

STRUCTURE NOTES

ALL WORK SHALL COMPLY WITH THE F.B.C. 8TH EDITION (2023).
THE AMERICAN CONCRETE INSTITUTE ACI-318-19, ASCE-7-22 AND ALL OTHERS APPLICABLE CODES AND REGULATIONS.

- ALL POOL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
- ALL DECK CONCRETE (WHEN INSTALLED UNDER THESE PLANS) SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- THE DESIGN OF THIS PROJECT HAS INCORPORATED A RATIONAL DESIGN APPROACH BASED ON ACCEPTED ENGINEERING PRINCIPALS.
- ALL REINFORCING STEEL SPLICES SHALL BE 18" IN LENGTH UNLESS OTHERWISE INDICATED ON THESE PLANS.
- ALL REINFORCING STEEL BENDS SHALL BE BY HAND WITHOUT THE APPLICATION OF HEAT TO THE STEEL.

SOIL STATEMENT

A VISUAL INSPECTION AT JOB SITE SHOWED A SOIL COMPOSED OF SAND AND ROCK. A BEARING CAPACITY OF 2000 P.S.F. HAS BEEN ASSUMED. FURTHER MORE, UPON BREAKING OF GROUND, A LETTER SHALL BE SUBMITTED TO THE BUILDING OFFICIAL VERIFYING AND ATTESTING THAT THE SITE CONDITIONS ARE SIMILAR TO THOSE UPON THE DESIGN BASED.

NOTE:

POOL CONTRACTOR OR OWNER MUST FOLLOW THE DESIGN OF THIS POOL AS PER APPROVED PLANS.

IF DURING CONSTRUCTION THE OWNER OR CONTRACTORS NEED TO MAKE SOME CHANGES TO THE APPROVED DESIGN, ALL WORK MUST BE STOPPED AND THE ENGINEER ON RECORD MUST BE NOTIFIED IN WRITING

