

신 규 마 을 (에 코 빌 리 지 2 차) 조 성 사 업 비 탈 면 안 정 생 검 토 서

2025. 02



목 차

1. 과업의 개요	1
1.1 과업목적	1
1.2 설계기준	1
1.3 과업범위	1
1.4 사용프로그램	1
2. 과업구간 현황	2
2.1 검토위치 및 검토단면	2
3. 검토조건	3
3.1 지반정수산정	3
3.2 지진계수	4
4. 비탈면 안정성 검토	7
4.1 비탈면 안정성검토 방법	7
4.2 기준안전율	8
4.3 검토결과	9
5. 옹벽 안정성 검토	11
6.1 개요	11
6.2 축조블럭 안정조건	12
6.3 옹벽 구조검토 결과	12
6. 결론	13

-부록-

1. 축조블럭 구조계산서
2. 비탈면 안정해석 전산파일

1. 과업의 개요

1.1 과업목적

본 검토는 「신규마을(에코빌리지2차) 조성사업」 구간 깎기 비탈면에 대하여 각종 설계기준에 근거하여 안정성 검토결과를 분석함으로서 계획단면의 적정성을 평가하고자 함.

1.2 설계기준

- 건설공사 비탈면 설계기준(국토교통부, 2011)
- 쌓기·깎기 설계기준(KDS 11 70 05 : 2020)(국토교통부, 2020)

1.3 과업범위

- 검토 위치 및 검토단면 선정
- 설계기준 및 설계정수 검토
- 한계평형해석에 의한 비탈면 안정성 검토
- 옹벽 구조계산

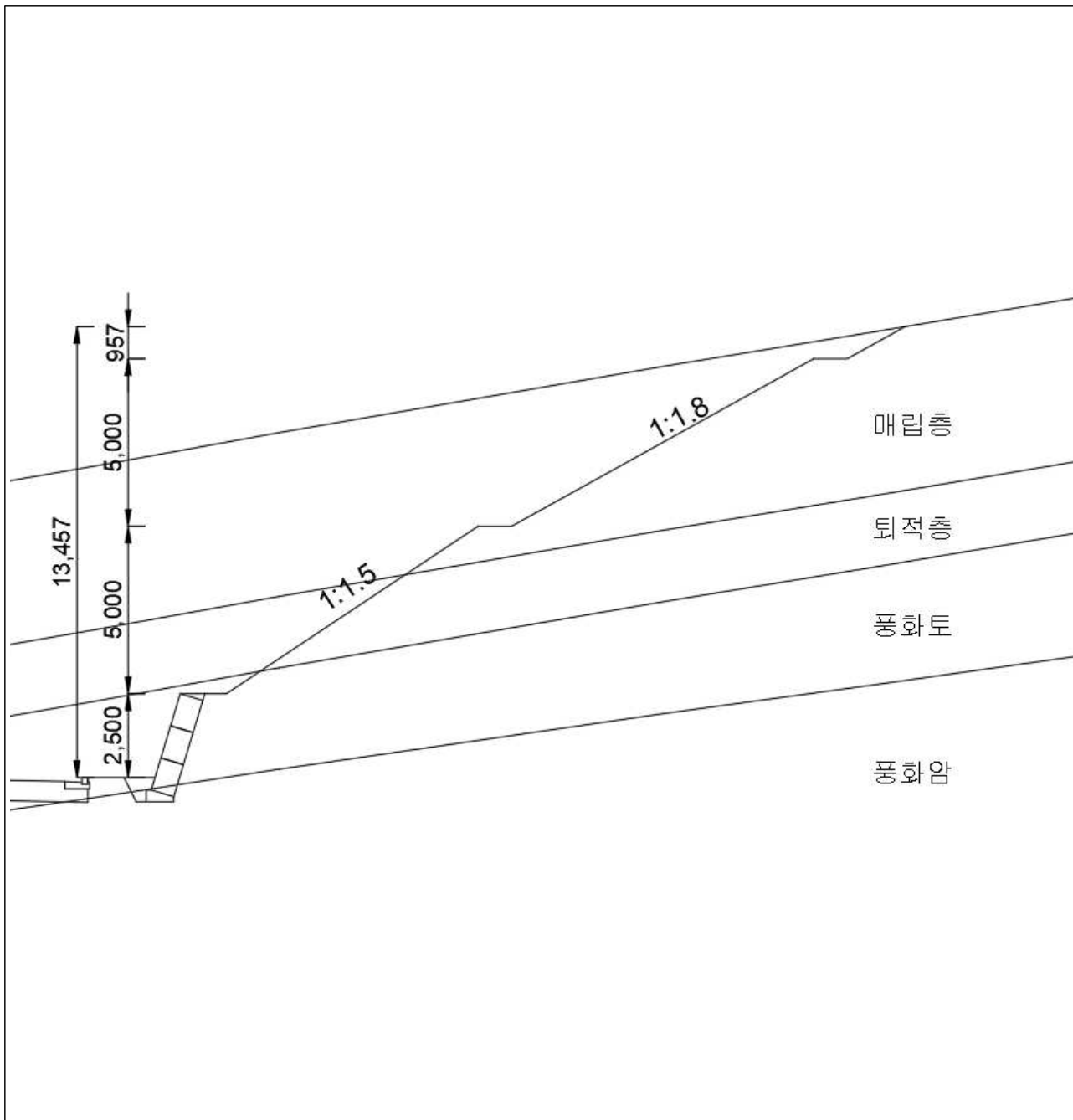
1.4 사용 프로그램

- 프로그램 : SOILWORKS
- 개발자 : 마이다스아이티

2. 검토위치 및 검토단면

<표 2-1> 구조검토 단면요약

검토위치	검토높이(m)	비 고
소(국)2-무1 NO.3+14.00	13.5	축조블럭



<그림 2-1> 검토단면

3. 검토조건

3.1 지반정수 산정

가. 개요

본 현장 비탈면 안정해석에 적용된 지반정수는 사업지구에서 기 수행한 지반조사 보고서 및 국내 외 여러 문헌의 지반 물성 추천치를 토대로 현장여건을 고려한 지반정수를 산정하였다. 안정해석을 위한 지반정수는 기 실시한 시추조사에 의하여 확인된 지층현황을 근거로 시험 결과를 우선적으로 검토하고 설계기준, 국내 외 여러 관련문헌 및 경험식 등을 분석하여 합리적인 지층별 지반정수를 산정하였다.

