refer to the Technical Specifications for information on testing.

3) Submittals required on crushed surfacing gravel tests. Refer to Section 02207.

4) Transitions from new graveled areas to vegetated areas shall be uniform, well defined, and follow the alignment of the roads and parking layouts.

5)The Contractor shall use best management practices to prevent silt, soil and debris from entering the water. This may include straw, gravel or fabric. Temporary dikes to divert rainwater may be used, provided they are removed and the gravel or soil returned to the original condition. Exposed soil may require straw or similar cover to minimize erosion caused by rain. Other appropriate methods may be used at the Contractors' discretion or as directed by the owner.

6) Equipment used in or near water shall not leak fluids. It shall be power washed before use on the site and examined by the engineer.

7)Provide methods, means, and facilities to prevent contamination of soil, water, and atmosphere from discharge of noxious, toxic substances, and pollutants produced by construction operations.

8)The contractor is responsible for locating and protecting utilities within the construction area including access routes to the construction area.

9)The contractor is required to notify and coordinate all work activities with the FWP Project Engineer.

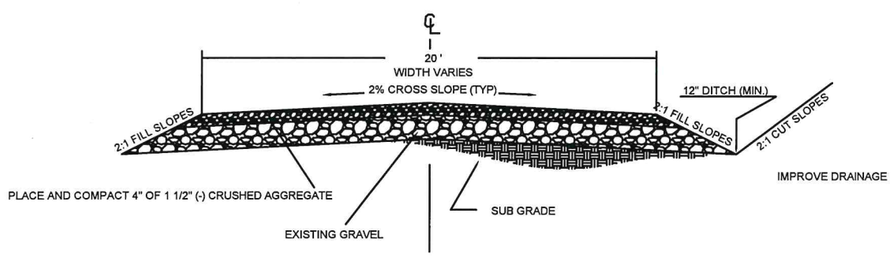
10) Submittals are required on all products used in the project. Refer to specifications for submittal requirements.

11)Provide all temporary signing, personnel and traffic control devises as required by federal, state and local regulations.

13)The Owner is responsible for obtaining all necessary permits.

14) The project shall initiate no earlier than May 1, and no later than by June 1, and be complete by June 15. The project duration is 21 days.

15) The additional fill section shall be staked in the field by the FWP Engineer. The Typical Section shall apply and material volumes are included on the Bid Form.

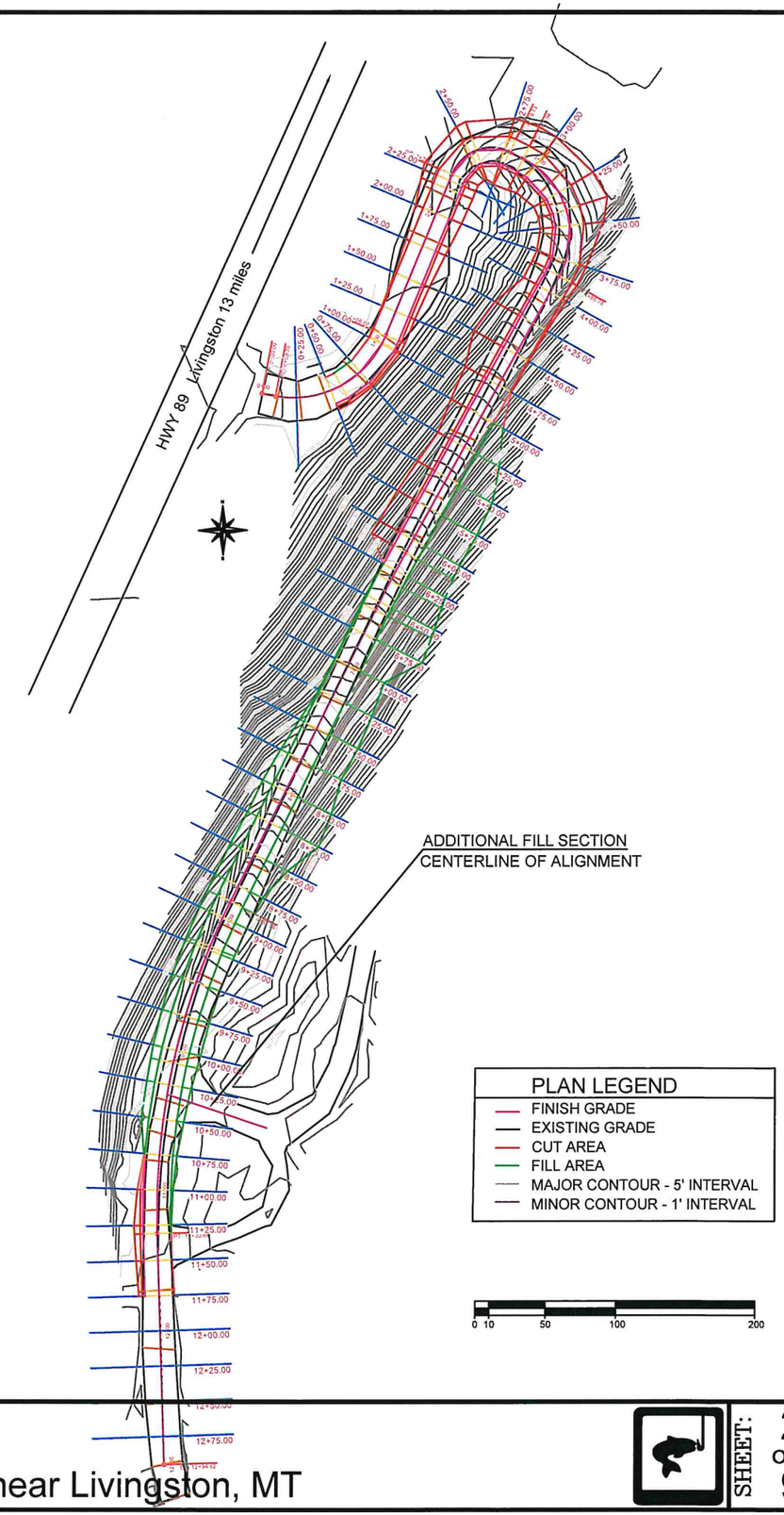


NOTES:

