

FRENCH GULCH REVEGETATION - PLANTING SPECIFICATION AND DETAILS

FRENCH GULCH REVEGETATION - PLANTING SPECIFICATION AND DETAILS															
REVEGETATION TYPE <sup>1</sup>				Herbaceous Plugs - Wetland Depressions											
RESTORATION AREA				1			2			3 & 4			5		
TREATMENT AREA (Acre) <sup>2</sup>				0.27			0.20			0.00			0.00		
TREATMENT AREA (Sq. Ft.)				11,662			8,687			0			0		
Genus	Species	Common name	Size	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total
Carex	utriculata	Northwest Territory Sedge	10 Cu. in.	25%	3	324	25%	3	241	25%	3	0	25%	3	0
Carex	pellita	Woolly Sedge	10 Cu. in.	10%	3	130	10%	3	97	10%	3	0	10%	3	0
Carex	nebrascensis	Nebraska Sedge	10 Cu. in.	15%	3	194	15%	3	145	15%	3	0	15%	3	0
Glyceria	grandis	American Manna Grass	10 Cu. in.	15%	3	194	15%	3	145	15%	3	0	15%	3	0
Juncus	balticus	Baltic Rush	10 Cu. in.	20%	3	259	20%	3	193	20%	3	0	20%	3	0
Scirpus	microcarpus	Red-Tinge Bulrush	10 Cu. in.	15%	3	194	15%	3	145	15%	3	0	15%	3	0
TOTAL				100		1,296	100		965	100%		0	100%		0

FRENCH GULCH REVEGETATION - PLANTING SPECIFICATION AND DETAILS															
REVEGETATION TYPE <sup>3</sup>				Containerized Shrubs - Streambank Zone											
RESTORATION AREA				1			2			3 & 4			5		
TREATMENT AREA (Acre)				0.31			0.59			0.11			0.10		
TREATMENT AREA (Sq. Ft.)				13,680			25,800			4,901			4,196		
Genus	Species	Common name	Size	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total
Alnus	incana	White Alder	1 gallon	30%	10	41	30%	10	77	30%	10	15	30%	10	13
Cornus	alba	Red Osier	1 gallon	20%	10	27	20%	10	52	20%	10	10	20%	10	8
Betula	occidentalis	Water Birch	1 gallon	20%	10	27	20%	10	52	20%	10	10	20%	10	8
Salix	drummondiana	Drummond's Willow	1 gallon	30%	10	41	30%	10	77	30%	10	15	30%	10	13
Total				100		137	100%		258	100%		49	100%		42

FRENCH GULCH REVEGETATION - PLANTING SPECIFICATION AND DETAILS															
REVEGETATION TYPE <sup>4</sup>				Containerized Shrubs - Floodplain Zone											
RESTORATION AREA				1			2			3 & 4			5		
TREATMENT AREA (Acre) <sup>5</sup>				0.48			0.33			0.07			0.10		
TREATMENT AREA (Sq. Ft.)				21,024			14,163			2,962			4,196		
Genus	Species	Common name	Size	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total
Alnus	incana	White Alder	1 gallon	10%	10	21	10%	10	14	10%	10	3	10%	10	4
Cornus	alba	Red Osier	1 gallon	30%	10	63	30%	10	63	30%	10	9	30%	10	13
Betula	occidentalis	Water Birch	1 gallon	30%	10	63	30%	10	63	30%	10	9	30%	10	13
Salix	drummondiana	Drummond's Willow	1 gallon	30%	10	63	30%	10	63	30%	10	9	30%	10	13
Total				100%		210	100%		203	100%		30	100%		42

FRENCH GULCH REVEGETATION - PLANTING SPECIFICATION AND DETAILS															
REVEGETATION TYPE				Mature Willow Transplants											
RESTORATION AREA				1			2			3 & 4			5		
TREATMENT AREA (Acre)				0.48			0.33			0.07			0.10		
TREATMENT AREA (Sq. Ft.)				21,024			14,163			2,962			4,196		
Genus	Species	Common name	Size	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total	percent	Spacing (Ft.)	total
Salix	spp.	Willows	Transplant	NA	25	34	NA	25	23	NA	25	5	NA	25	7