<표 3-1> 설계적용 지반강도정수

구 분	γ_t (kN/m ³)	γ_{sat} (kN/m ³)	C (kN/m ²)	ϕ (°)	비고
매립층	17.0	18.0	10.0	20.0	-
퇴적층	17.0	18.0	10.0	20.0	-
풍화토	19.0	20.0	20.0	32.0	-
풍화암	20.0	21.0	30.0	33.0	-

3.2 지진계수

가. 지진구역에 따른 설계지진계수

지진계수는 「KDS 17 10 00 : 2018 내진설계 일반, 국토교통부」 기준을 반영하여 다음과 같이 산정하였다.

<표 3-2> 지진구역구분

지진구역	행정구역	
I	시	서울, 인천, 대전, 부산, 대구, 울산, 화성
	도	경기도, 강원도 남부(1), 충청남도, 충청북도, 경상남도, 경상북도, 전라북도, 전라남도 북동부(2)
II	도	강원도 북부(3), 전라남도 남서부(4), 제주도

- 주] 1. 강원도남부(군,시) : 영월, 정선, 삼척시, 강릉시, 동해시, 원주시, 태백시
 2. 전남북동부(군,시) : 장성, 담양, 곡성, 구례, 장흥, 보성, 여천, 화순, 광양시, 나주시 등
 3. 강원도북부(군,시) : 홍천, 철원, 화천, 횡성, 평창, 양구, 인제, 고성, 양양, 춘천시, 속초시
 4. 전남남서부(군,시) : 무안, 신안, 완도, 영광, 진도, 해남, 영암, 강진, 고흥, 함평, 목포시

<표 3-3> 지진구역계수

지진구역	I	II
지진구역계수, Z	0.11	0.07

<표 3-4> 위험도 계수

재현주기	50년	100년	200년	500년	1000년	2400년
위험도계수	0.4	0.57	0.73	1.0	1.4	2.0
선정				◎		

<표 3-5> 유효수평지반가속도(S)

구 분	지진구역계수	위험도계수
유효수평지반가 속도(S)	0.11(전라북도)	1.0(500년)
	0.11 × 1.0 = 0.11	

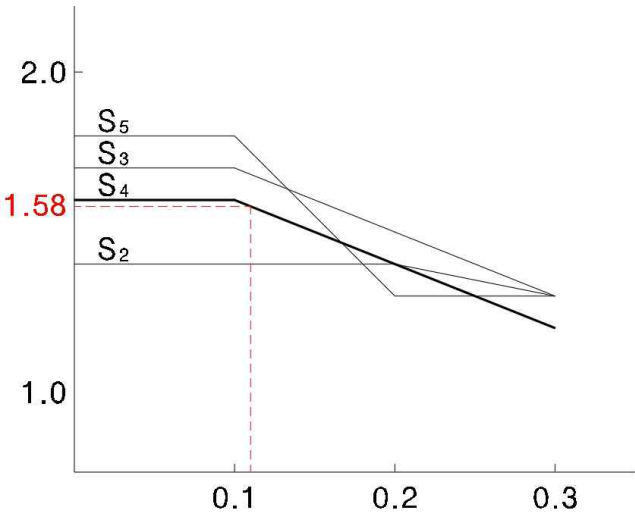
나. 지반증폭계수 산정

<표 3-6> 지반의 분류

지반종류	지반종류의 호칭	분류기준	
		기반암 깊이, H(m)	토층평균전단파속도, $V_{s, soil}$ (m/s)
S ₁	암반지반	1미만	-
S ₂	얇고 단단한 지반	1~20이하	260 이상
S ₃	얇고 연약한 지반		260 미만
S ₄	깊고 단단한 지반	20초과	180 이상
S ₅	깊고 연한한 지반		180 미만
S ₆	부지 고유의 특성평가가 요구되는 지반		

<표 3-7> 지반증폭계수

지진구역	단주기지반증폭계수, F_a			장주기지반증폭계수, F_v		
	S ≤ 0.1	S = 0.2	S = 0.3	S ≤ 0.1	S = 0.2	S = 0.3
S ₂	1.4	1.4	1.3	1.5	1.4	1.3
S ₃	1.7	1.5	1.3	1.7	1.6	1.5
S ₄	1.6	1.4	1.2	2.2	2.0	1.8
S ₅	1.8	1.3	1.3	3.0	2.7	2.4



지반증폭계수, $F_a = 1.58$

<표 3-8> 과업구간 수평지진계수

구 분	유효수평지반가속도(S)	지반증폭계수
지진가속도 산정	0.11	1.58
	유효수평지반가속도 x 지반증폭계수 $0.11 \times 1.58 = 0.1738g$	
수평지진계수 산정결과	$0.1738g / 2g = 0.0869$	

4. 비탈면 안정성 검토

4.1 비탈면 안정성검토 방법

사면의 안정해석은 일반적으로 활동면을 여러 가지로 가정하여 활동체에 작용하는 힘의 평형을 생각하고 안전율을 계산하며, 안전율 중 최소치를 택하여 그 사면의 안전율로 정한다. 사면안정 해석방법은 여러 가지가 제시되고 있으나, 각각의 해석방법으로 구한 안전율은 큰 차이가 없다고 알려져 있다(Fredlund et. al. 1981). 다만, 예외로 Fellenius 방법은 다른 방법에 비해 최대 60%까지 차이가 발생할 수도 있으므로 적용에 있어서 유의해야 한다.(Whitman & Bailey, 1967)

본 검토에서는 비교적 간단하여 이해가 쉽고 계산결과가 실제 안전율에 근사한다고 알려진 모멘트 평형에 의한 「Bishop의 간편법」을 이용하여 검토하였다.