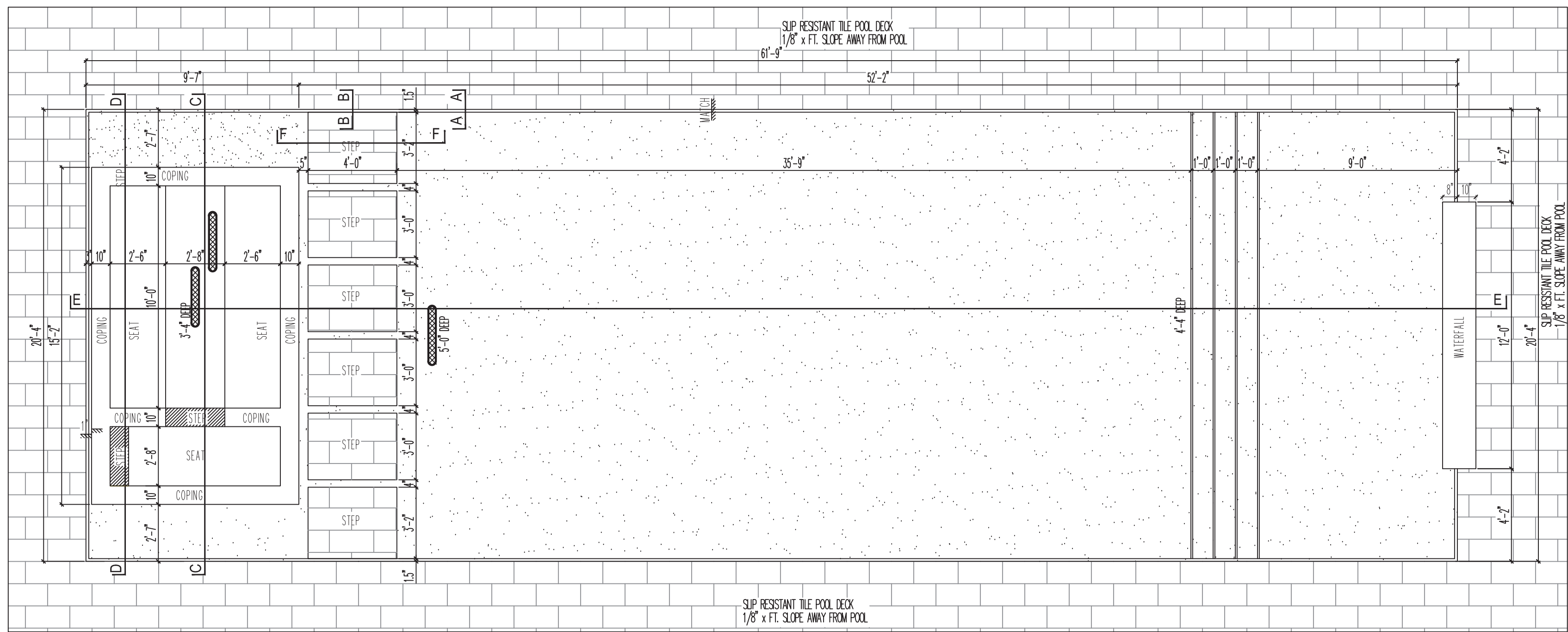
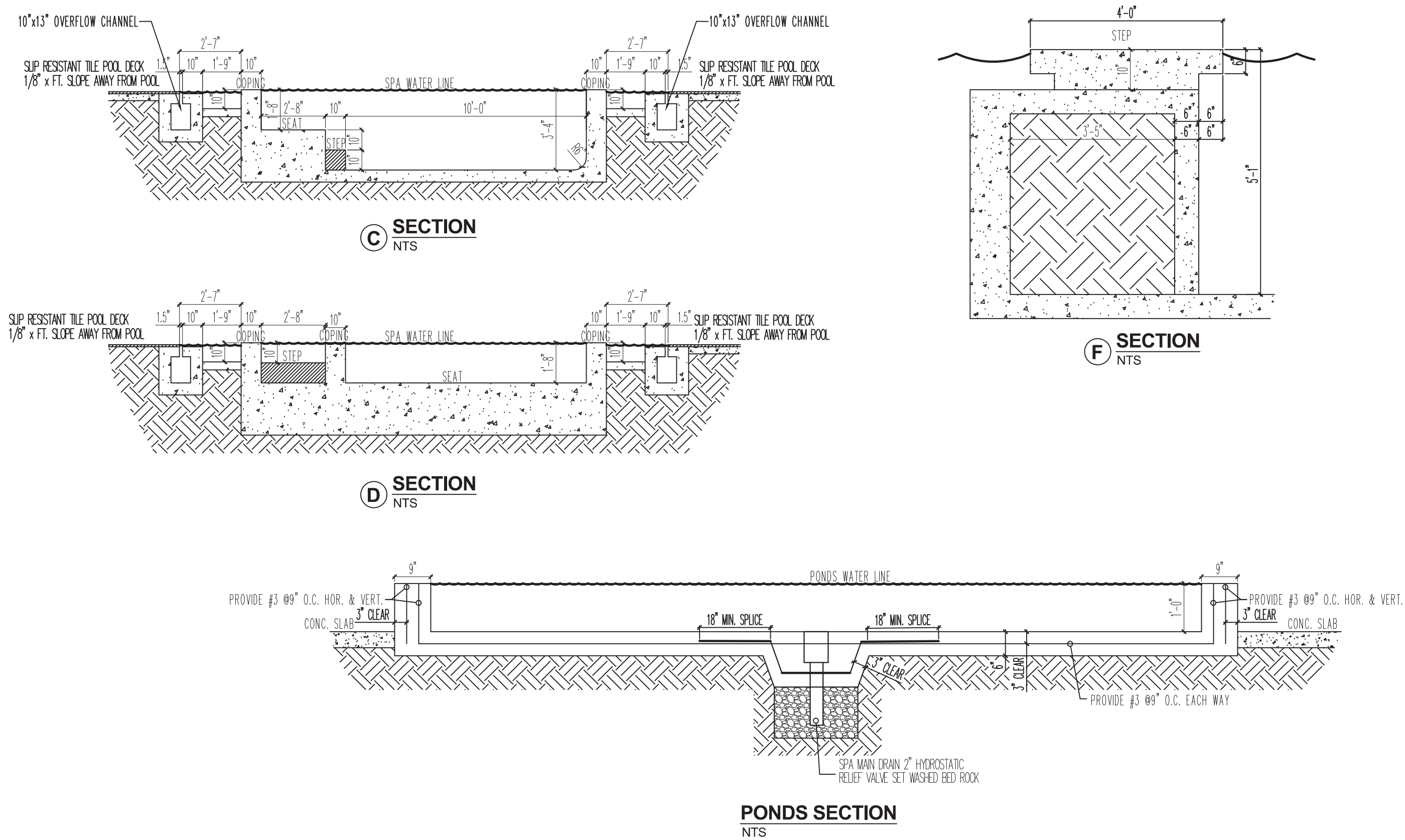
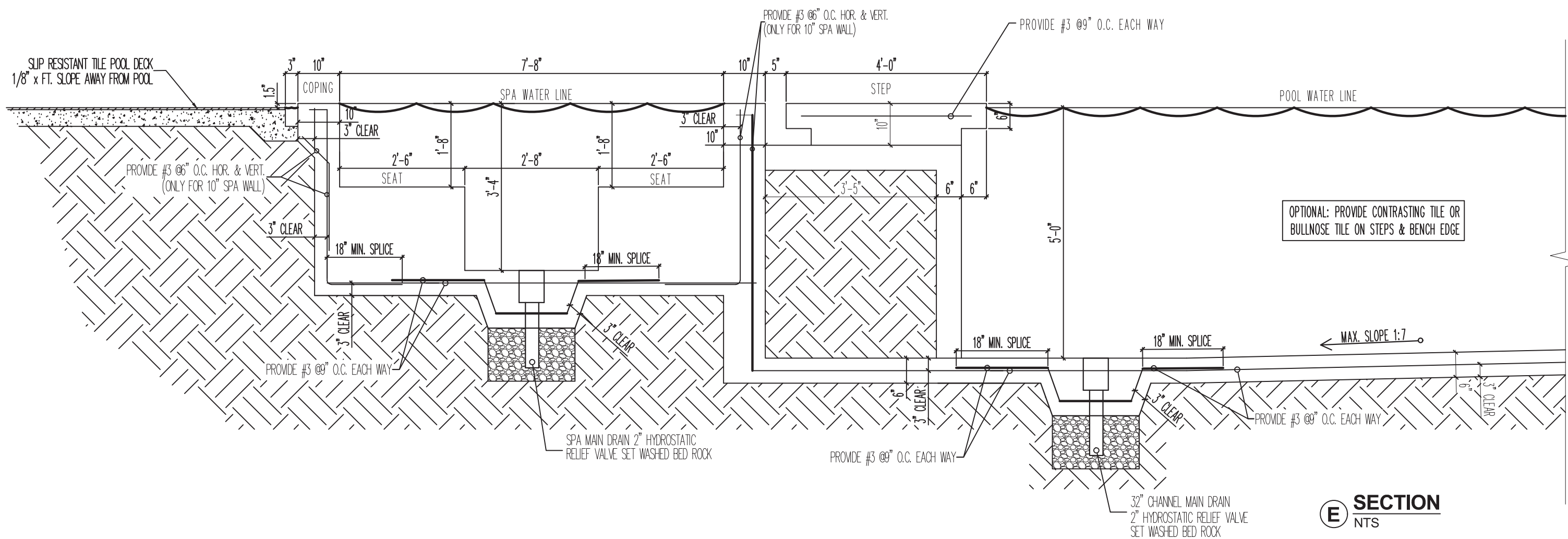
ANY CHANGES DONE TO THE DESIGN DURING CONSTRUCTION WITHOUT APPROVAL OF ENGINEER AND MUNICIPALITY BUILDING DEPARTMENT IS SOLELY RESPONSIBILITY OF POOL CONTRACTOR OR OWNER.

