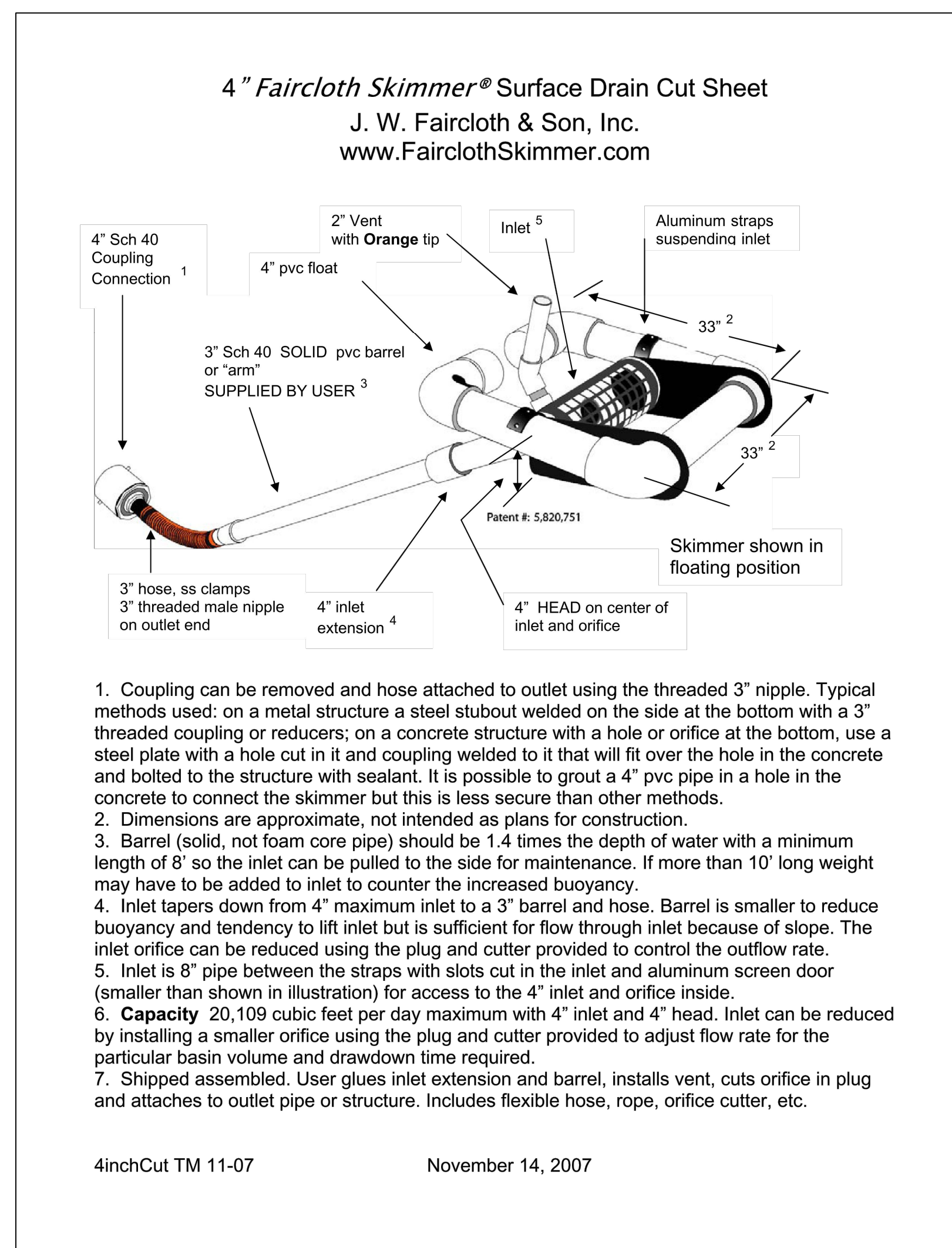


Sediment Basin Data	
<b>Basin Number</b>	
A. Total Contributing Watershed (ac.)	21.75
B. Disturbed Area (ac.)	10.28
C. Req. Dewatering Volume (A x 1,800 cu. ft./ac.)	39,150
D. Req. Sediment Storage Zone Vol. (B* 1000)	10,280
E. Total Required Capacity (C+D in cu. ft.)	49,430
F. Dewatering Volume Provided (cu. ft./ac.)	218,789
G. Sediment Storage Provided (cu. ft./ac.)	153,985
H. Total Storage Provided in Crest of Riser (cu. ft./ac.)	372,774
<b>Principal Spillway</b>	
Req. Principal Spillway Capacity (10 yr-24hr storm) (cfs)	21.96
Principal Spillway Capacity Provided (cfs)	0.00
Principal Spillway Elevation	912.65
Riser (inches)	48" SQ
Diameter of Barrel (inches)	24"
Volume of Concrete to Prevent Riser Flotation (cu. ft.)	9
<b>Outlet Type</b>	
Drawdown Time (Hours must exceed 48 hr drawdown)	72
Mark selected outlet type (X)	
A. Non-perforated Riser with Stub & Faircloth Skimmer (Orifice size in inches)	X 3.2
Stone pad provided at top of Sediment storage	X
B. Protected Single Orifice (Orifice size in inches)	
C. Perforated Riser Hole size (inches)	
Number of Holes	
Protection of Perforations - sm holes (<3/4") typ need anti-clogging measure - aggregate > than hole size or wire cloth/fence & geotextile	
<b>Pond Shape</b> - 4:1 L:W for each inlet or baffle(s) applied	
Baffles Detailed (Yes or No)	Yes
Bottom Elevation	904.00
Sediment Storage Zone Elevation	908.50
Crest of Principal Spillway Elevation (Min. 1 ft. below crest E. S.)	912.65
Pool Depth at Riser (ft., ideally 3-5)	8.65
Top of Embankment Elevation	913.65
Embankment Side Slopes (Max 2:1, combined 5:1)	4:1
Embankment Top Width (ft., baBOT on C/L Height, Min 8')	10
Req. Emergency Spillway Capacity (25 yr-24hr storm) (cfs)	29.82
Req. Emergency Spillway Discharge (25 yr-24 hr storm less Principal S.)	29.82
Emergency Spillway Capacity Provided (cfs)	56.00
Emergency Spillway Elevation	912.65
Emergency Spillway Bottom Width	20.00
Emergency Spillway Lining (Vegetated or Riprap)	Rip Rap
<b>Rock Outlet Protection (Size, gradation and quality of rock)</b>	
Length	10.00
Width	5.00
Depth	1.50
Gradation - O.D.O.T. unless specified otherwise	C



#### TEMPORARY SEDIMENT CONTROL CALCULATIONS

Use a Temporary Skimmer

Total Drainage Area:	21.75	Ac.
Disturbed Earth Area:	10.28	Ac.
Sediment Storage Volume Required (1,000 C.F./Ac.):	10,280	C.F.
Sediment Storage Volume Provided Below Skimmer Orifice:	153,985	C.F.
Dewatering Volume Required (1,800 C.F./Ac.):	39,150	C.F.
Dewatering Volume Provided Below Principal Spillway:	218,789	C.F.
Design Detention Volume:	293,827	C.F.
Bottom of Temporary Sediment Basin:	904.00	
Invert of Skimmer device:	908.50	
Normal Water Level:	908.50	
Cleanout Elevation:	905.80	
Set Crest of Principal Spillway at:	912.65	
Set Crest of Emergency Spillway at:	912.65	
Top of Bank:	913.65	

