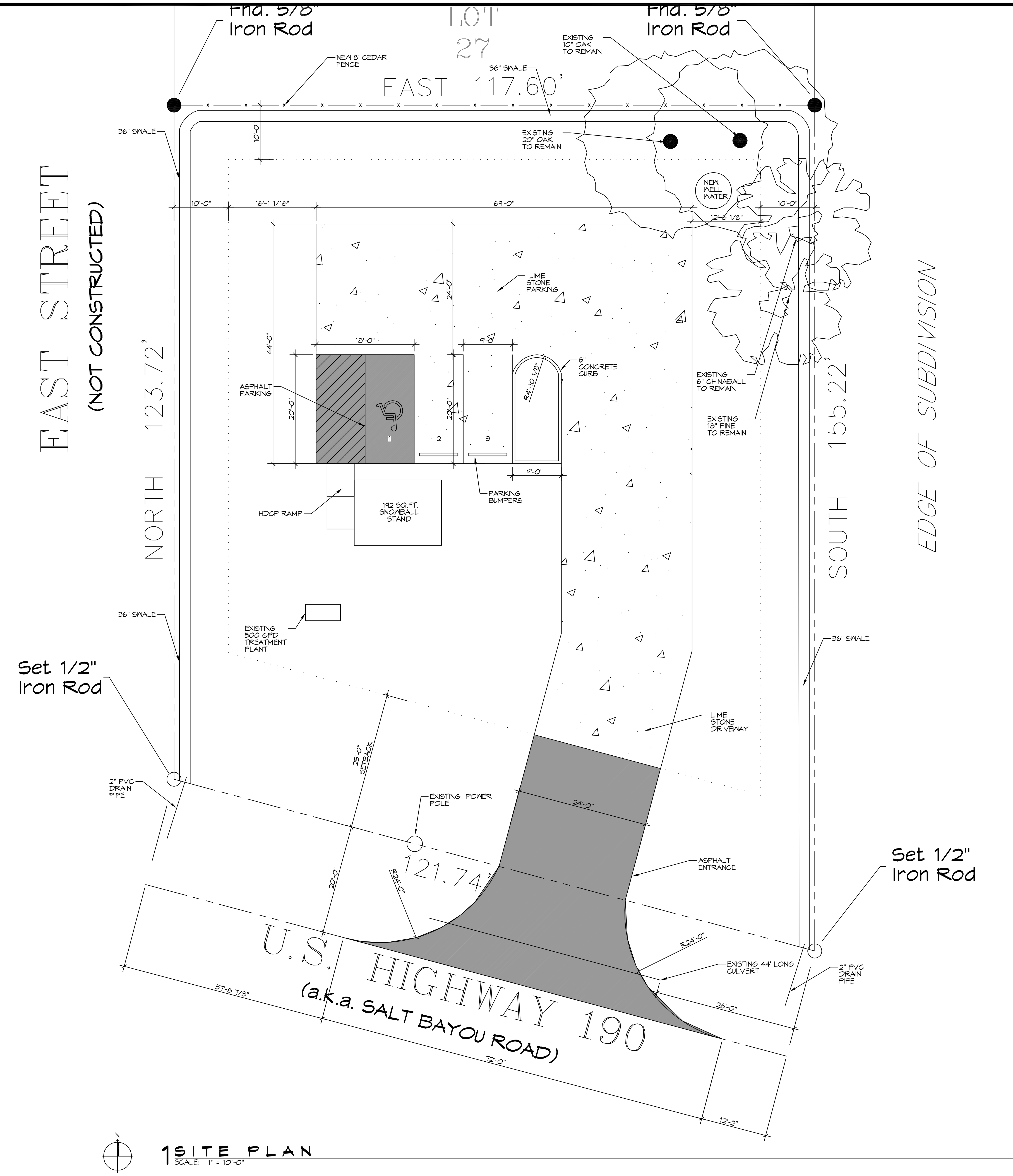
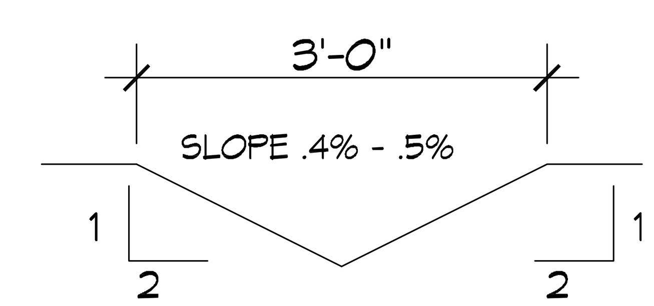