1. REGRADE THE ROAD TO PLAN AND PROFILE ELEVATIONS
2. IMPROVE THE DRAINAGE DITCHES ADJACENT TO ROADS AS INDICATED.
4. COMPACT AND TEST ROADWAY MATERIAL TO SPECIFICATION
5. PLACE AND COMPACT 4" OF 1 1/2" (-) CRUSHED TOP SURFACING

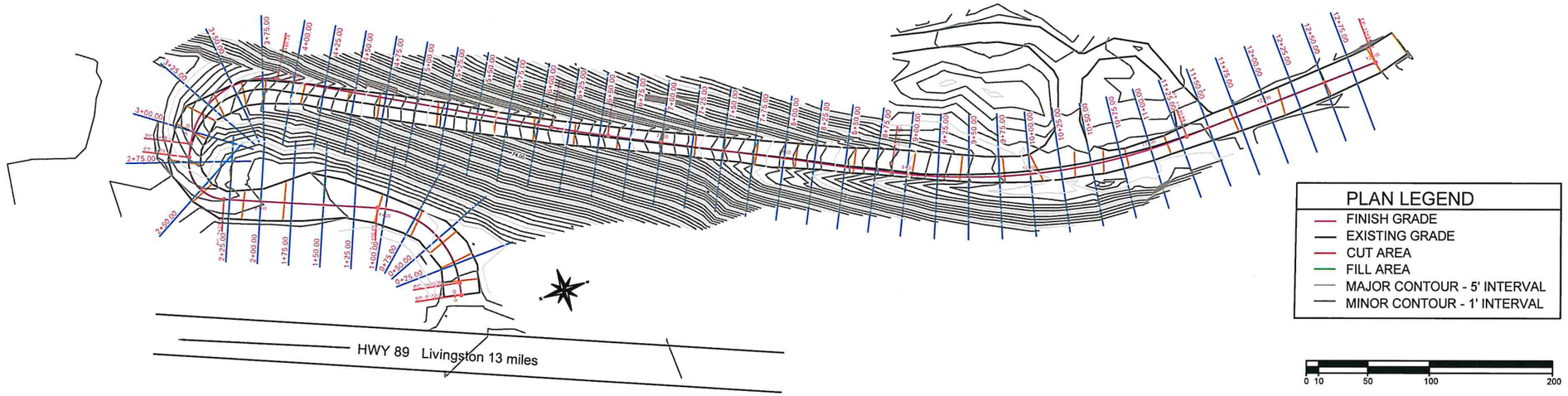
TYPICAL SECTION : GRADE AND GRAVEL EXISTING ROAD

NOT TO SCALE

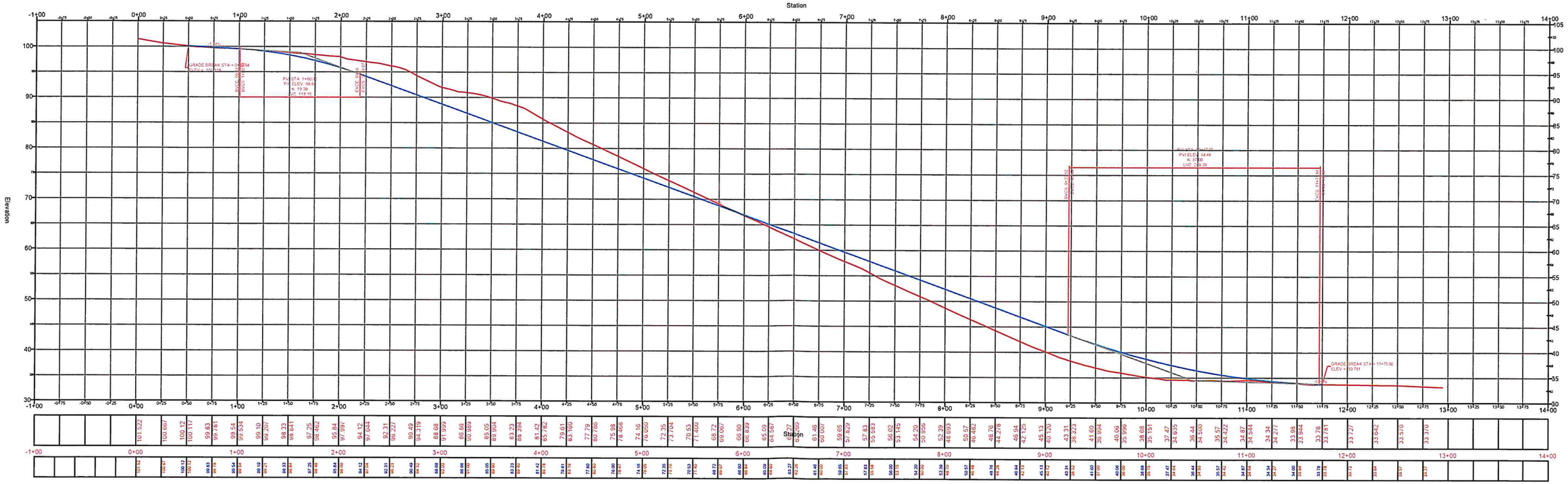


J. Kevin McDonnell	3.2020						
DRAWN BY:	DATE:	REVISED BY:	DATE:	APPROVED BY:	DATE:	MONTANA FISH, WILDLIFE & PARKS	SITE PLAN
CHECKED BY:	DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:		Mallard's Rest near Livingston, MT