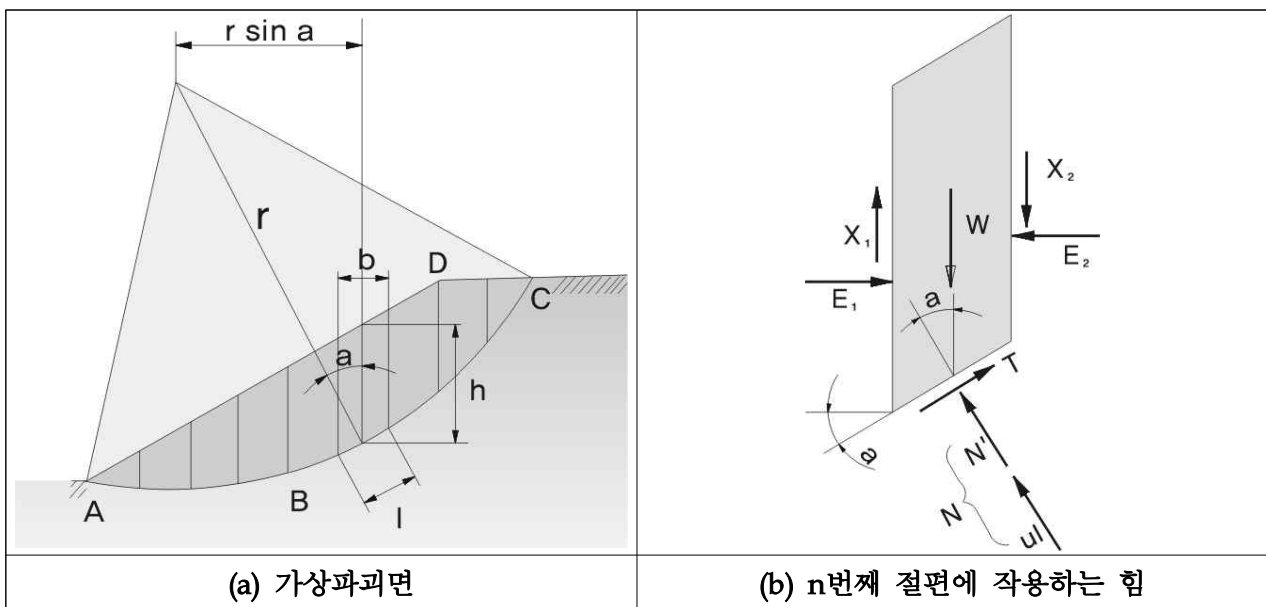
$$F.S = \frac{1}{\sum W \cdot \sin \alpha} \sum \{cb + (W - ub)\tan \phi\} \frac{1}{m(\alpha)}$$

$$m(\alpha) = \cos \alpha + \frac{\tan \phi \cdot \sin \alpha}{F.S}$$

여기서, F.S : 안전율, ϕ : 분할편의 내부마찰각

b : 분할편의 폭(m), W : 분할편의 전중량(tf/m)

α : 분할편의 경사각($^{\circ}$), u : 간극수압(tf/m²)



<그림 4-1> 비탈면 안정성검토 방법

4.2 기준안전율

<표 4-1> 쌓기비탈면 기준안전율

구 분	기준안전율	
건기시	• 쌓기체 내에 지하수가 없는 것으로 해석	$F_s > 1.5$
우기시	• 지하수 조건은 지반조사 결과, 지형조건 및 배수조건 등을 종합적으로 판단하여 안정성에 가장 불리한 상태가 발생하는 조건에 대하여 수행 • 한쪽쌓기 한쪽깎기 비탈면에서는 상기조건에 따라 산정한 지하 수위 또는 침투해석을 통한 지하수위를 이용하여 해석 • 쌓기 표면에 강우침투가 발생하는 경우에는 설계계획빈도에 따른 해당지역의 강우강도, 강우지속시간 등을 고려하여 강우침투를 고려한 해석 실시	$F_s > 1.3$
지진시	• 지진관성력은 파괴토체의 중심에 수평방향으로 작용시킴 • 지하수 조건은 실제측정 또는 평상시의 지하수위 적용	$F_s > 1.1$

<표 4-2> 깎기비탈면 기준안전율

구 분	기준안전율	
건기시	• 지하수가 없는 것으로 해석	$F_s > 1.5$
우기시	• 연암 및 경암 등으로 구성된 암반비탈면의 경우, 인장균열 내 지하수 포화 높이나 활동면을 따라 지하수로 포화된 비탈면 높이의 1/2심도까지 지하수를 위치시키고 해석을 수행하며 이 경우 $F_s=1.2$를 적용 • 토층 및 풍화암으로 구성된 비탈면의 안정해석은 지하수위를 결정하여 해석하는 방법 또는 강우의 침투를 고려한 방법 사용가능 • 지하수위를 결정하여 해석하는 경우에는 현장 지반조사 결과, 지형조건, 배수조건과 설계계획빈도에 따른 해당지역의 강우강도, 강우지속시간 등을 고려하여 안정해석을 실시하며, 해석 시 적용한 설계정수와 해석방법을 명확히 기술($F_s=1.3$)	$F_s > 1.2 \sim 1.3$
지진시	• 지진관성력은 파괴토체의 중심에 수평방향으로 작용시킴 • 지하수 조건은 실제측정 또는 평상시의 지하수위 적용	$F_s > 1.1$
단 기	• 1년 이하 단기공사(시공중 포함) • 지하수 조건은 실제측정 또는 평상시의 지하수위 적용	$F_s > 1.1$

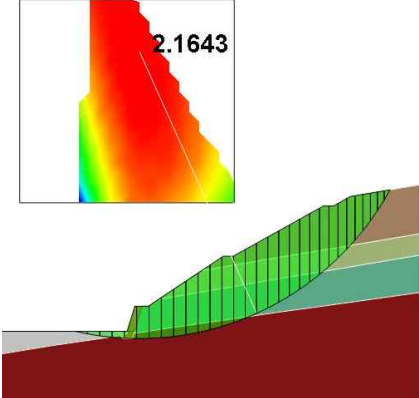
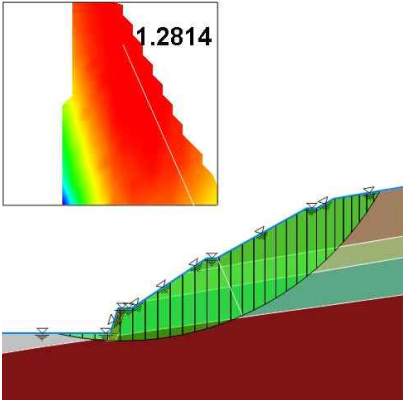
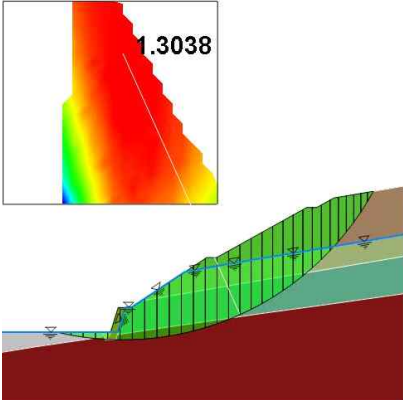
4.3 검토결과

