





Data Soil Test

PROJECT : : Sekolah Kristen Gloria Grand Pakuwon, Tandes, Surabaya		GROUND SURFACE LEVEL : 3,70 m										BORING DEPTH : 40,00 m								
(m)	Soil Description	N			SPT			Wp	Wn	Wl	γ	Gs	e	S	Strength Test			Cu	Cv	Cc
		15	15	15	10	20	30	40	50	60	Type	c	ϕ	qu						
26,00	Dark Grey Clay	7/15	10/15	13/15		20	30	40	50	60										
27,00																				
28,00			7/15	9/15	11/15		20													
29,00																				
30,00			6/15	9/15	11/15		20													
31,00																				
32,00			6/15	9/15	12/15		21													
33,00																				
34,00			7/15	11/15	13/15		25													
35,00																				
36,00		6/15	10/15	11/15		21														
37,00																				
38,00		7/15	11/15	12/15		23														
39,00																				
40,00		8/15	11/15	13/15		24														
41,00																				
42,00	Boring Termination																			
43,00																				
44,00																				
45,00																				
46,00																				
47,00																				
48,00																				
49,00																				
50,00																				


N	S P T = Standard Penetration Test (blows/ft)	S	= Degree of Saturation (%)	qu	= Unconfined Compressive Strength (Kg/cm2)	Boring No BH 1
O	Wp = Plastic Limit (%)	UU	= Unconsolidated Undrained Test			
T	Wn = Natural Water Content (%)	UC	= Unconfined Compression Test	Cu	= Slope of Rebound Curve	
A	Wl = Liquid Limit (%)	DS	= Direct Shear Test	Cv	= Coef of Consolidation (cm2/sec)	
T	γ = Bulk Unit Weight (t/m3)	c	= Cohesion (Kg/cm2)	Cc	= Compression Index	
I	Gs = Specific Gravity	ϕ	= Angle of Internal Friction			
O	e = Void Ratio					
N	 = Thim Wall		= S.P.T		= Coring	

 CV. ASIA HARDATA - SOIL INVESTIGATIONS & LABORATORY TESTINGS - GEOTECHNICAL ENGINEERING SERVICES
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Data Soil Test

PROJECT : Sekolah Kristen Gloria Grand Pakuwon, Tandes, Surabaya		GROUND SURFACE LEVEL : GROUND WATER LEVEL : 3,70 m										BORING DEPTH : 40,00 m												
(m)	Soil Description	N			SPT			Wp	Wn	Wl	γ	Gs	e	S	Strength Test			C α	Cv	Cc				
		15	15	15	10	20	30	40	50	60	Type	c	ϕ	qu										
26,00	Grey to Dark Grey Clay	6/15	9/15	12/15		20																		
27,00																								
28,00		8/15	9/15	11/15			20																	
29,00																								
30,00	Dark Grey Clay	7/15	9/15	12/15			21																	
31,00																								
32,00			6/15	10/15	12/15			22																
33,00																								
34,00			7/15	10/15	13/15			23																
35,00			7/15	9/15	12/15			21																
36,00																								
37,00			7/15	9/15	12/15			21																
38,00																								
39,00		8/15	10/15	12/15			22																	
40,00		8/15	11/15	13/15			24																	
41,00	Boring Termination																							
42,00																								
43,00																								
44,00																								
45,00																								
46,00																								
47,00																								
48,00																								
49,00																								
50,00																								


N	SPT = Standard Penetration Test (blows/f)	S	Degree of Saturation (%)	qu	Unconfined Compressive Strength (Kg/cm ²)	Boring No BH 2
O	Wp = Plastic Limit (%)	UU	Unconsolidated Undrained Test			
T	Wn = Natural Water Content (%)	UC	Unconfined Compression Test	C α	Slope of Rebound Curve	
A	Wl = Liquid Limit (%)	DS	Direct Shear Test	Cv	Coef. of Consolidation (cm ² /sec)	
T	γ = Bulk Unit Weight (t/m ³)	c	Cohesion (Kg/cm ²)	Cc	Compression Index	
I	Gs = Specific Gravity	ϕ	Angle of Internal Friction			
O	e = Void Ratio					
N	▨ = Thin Wall	▣	SPT	▣	Coring	

