APPENDIX J

Flood Plain Delineation

Flood Depth Legend			
Number	Max Depth (ft)	Min Depth (ft.)	Color
1	0.000	1.000	
2	1.000	2.000	
3	2.000	3.000	
4	3.000	4.000	
5	4.000	5.000	

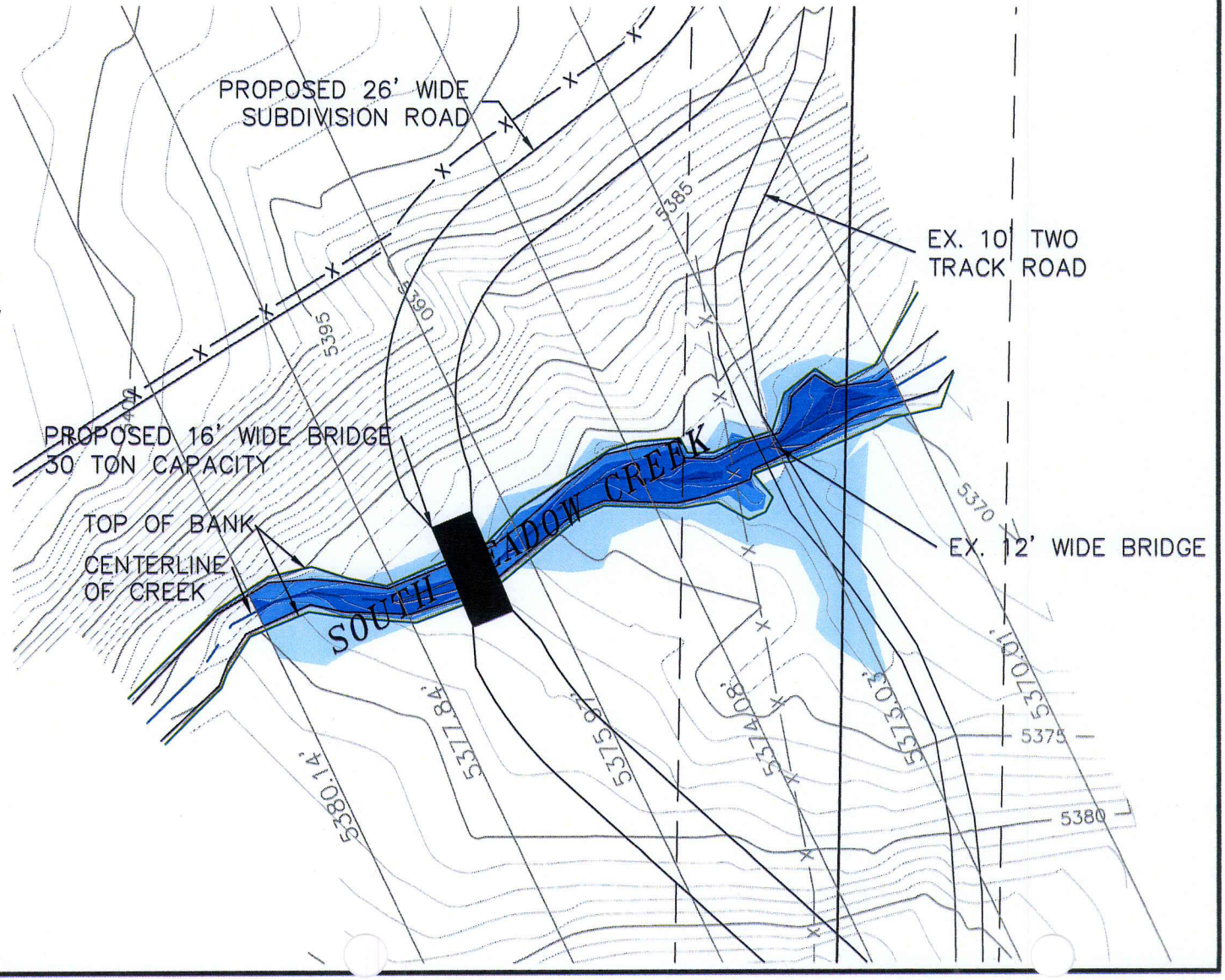
SOUTH MEADOW CREEK BRIDGE AT STONE RIDGE CLUB SUBDIVISION

LOCATED IN THE SE 1/4 OF SECTION 26, T. 4 S., R. 2 W. & THE NW 1/4 OF SECTION 35, T. 4 S., R. 2 W. OF P.M.M., MADISON COUNTY, MONTANA

LEGEND

5380.14' CROSS SECTION FLOOD ELEVATION

NOTE:
100 YEAR EVENT FLOOD ELEVATIONS WERE DETERMINED BY MODELING THE WATERCOURSE WITH HEC-RAS USING A 100-YEAR EVENT. THE FLOW RATE FOR THE 100-YEAR EVENT WAS DETERMINED USING THE USGS FLOOD FREQUENCY AND BASIN CHARICTERISTICS DATA METHOD.