1 SITE PLAN
SCALE: 1" = 10'-0"

PROJECT:	Pisciotta					
DRAINAGE RUN OFF CALCULATIONS -- RATIONAL METHOD						
PRIOR DEVELOPMENT						
10 Year Frequency						
Q_1 = CIA						
Watertight Surfaces			0	sqft =	0.000	Acres
c(1) =	0.9					
Gravel Surface			0	sqft =	0.000	Acres
c(2) =	0.14					
Green Space			16399	sqft =	0.376	Acres
c(3) =	0.21					
Summary			16399	sqft =	0.376	Acres
c =	0.21					
Duration (D) = Time of concentration (TC)						
TC = .7039(L^.3917)(c^-1.1309)(S^-.1985)						
where	L =	123	Runoff length ft		Elev diff =	1
	c =	0.21	Runoff coef			
	S =	0.8130	Percent Slope			
therefore	TC = D =	28.23	minutes or			
and from Rainfall Intensity T	I =	4.98	in/hr			
Q_1 =	0.393	cfs	RUNOFF LIMIT	90%	0.354	cfs
POST DEVELOPMENT						
10 Year Frequency						
Q_2 = CIA						
Watertight Surfaces			960	sqft =	0.022	Acres
c(1) =	0.9					
Gravel Surface			3790	sqft =	0.087	Acres
c(2) =	0.14					
Green Space			15247	sqft =	0.350	
c(3) =	0.21					
Summary			19997	sqft =	0.459	Acres
c =	0.23					
D = Time of concentration (TC)						
TC = .7039(L^.3917)(c^-1.1309)(S^-.1985)						
where	L =	123	Runoff length ft		Elev diff =	0.75
	c =	0.23	Runoff coef			
	S =	0.6098	Percent Slope			
therefore	TC = D =	26.98	minutes or			
and from Rainfall Intensity T	I =	5.00	in/hr			
Q_2 =	0.528	cfs				
RESULTS						
DETENTION REQUIRED	Q_2-Q_1		0.174	cfs		
ONE HOUR DETENTION			625.1	cuft		
DETENTION DIMENSIONS			WIDTH	3	feet	
			LENGTH	385	feet	
			DEPTH	0.54	feet	
DISCHARGE END AREA CALCULATIONS						
Q = cA(2gH)^1/2		where Q is allowable run off				
Allowable run off		Q =	0.354	cfs		
Friction loss factor		c =	0.98	coefficient		
Acceleration		g =	32.2	ft/ft/sec		
Height above invert		if H =	1.00	feet		
End area		A =	0.05	sqft		
REQUIRED CONDUIT =			2.87	inch diameter		
		USE	2" EACH END			



2 SWALE SECTION
SCALE:

PLANNING

LOT 28 - 31 SQ. 7
ZONED HIGHWAY COMMERCIAL

FLOOD ZONE

ZONE "C"

BUILDING ELEVATION

BASE FLOOD ELEVATION = C
BFE = N/A
FINISHED FLOOR ELEVATION = 12" ABOVE NATURAL GRADE

PARKING

RETAIL : 1 SPACE PER EACH 350 SQ. FT. OF GROSS FLOOR AREA EXCLUDING STORAGE AREAS WHICH SHALL NOT EXCEED 15 PERCENT OF THE GROSS SQUARE FOOTAGE
AREA: 192 / 350 = 1 REQUIRED
TOTAL OF 3 PARKING SPACES PROVIDED

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REVISIONS

#	DESCRIPTION	DATE

SEAL: STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — PROFESSIONAL ENGINEER

ZACK'S SNACK'S SNOWBALL STAND
MIKE PISCIOTTA
LOTS 21-31
U.S. HWY 190
SLIDELL, LA

JOB No:	2382	DATE:	06-20-2019
DRAWN BY:	CKD	CHECKED BY:	BAM

SHEET TITLE:
SITE PLAN

DRAWING NUMBER:
C101