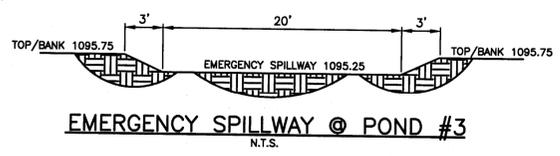


Temporary Sediment Basin Calculations Pond 3

Basin Design Information and Calculations

Use a Temporary Skimmer

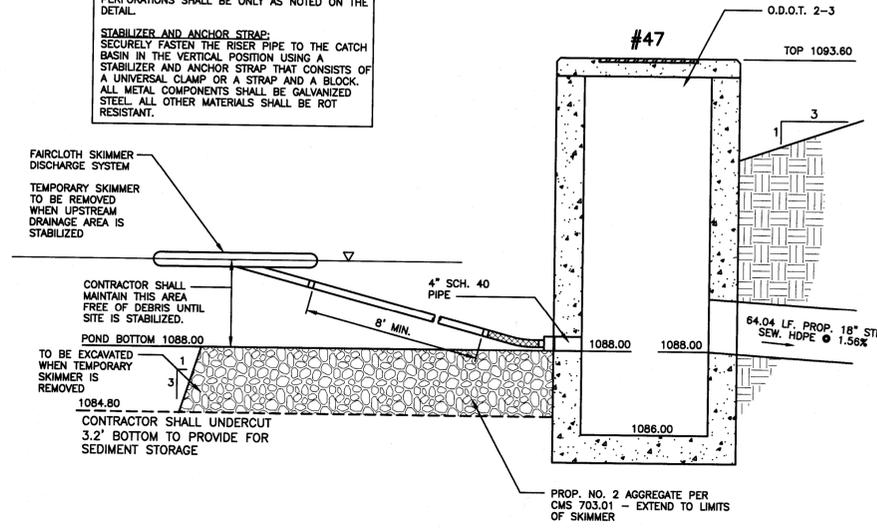
Total Drainage Area:	9.29 Ac.
Disturbed Earth Area:	9.29 Ac.
Sediment Storage Volume Required (1,000 C.F./Ac.):	9,290 C.F.
Sediment Storage Volume Provided Below Skimmer Orifice:	921 C.F.
Dewatering Volume Required (1,800 C.F./Ac.):	16,722 C.F.
Dewatering Volume Provided Below Principal Spillway:	38,195 C.F.
Design Detention Volume:	75,173 C.F.
Bottom of Temporary Sediment Basin:	1084.80
Invert of Skimmer Orifice:	1088.00
Normal Water Level:	1088.00
Cleanout Elevation:	1092.90
Set Crest of Principal Spillway at:	1093.60
Set Crest of Emergency Spillway at:	1095.25
Top of Bank:	1095.75



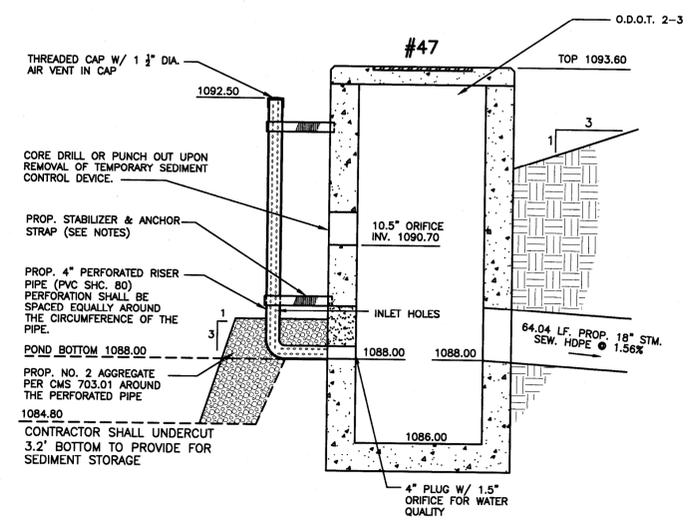
NOTES:
ALL AGGREGATE SHOWN SHALL MEET CMS 203.02.4 "NATURAL GRANULAR MATERIALS" AND SPECIFIED GRADATIONS.

RISER PIPE:
USE SCHEDULE 40 POLYVINYL CHLORIDE CONDUIT. PERFORATIONS SHALL BE ONLY AS NOTED ON THE DETAIL.

STABILIZER AND ANCHOR STRAP:
SECURELY FASTEN THE RISER PIPE TO THE CATCH BASIN IN THE VERTICAL POSITION USING A STABILIZER AND ANCHOR STRAP THAT CONSISTS OF A UNIVERSAL CLAMP OR A STRAP AND A BLOCK. ALL METAL COMPONENTS SHALL BE GALVANIZED STEEL. ALL OTHER MATERIALS SHALL BE ROT RESISTANT.



TEMPORARY SEDIMENT CONTROL STRUCTURE #47 DETAIL FOR DETENTION POND #3 (NORTHEAST)
N.T.S.



OUTLET STRUCTURE #47 DETAIL FOR DETENTION POND #3 (NORTH EAST)
N.T.S.

Calculate Skimmer Size

Basin Volume in Cubic Feet	16,722 Cu.Ft	Skimmer Size	3.0 Inch
Days to Drain*	2 Days	Orifice Radius	1.4 Inch(es)
		Orifice Diameter	2.8 Inch(es)

*NC assume 3 days to drain

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REP.: STAN KATANIC

BENTLEY RESERVE
465 S. HAMLETOWN RD.
COPLEY TOWNSHIP, OHIO
STORM WATER POLLUTION PREVENTION
DETAILS & OUTLET STRUCTURE DETAILS

DRAWN BY:
T.G.W.

DATE:
JAN. 4, 2011

PROJECT NO.
36048D

DRAWING NO.
SD-22A