	FLOTATION ANALYSIS CALCULATION	ELEV	UNITS
A	TOP OF POOL WALL ELEVATION (NGVD)	16.0	FT
B	DIST. FROM TOP OF WALL TO WATER LEVEL	0.3	FT
C	DEPTH OF POOL AT DEEP END	5.83	FT
D	DEPTH OF POOL AT SHALLOW END	4.83	FT
E	SLAB THICKNESS	0.5	FT
F	ELEV. POOL BOTTOM='A'-'B'-'C'-'E'	4.54	FT
G	FLOOD CRITERIA LEVEL (NGVD)	8.0	FT
H	INITIAL WATER HEAD= 'G'-'F'	3.46	FT
I	LESS HYDROSTATIC RELIEF VALVE (FBC 1618.24)	2.0	FT
J	ADJUSTABLE WATER HEAD 'H'-'I'	1.46	FT
K	UPLIFT PRESSURE = 'J' x 'S'	91.10	PSF

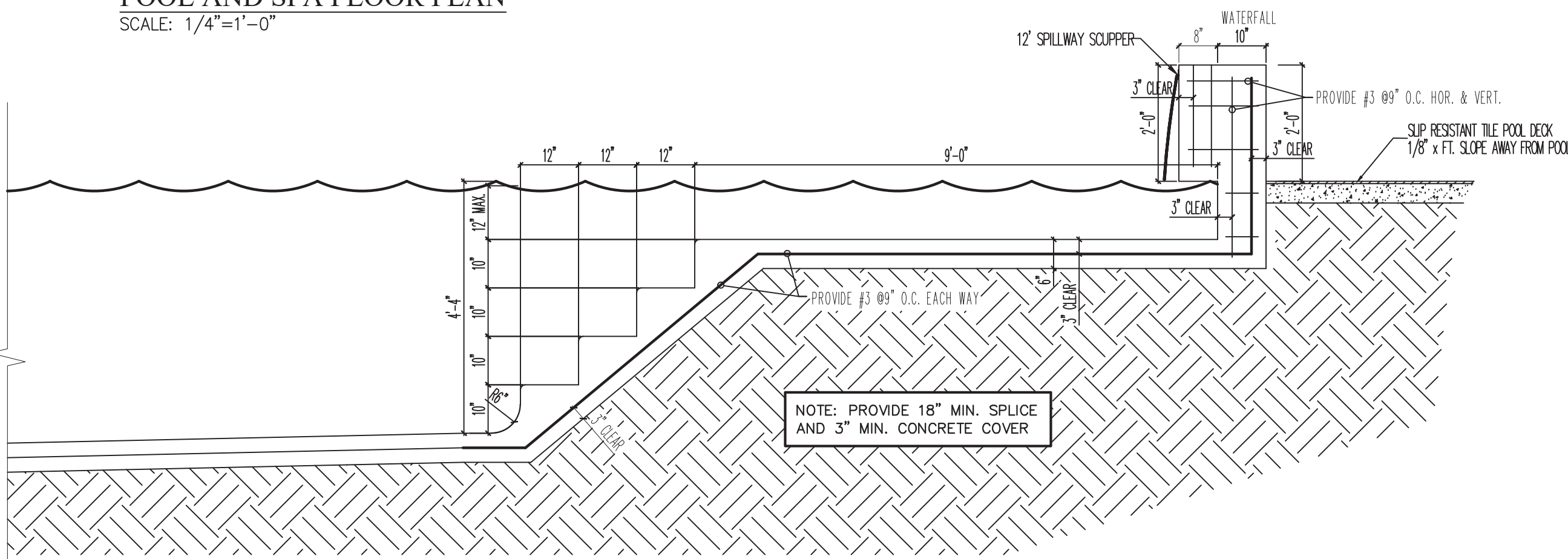
PROPOSED 6" THICK FOR POOL WALLS AND POOL BOTTOM SLAB

L	POOL AREA	1,256.00	SQ FT
M	CONCRETE'S VOLUME OF STAIR	85.00	CU FT
N	CONCRETE'S VOLUME OF SIDE WALL (BOTH)	95.00	CU FT
O	CONCRETE'S VOLUME OF SHALLOW END WALL	49.10	CU FT
P	CONCRETE'S VOLUME OF DEEP END WALL	59.25	CU FT
Q	CONCRETE'S VOLUME OF BOTTOM SLAB	628.00	CU FT
R	CONCRETE WEIGHT	150	LB/FT3
S	WATER WEIGHT	62.4	LB/FT3
	TOTAL POOL WEIGHT (CONCRETE) =(‘M’ + ‘N’ + ‘O’ + ‘P’ + ‘Q’) x ‘R’	137,452.50	POUND
	POOL UPLIFT PRESSURE AREA =‘L’/2 x ‘K’ = 1,256 x 91.10	114,421.60	POUND

TOTAL POOL WEIGHT CONCRETE > POOL UPLIFT PRESSURE (OK)



POOL AND SPA FLOOR PLAN
SCALE: 1/4"=1'-0"





MTeam
PROJECT CORP.

PH: 786-554-5741
PH: 786-451-5076



JUAN MEDINA ALFONSO
LICENSE
No. 73236
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JUAN MEDINA ALFONSO P.E.
MA ENGINEERING SOLUTION, CORP.
LICENCE# 73236

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JUAN MEDINA ALFONSO, PE ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
DATE: 11/03/2025

PROJECT

- SWIMMING POOL WITH SPA
- TWO FRONT PONDS

OWNER

9601 SW 53 AVE. LLC
9601 SW 53 AVENUE
MIAMI, FL 33156

REVISIONS	
NO.	DATE
DATE: 11/03/2025	
SCALE: AS PER PLAN	
NO. SHEET 1 OF 1	
DRAWING NO. SP-3	