TABLE SUPERSCRIPTS

- <sup>1</sup> SEE PLANTING SPECIFICATIONS AND DETAILS NOTE 2 (SHEET D-5)
- <sup>2</sup> SEE PLANTING SPECIFICATIONS AND DETAILS NOTE 2 (SHEET D-5)
- <sup>3</sup> SEE PLANTING SPECIFICATIONS AND DETAILS NOTE 3 (SHEET D-5)
- <sup>4</sup> SEE PLANTING SPECIFICATIONS AND DETAILS NOTE 4 (SHEET D-5)
- <sup>5</sup> SEE PLANTING SPECIFICATIONS AND DETAILS NOTE 5 (SHEET D-5)

FRENCH GULCH REVEGETATION - SEEDING

Genus	Species	Common name	% of Mix	PLS Lbs/Acre	Seeds/Sq Ft
Beckmannia	syzigachne	American sloughgrass	5%	0.5	13
Bromus	ciliatus	fringed brome	38%	3.8	21
Calamagrostis	canadensis	bluejoint reedgrass	5%	0.5	26
Carex	nebrascensis	Nebraska sedge	10%	1	12
Carex	utriculata	Northwest Terrority Sedge	15%	1.5	15
Deschampsia	cespitosa	tufted hairgrass	10%	1	34
Eleocharis	palustris	creeping spikerush	5%	0.5	7
Glyceria	grandis	fowl mannagrass	5%	0.5	15
Juncus	effusus	common rush	5%	0.5	11
Poa	palustris	fowl bluegrass	2%	0.2	14
			100%	10	169

REVEGETATION TYPE	Broadcast Seeding - Wetlands / Streambanks			
RESTORATION AREA	1	2	3	4
TREATMENT AREA (Acre)	0.52	0.99	0.30	0.14
TREATMENT AREA (Sq. Ft.)	22651	43000	13250	6080
TOTAL LBS	5	10	3	1

Genus	Species	Common name	% of Mix	PLS Lbs/Acre	Seeds/Sq Ft
Bromus	ciliatus	fringed brome	5%	0.5	2.71
Calamagrostis	canadensis	bluejoint reedgrass	5%	0.5	26.06
Deschampsia	cespitosa	tufted hairgrass	5%	0.5	17.22
Elymus	trachycaulus ssp. trachycaulus	slender wheatgrass	47%	4.7	17.16
Elymus	glaucus	Blue wildrye	25%	2.5	7.72
Geranium	viscosissimum	wild geranium	10%	1	1.19
Juncus	balticus	Baltic rush	1%	0.1	25.02
Poa	compressa	Canada bluegrass	2%	0.2	14.49
			100%	10.00	111.56

REVEGETATION TYPE	Broadcast Seeding - Floodplain			
RESTORATION AREA	1	2	3	4
TREATMENT AREA (Acre)	1.21	0.81	0.17	0.12
TREATMENT AREA (Sq. Ft.)	52,559	35,408	7,223	5,246
TOTAL LBS	12	8	2	1

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VERIFY SCALE! THESE PRINTS MAY BE REDUCED. LINE BELOW MEASURES ONE INCH ON ORIGINAL DRAWING. _____ INCHES MODIFY SCALE ACCORDINGLY!	REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				NO.	DESCRIPTION	DATE	BY													 MORRISON MAIERLE, INC. An Employee-Owned Company Engineers Surveyors Scientists Planners 3011 Palmer St. Missoula, MT 59808 Phone: (406) 542-8880 Fax: (406) 542-4801	DRAWN BY: CRH DSGN. BY: MDB APPR. BY: RJA DATE: *** Q.C. REVIEW BY: *** DATE: ***	FRENCH CREEK RESTORATION IN FRENCH GULCH DEER LODGE COUNTY MONTANA		PROJECT NUMBER 5002.004
	NO.	DESCRIPTION	DATE	BY																					
PLANTING SPECIFICATIONS TABLES		SHEET NUMBER ...	DRAWING NUMBER <b>D-4</b>																						