	CV. ASIA HARDA - SOIL INVESTIGATIONS & LABORATORY TESTINGS - GEOTECHNICAL ENGINEERING SERVICES
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Data Soil Test




PROJECT : : Sekolah Kristen Gloria Grand Pakuwon, Tandes, Surabaya		GROUND SURFACE LEVEL : GROUND WATER LEVEL : 3,50 m										BORING DEPTH : 40,00 m														
(m)	Soil Description	N				SPT				Wp	Wn	Wl	γ	Gs	e	S	Strength Test			Cα	Cv	Cc				
		15	15	15	10	20	30	40	50								60	Type	c				φ	qu		
26,00	Dark Grey Clay	6/15	8/15	10/15	18																					
27,00																										
28,00		4/15	7/15	11/15	18																					
29,00																										
30,00		5/15	8/15	10/15	18																					
31,00																										
32,00		7/15	10/15	12/15	22																					
33,00																										
34,00		7/15	9/15	11/15	20																					
35,00																										
36,00	7/15	9/15	10/15	19																						
37,00																										
38,00	8/15	10/15	11/15	21																						
39,00																										
40,00	7/15	10/15	12/15	22																						
41,00	9/15	11/15	13/15	24																						
42,00	Boring Termination																									
43,00																										
44,00																										
45,00																										
46,00																										
47,00																										
48,00																										
49,00																										
50,00																										

N	S P T = Standard Penetration Test (blows/ft)	S	= Degree of Saturation (%)	qu	= Unconfined Compressive Strength (Kg/cm2)
O	Wp = Plastic Limit (%)	UU	= Unconsolidated Undrained Test	Cα	= Slope of Rebound Curve
T	Wn = Natural Water Content (%)	UC	= Unconfined Compression Test	Cv	= Coef of Consolidation (cm2/sec)
A	Wl = Liquid Limit (%)	DS	= Direct Shear Test	Cc	= Compression Index
T	γ = Bulk Unit Weight (t/m3)	c	= Cohesion (Kg/cm2)		
I	Gs = Specific Gravity	φ	= Angle of Internal Friction		
O	e = Void Ratio				
N	▨ = Thin Wall	▧	= S.P.T	⊗	= Coring

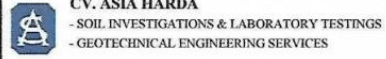
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Data Soil Test

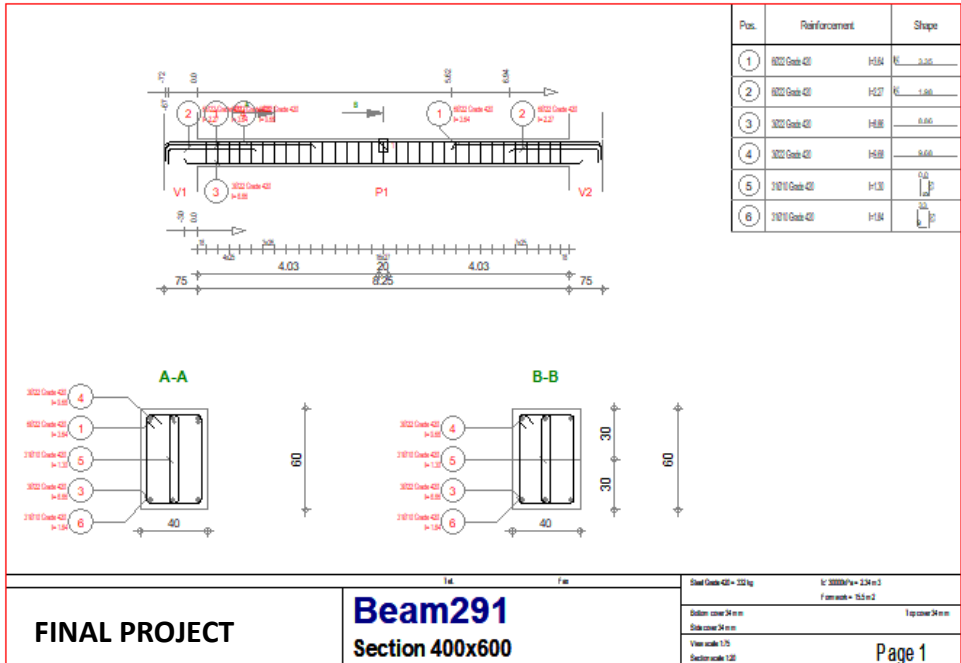
PROJECT : : Sekolah Kristen Gloria Grand Pakuwon, Tandes, Surabaya		GROUND SURFACE LEVEL : GROUND WATER LEVEL : 3,65 m										BORING DEPTH : 40,00 m											
(m)	Soil Description	N			SPT				Wp	Wn	Wl	γ	Gs	e	S	Strength Test			C α	Cv	Cc		
		15	15	15	10	20	30	40								50	60	Type				c	ϕ
26,00	Dark Grey Clay	5/15	8/15	11/15		19																	
27,00																							
28,00	Dark Grey to Brownish Dark Grey Silty Clay Weakly Cemented	6/15	29/15	14/15		43																	
29,00																							
30,00		6/15	9/15	12/15		21																	
31,00																							
32,00		7/15	9/15	12/15		21																	
33,00																							
34,00	Dark Grey Clay	9/15	12/15	13/15		25																	
35,00																							
36,00		8/15	11/15	13/15		24																	
37,00		8/15	11/15	13/15		24																	
38,00																							
39,00		7/15	10/15	12/15		22																	
40,00		8/15	11/15	14/15		25																	
41,00																							
42,00	Boring Termination																						
43,00																							
44,00																							
45,00																							
46,00																							
47,00																							
48,00																							
49,00																							
50,00																							