선정된 단면에 대한 사면안정해석 프로그램(Soilworks)을 이용해 비탈면 안정해석을 수행한 결과 각각의 조건별 최소안전율을 정리하였으며, 표에서 보는바와 같이 모든 항목에 걸쳐 설계 기준 안전율보다 상회하므로 안정한 상태인 것으로 판단된다.

본 검토는 사면조성이 이루어진 후를 전제하에 분석하였고, 제한된 조사 성과를 이용하여 검토를 수행한 바 안정해석상 입력 자료가 현 지반의 물성치와 정확히 부합하는가 하는 점에 있어 한계를 지니고 있으므로, 시공 후 사면의 거동 등을 면밀히 관찰하여 이상 징후가 발견될 경우 즉시 시공을 중지한 후 감독원과 협의하여 대책을 수립하여야 한다.

<표 4-3> 사면안정해석 결과

구분	해석결과			기준안전율			판정	비고
	건기	우기	지진	건기	우기	지진		
소(국)2-무1 NO.3+14.00	2.16	1.28	1.30	1.50	1.20	1.10	OK	-

NO.3+14.00	
구분	해석결과
건기시	 SoilWorks® Safety Factor 0.4% +5.17371e+000 0.4% +4.98562e+000 0.9% +4.79753e+000 0.9% +4.60944e+000 0.7% +4.42135e+000 1.1% +4.23326e+000 1.5% +4.04517e+000 2.0% +3.85708e+000 2.0% +3.66900e+000 3.3% +3.48091e+000 4.6% +3.29282e+000 6.3% +3.10473e+000 7.4% +2.91664e+000 9.8% +2.72855e+000 14.4% +2.54046e+000 20.6% +2.35237e+000 24.3% +2.16428e+000
안전율	2.16 > 1.5 OK
우기시	 SoilWorks® Safety Factor 0.4% +3.87274e+000 0.4% +3.71079e+000 0.9% +3.54883e+000 0.7% +3.38688e+000 1.1% +3.22492e+000 1.1% +3.06296e+000 2.0% +2.90101e+000 2.2% +2.73905e+000 3.8% +2.57710e+000 3.5% +2.41514e+000 4.7% +2.25318e+000 5.3% +2.09123e+000 8.9% +1.92927e+000 13.7% +1.76732e+000 20.8% +1.60536e+000 26.4% +1.44340e+000 +1.28145e+000
안전율	1.28 > 1.2 OK
지진시	 SoilWorks® Safety Factor 0.4% +3.14046e+000 0.9% +3.02567e+000 0.6% +2.91088e+000 0.6% +2.79609e+000 1.1% +2.68129e+000 1.1% +2.56650e+000 2.1% +2.45171e+000 1.9% +2.33692e+000 2.4% +2.22213e+000 3.6% +2.10733e+000 3.9% +1.99254e+000 4.7% +1.87775e+000 6.4% +1.76296e+000 9.2% +1.64817e+000 14.2% +1.53338e+000 20.6% +1.41858e+000 26.8% +1.30379e+000
안전율	1.30 > 1.1 OK