PLANTING SPECIFICATION AND DETAILS

- REVEGETATION FOR THE CONSTRUCTED WETLAND DEPRESSION WILL INCLUDE A TREATMENT OF HERBACEOUS PLUGS AND BROADCAST SEEDING OF A WETLAND MIX. HERBACEOUS PLUGS PER SPECIES, SIZE, AND SPACING ARE SPECIFIED IN THE TABLE. THESE PLUGS WILL BE PLANTED AROUND THE FRINGE OF THE WETLAND DEPRESSION AND WITHIN AREAS THAT WILL RECEIVE SHALLOW INUNDATION. SPECIES WILL BE PLANTED IN EITHER A FRINGE OR INUNDATED AREAS BASED ON SPECIES AND ADAPTION TO HYDROLOGY. A WETLAND SPECIALIST FAMILIAR WITH THE DIFFERENT SPECIES WILL PROVIDE OVERSIGHT FOR PROPER PLACEMENT OF PLUG PLANTINGS. PLUGS WILL BE PLANTED WITH HODAD TOOL OR DIBBLE BAR.
- THE TREATMENT AREA AS SPECIFIED IN THE TABLE IS BASED ON THE AREA OF CONSTRUCTED WETLAND DEPRESSIONS. RESTORATION AREA 1 AND 2 ARE THE ONLY AREAS PROPOSED FOR CONSTRUCTION OF WETLAND DEPRESSIONS WITHIN THE FLOODPLAIN.
- REVEGETATION ALONG THE STREAMBANK ZONE WILL INCLUDE PLANTING OF CONTAINERIZED WOODY SPECIES AND ALSO SEEDING OF A WETLAND MIX. WOODY PLANTINGS WILL CONSIST OF SPECIES SPECIFIED IN THE TABLE WITH CONTAINER SIZE OF 1 GALLON OR SIMILAR SIZE. WOODY PLANTINGS WILL BE PROTECTED WITH BROWSE CONTROL NETTING TO PROVIDE PROTECTION FROM WILDLIFE BROWSE.
- REVEGETATION FOR THE FLOODPLAIN ZONE WILL INCLUDE PLANTING OF CONTAINERIZED WOODY SPECIES AND SEEDING OF MIX ADAPTED TO FLOODPLAIN AREAS. WOODY PLANTINGS WILL CONSIST OF SPECIES SPECIFIED IN THE TABLE WITH CONTAINER SIZE OF 1 GALLON OR SIMILAR SIZE. WOODY PLANTINGS WILL BE PROTECTED WITH BROWSE CONTROL NETTING TO PROVIDE PROTECTION FROM WILDLIFE BROWSE.
- THE TREATMENT AREA WAS CALCULATED BASED ON MOSAIC OF PLANTING LOCATIONS THROUGHOUT THE FLOODPLAIN AREA. WOODY PLANTINGS WILL BE CLUMPED IN GROUPS AND PLANTED AT HIGHER DENSITIES IN THESE AREAS. APPROXIMATELY 40 TO 60% OF THE RECONSTRUCTED FLOODPLAIN WILL BE PLANTED WITH CLUMPS OF WOODY SPECIES. THE REMAINING AREAS WILL EXIST AS GRASS DOMINATED MEADOW WITHIN THE FLOODPLAIN.