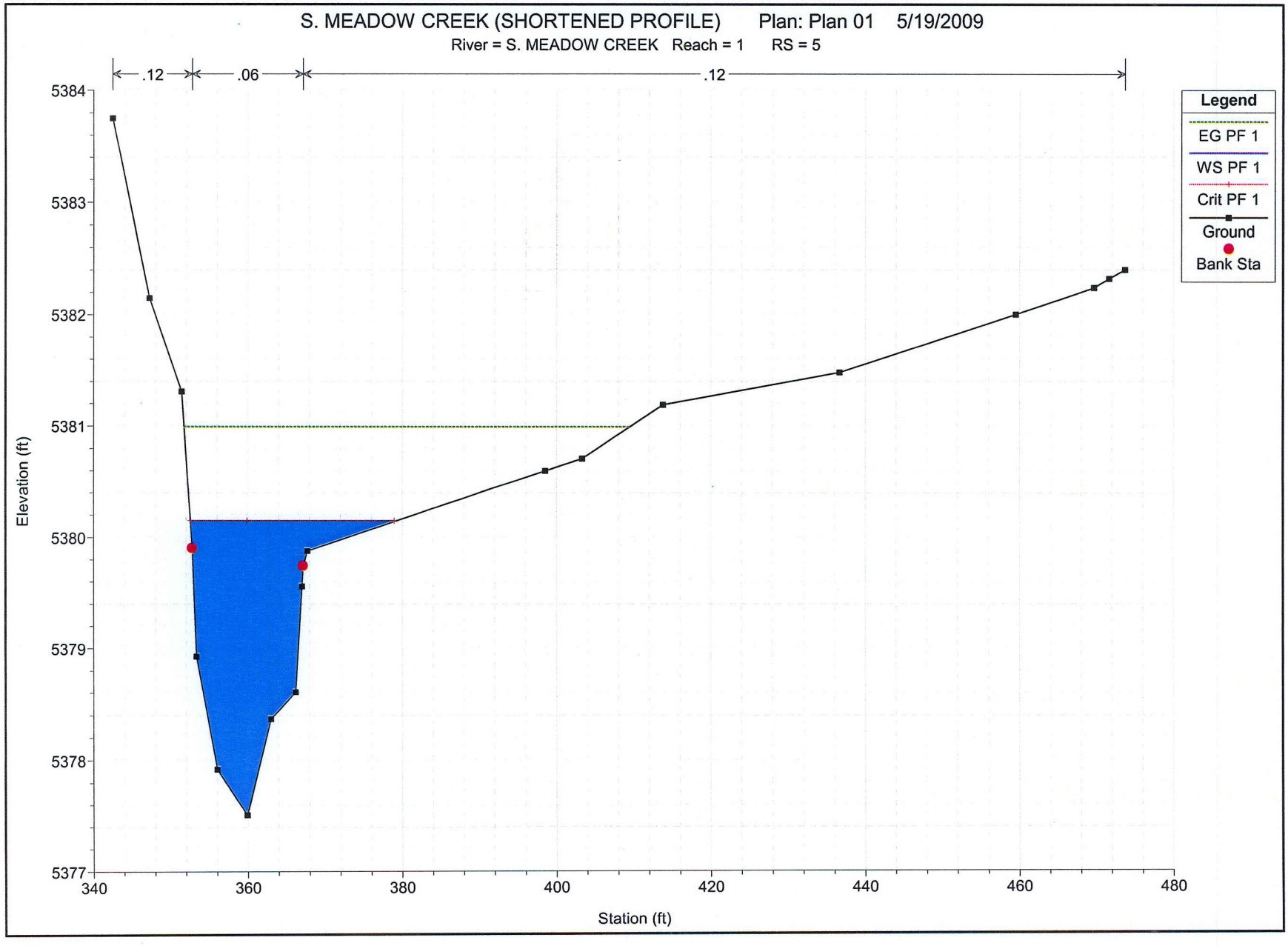
N

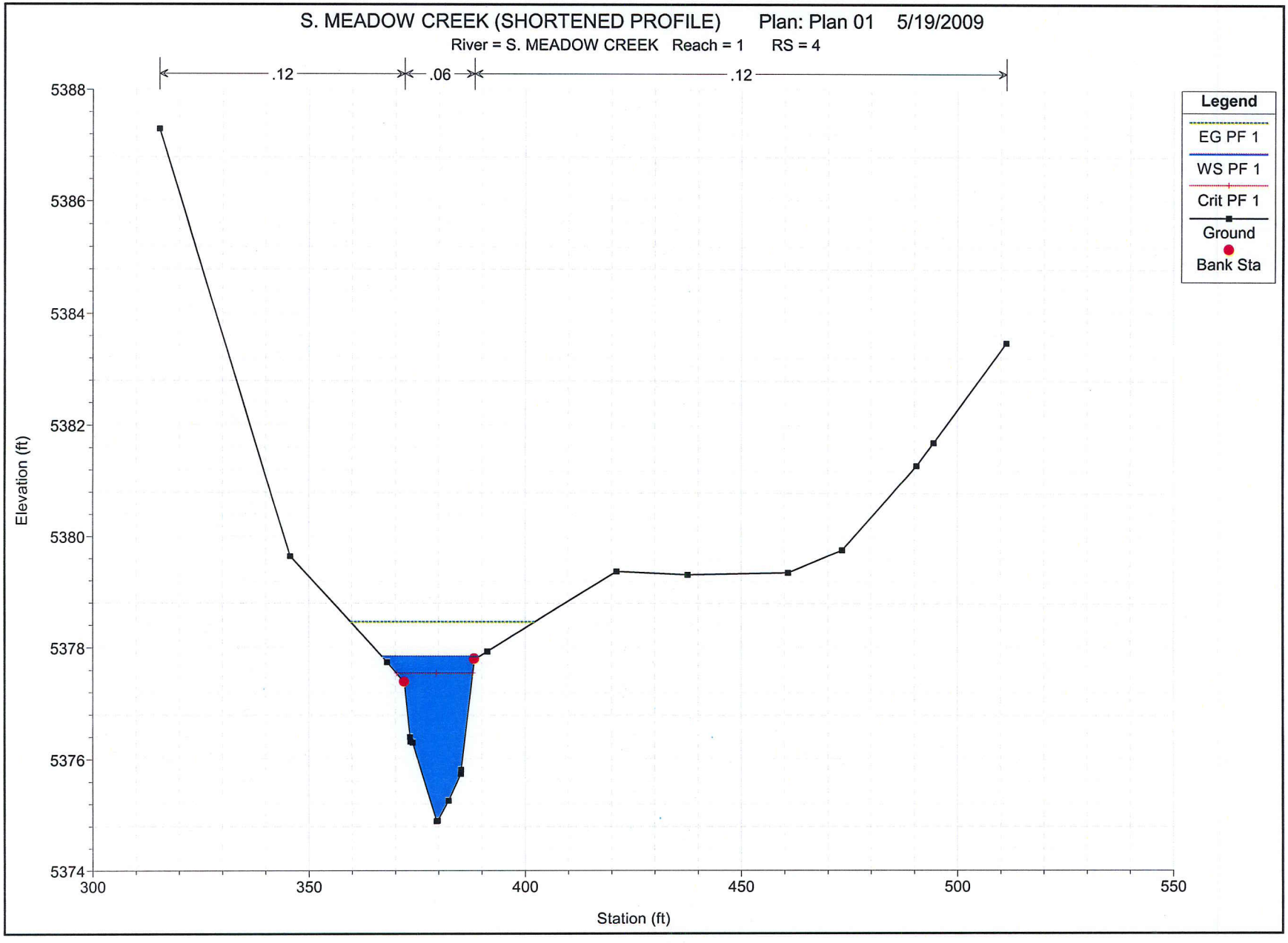
Scale In Feet
60 0 60
18 0 18
Scale In Meters

