

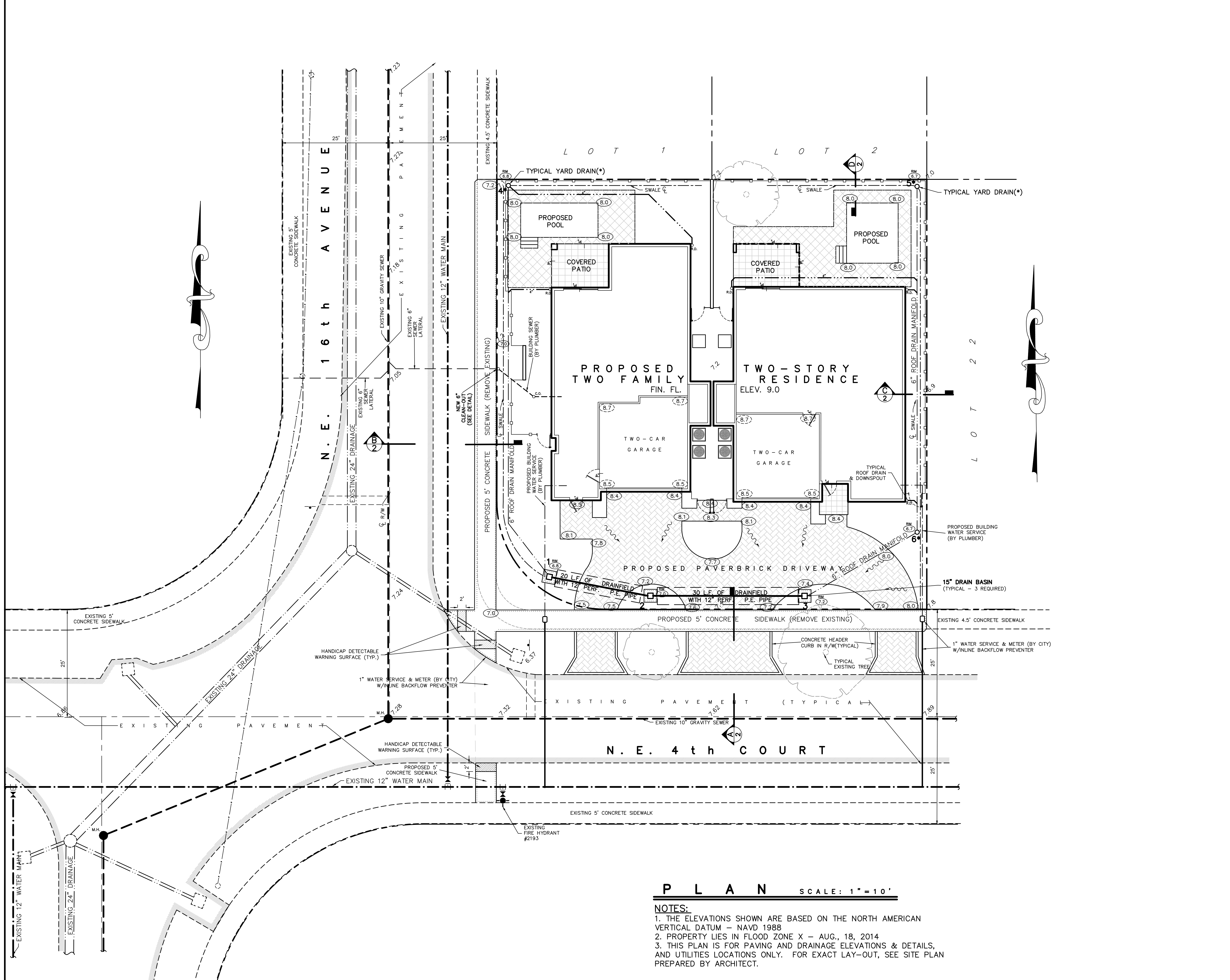
LOCATION PLAN N. T. S.

LEGAL DESCRIPTION:
 LOTS 23 & 24, LESS THE N. 25', BLOCK 7, "MIDDLE RIVER PARK", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 5, PAGE 28, OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

SAID LANDS SITUATE, LYING AND BEING IN THE CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA.

LEGEND:

	EXISTING WATER MAIN
	PROPOSED WATER MAIN
	EXISTING SEWER MAIN
	PROPOSED SEWER MAIN
	EXISTING DRAINAGE
	PROPOSED DRAINAGE
	EXISTING PAVEMENT
	PROPOSED PAVERBRICK PAVEMENT
	EXISTING ELEVATIONS
	PROPOSED ELEVATIONS
	DIRECTION OF RUN-OFF
	EXISTING TEE
	PROPOSED TEE
	EXISTING CATCH BASIN
	PROPOSED CATCH BASIN
	EXISTING VALVE
	PROPOSED VALVE
	EXISTING MANHOLE
	PROPOSED MANHOLE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT



PLAN SCALE: 1"=10'

NOTES:
 1. THE ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM - NAVD 1988
 2. PROPERTY LIES IN FLOOD ZONE X - AUG., 18, 2014
 3. THIS PLAN IS FOR PAVING AND DRAINAGE ELEVATIONS & DETAILS, AND UTILITIES LOCATIONS ONLY. FOR EXACT LAY-OUT, SEE SITE PLAN PREPARED BY ARCHITECT.

DRAINAGE CALCULATIONS:
 1. Requirement: Retain 2-1/2" x % Impervious
 9866 S.F. x 2-1/2" x 58% = 1192 C.F.
 2. Drainfield Provided:
 $H_2 = 5'$ $W = 4'$
 $D_u = 4'$ $K = 1 \times 10^{-4}$ (CFS/SF² - FT HEAD)
 $D_s = 0'$ $L = 50'$
 a. Volume Stored in Trench
 $V(C.F.) = 0.5 \times W \times D_b \times L = 0.5 \times 4 \times 4 \times 50 = 400$ C.F.
 b. Volume Exfiltrated
 $V(C.F.) = 3600 K L \{ \frac{1}{4} W + 2 \frac{1}{2} D_u - D_s^2 + 2 \frac{1}{2} D_s \}$
 $= 3600 (1 \times 10^{-4}) (50) \{ 5(4) + 2(5)4 - 4^2 + 2(5)0 \}$
 Total = 1192 C.F.

PAVING, GRADING, AND DRAINAGE WATER AND SEWER SERVICE CONNECTIONS PLAN			
SOUTHERN CROSS DEVELOPMENT FORT LAUDERDALE, FLORIDA			
1601 N. E. 4th COURT			
JOHN B. SMITH ENGINEERS, INC. 250 S.W. 6th PLACE POMPANO BEACH, FLORIDA 33060 PHONE: (954) 763-4177 CERTIFICATE OF AUTHORIZATION NO. 1688			
DESIGN R.C.S.	DRAWN RCS	DATE JAN., 2018	FILE 18-102
Approved By: Robert C. Smith, P.E. Registered Engineer No. 31177			STATE OF FLORIDA C10F 2