WILLOW COLLECTION

- COLLECT WILLOW CUTTINGS DURING DORMANT SEASON AND STORE AS PER INSTRUCTIONS BELOW.
- REMOVE ALL LATERAL SIDE BRANCHES FROM THE CUTTINGS WITH HAND PRUNERS. TAKE CUTTINGS FROM STEMS THAT ARE AT LEAST 2 YEARS OLD WITH A DIAMETER OF 3/4 TO 1 INCH. TAKE CUTTINGS FROM HEALTHY, DISEASE AND INSECT-FREE DONOR PLANTS. USING HAND PRUNERS CUT STAKES THAT ARE NO LESS THAN 3 FEET IN LENGTH. IMMEDIATELY FOLLOWING HARVESTING, BUNDLE ALL WILLOW CUTTINGS FOR COUNTING AND DISTRIBUTION PURPOSES.
- IMMEDIATELY SUBMERGE THE ENTIRE STEM OF ALL CUTTINGS IN WATER UNTIL PLANTING. DO NOT LET THEM DRY OUT. INSTALL WILLOW CUTTINGS IN THE FALL OR EARLY SPRING AS SOON AS PRACTICAL FOLLOWING COLLECTION.
- PLACE CUTTINGS ON STREAM BANKS JUST ABOVE AND BELOW BANKFULL DISCHARGE WHERE CUTTING WILL BE IN EITHER SATURATED SOIL DURING LOW WATER OR IN CONTACT WITH GROUNDWATER DURING THE GROWING SEASON.
- TYPICAL SPACING FOR LIVE WILLOW CUTTINGS WILL BE APPROXIMATELY TEN CUTTINGS PER LINEAL FOOT. INTERSPERSE WETLAND GRASS SEED MIX WITHIN WILLOW CUTTINGS AND UPSLOPE OF WETTED CHANNEL WITHIN FLOODPLAIN / RIPARIAN CORRIDOR DISTURBANCE AREA.

LIVE TRANSPLANT

- SELECTIVELY HARVEST WOODY VEGETATION AS TRANSPLANT STOCK FROM ROBUST, DENSE, UNDISTURBED AREAS WITHIN THE NEARBY FLOODPLAIN BY GENTLY REMOVING THE ROOT MASS (BALL) WITH SUITABLE CONSTRUCTION EQUIPMENT (E.G. EXCAVATOR WITH THUMB ATTACHMENT, ETC.). ALL TRANSPLANTED STOCK SHOULD BE OVERSIGHTED BY A VEGETATION SPECIALIST TO LOCATE APPROPRIATE STOCK.

CONTAINERIZED PLANTS

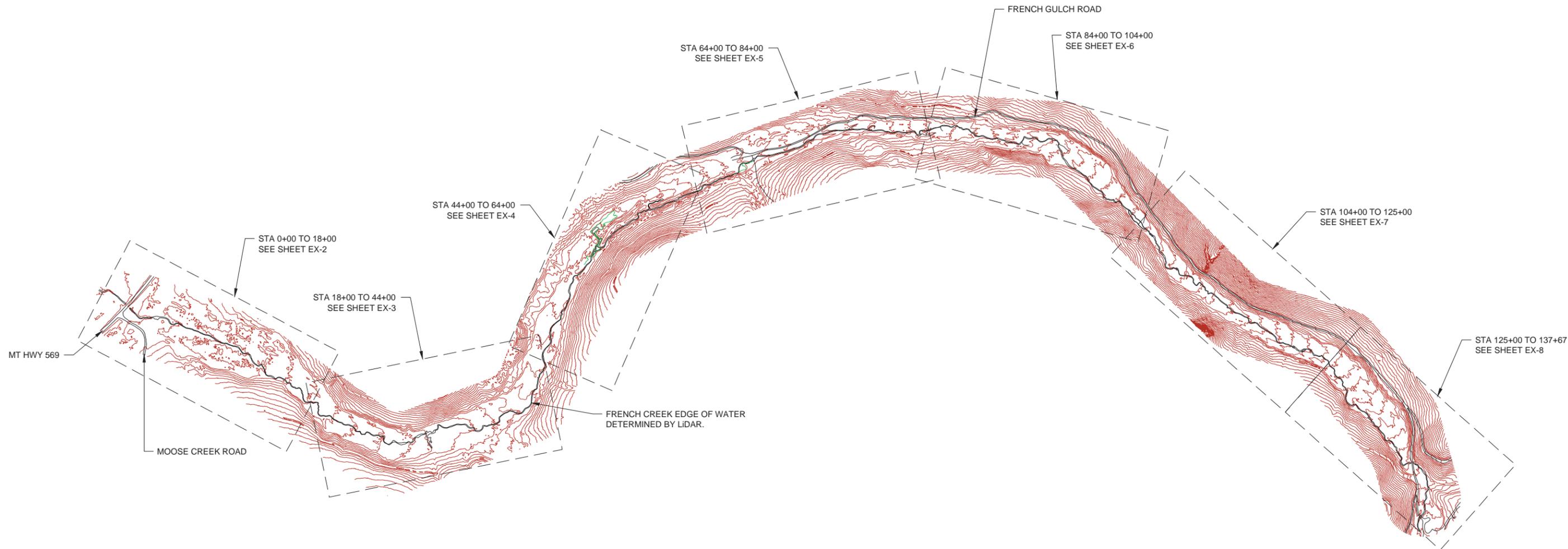
- APPROPRIATELY AMEND SOIL TO CREATE SUITABLE GROWTH MEDIA IN AREAS WHERE CONTAINER STOCK AND BROADCAST SEEDING METHODS WILL BE UTILIZED.
- PLANT CONTAINER STOCK WITHIN DESIGNATED AREAS WITH SPACING RANGING FROM 5 TO 10 FEET.
- FOLLOWING INSTALLATION, THOROUGHLY WATER NEWLY INSTALLED PLANTING. THEREAFTER, WATER THE PLANTED AREA PERIODICALLY TO MAINTAIN SOIL MOISTURE CONDUCIVE TO ESTABLISHING ROOT GROWTH.