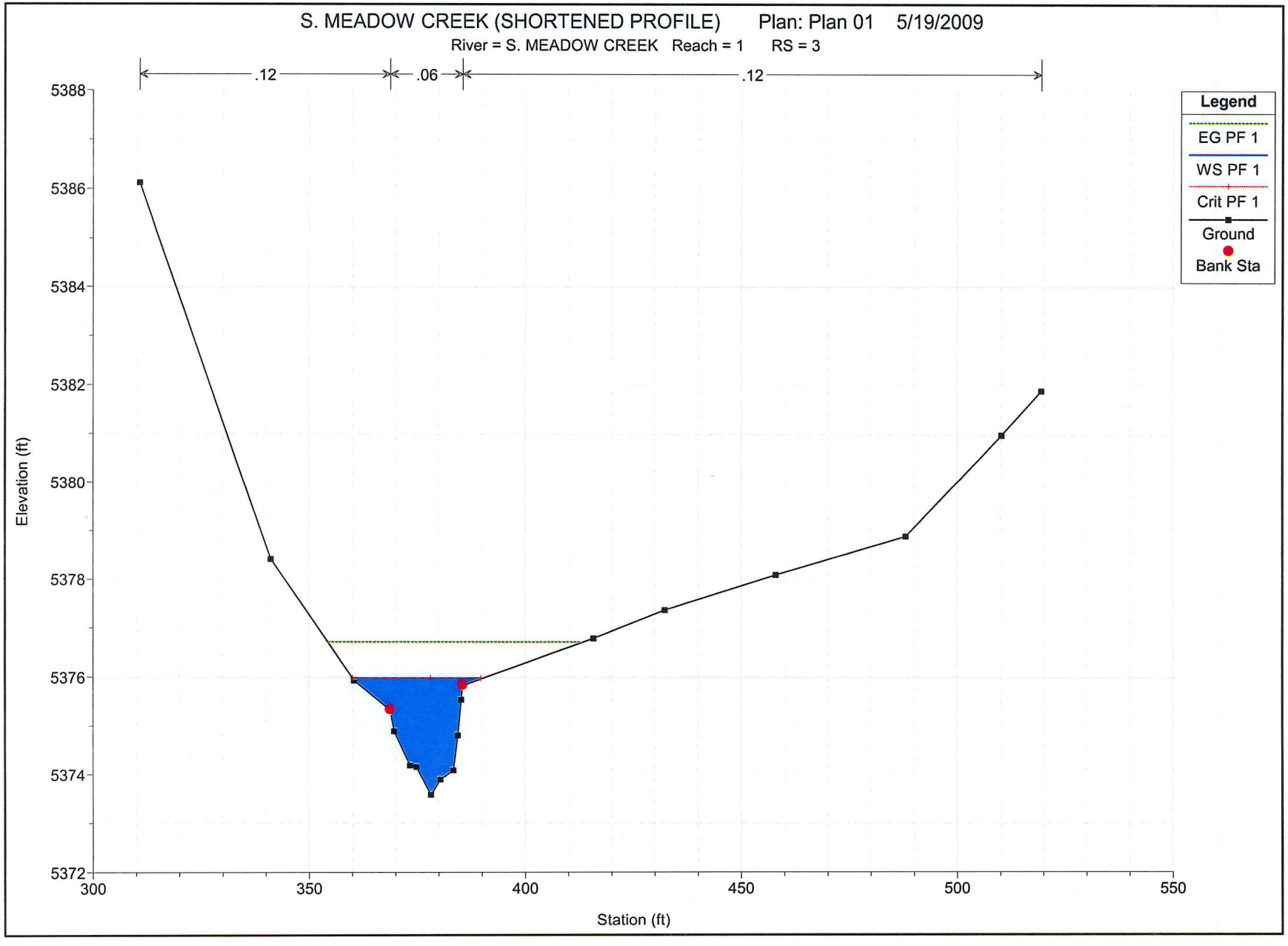
C&H Engineering and Surveying Inc.
1091 Stoneridge Drive • Bozeman, MT 59718
Phone (406) 587-1115 • Fax (406) 587-9768
www.chengineers.com • info@chengineers.com