SHEET: 2 of 9



Alignment - (3) PROFILE



J. Kevin McDonnell 3.2020					
DRAWN BY: DATE:	REVISED BY: DATE:	APPROVED BY: DATE:	MONTANA FISH, WILDLIFE & PARKS	OVERALL PLAN AND PROFILE	SHEET: 3 of 9
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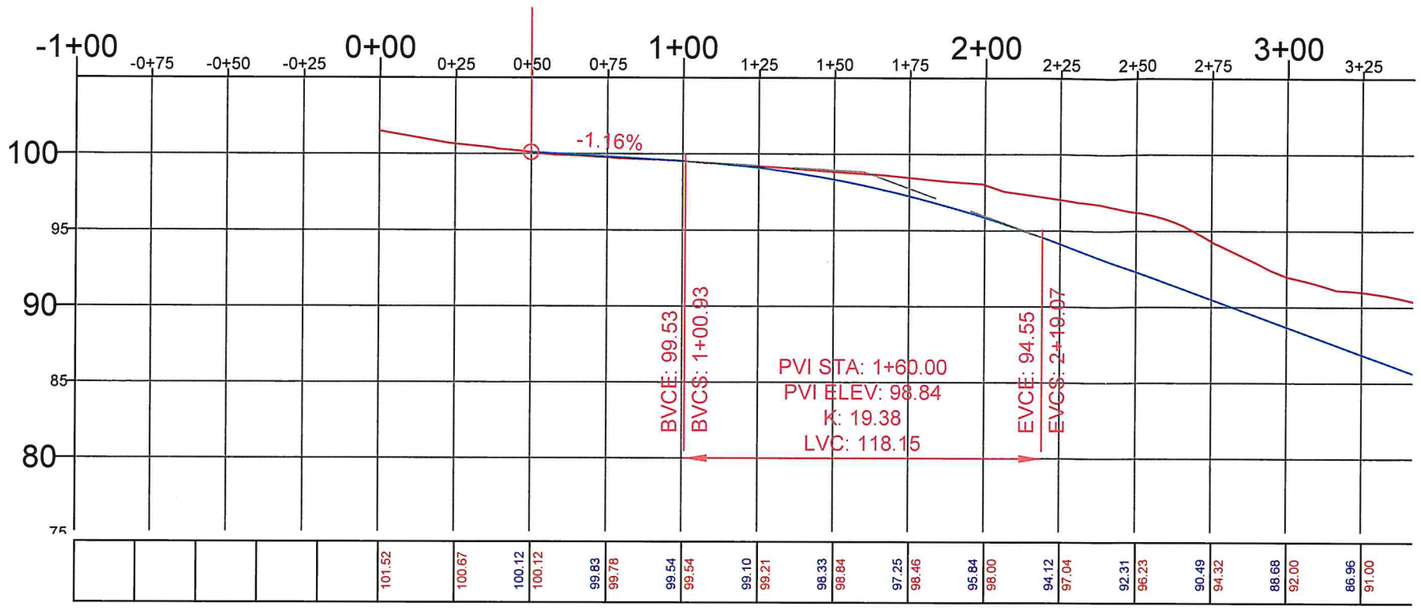
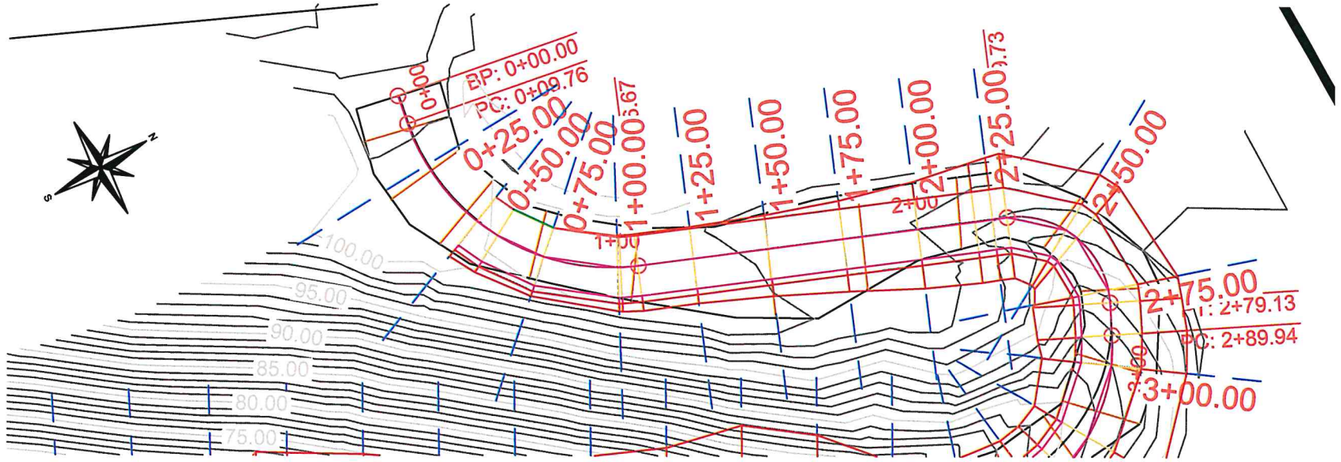