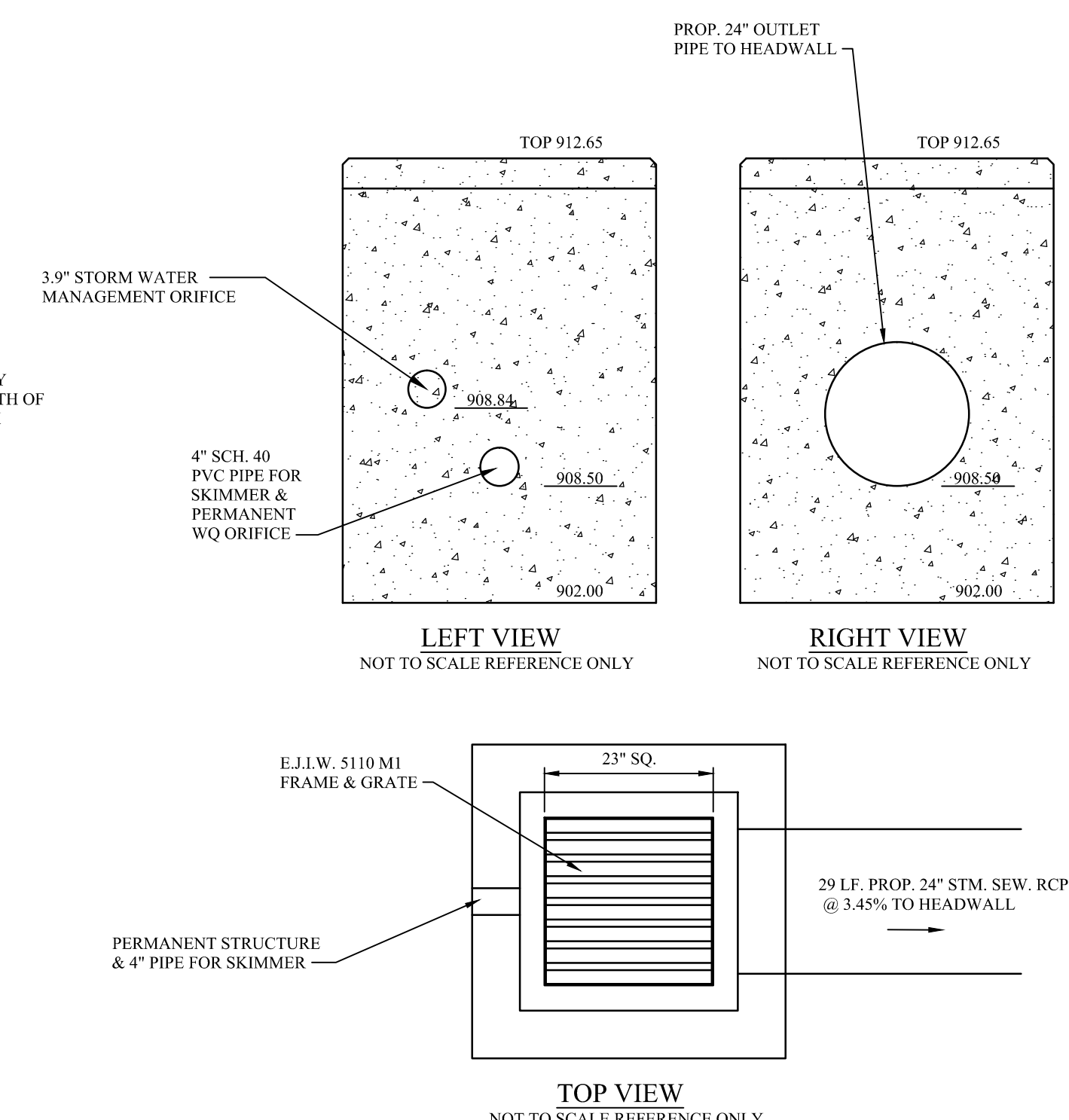
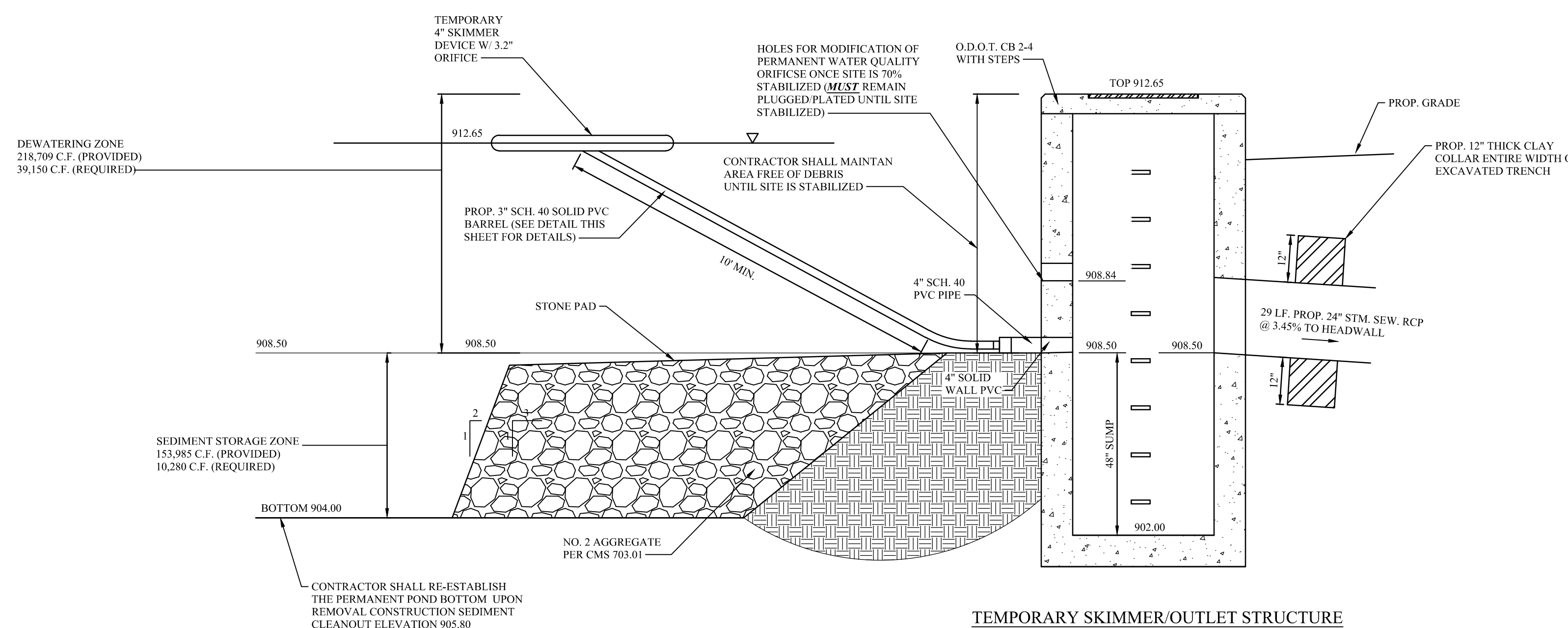