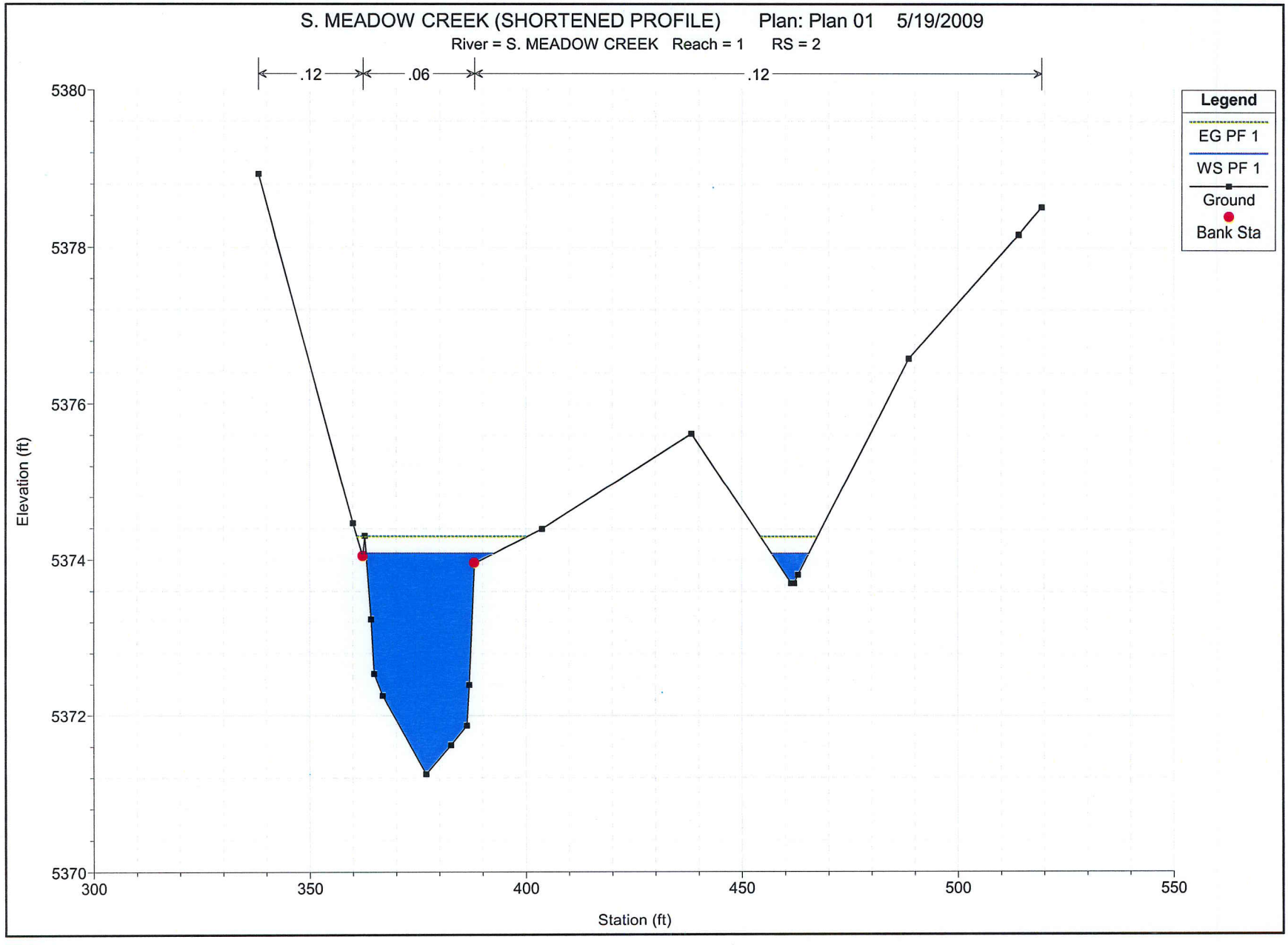
HEC-RAS Plan: Plan 01 River: S. MEADOW CREEK Reach: 1 Profile: PF 1