GENERAL AREAS

- SEE TYPICAL CROSS SECTION DETAIL FOR GENERAL LOCATIONS OF TYPE 1, TYPE 2, OR TYPE 3 REVEGETATION.
- CONSTRUCTION ACCESS POINTS WILL BE RECLAIMED AND RESEEDED AS DIRECTED BY THE ENGINEER.
- ALL VEGETATION REMOVED DURING EXCAVATION SHALL BE STOCKPILED. SPREAD STOCKPILED SLASH ON FINISHED SLOPES AND RECONTOURED FLOODPLAIN AT THE DIRECTION OF THE ENGINEER.

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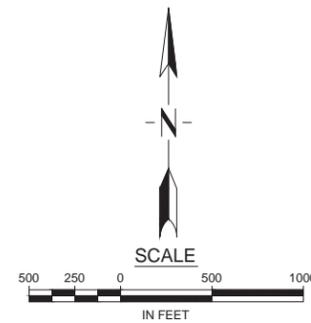
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	NO.	DESCRIPTION	DATE	BY																							
<p>PLANTING SPECIFICATIONS NOTES</p>	<p>SHEET NUMBER ...</p> <p>DRAWING NUMBER <b>D-5</b></p>																										



**NOTES:**

1. SURFACE CONTOURS CREATED FROM DIGITAL TERRAIN MODEL BY LIDAR METHODS FROM ROBERT PECCIA & ASSOCIATES, INC.
2. HORIZONTAL DATUM = NAD83 MONTANA STATE PLANE, VERTICAL DATUM = NAVD88
3. CONTOUR INTERVAL = 5 FT

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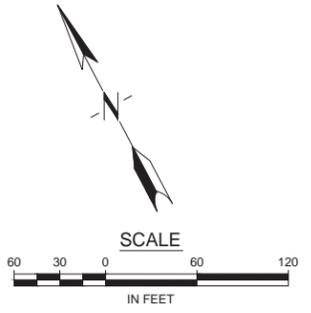
FRENCH CREEK RESTORATION IN FRENCH GULCH	
DEER LODGE COUNTY	MONTANA
EXISTING CONDITIONS INDEX MAP	

PROJECT NUMBER 5002.004
SHEET NUMBER ...
DRAWING NUMBER <b>EX-1</b>



- LEGEND**
- MORRISON-MAIERLE, INC. THALWEG SURVEY POINT
  - MORRISON-MAIERLE, INC. SURVEY CROSS SECTION
  - EXISTING EDGE OF WATER DETERMINED BY LIDAR
  - EXISTING POOL
  - EXISTING LARGE WOODY DEBRIS
  - - - - - APPROXIMATE WETLAND DELINEATION

- NOTES:**
1. SURFACE CONTOURS CREATED FROM DIGITAL TERRAIN MODEL BY LIDAR METHODS FROM ROBERT PECCIA & ASSOCIATES, INC.
  2. HORIZONTAL DATUM = NAD83 MONTANA STATE PLANE, VERTICAL DATUM = NAVD88
  3. CONTOUR INTERVAL = 1 FT
  4. GEOMORPHIC AND WETLANDS DATA WERE GATHERED LATE FALL 2013 WHEN SNOW COVERED MUCH OF PROJECT AREA.
  5. SOME LOCATIONS OF SURVEYED THALWEG AND LIDAR EDGE OF WATER VARY.
  6. SOME PHOTOGRAPHS ARE FROM OCTOBER 2013 SITE VISIT.