PROFILE LEGEND

- FINISH GRADE - CENTERLINE
- EXISTING GRADE - CENTERLINE



PLAN LEGEND

- FINISH GRADE
- EXISTING GRADE
- CUT AREA
- FILL AREA
- MAJOR CONTOUR - 5' INTERVAL
- MINOR CONTOUR - 1' INTERVAL

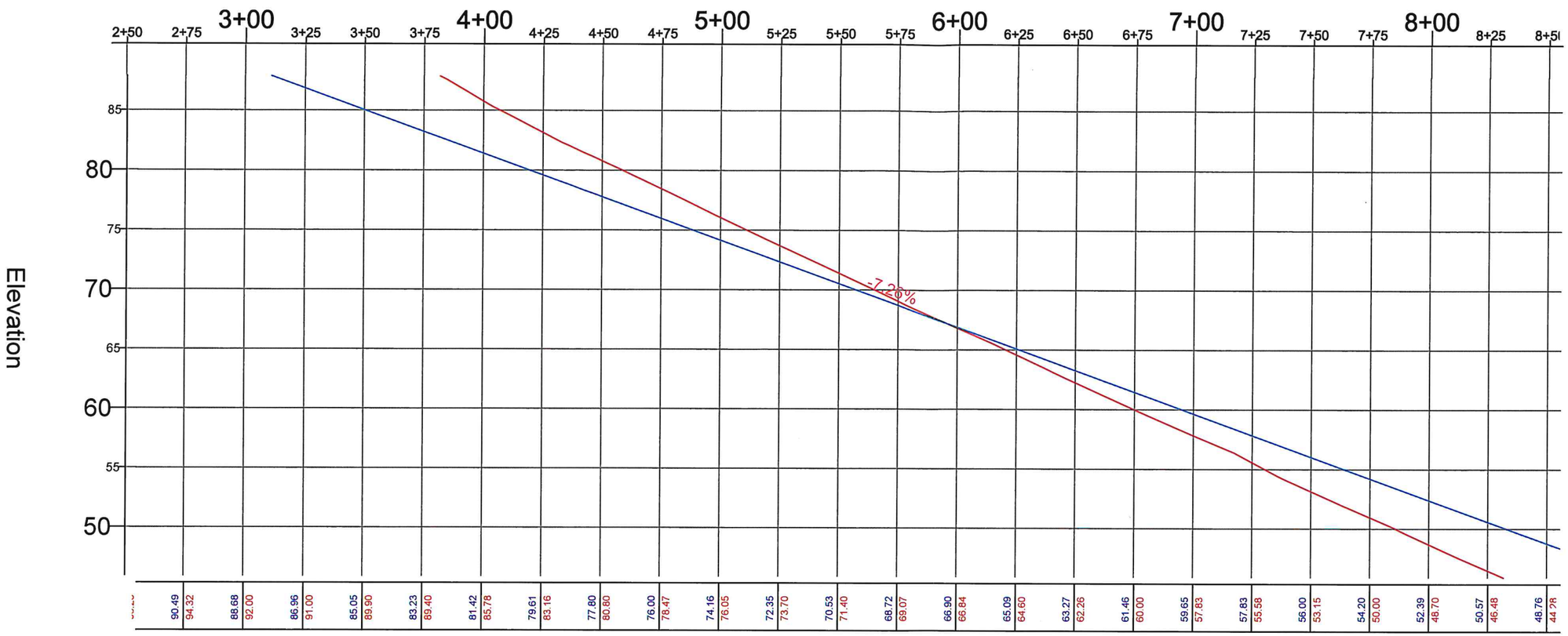
0 10 20 40 60 80 100

J. Kevin McDonnell 3.2020 DRAWN BY: DATE: CHECKED BY: DATE:	REVISED BY: DATE: APPROVED BY: DATE:	APPROVED BY: DATE: APPROVED BY: DATE:	MONTANA FISH, WILDLIFE & PARKS

PLAN AND PROFILE I

Mallard's Rest FAS south of Livingston, MT

SHEET: 4 of 9



PROFILE LEGEND

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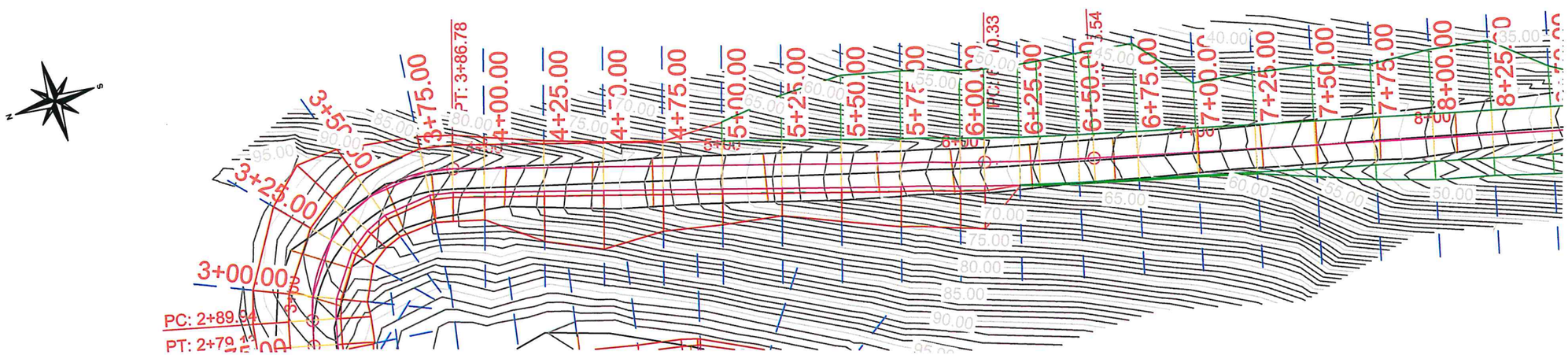
- EXISTING GRADE - CENTERLINE



PLAN LEGEND

- FINISH GRADE
- EXISTING GRADE
- CUT AREA
- FILL AREA
- MAJOR CONTOUR - 5' INTERVAL
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0 10 20 40 60 80 100