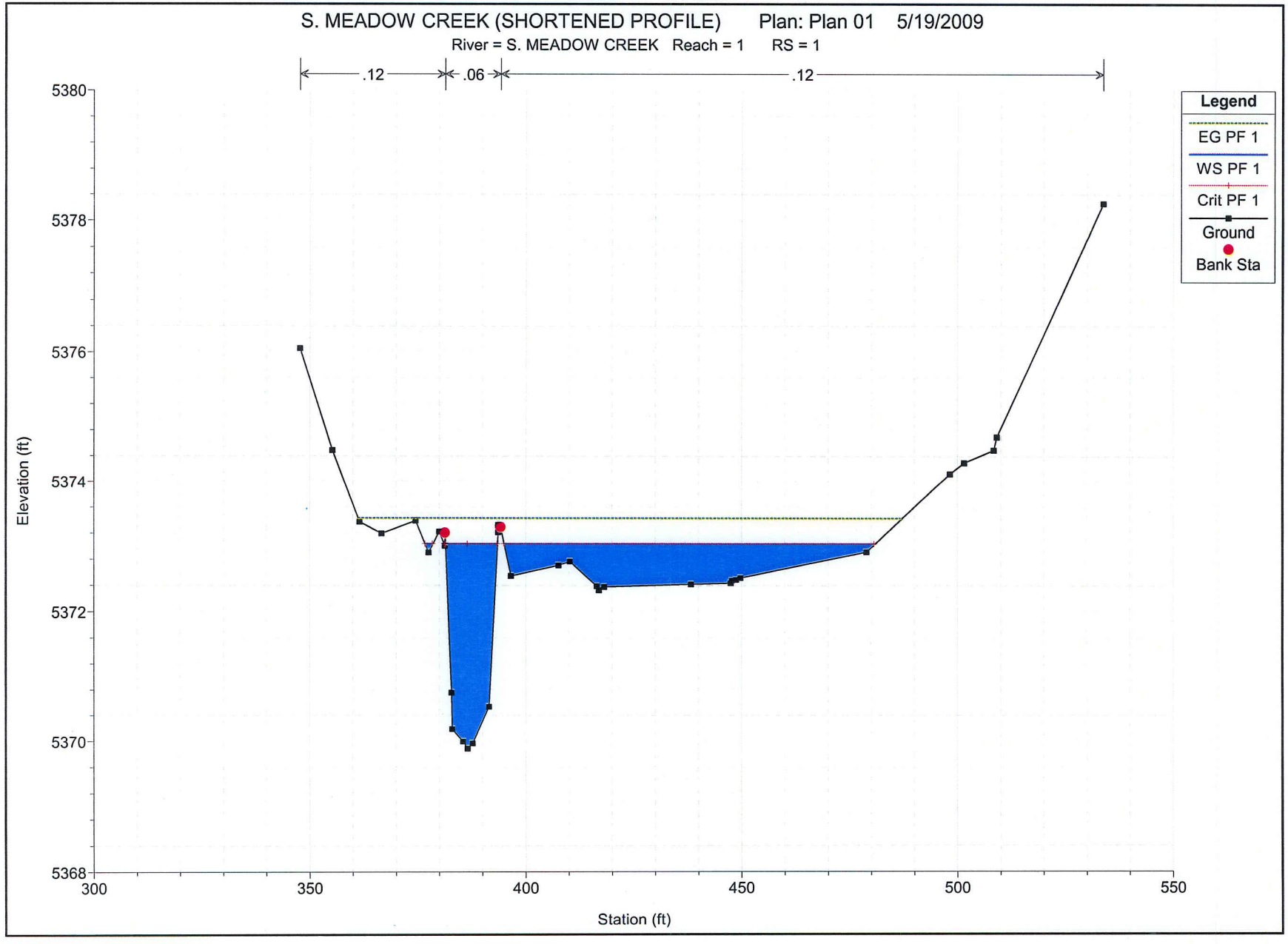
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
1	5	PF 1	204.00	5377.51	5380.14	5380.14	5380.99	0.042652	7.39	29.13	26.45	0.94
1	4	PF 1	204.00	5374.90	5377.84	5377.54	5378.46	0.029053	6.34	33.17	22.11	0.79
1	3	PF 1	204.00	5373.58	5375.97	5375.97	5376.71	0.041232	6.97	31.87	29.66	0.94
1	2	PF 1	204.00	5371.25	5374.08		5374.30	0.009114	3.77	55.82	37.97	0.45
1	1	PF 1	204.00	5369.89	5373.03	5373.03	5373.43	0.021288	5.62	67.45	99.51	0.64
1	0	PF 1	204.00	5367.57	5370.01	5369.84	5370.57	0.034995	5.97	34.83	31.99	0.86