<그림 4-2> 비탈면 안정성 검토결과

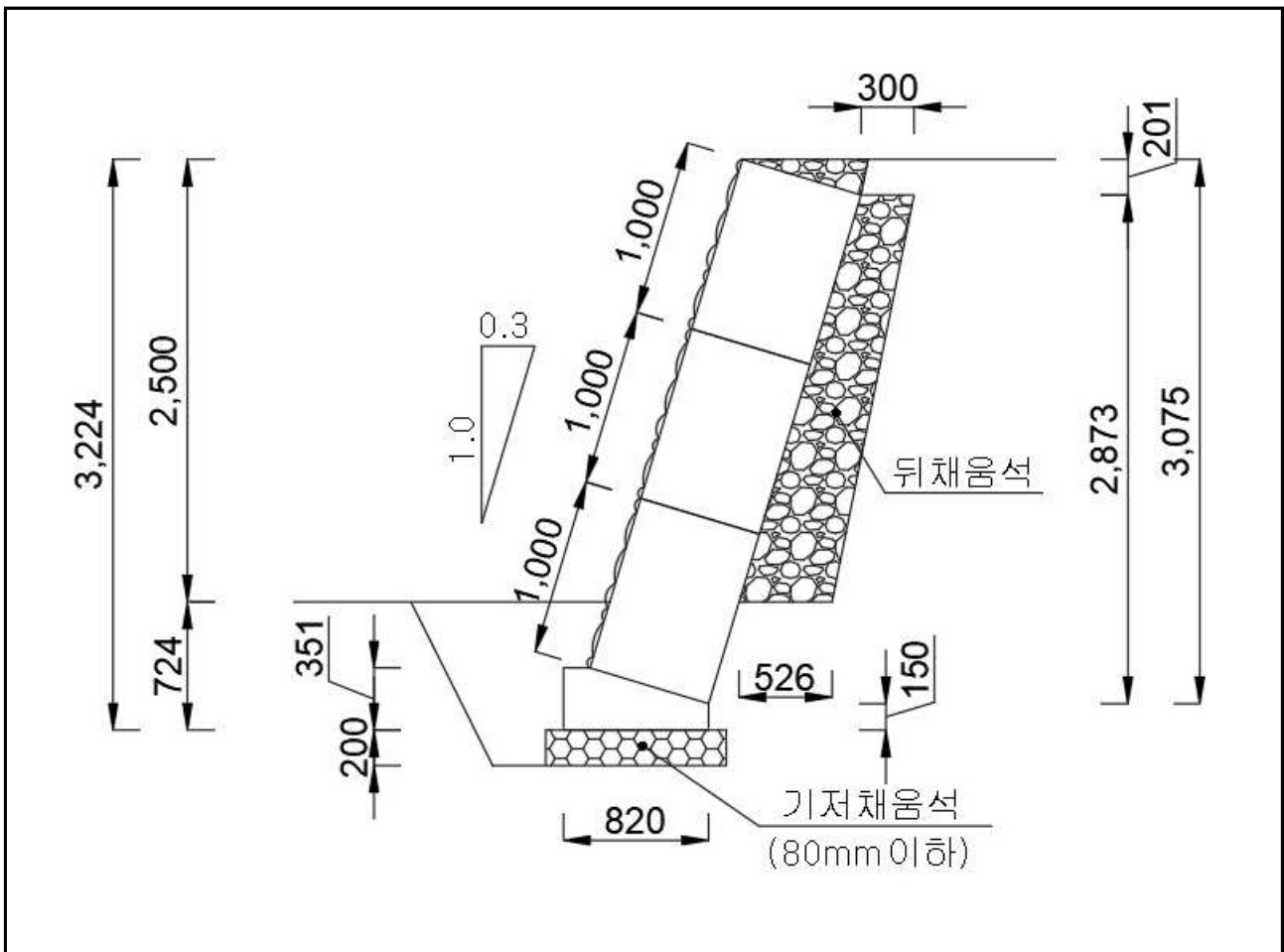
5. 옹벽 안정성 검토

5.1 개요

사업부지 절·성토 사면구간 안정대책으로 계획한 옹벽구조물에 대한 안정성검토는 시공 시 충실한 다짐과 지내력시험을 반드시 시행하여 기초지반의 지지력을 확인하는 조건으로 다음과 같이 설계조건을 적용하여 구조물기초설계기준을 준수하여 검토하였다.

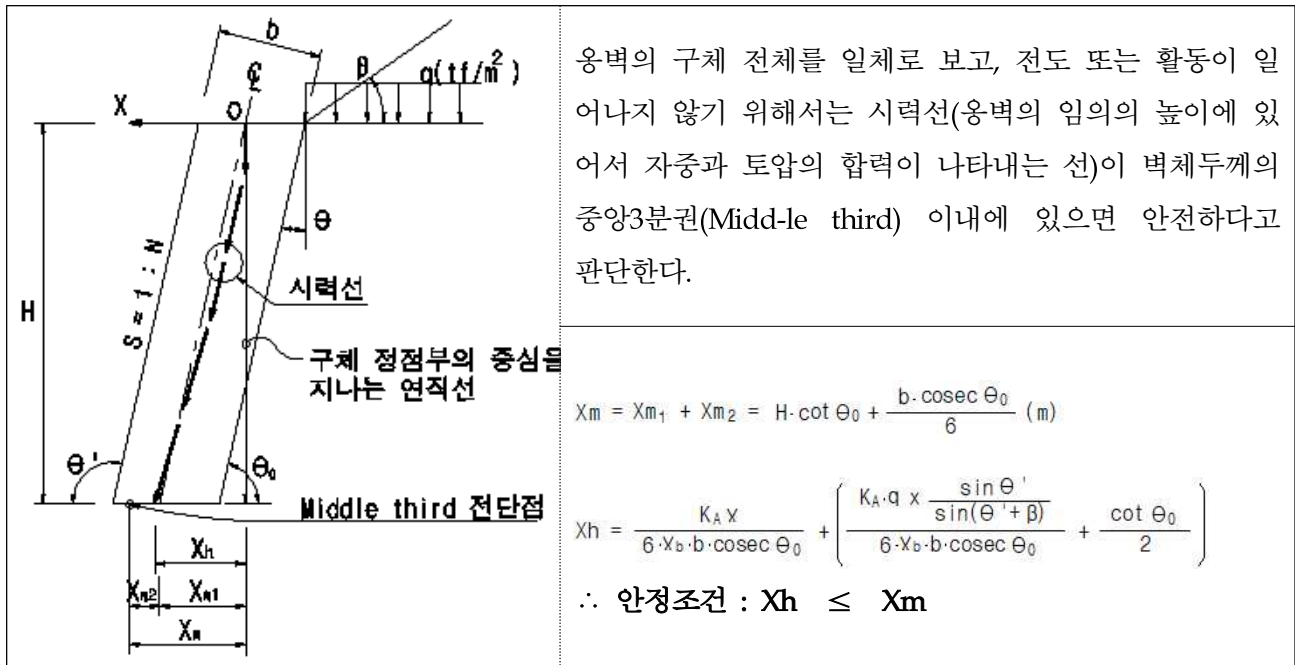
<표 5-1> 구조검토 단면요약

검토위치	옹벽형식	옹벽높이 (전체높이)	상부사면		상재하중	
			기울기	높이	사하중	활하중
소(국)2-무1 NO.3+14.00	축조블럭	3.22	1:1.5 ~ 1:1.8	11m	-	-



<그림 5-1> 옹벽 검토단면

5.2 축조블럭 안정조건



<그림 5-2> 축조블럭 안정조건

5.3 옹벽구조검토 결과

금회 계획한 옹벽의 제원 및 상재하중 적용조건을 고려하여 안정성 검토를 실시한 결과 허용안전율을 상회하는 것으로 분석되어 구조적으로 안정성을 확보하고 있는 것으로 분석되었다

<표 5-2> 축조블럭 구조계산 결과(부록. 축조블럭 구조계산서 참조)

구분	전 도			지지력(kPa)		
	$X_m(X')$	X_h	비고	최대 반력	허용 지지력	비고
축조블럭(H=3.22m)	1.088	1.058	O.K	67.682	200	O.K

