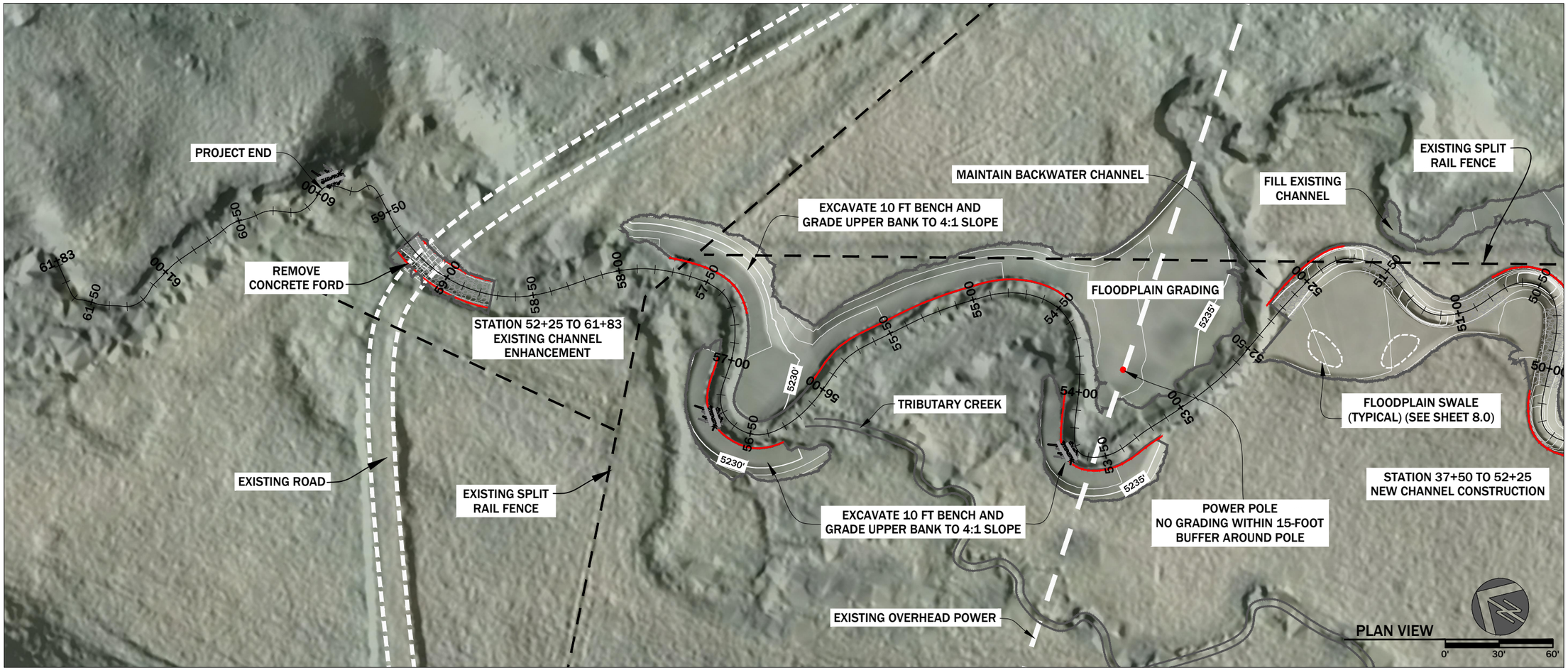

LEGEND

BANK STRUCTURES	DETAIL SHEET #
LARGE WOOD STRUCTURE	7.1
SOD AND BRUSH BANK	7.2
CHANNEL STRUCTURES	**DETAIL SHEET #**
CONSTRUCTED RIFFLE	7.3

CHANNEL DESIGN SCHEDULE

STATION	TOP OF BANK ELEVATION (FT)	THALWEG ELEVATION (FT)	FEATURE
51+02	5237.58	5235.98	RIFFLE 1
51+12	5237.44	5237.44	POOL
51+24	5237.26	5237.26	POOL
51+40	5237.02	5235.42	RIFFLE 1
51+64	5236.67	5235.07	RIFFLE 1
51+74	5236.52	5236.52	POOL
51+86	5236.35	5236.35	POOL
52+02	5236.11	5234.51	RIFFLE 1
52+25	5235.77	5234.17	RIFFLE 1
58+73	5226.75	5225.15	RIFFLE 1
59+30	5226.00	5224.40	RIFFLE 1