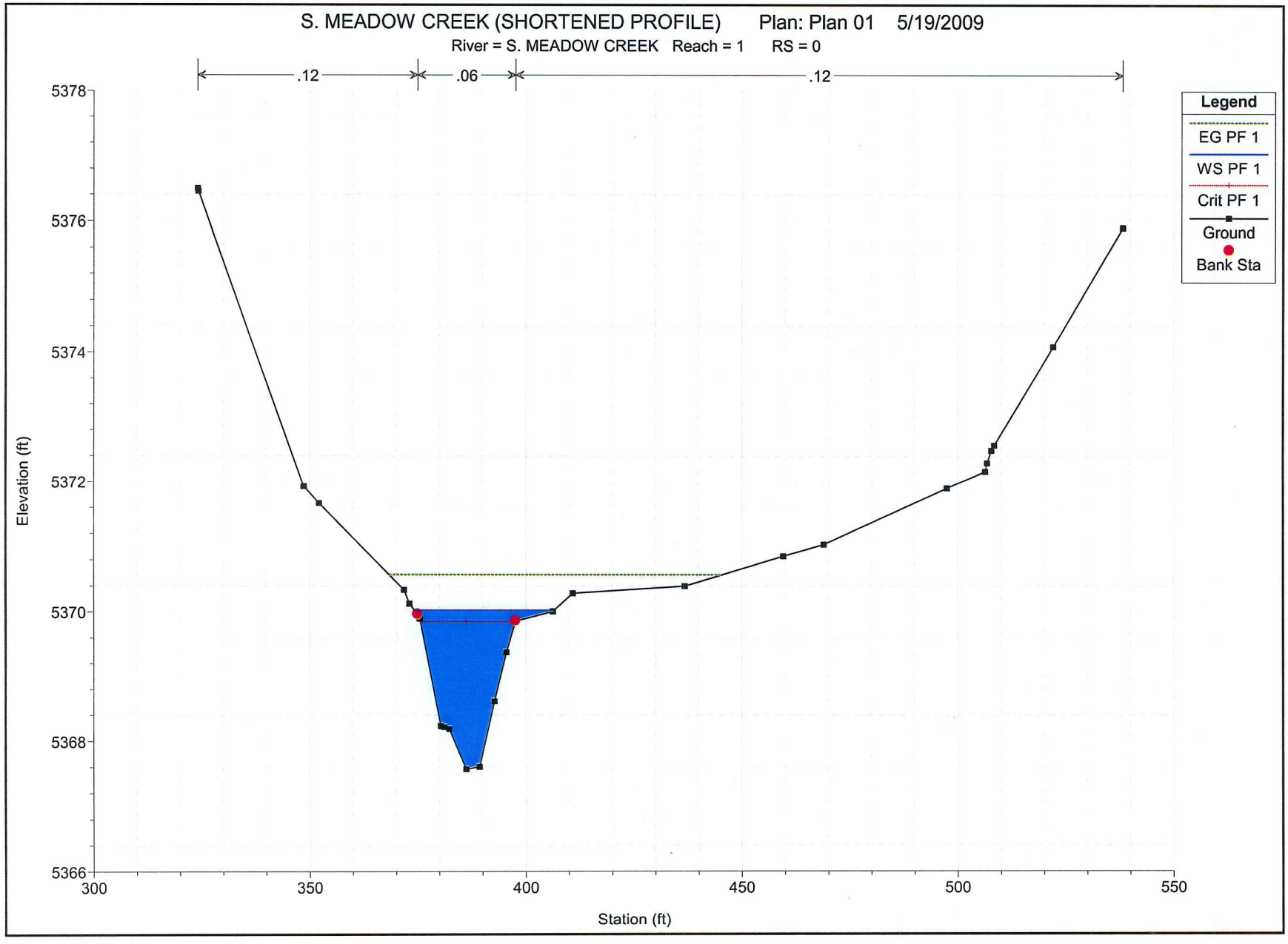

S. MEADOW CREEK (SHORTENED PROFILE) Plan: Plan 01 5/19/2009
River = S. MEADOW CREEK Reach = 1 RS = 5
.12
.06
.12
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
5384
5383
5382
5381
5380
5379
5378
5377
340
360
380
400
420
440
460
480
Station (ft)


S. MEADOW CREEK (SHORTENED PROFILE) Plan: Plan 01 5/19/2009
River = S. MEADOW CREEK Reach = 1 RS = 4
.12
.06
.12
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
5388
5386
5384
5382
5380
5378
5376
5374
300
350
400
450
500
550
Station (ft)