J. Kevin McDonnell	3.2020						
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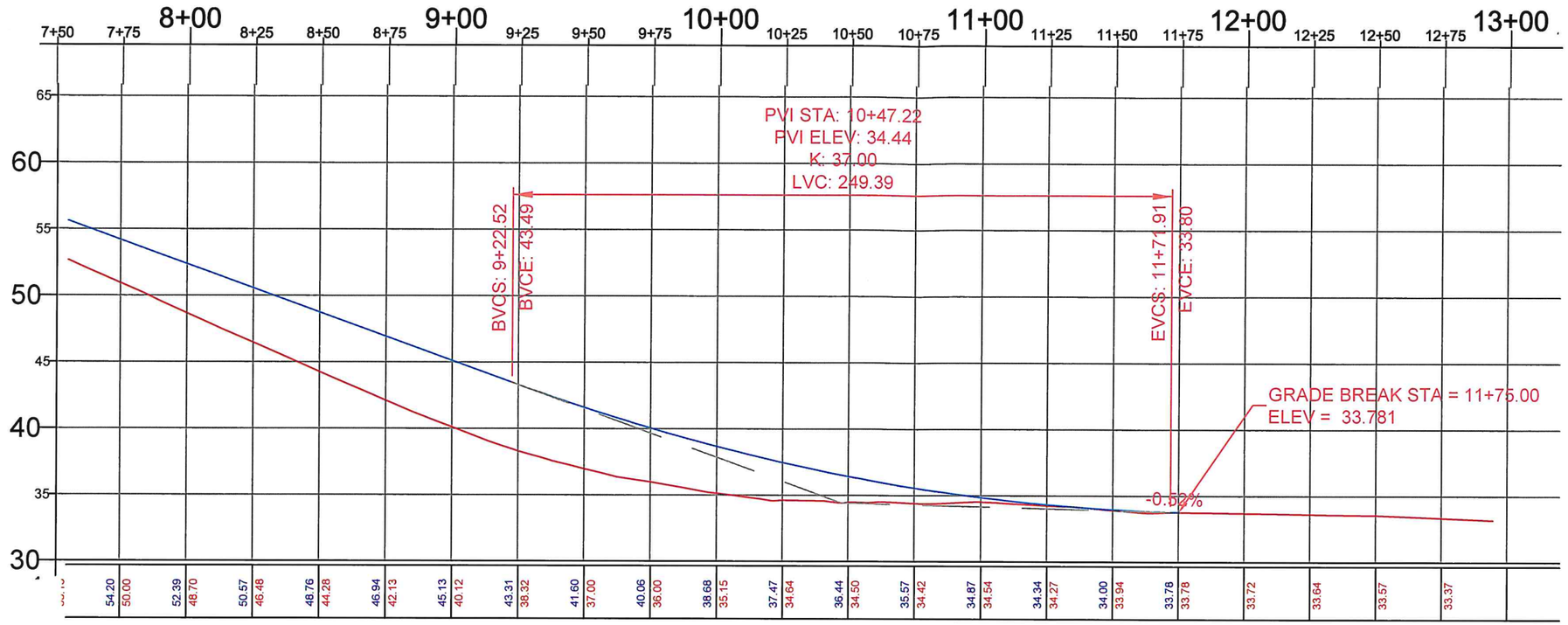

PROFILE LEGEND
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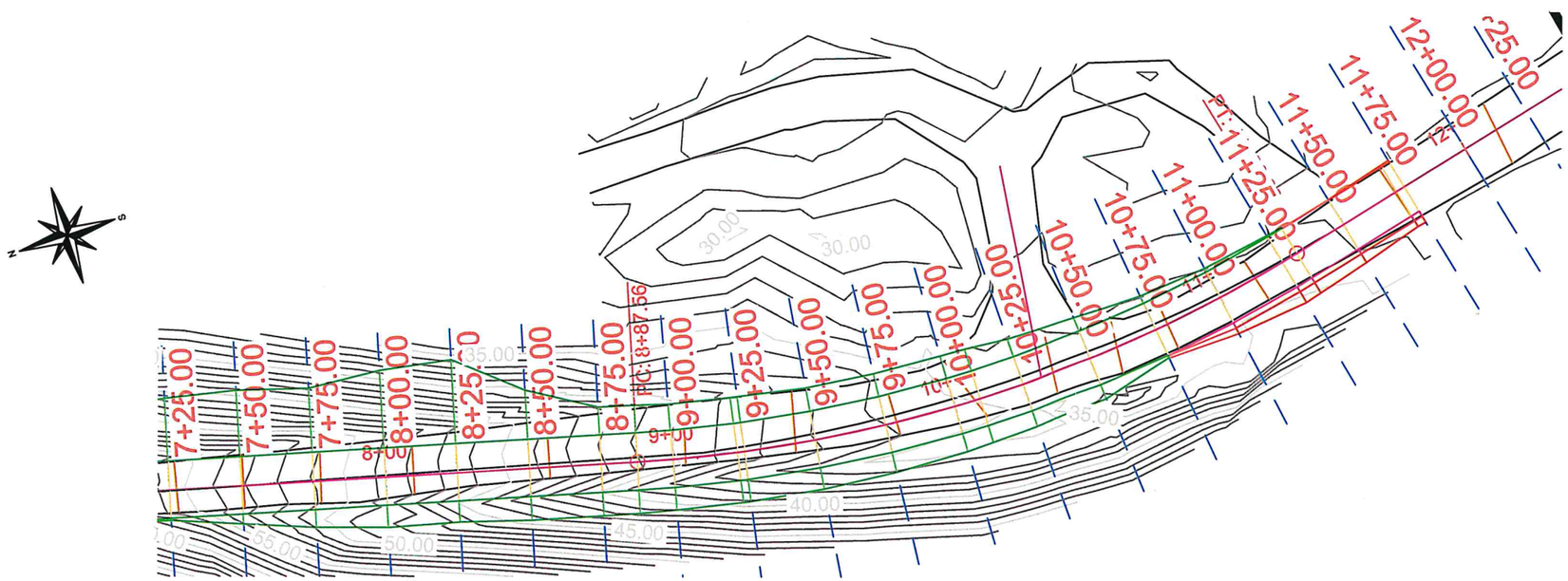
EXISTING GRADE - CENTERLINE



PLAN LEGEND
FINISH GRADE
EXISTING GRADE
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FILL AREA
MAJOR CONTOUR - 5' INTERVAL
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0 10 20 40 60 80 100

J. Kevin McDonnell	3.2020						
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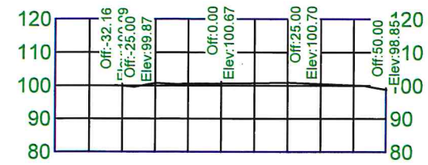
SHEET: 6 of 9