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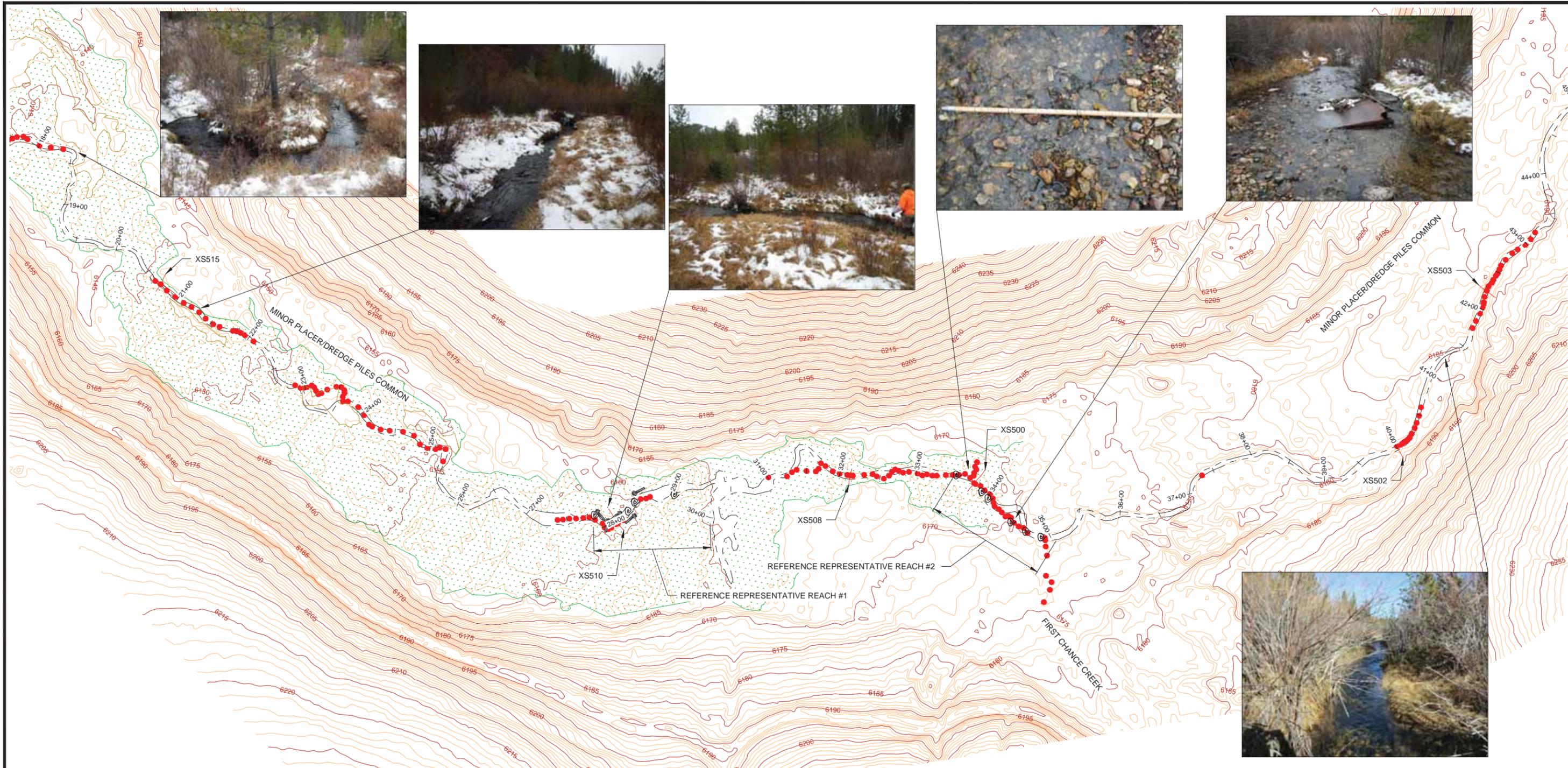
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<small>DRAWN BY: CRH</small>	<small>PROJECT NUMBER</small> 5002.004
<small>DSGN. BY: MDB</small>	<small>SHEET NUMBER</small> ---
<small>APPR. BY: RJA</small>	<small>DRAWING NUMBER</small> <b>EX-2</b>
<small>DATE: ***</small>	
<small>Q.C. REVIEW BY: ***</small>	
<small>DATE: ***</small>	

