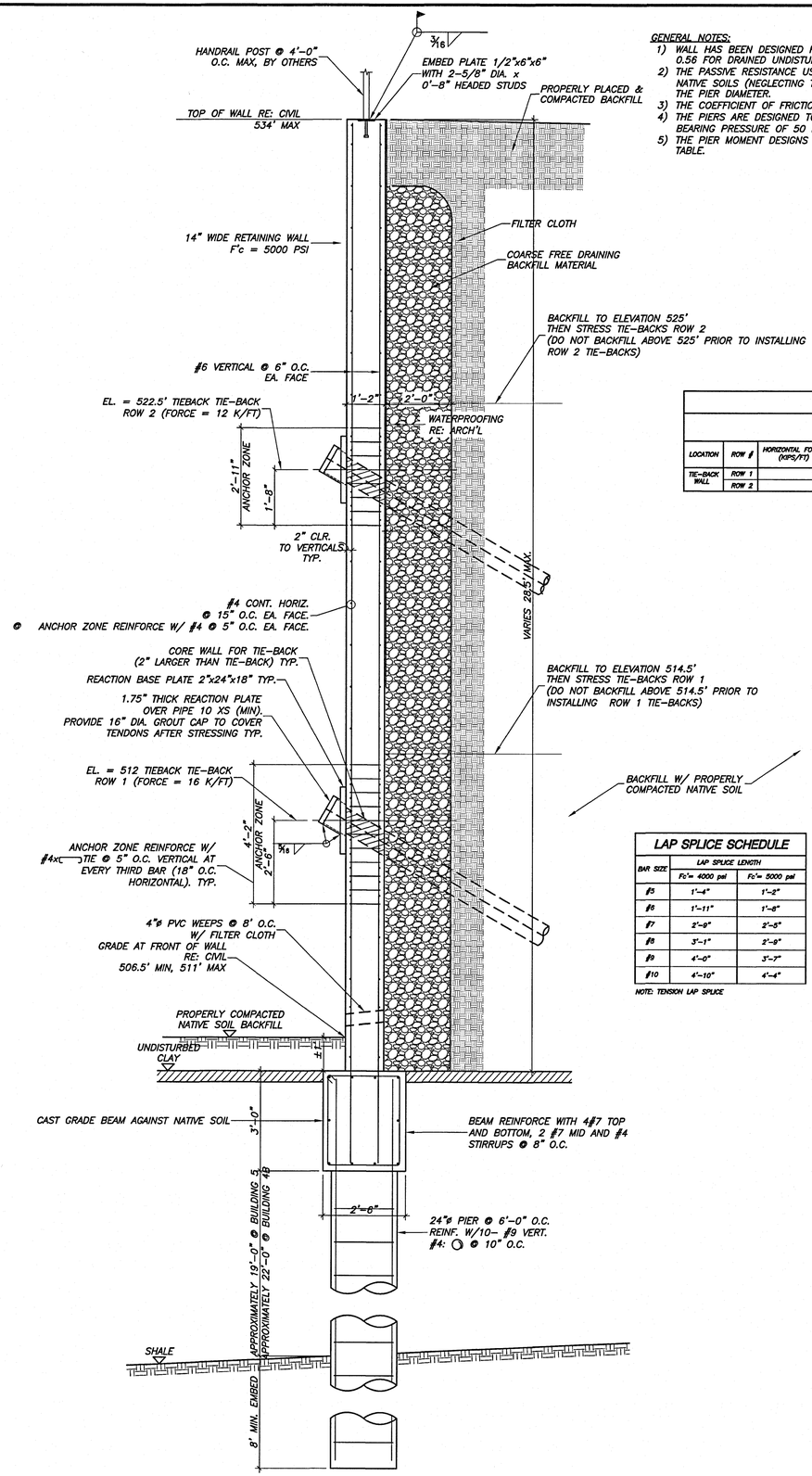


01 TYPICAL TIE-BACK WALL AT BUILDING 4B AND 5
1/2"=1'-0"

GENERAL NOTES:

1) WALL HAS BEEN DESIGNED FOR THE AT REST PRESSURE OF 67 PSF/FT AND THE PRESSURE COEFFICIENT OF 0.56 FOR DRAINED UNDISTURBED OR COMPACTED NATIVE SOIL PER THE GEOTECH REPORT.
2) THE PASSIVE RESISTANCE USED IN THE DESIGN IS 250 PCF FOR BEAM AND FOOTING AGAINST UNDISTURBED NATIVE SOILS (NEGLECTING THE UPPER 12"). AT THE PIERS, THIS PRESSURE IS ACTING AT UP TO 3 TIMES THE PIER DIAMETER.
3) THE COEFFICIENT OF FRICTION USED IN THE DESIGN IS 0.32 FOR BEAMS CAST AGAINST SOILS.
4) THE PIERS ARE DESIGNED TO BEAR IN STRATUM II SHALE (OR LIMESTONE) BEDROCK WITH AN ALLOWABLE BEARING PRESSURE OF 50 KSF AND AN ALLOWABLE SKIN FRICTION OF 7.5 KSF (NEGLECTING THE UPPER 5').
5) THE PIER MOMENT DESIGNS HAVE BEEN CHECKED USING L-PILE WITH THE VALUES GIVEN IN THE GEOTECH TABLE.