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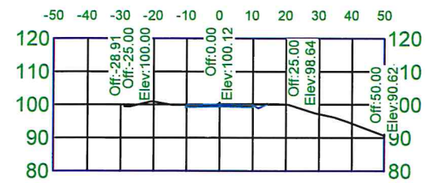

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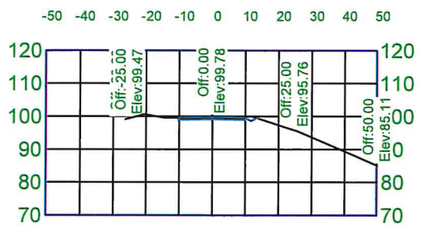

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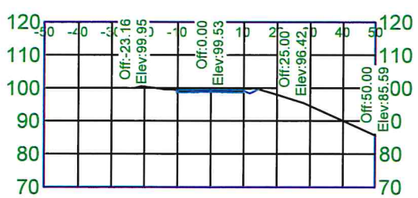

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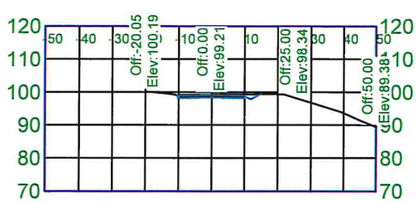

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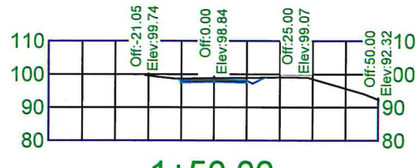

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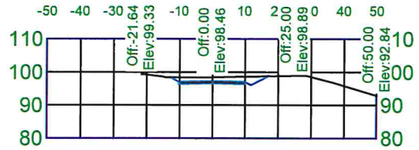

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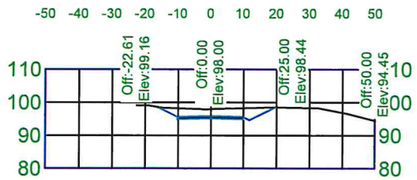

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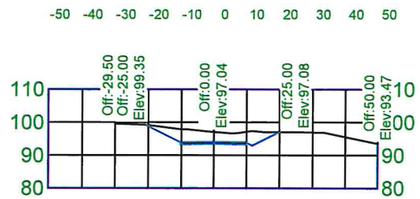

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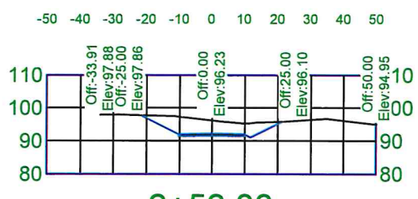

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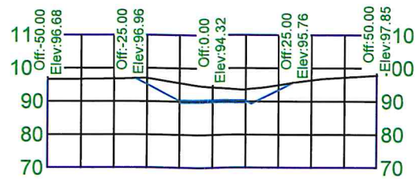

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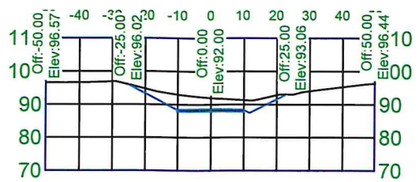

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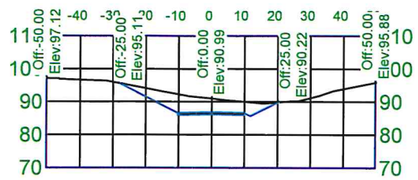

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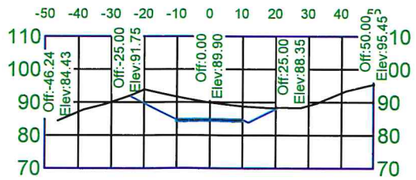

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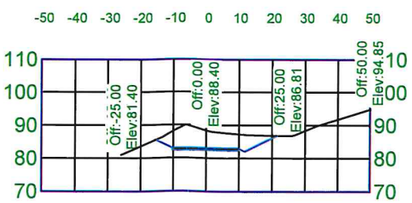

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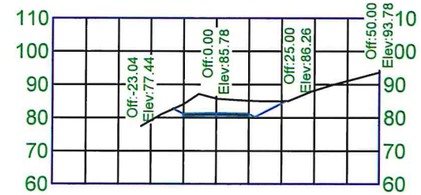

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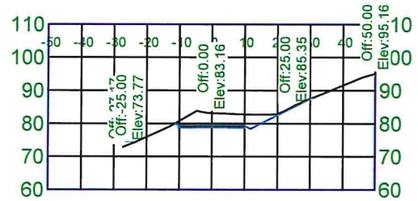

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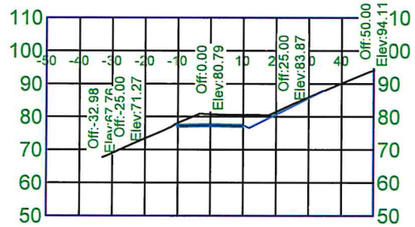

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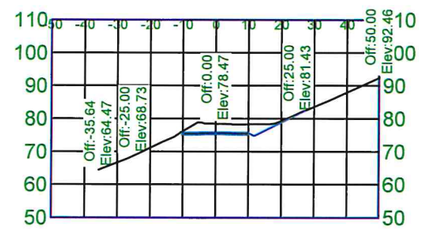

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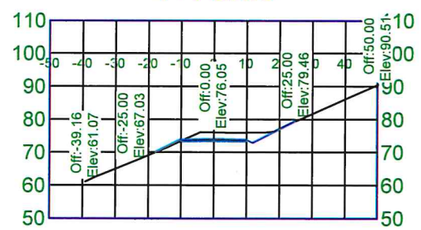