6. 결론

- 본 검토는 「신규마을(에코빌리지2차)」 중 깎기 비탈면에 대한 안정성검토를 수행한 것으로 계획단면의 적정성을 제시방 및 기준에 근거하여 충실히 설계되었음을 확인하였으며 이에 대한 검토 결과는 다음과 같음.
- 급회 검토구간은 노출높이 13.5m의 깎기 비탈면으로 “한계평형해석법”을 이용한 원호파괴로 검토였으며 검토결과 기준안전율을 만족하는 것으로 검토됨.
- 또한 비탈면에 계획된 축조블럭에 구조검토를 수행한 결과 각 기준서에 제시된 허용안전율을 만족하므로 본 구조물은 안전하다고 판단됨.
- 그러나 안정성 검토시 적용된 지반정수 및 지층분포는 제한된 조사결과에 의한 추정상태이므로 본 시공 중에는 설계단계에서 예상치 못한 지층확인을 위한 확인조사를 실시함이 바람직할 것으로 판단되며, 확인된 지층이 설계시보다 불리하게 판단될 경우 지반조사 및 안정성 검토를 재 실시해야 함.
- 또한 옹벽기초 시공시 반드시 평판재하시험 등을 수행하여 기초지반의 지지력이 소요지지력을 확보하는지 확인해야 하며, 만약 소요지지력을 확보하지 못할 경우 치환공법등의 대책방안을 수립해야 함.
- 또한 옹벽 배면에 우수 침투로 인한 수압이 발생하지 않도록 옹벽 상부와 뒤채움 구간 배수 처리방안을 수립, 시행해야 함.

부 록

1. 블록제원
2. 구조계산서
3. 비탈면 안정성해석 전산파일

1. 블럭제원

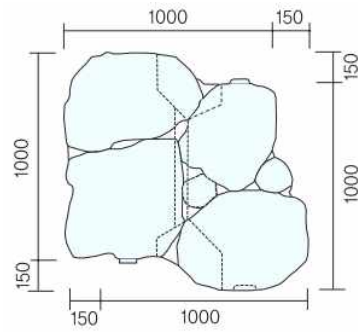
제 품 사 진

치수 및 m²당 수량

평 면 도

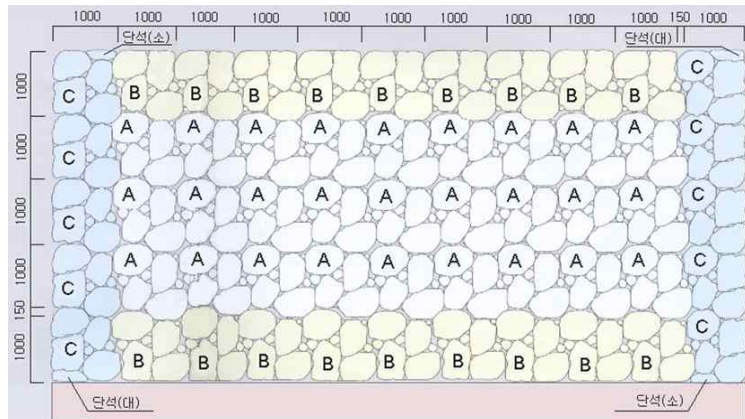
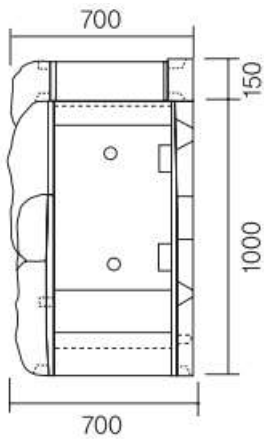
◆보통옹벽블록(대형)
환경축조블록(컬러, 무색)

폭(W)	1,000
길 이(L)	700
두께(H)	1000
허용공차	±5
m ² 당 수량	1.0



정면도

조립 평면도



(컬러, SK-C10)



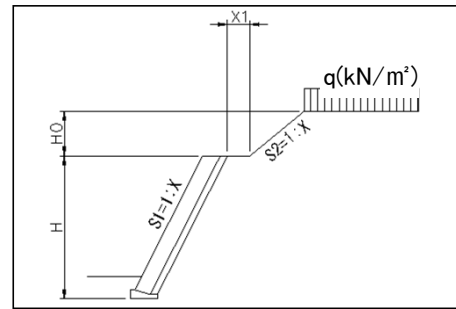
(무색, SK-G10)

2. 축조블럭 구조계산서

■ 축조블럭 구조계산서(H=3.2m)

1.설계조건

뒤채움토사		C1	
	호칭	모래 및 자갈	
	토질		
	ϕ	35	°
	γ	20.0	kN/m ³
벽체	뒤길이	70	cm
	전면구배(S1)	0.3	
재하중	높이(H)	3.2	m
	종류	없음	
성토	등분포하중	0.0	kN/m ²
	법면구배(S2)	1.5	
	높이(H0)	11.0	m
	소단쪽(X1)	1.0	m
콘크리트의 단위체적중량 γ_c		24.00	kN/m ³
블록식옹벽의 단위체적중량 γ_b		24.00	kN/m ³



2.안정조건

전도에 대해서
시력선저판위치가 미들서드내에 들어감

3.하중계산

상재하중의 환산성토 높이
 $\boxed{a}$ 로부터

$$H_1 = \frac{q}{\gamma}$$

q	0.0	kN/m ²
γ	20.0	kN/m ³
H1	0.00	

인상성토고비 $(H_0+H_1)/H$ 3.42

인상성토고비가 1이 넘기때문에, $(H0+H1)=H$ 로 계산
 $H0=11.000$, $H1=0.000$ 로부터, $H1$ 을조정

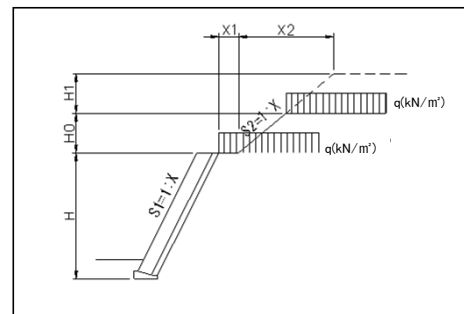
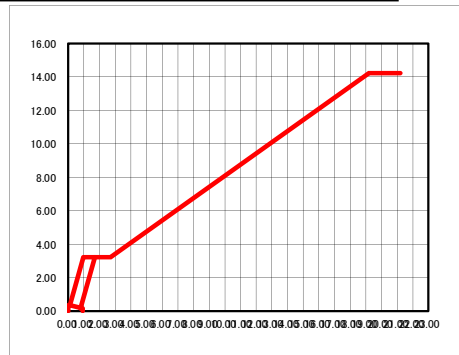
H1= -7.78 m
H0+H1= 3.22 m