STRAND LOAD TABLE

# STRANDS	AREA STEEL (Aps (SQ. IN.)	0.6 Fu Aps MAX. DESIGN LOAD (KIPS)	0.8 Fu Aps MAX. TEST LOAD (KIPS)	Fu Aps ULTIMATE LOAD (KIPS)
1	.22	35.2	46.9	58.6
2	.43	69.7	92.9	116.1
3	.65	105.3	140.4	175.5
4	.86	139.3	185.8	232.2
5	1.08	175.0	233.3	291.6
6	1.30	210.6	280.8	351.0

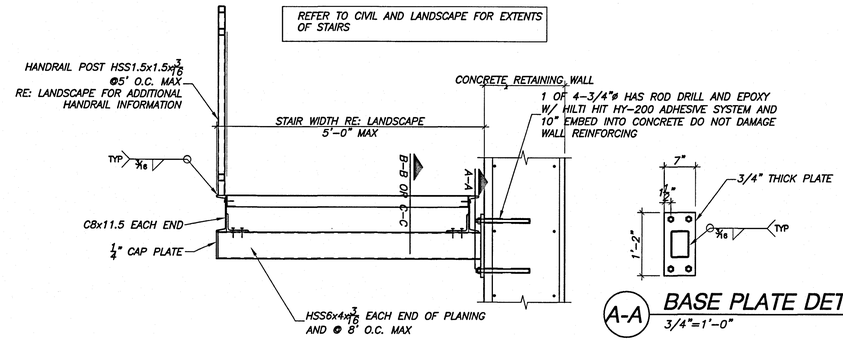
ANCHOR SCHEDULE

		BY VIEWTECH, INC.							BY ECS SOUTHWEST, LLP		
LOCATION	ROW #	HORIZONTAL FORCE (KIPS/FT)	HORIZONTAL SPACING (FT)	# STRANDS	CALCULATED DESIGN LOAD (KIPS)	DESIGN LOAD (KIPS)	LOCKOFF. LOAD (KIPS)	DECLINATION (DEG)	TOTAL LENGTH	UNBOND LENGTH	BOND LENGTH
TIE-BACK WALL	ROW 1	16	10	6	184.8	210.6	210.6	30			
	ROW 2	12	10	4	138.6	139.3	139.3	30			

LAP SPLICE SCHEDULE

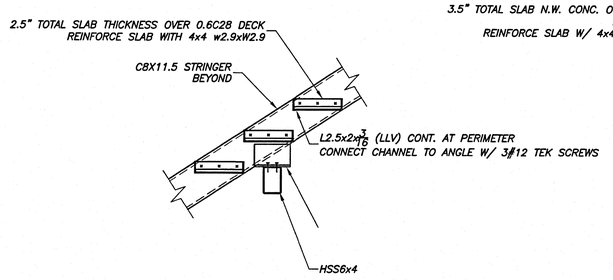
BAR SIZE	LAP SPLICE LENGTH	
	f'c= 4000 psi	f'c= 5000 psi
#5	1'-4"	1'-2"
#6	1'-11"	1'-8"
#7	2'-9"	2'-5"
#8	3'-1"	2'-9"
#9	4'-0"	3'-7"
#10	4'-10"	4'-4"

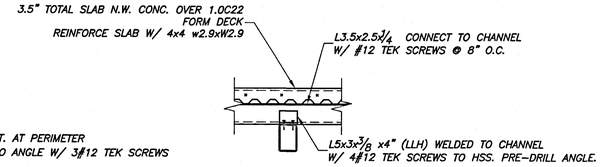
NOTE: TENSION LAP SPLICE



02 SECTION THRU SUSPENDED STAIR
3/4"=1'-0"

A-A BASE PLATE DETAIL
3/4"=1'-0"





B-B SECTION AT RISERS
3/4"=1'-0"

C-C SECTION AT LANDINGS
3/4"=1'-0"

STATE OF TEXAS
VICTOR LISSIAK, JR.
30545
LICENSED PROFESSIONAL ENGINEER
05-02-19
TEXAS FIRM REG. # F-2658

SITE PLAN APPROVAL Sheet 82 of 87
FILE NUMBER SP-2018-0296C APPLICATION DATE JULY 2, 2018
APPROVED BY COMMISSION ON N/A UNDER SECTION 112 OF CHAPTER 25-5 OF THE CITY OF AUSTIN CODE.
EXPIRATION DATE (25-5-81, LDC) 12/6/18 CASE MANAGER ROSEMARY AVILA

Director, Development Services Department
RELEASED FOR GENERAL COMPLIANCE: 12/4/19 ZONING CS-V
Rev. 1 Correction 1
Rev. 2 Correction 2
Rev. 3 Correction 3

Final plat must be recorded by the Project Expiration Date, if applicable. Subsequent Site Plans which do not comply with the Code current at the time of filing, and all required Building Permits and/or a notice of construction (if a building permit is not required), must also be approved prior to the Project Expiration Date.

SITE RETAINING WALL SCHEDULES & DETAILS

AUSTIN SOUTH LAMAR APARTMENTS

1515 SOUTH LAMAR

AUSTIN, TRAVIS COUNTY, TEXAS

VIEWTECH, INC.
4205 BELTWAY DR. ADDISON, TX. 75001 (972) 661-8187 FAX (972) 661-8172

DESIGN	DRAWN	DATE	SCALE	JOB #	SHEET
VL	CR	12/06/18	AS NOTED	2018.124	SRT1

SP-2018-0296C