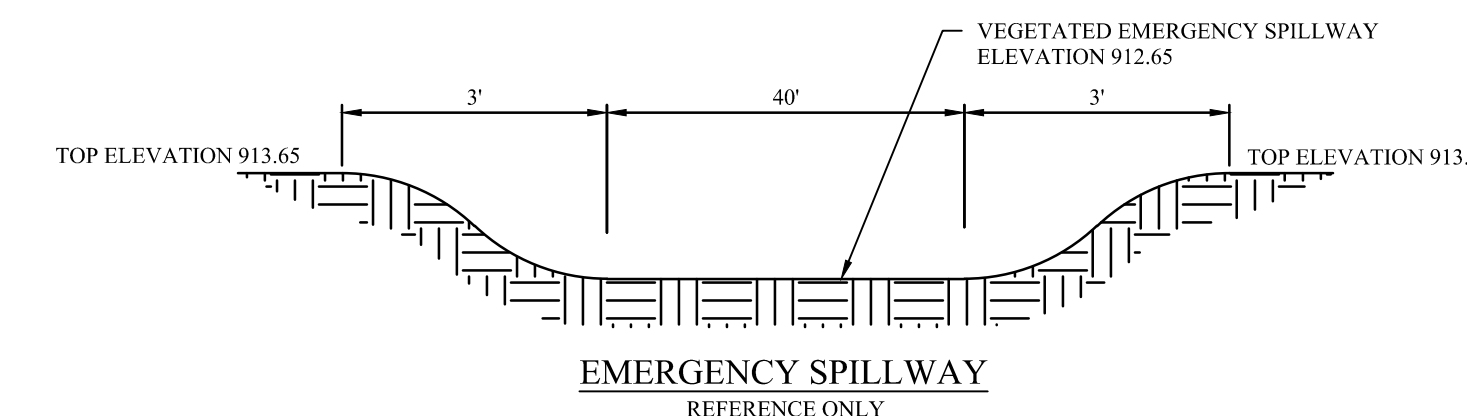
#### TEMPORARY SEDIMENT CONTROL VOLUME CALCULATIONS