환산하중

X1=	1.0	m
X2=	4.83	m

$$X = X_1 + \frac{X_2}{2}$$

X= 3.415 m



상재하중의 환산

Terzaghi의 지반응력이론으로부터 모멘트 환산한 식에 의해 산출

$$q_w = \gamma \cdot (H_0 + H_l) \cdot I_w$$

$$= \gamma \cdot (H_0 + H_I) \left[1 + \left(\frac{X}{H} \right)^2 - \frac{2}{\pi} \left\{ 1 + \left(\frac{X}{H} \right)^2 \right\} \tan^{-1} \left(\frac{X}{H} \right) - \frac{2}{\pi} \left(\frac{X}{H} \right) \right]$$

γ	20.00	kN/m ³
H0	11.00	m
H1	-7.78	m
H	3.22	m
X	3.42	m
X/H	1.061	

$$q_w = 22.370 \text{ kN/m}^2$$

4.안정계산

전도

Coulomb의 주동토압공식으로부터, 주동토압계수를 구한다.

$$K_A = \frac{\sin^2(\theta + \phi)}{\sin^2 \theta \cdot \sin(\theta - \delta) \left\{ 1 + \frac{\sin(\phi + \delta) \cdot \sin(\phi - i)}{\sin(\theta - \delta) \cdot \sin(\theta - i)} \right\}^2}$$

$\theta =$	106.70	(°)
$i =$	0.00	(°)
$\phi =$	35.00	(°)
$\delta = 2/3 \phi =$	23.33	(°)
$\theta_0 =$	73.30	(°)
$q_w =$	22.370	kN/m ²

$$K_a = 0.143$$

$$X_h = \frac{K_A \cdot \gamma}{6\gamma_b \cdot b \cdot \cos \theta_0} \cdot H^2 + \left\{ \frac{K_A \cdot q_w \cdot \sin \theta}{2\gamma_b \cdot b \cdot \cos \theta_0} + \frac{\cot \theta_0}{2} \right\} H$$

$b =$	0.70	m
$\gamma_b =$	24.00	kN/m ³

$$X_h = 1.058 \text{ m}$$

미들서드 선단위치

$$X' = h \cdot \cot \theta_0 + \frac{b \cdot \cos \theta_0}{6}$$

$$X' = 1.088 \text{ m}$$

$$1.088 \quad X' > X_h \quad 1.058 \quad \text{OK}$$

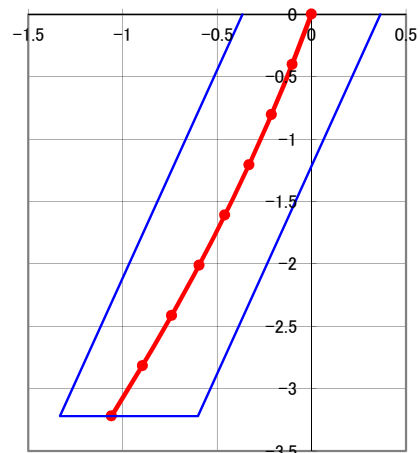
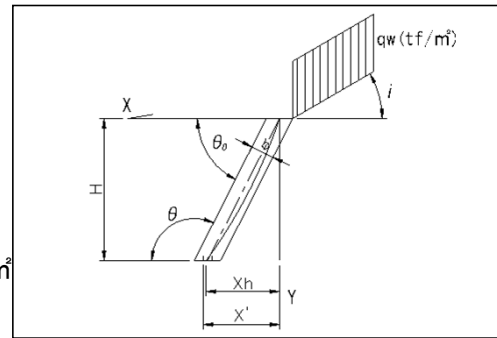
지지력

$$q_{\max} = \frac{b \cdot \gamma_b \cdot H_0 \cdot \cos \theta_0 + \gamma_c \left\{ 0.1H_1 + \frac{1}{2}(H_1 + H_2) \cdot (B - 0.1) \right\}}{B}$$

B:기초폭	0.82	m
H0:블록식수직고	2.87	m
H1:기초전면고	0.35	m
H2:기초후면고	0.15	m
γ_c	24.00	kN/m ³
γ_b	24.00	kN/m ³

$$q_{\max} = 67.682 \text{ kN/m}^2$$

$$200.0 \quad q_a > q_{\max} \quad 67.682 \quad \text{OK}$$



시력선도

3. 비탈면 안정해석 전산파일

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

*해석정보
+해석케이스 이름 : 건기시
+해석방법 : 사면안정(LEM) 해석

*단위
m, kN

*프로젝트 정보
+프로젝트명 : 신규마을(예코빌리지2차) 조성사업
+프로젝트 부제 :
+사용자이름 :
+고객이름 :
+날짜 : 2025-02-28 오후 5:21:12
+부가정보 :

*해석 결과

```

*Material
=====
This file includes material informations
ID      : Material index
rt      : Unit Weight [kN/m³ ]
rsat    : Saturated Unit Weight [kN/m³ ]
C        : Cohesion [kN/m² ]
phi     : Internal Friction Angle [Degree]
VC       : Variation in Cohesion [kN/m² ]
AF       : Anisotropic Function
NF       : Nonlinear Function
WL       : No Water Level considered
PPC      : Pore Pressure Coefficient
qs       : qs Value for Nail [kN/m² ]
pl       : Limit Soil Pressure [kN/m² ]
KsB      : Horizontal Subgrade Reaction [kN/m² ]
=====

```

=====														
ID	Name	rt	rsat	C	phi	VC	AF	NF	WL	PPC	qs	pl		
KsB														
=====														
e+003	1	매립층	1.700e+001	1.800e+001	1.000e+001	20.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	2	퇴적층	1.700e+001	1.800e+001	1.000e+001	20.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003	3	풍화토	1.900e+001	2.000e+001	2.000e+001	32.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	4	풍화암	2.000e+001	2.100e+001	3.000e+001	33.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003	5	뒤채움토사	1.900e+001	2.000e+001	0.000e+000	30.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	6	옹벽	2.400e+001	2.400e+001	0.000e+000	35.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003														

