STORMWATER MANAGEMENT NOTE:

LAND AREA DISTURBED = ±1.55 ACRES

NOTES:

1. ANY FUTURE LAND DISTURBANCE AND/OR INCREASE IN IMPERVIOUS AREA ON THIS SITE MAY REQUIRE ADDITIONAL STORM WATER MANAGEMENT PER MSD REGULATIONS IN PLACE AT THAT TIME.

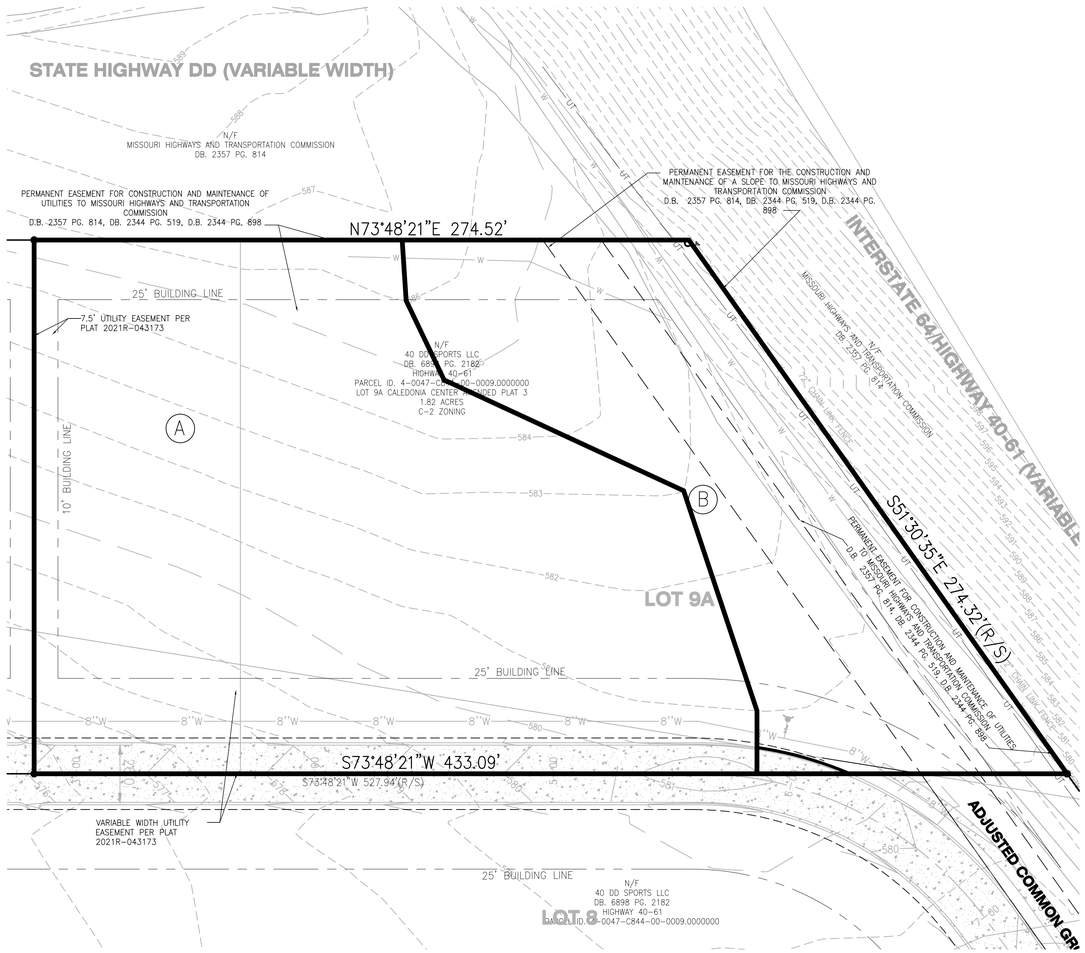
2. DURING CONSTRUCTION, SITE RUNOFF SHALL NOT FLOW INTO THE BIORETENTION OR THE PERMEABLE PAVEMENT AREAS. ALL STORMWATER FLOW TO THE BMP AREAS SHALL BE DIVERTED, PLUGGED, OR DISCONNECTED UNTIL THE CONSTRUCTION SITE IS STABLE AND THE MSD INSPECTOR PROVIDES APPROVAL TO PLACE THE BMP(S) ONLINE.

DIFFERENTIAL RUNOFF CALCULATIONS (15YR)