	Elevation	Area, S.F.	Volume (C.F.)	Volume Sum (C.F.)
	904.00	27,002	0	0
	904.00	27,002	0	0
<b>BOT</b>	904.00	27,002	0	0
	905.00	30,091	28,546	28,546
	906.00	33,295	31,693	60,239
	907.00	36,613	34,954	95,193
	908.00	40,046	38,329	133,522
<b>DEW</b>	908.50	41,805	20,463	153,985
	909.00	45,408	21,803	175,788
	910.00	49,587	47,497	223,286
	911.00	54,580	52,083	275,369
	912.00	60,368	57,474	332,843
	913.00	69,395	64,881	397,724
<b>TB</b>	913.65	78,305	48,002	445,726

#### TEMPORARY SKIMMER DEVICE

Calculate Skimmer Size	
Basin Volume in Cubic Feet	39,150 Cu Ft
Days to Drain*	3 Days
Skimmer Size	4.0 Inch
Orifice Radius	1.6 Inch[es]
Orifice Diameter	3.2 Inch[es]

\*In NC assume 3 days to drain



**WEBER ENGINEERING SERVICES**

Where Strong Relationships & Superior Service Guide Your Project

2555 Harville Rd., Suite B  
Rostown, OH 44272  
www.WeberEngineeringServices.com  
330-329-2037  
matt@webercivil.com

STATE OF OHIO  
MATTHEW L. WEBER  
61709 REGISTERED  
PROFESSIONAL ENGINEER

Reg. No.: 61709

**Dunham Land Properties Inc.**

756 Ravenhill Drive  
Sagamons Hills, OH 44067  
Paul Karnow  
Ph.# (330) 468-2892  
Fax# (330) 468-2892

HIDDEN RIDGE RESIDENTIAL SUBDIVISION DUNHAM ROAD

Issue Date

- 01-25-2016
- 02-05-2016
- 02-11-2016
- 02-25-2016
- 06-01-2016
- 06-29-2016
- 08-10-2016
- 09-08-2016
- 10-03-2016
- 10-10-2016
- 03-27-2017

**SWP3  
DETAILS**

**C108C**  
Project No. 2014-226