STRUCTURE SCHEDULE

LARGE WOOD STRUCTURE START	END	BANK	SOD AND BRUSH BANK START	END	BANK	CONSTRUCTED RIFFLE START	END
53+65	53+75	L	51+65	52+25	R	50+73	51+02
56+65	56+75	L	53+20	54+00	L	51+40	51+64
59+85	60+00	R	54+50	56+00	R	52+02	52+25
			56+35	57+00	L	58+73	59+30
			57+25	57+72	R		
			58+74	59+30	L		
			58+75	59+30	R		

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PLAN VIEW AND STRUCTURE LAYOUT
UPPER SPOTTED DOG CREEK NEAR AVON, MONTANA

NO.	DATE	BY	DESCRIPTION	CHK
1	3-11-16	NW	DESIGN	MD
2	1-02-20	NW	DESIGN REVISIONS	MD

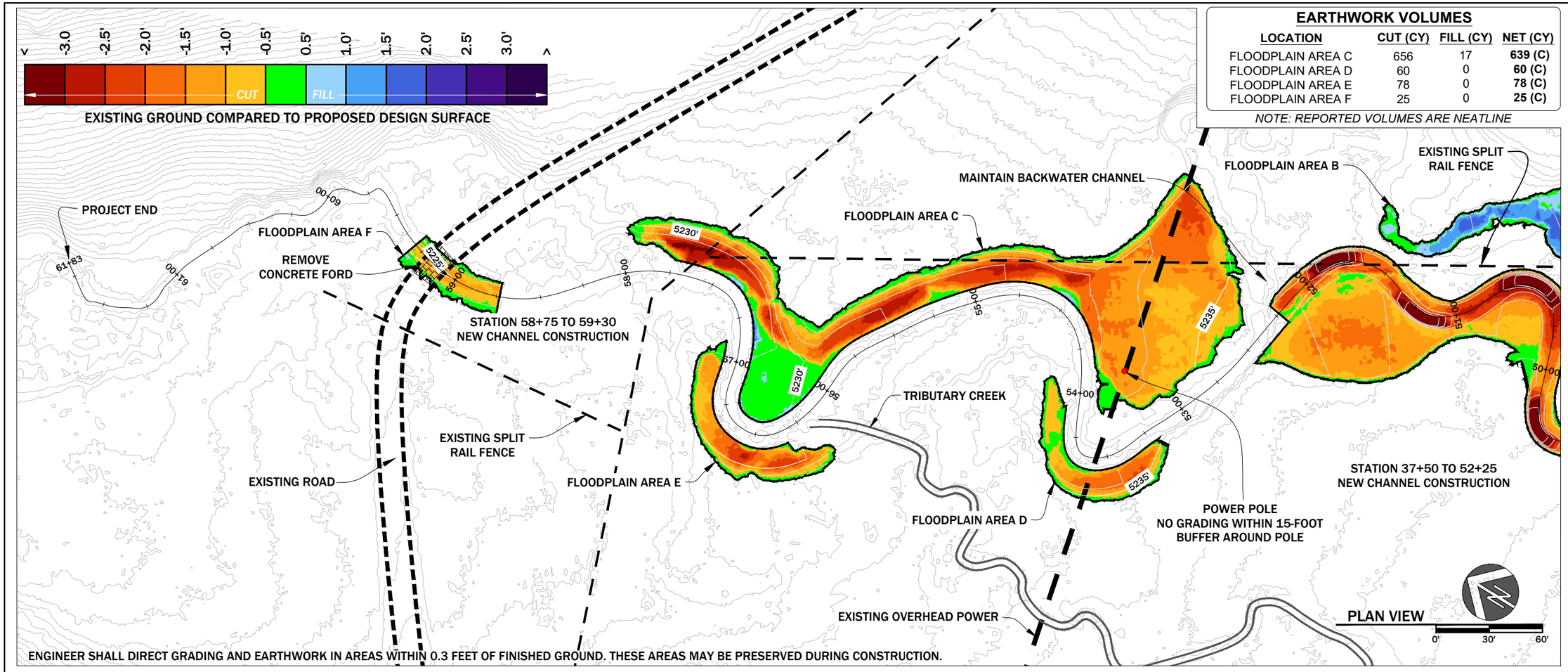
PROJECT NUMBER RDG-15-053

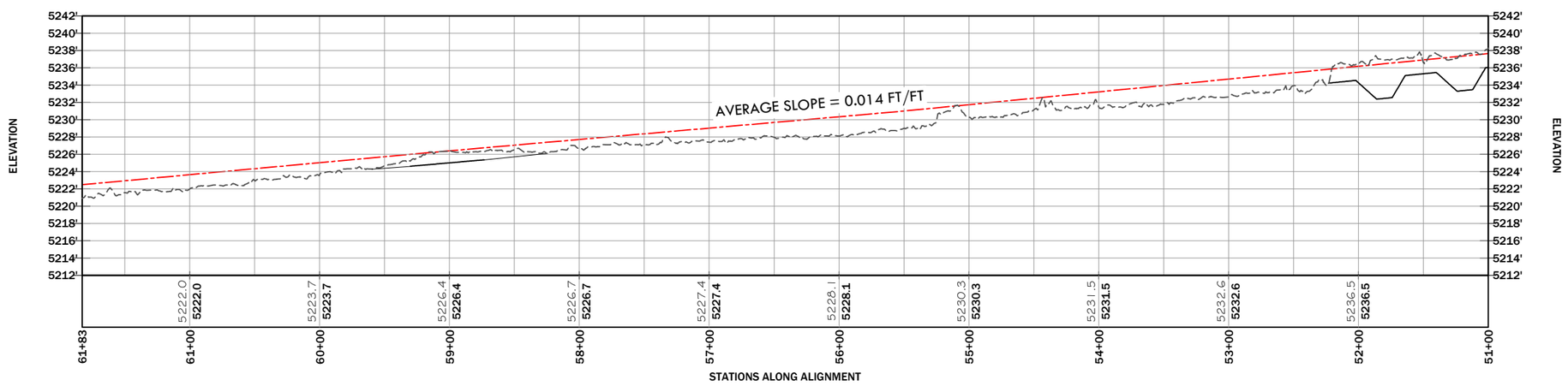
SHEET NUMBER 5.8

EARTHWORK VOLUMES

LOCATION	CUT (CY)	FILL (CY)	NET (CY)
FLOODPLAIN AREA C	656	17	**639 (C)**
FLOODPLAIN AREA D	60	0	**60 (C)**
FLOODPLAIN AREA E	78	0	**78 (C)**
FLOODPLAIN AREA F	25	0	**25 (C)**