**FRENCH CREEK RESTORATION IN FRENCH GULCH**

DEER LODGE COUNTY      MONTANA

EXISTING CONDITIONS STA 0+00 TO 18+00



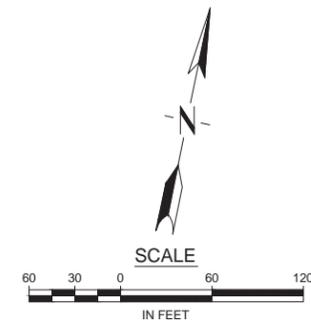
**NOTES:**

1. SURFACE CONTOURS CREATED FROM DIGITAL TERRAIN MODEL BY LIDAR METHODS FROM ROBERT PECCIA & ASSOCIATES, INC.
2. HORIZONTAL DATUM = NAD83 MONTANA STATE PLANE, VERTICAL DATUM = NAVD88
3. CONTOUR INTERVAL = 1 FT
4. GEOMORPHIC AND WETLANDS DATA WERE GATHERED LATE FALL 2013 WHEN SNOW COVERED MUCH OF PROJECT AREA.
5. SOME LOCATIONS OF SURVEYED THALWEG AND LIDAR EDGE OF WATER VARY.
6. SOME PHOTOGRAPHS ARE FROM OCTOBER 2013 SITE VISIT.

**LEGEND**

- MORRISON-MAIERLE, INC. THALWEG SURVEY POINT
- MORRISON-MAIERLE, INC. SURVEY CROSS SECTION
- EXISTING EDGE OF WATER DETERMINED BY LIDAR
- ⊙ EXISTING POOL
- EXISTING LARGE WOODY DEBRIS
- ⋯ APPROXIMATE WETLAND DELINEATION