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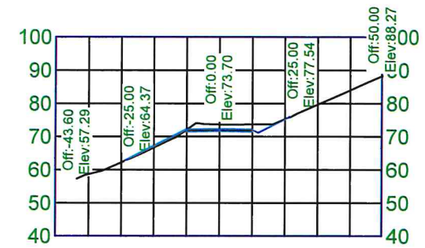

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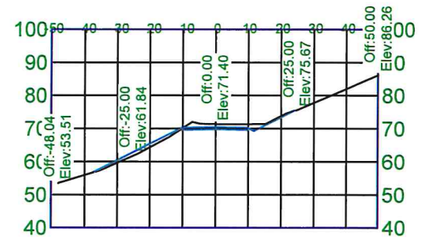

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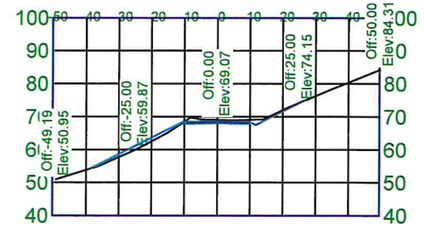

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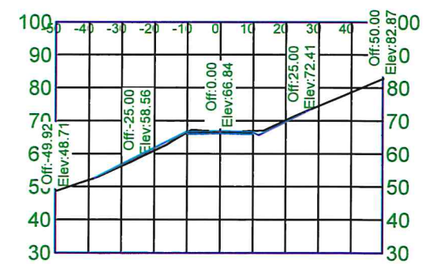

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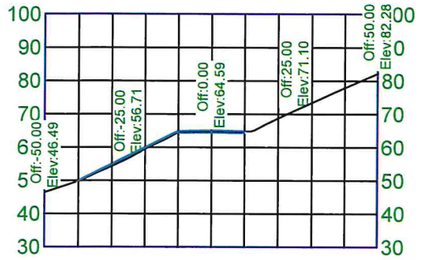
J. Kevin McDonnell	3.2020						
DRAWN BY:	DATE:	REVISED BY:	DATE:	APPROVED BY:	DATE:	MONTANA FISH, WILDLIFE & PARKS	CROSS SECTIONS I
CHECKED BY:	DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:		Mallard's Rest FAS near Livingston, MT

SHEET: 7 of 9



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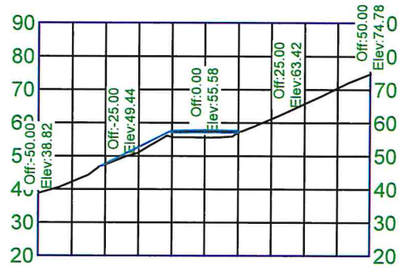

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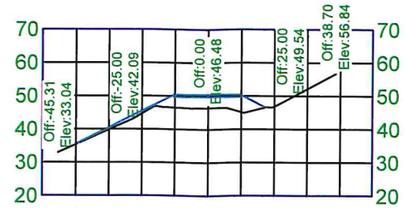

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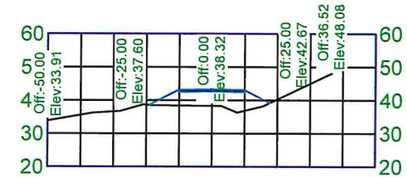

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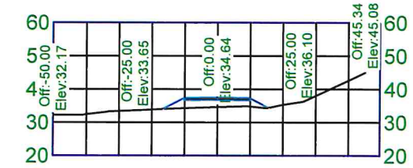

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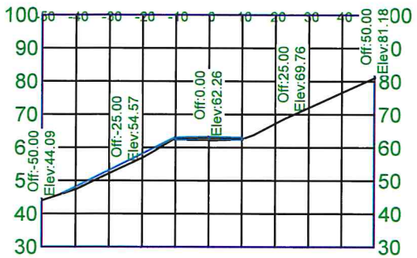

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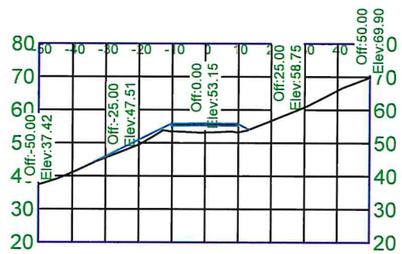

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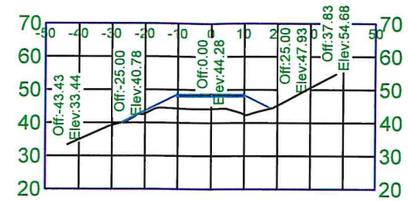

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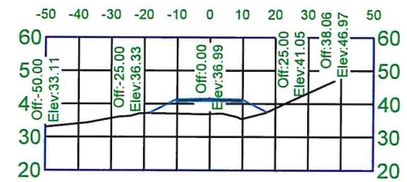

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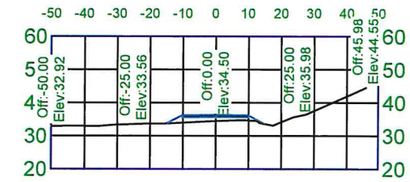

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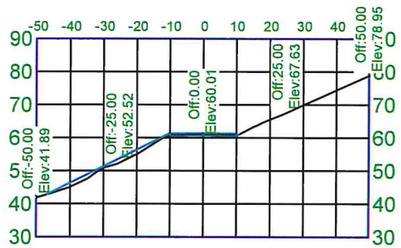

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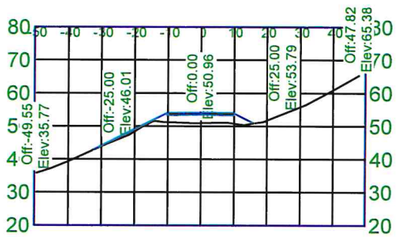

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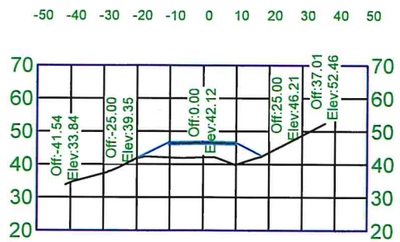