NOTE: REPORTED VOLUMES ARE NEATLINE





LEGEND

EXISTING GROUND	DESIGN BANKFULL	DESIGN THALWEG

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GRADING PLAN AND PROFILE
UPPER SPOTTED DOG CREEK
NEAR AVON, MONTANA

NO.	DATE	BY	DESCRIPTION	CHK
1	3-11-16	NW	DESIGN	MD
2	1-02-20	NW	DESIGN REVISIONS	MD

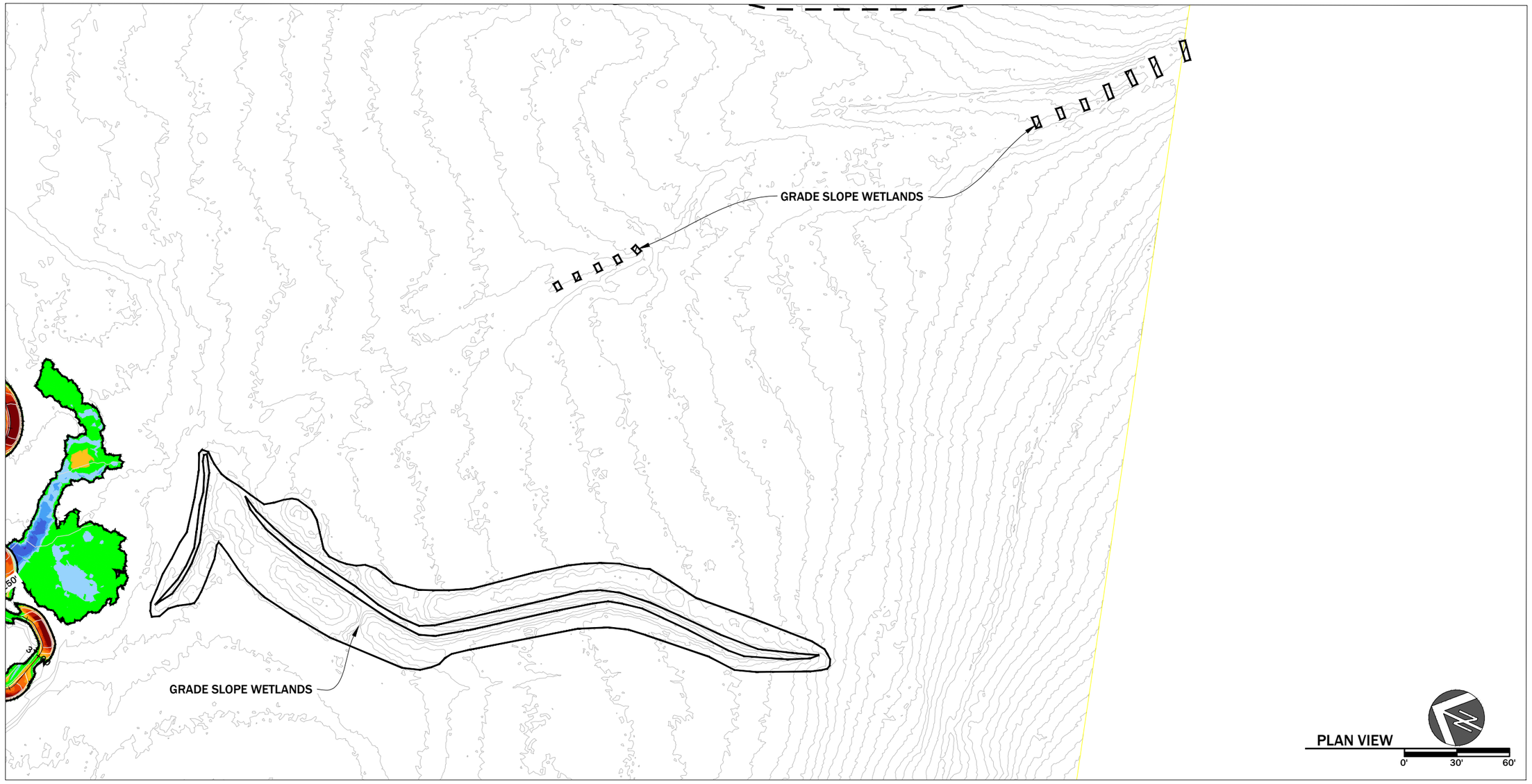
PROJECT NUMBER
RDG-15-053

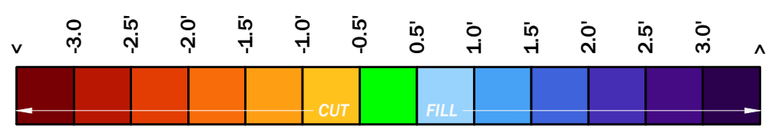
SHEET NUMBER
5.9

EARTHWORK VOLUMES

LOCATION	CUT (CY)	FILL (CY)	NET (CY)
DITCH FILL	xxx	xxx	xxx

NOTE: REPORTED VOLUMES ARE NEATLINE





EXISTING GROUND COMPARED TO PROPOSED DESIGN SURFACE