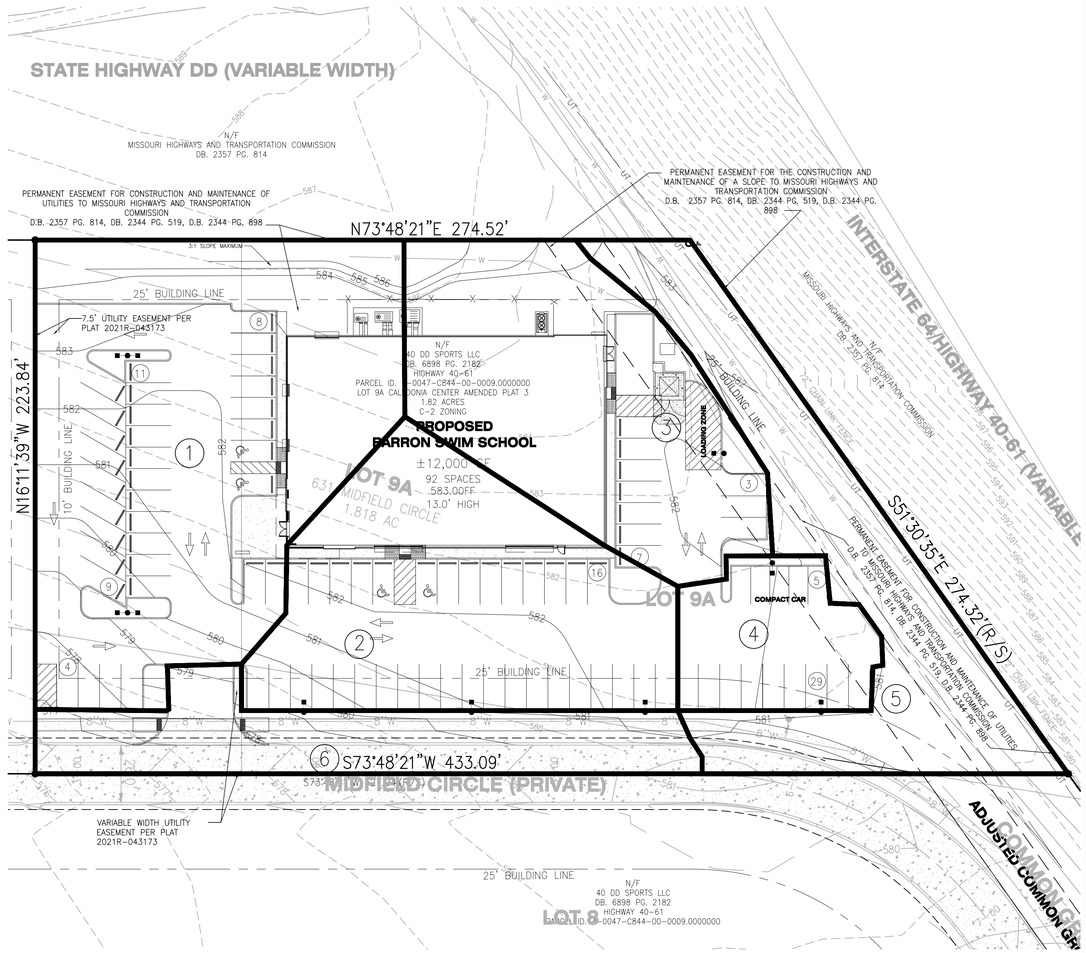
PRE DEVELOPED CONDITIONS	**3.27 CFS**
POST DEVELOPED CONDITIONS	**5.64 CFS**
DIFFERENTIAL RUNOFF RATE	**+2.37 CFS**

IMPERVIOUS AREA INCREASE = 1.19 ACRES
DISTURBED AREA = 1.55 ACRES

30' 0' 30' 60'
SCALE: 1" = 30'



PRE-DEVELOPED



POST-DEVELOPED

PRE DEVELOPED CONDITIONS (1.82 AC)

PERVIOUS AREA = 1.72 AC.
x PI=1.70 (15 YR)
TOTAL PERVIOUS AREA CFS = 2.92 CFS

IMPERVIOUS AREA = 0.10 AC.
x PI=3.54 (15 YR)
TOTAL IMPERVIOUS AREA CFS = 0.35 CFS

TOTAL=3.27 CFS

SITE AREAS (PRE-DEVELOPED)

A:	PERVIOUS	= 1.16 AC
	IMPERVIOUS	= 0.09 AC
	TOTAL	= 1.25 AC
A.	PERVIOUS	= 0.56 AC
	IMPERVIOUS	= 0.01 AC
	TOTAL	= 0.57 AC
TOTAL SITE AREA		= 1.82 AC

POST DEVELOPED CONDITIONS (1.82 AC)

PERVIOUS AREA = 0.53 AC.
x PI=1.70 (15 YR)
TOTAL PERVIOUS AREA CFS = 0.90 CFS

IMPERVIOUS AREA = 1.01 AC.
x PI=3.54 (15 YR)
TOTAL IMPERVIOUS AREA CFS = 3.57 CFS

ROOF AREA = 0.28 AC.
x PI=4.20 (15 YR)
TOTAL IMPERVIOUS AREA CFS = 1.17 CFS

TOTAL=5.64 CFS

SITE AREAS (POST-DEVELOPED)

1.	PERVIOUS	= 0.13 AC
	IMPERVIOUS	= 0.37 AC
	TOTAL	= 0.57 AC
2.	PERVIOUS	= 0.01 AC
	IMPERVIOUS	= 0.26 AC
	ROOF	= 0.09 AC
	TOTAL	= 0.35 AC
3.	PERVIOUS	= 0.09 AC
	IMPERVIOUS	= 0.12 AC
	ROOF	= 0.12 AC
	TOTAL	= 0.33 AC
4.	PERVIOUS	= 0.01 AC
	IMPERVIOUS	= 0.10 AC
	TOTAL	= 0.11 AC
5.	PERVIOUS	= 0.26 AC
	IMPERVIOUS	= 0.02 AC
	TOTAL	= 0.28 AC
6.	PERVIOUS	= 0.05 AC
	IMPERVIOUS	= 0.14 AC
	TOTAL	= 0.18 AC
TOTAL SITE AREA		= 1.82 AC

THIS SHEET IS FOR DRAINAGE CALCULATION PURPOSES ONLY AND NOT TO BE USED AS CONSTRUCTION PLANS

NO	REVISION DESCRIPTION	DATE

DEVELOPER/OWNER:
BARRON SWIM SCHOOL
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STATE OF MISSOURI ALISON MARIE GAUCH NUMBER E-2011028831 PROFESSIONAL ENGINEER

CIVIL ENGINEERS CORPORATE ENGINEERING BUSINESS CERTIFICATE #001165

ALISON MARIE GAUCH
CIVIL ENGINEER
PE NO. E-2011028831
06/14/2021

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DRAINAGE AREA MAP

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