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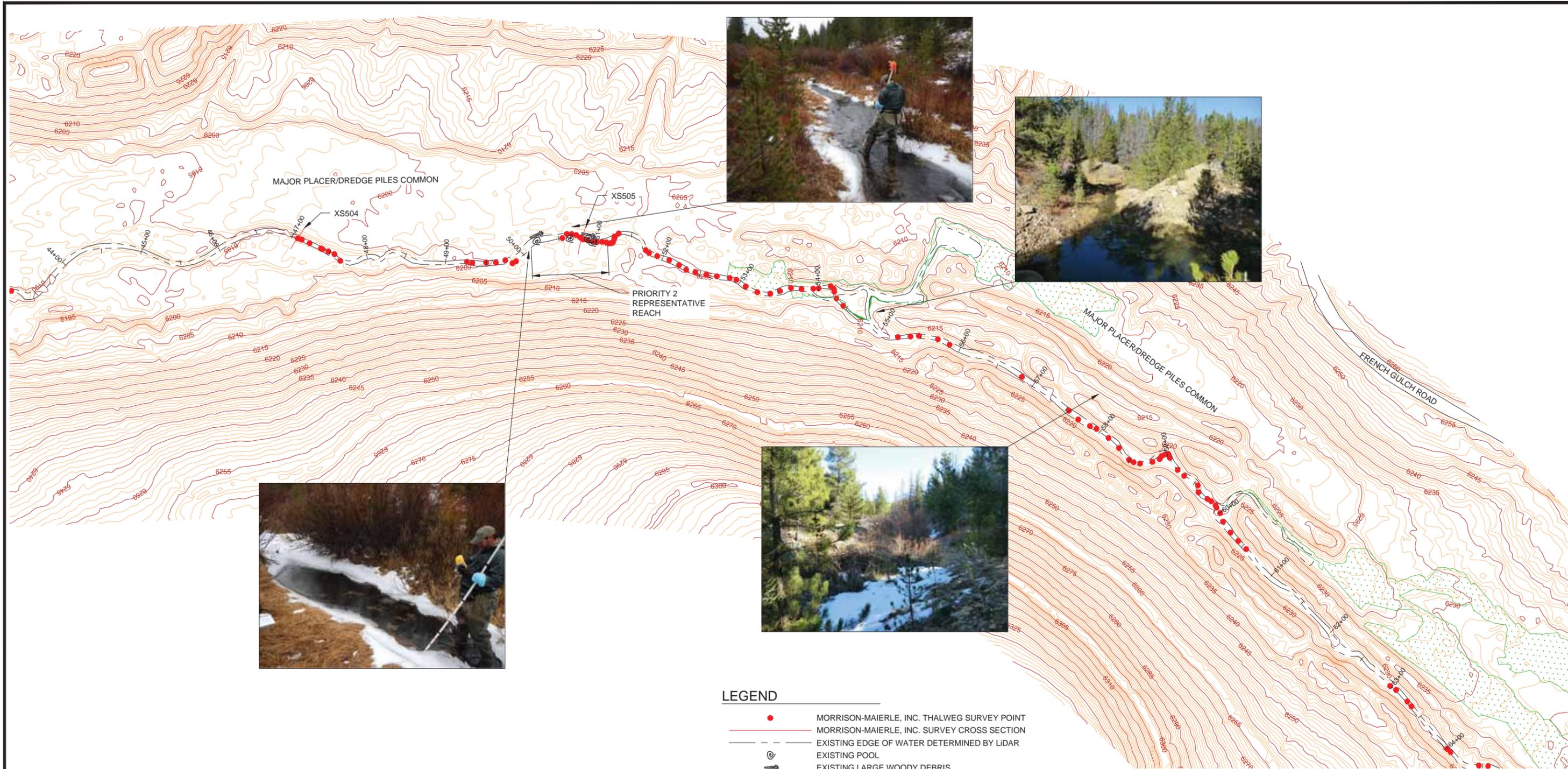


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DATE: \*\*\*  
Q.C. REVIEW BY: \*\*\*  
DATE: \*\*\*

FRENCH CREEK RESTORATION IN FRENCH GULCH  
DEER LODGE COUNTY MONTANA  
EXISTING CONDITIONS STA 18+00 TO 44+00

PROJECT NUMBER 5002.004  
SHEET NUMBER ...  
DRAWING NUMBER **EX-3**

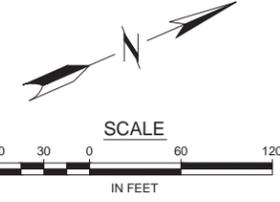


**LEGEND**

- MORRISON-MAIERLE, INC. THALWEG SURVEY POINT
- MORRISON-MAIERLE, INC. SURVEY CROSS SECTION
- EXISTING EDGE OF WATER DETERMINED BY LIDAR
- EXISTING POOL
- ↑ EXISTING LARGE WOODY DEBRIS
- APPROXIMATE WETLAND DELINEATION

**NOTES:**

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2. HORIZONTAL DATUM = NAD83 MONTANA STATE PLANE, VERTICAL DATUM = NAVD88
3. CONTOUR INTERVAL = 1 FT
4. GEOMORPHIC AND WETLANDS DATA WERE GATHERED LATE FALL 2013 WHEN SNOW COVERED MUCH OF PROJECT AREA.
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DATE: ***
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DATE: ***

FRENCH CREEK RESTORATION IN FRENCH GULCH	PROJECT NUMBER 5002.004
DEER LODGE COUNTY	SHEET NUMBER ---
MONTANA	DRAWING NUMBER <b>EX-4</b>
EXISTING CONDITIONS STA 44+00 TO 64+00	