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GRADING PLAN AND PROFILE
UPPER SPOTTED DOG CREEK
NEAR AVON, MONTANA

NO.	DATE	BY	DESCRIPTION	CHK
1	2-10-20	NW	DESIGN	MD

PROJECT NUMBER
RDG-15-053

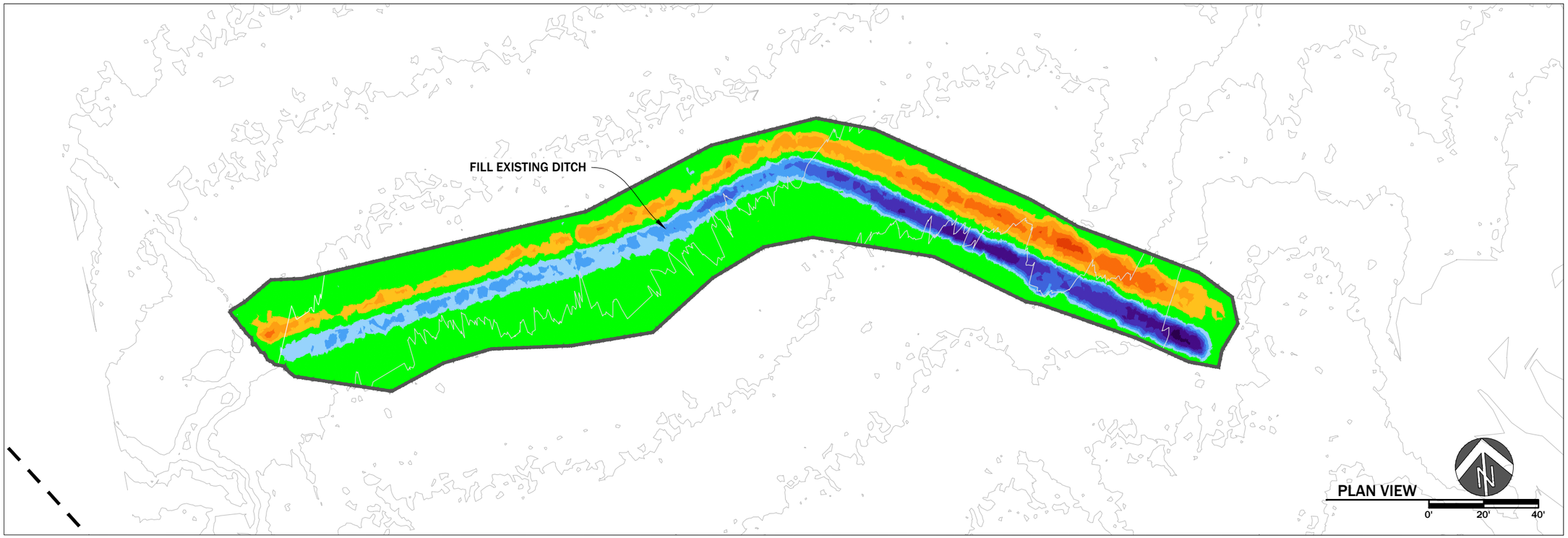
SHEET NUMBER

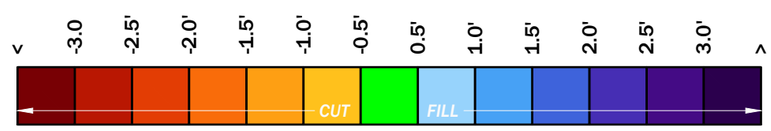
5.10

EARTHWORK VOLUMES

LOCATION	CUT (CY)	FILL (CY)	NET (CY)
DITCH FILL	132	176	**44 (F)**

NOTE: REPORTED VOLUMES ARE NEATLINE





EXISTING GROUND COMPARED TO PROPOSED DESIGN SURFACE

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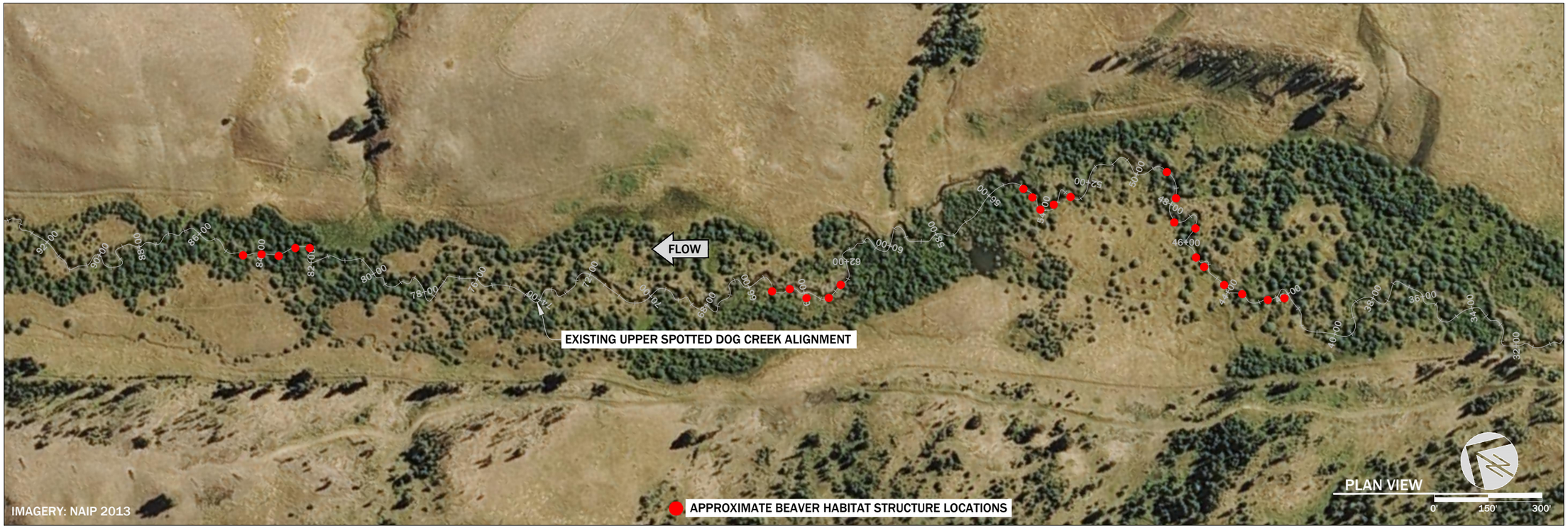
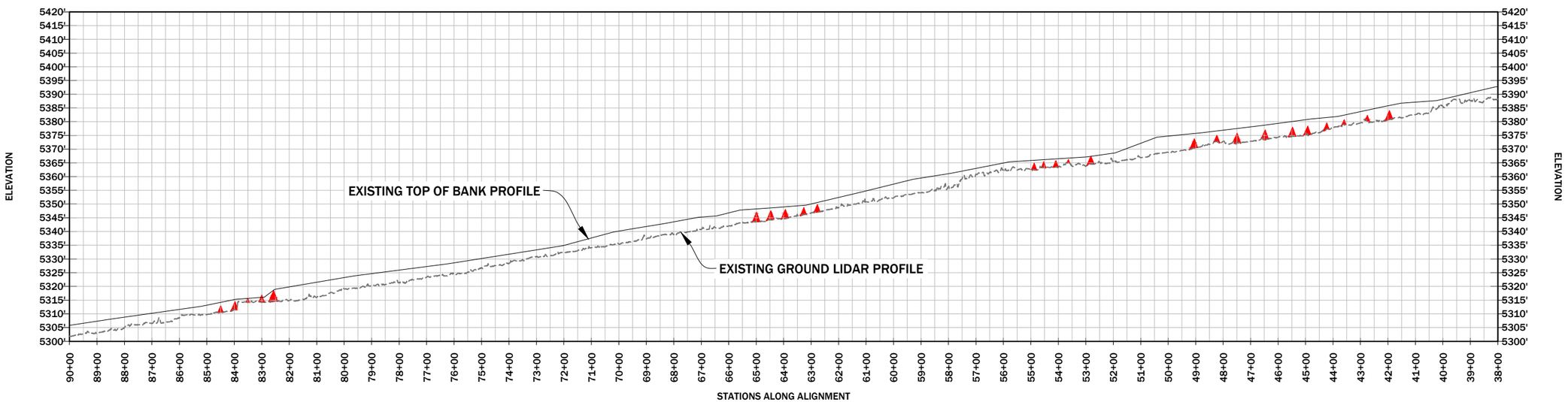
GRADING PLAN
UPPER SPOTTED DOG CREEK
NEAR AVON, MONTANA

NO.	DATE	BY	DESCRIPTION	CHK
1	3-11-16	NW	DESIGN	MD
2	1-02-20	NW	DESIGN REVISIONS	MD

PROJECT NUMBER
RDG-15-053

SHEET NUMBER
5.11





▲ APPROXIMATE BEAVER HABITAT STRUCTURE LOCATIONS (NOTE: EXACT STRUCTURE LOCATIONS WILL BE DETERMINED IN THE FIELD AND STAKED OUT BY A REPRESENTATIVE OF GEUM CONSULTING, INC.)

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BEAVER HABITAT STRUCTURE PLAN

UPPER SPOTTED DOG CREEK

NEAR AVON, MONTANA

NO.	DATE	BY	DESCRIPTION	CHK
1	3-11-16	NW	DESIGN	MD
2	1-02-20	NW	DESIGN REVISIONS	MD
3	2-10-20	NW	DESIGN REVISIONS	MD

PROJECT NUMBER
RDG-15-053

SHEET NUMBER
5.12