N S P T = Standard Penetration Test (blows/ft) S = Degree of Saturation (%) qu = Unconfined Compressive Strength (Kg/cm²)
 O Wp = Plastic Limit (%) UU = Unconsolidated Undrained Test C α = Slope of Rebound Curve
 T Wn = Natural Water Content (%) UC = Unconfined Compression Test Cv = Coef. of Consolidation (cm²/sec)
 A Wl = Liquid Limit (%) DS = Direct Shear Test Cc = Compression Index
 T γ = Bulk Unit Weight (t/m³) c = Cohesion (Kg/cm²) ϕ = Angle of Internal Friction
 l Gs = Specific Gravity ϕ = Angle of Internal Friction
 O e = Void Ratio
 N  = Thin Wall  = S P T  = Coring

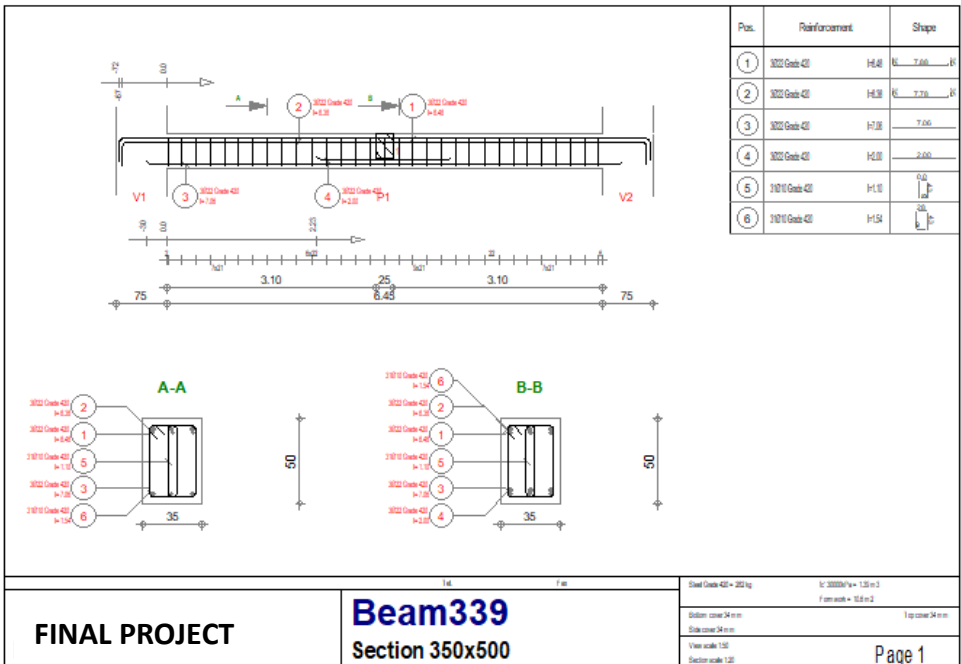
Boring No
BH 4



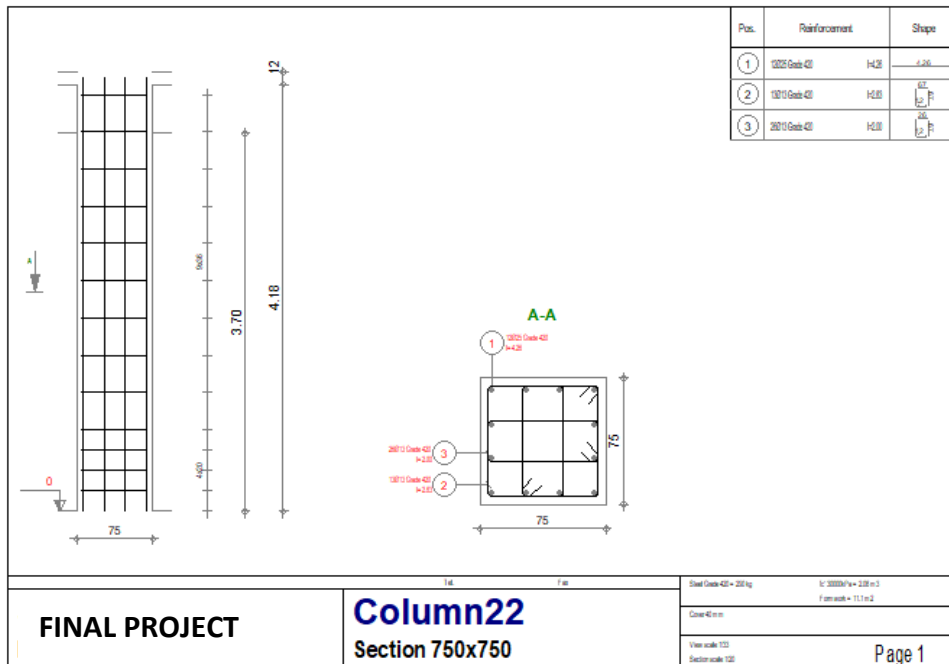
Beam 291 X Direction Detailing Drawing



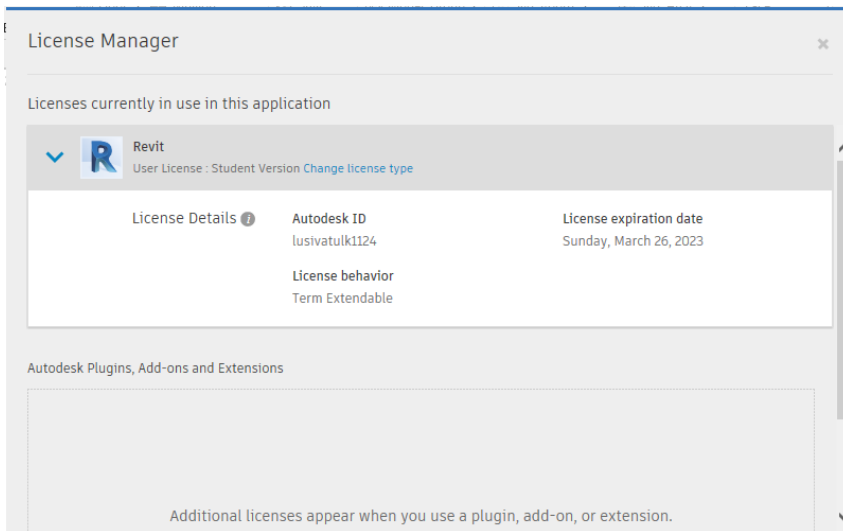
Beam 339 Y Direction Detailing Drawing



Column C1-22 Detailing Drawing



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