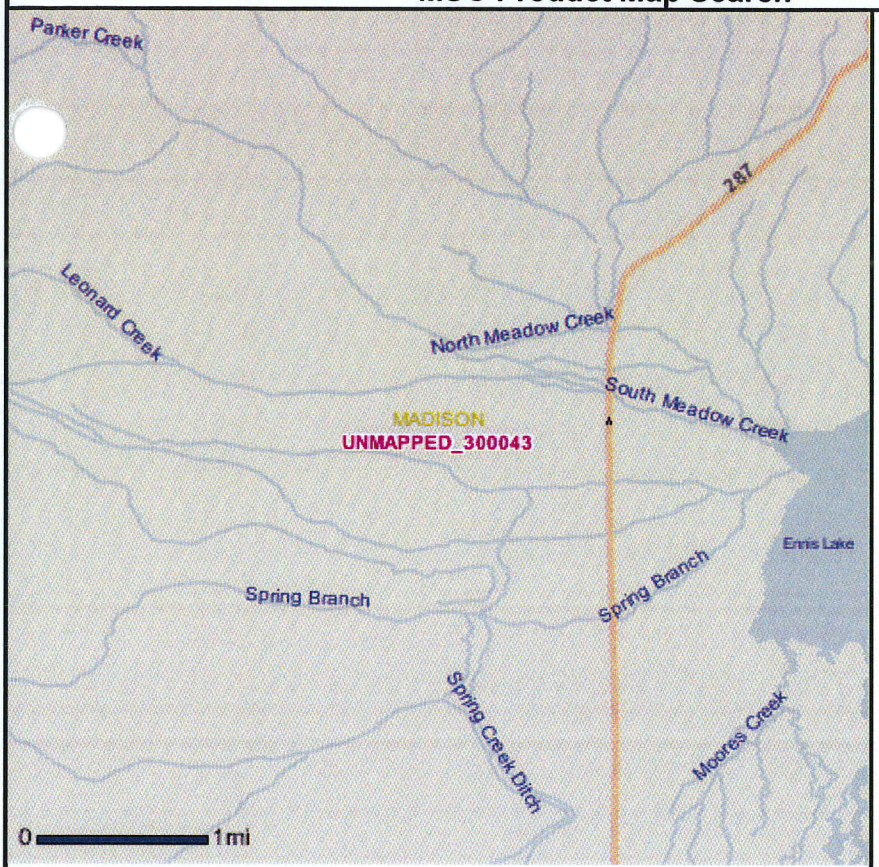

S. MEADOW CREEK (SHORTENED PROFILE) Plan: Plan 01 5/19/2009
River = S. MEADOW CREEK Reach = 1 RS = 3
.12
.06
.12
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
5388
5386
5384
5382
5380
5378
5376
5374
5372
300
350
400
450
500
550
Station (ft)


S. MEADOW CREEK (SHORTENED PROFILE) Plan: Plan 01 5/19/2009
River = S. MEADOW CREEK Reach = 1 RS = 2
.12
.06
.12
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
5380
5378
5376
5374
5372
5370
300
350
400
450
500
550
Station (ft)


S. MEADOW CREEK (SHORTENED PROFILE) Plan: Plan 01 5/19/2009
River = S. MEADOW CREEK Reach = 1 RS = 1
.12
.06
.12
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
5380
5378
5376
5374
5372
5370
5368
300
350
400
450
500
550
Station (ft)


S. MEADOW CREEK (SHORTENED PROFILE) Plan: Plan 01 5/19/2009
River = S. MEADOW CREEK Reach = 1 RS = 0
.12
.06
.12
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
5378
5376
5374
5372
5370
5368
5366
300
350
400
450
500
550
Station (ft)

MSC Product Map Search



FEMA FIRM PANEL MAP SEARCH

Legend
Public Flood Map

- Not Printed
- Printed

Cities

- Other Places, 1..2,500
- Small Towns, 2,500..10,000
- Towns, 10,000..30,000
- Small Cities, 30,000..100,000
- Cities, 100,000..300,000
- State Largest Cities, 100,000..300,000
- Big Cities, 300,000..1,000,000
- Major Cities > 1,000,000

Major Roads

- Major Highways
- Highways
- Major Roads
- Streets
- Ramps
- Ferry Crossing

Railroads

- Major Railroads

State Borders

Minor Rivers, Creeks

Lakes, Major Rivers

- Big Rivers or Streams
- Big Lakes or Ponds
- Medium Lakes or Ponds
- Small Lakes or Ponds
- Small Rivers or Streams
- Reservoirs
- Bays, Gulfs
- Glaciers
- Canals, Aquaducts

Major Lakes

Parks

- National Parks and Forests
- State Parks and Forests
- Local Parks

US Territories

City Limits

- Major Cities > 1,000,000
- Big Cities, 300,000..1,000,000
- State Largest Cities, 100,000..300,000
- Cities, 100,000..300,000
- Small Cities, 30,000..100,000
- Towns, 10,000..30,000
- Small Towns, 2,500..10,000
- Other Places, 1..2,500

Counties

Other Countries