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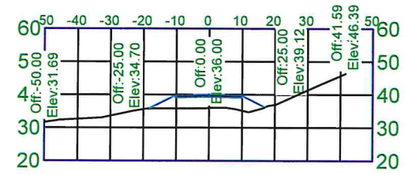

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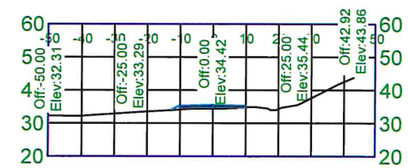

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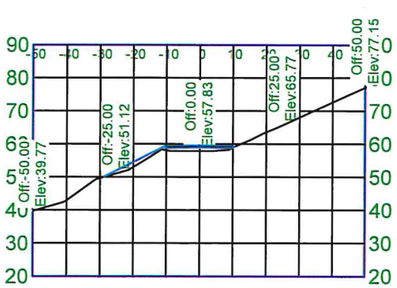

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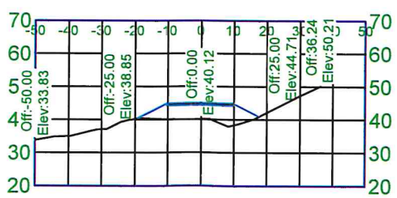

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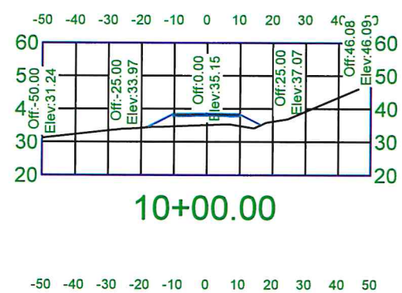

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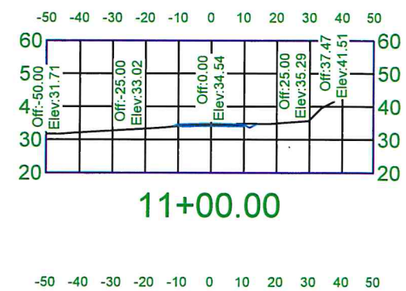

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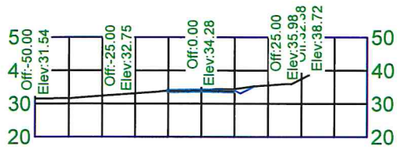
J. Kevin McDonnell	3.2020						
DRAWN BY:	DATE:	REVISED BY:	DATE:	APPROVED BY:	DATE:	MONTANA FISH, WILDLIFE & PARKS	CROSS SECTION II
CHECKED BY:	DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:		Mallard's Rest FAS near Livingston, MT

SHEET: 8 of 9



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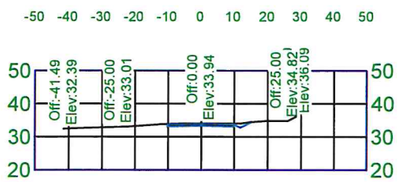

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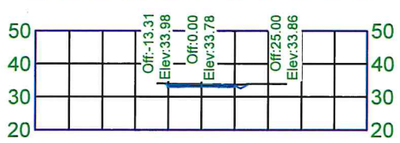

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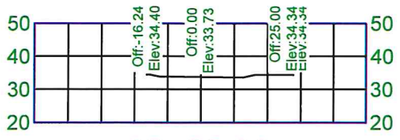

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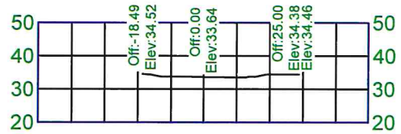

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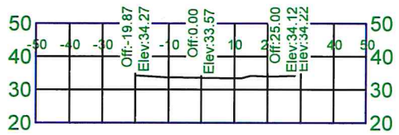

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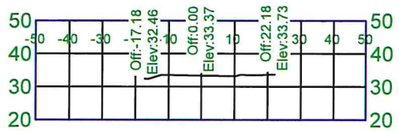

12+75.00

		VOLUME TABLE		
	VOLUME CUT(cy)	VOLUME FILL(cy)	VOLUME CUT(cy)Total	VOLUME FILL(cy)Total
0+50				
0+75	4.59		4.59	
1+00	6.21		10.80	
1+25	12.35		23.15	
1+50	27.29		50.44	
1+75	52.42		102.86	
2+00	83.95		186.81	
2+25	114.83		301.64	
2+50	140.43		442.06	
2+75	137.34		579.41	
3+00	136.59		716.00	
3+25	166.28		882.28	
3+50	163.40		1045.68	
3+75	129.88		1175.56	
4+00	104.28		1279.84	
4+25	90.59		1370.43	
4+50	76.16		1446.59	
4+75	58.77		1505.36	
5+00	45.74		1551.10	
5+25	33.93		1585.03	
5+50	24.01		1609.04	
5+75	0.00			
6+00		5.13		5.13
6+25		8.88		14.00
6+50		20.38		34.38
6+75		35.79		70.17
7+00		52.27		122.44
7+25		54.59		142.65
7+50		69.31		246.35
7+75		86.73		333.07
8+00		97.59		430.66
8+25		117.39		548.06
8+50		134.29		682.34
8+75		141.72		824.06
9+00		141.68		965.74
9+25		131.95		1097.69
9+50		117.00		1214.69
9+75		101.31		1316.00
10+00		79.81		1395.80
10+25		56.51		1452.31
10+50		44.69		1497.00
10+75		22.16		1519.16
11+00		0.00		

J. Kevin McDonnell 3.2020			
DRAWN BY: DATE:	REVISED BY: DATE:	APPROVED BY: DATE:	MONTANA FISH, WILDLIFE & PARKS
CHECKED BY: DATE:	APPROVED BY: DATE:	APPROVED BY: DATE:	

CROSS SECTIONS III / VOLUME TABLE

Mallard's Rest FAS near Livingston, MT

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