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

*Property

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

*Boundary
-Arc Failure Surface

====	Name	Spacing	Grid Point (X,Z)	Grid Point (X,Z)	Grid Point (X,Z)	Grid Point (X,Z)
====	파괴면	1.000e+000	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)			(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
00)			(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)			(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)			(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
01)			(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)			(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)			(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
00)			(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)			(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)			(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
01)			(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)
00)			(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)
00)			(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)			(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)			(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)			(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
01)			(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)			(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
00)			(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)			(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)			(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)			(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)
01)			(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)			(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
00)			(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)			(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)			(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
01)			(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)			(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)			(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
00)			(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)						

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업

	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

01) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000)

00) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000)

00) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001)

01) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001)

01) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001)

01) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000)

00) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000)

00) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000)

00) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001)

01) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001)

01) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001)

01) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000)

00) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000)

00) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001)

01) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001)

01) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001)

01) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001)

01) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000)

00) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000)

00) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001)

01) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001)

01) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001)

01) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001)

01) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000)

00) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000)

00) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001)

01) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001)

01) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001)

01) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000)

00) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000)

00) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000)

00) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001)

01) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001)

01) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001)

01) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000)

00) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000)

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)
00)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
01)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
00)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
01)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
01)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)		

Radius	Type	Searching	Passing Point (X,Z)	Arc Inc.	No.Arc	Layer	Limit
Arc	Defined		(1.3246e+001, 6.2950e+000)	1.000e+000	1		-

*Load

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

*Layer Set

nt (X,Z)	Name	Mat.ID	Point (X,Z)	Point (X,Z)	Point (X,Z)	Poi
Smart Surface 1 25e+001)	1	(2.0142e+001, 1.3072e+001)	(2.2187e+001, 1.3425e+001)	(2.7975e+001, 1.4425e+001)	(3.4069e+001, 1.54	
20e+001)		(4.2169e+001, 1.6791e+001)	(4.2169e+001, 2.1680e+001)	(3.5036e+001, 2.0477e+001)	(3.3313e+001, 1.95	
Smart Surface 2 91e+001)	2	(3.2313e+001, 1.9520e+001)	(2.3313e+001, 1.4520e+001)	(2.2313e+001, 1.4520e+001)	(2.7975e+001, 1.22	
25e+001)		(1.5815e+001, 1.0188e+001)	(1.6386e+001, 1.0291e+001)	(2.2187e+001, 1.1291e+001)	(2.7975e+001, 1.22	
Smart Surface 3 72e+000)	3	(3.4069e+001, 1.3291e+001)	(4.2169e+001, 1.4658e+001)	(4.2169e+001, 1.6791e+001)	(3.4069e+001, 1.54	
91e+001)		(2.7975e+001, 1.4425e+001)	(2.2187e+001, 1.3425e+001)	(2.0142e+001, 1.3072e+001)	(2.7975e+001, 8.94	
88e+001)		(1.3353e+001, 6.8004e+000)	(1.6386e+001, 7.2674e+000)	(2.2187e+001, 8.1071e+000)	(2.7975e+001, 8.94	
Smart Surface 4 87e+000)	4	(3.4069e+001, 9.7787e+000)	(4.2169e+001, 1.0921e+001)	(4.2169e+001, 1.4658e+001)	(3.4069e+001, 1.32	
04e+000)		(2.7975e+001, 1.2291e+001)	(2.2187e+001, 1.1291e+001)	(1.6386e+001, 1.0291e+001)	(1.5815e+001, 1.01	
50e+000)		(1.4813e+001, 9.5195e+000)	(1.4169e+001, 9.5195e+000)	(4.2169e+001, 1.0921e+001)	(3.4069e+001, 9.77	
31e+000)		(5.3333e-003, 1.9506e-002)	(4.2169e+001, 1.9506e-002)	(4.2169e+001, 1.0921e+001)	(3.4069e+001, 9.77	
Smart Surface 5 04e+000)	6	(2.7975e+001, 8.9472e+000)	(2.2187e+001, 8.1071e+000)	(1.6386e+001, 7.2674e+000)	(1.3353e+001, 6.80	
60e+000)		(1.3246e+001, 6.4449e+000)	(1.3246e+001, 6.2950e+000)	(1.2426e+001, 6.2950e+000)	(1.2126e+001, 6.29	
Smart Surface 6 88e+000)	3	(1.1979e+001, 6.5888e+000)	(1.0880e+001, 6.4196e+000)	(5.1216e+000, 5.5788e+000)	(5.3333e-003, 4.74	
Smart Surface 7 50e+000)	5	(1.2426e+001, 6.2950e+000)	(1.3246e+001, 6.2950e+000)	(1.3246e+001, 6.4449e+000)	(1.3353e+001, 6.80	
		(1.4169e+001, 9.5195e+000)	(1.3438e+001, 9.5195e+000)	(1.2688e+001, 7.0195e+000)	(1.2576e+001, 6.64	
		(1.2426e+001, 6.6460e+000)	(5.1216e+000, 5.5788e+000)	(1.0880e+001, 6.4196e+000)	(1.1979e+001, 6.58	
		(1.1764e+001, 7.0195e+000)	(5.3333e-003, 7.0195e+000)			
		(1.1764e+001, 7.0195e+000)	(1.1979e+001, 6.5888e+000)	(1.2126e+001, 6.2950e+000)	(1.2426e+001, 6.29	
		(1.2426e+001, 6.6460e+000)	(1.2576e+001, 6.6460e+000)	(1.2688e+001, 7.0195e+000)		

*Analysis Case

=====

This file includes analysis control informations

Name : Analysis Case Name

Type : Analysis Type (LEM, CS)

Method : Bishop, Fellenius, Janbu, Spencer, Morgenstern-Price, Sarma

Use F : LEM User Defined Function

alpha : Cohesion of slope [kN/m²]

beta : Friction Angle of slope [Degree]

MN : Maximum Number of Iterations

No.S : Number of Slices

Tol : Safety Calculation Tolerance

TH : Minimum Thickness of Slice [m]

Dir : Slope Direction (LR, RL)

Seg : Slice Segmentation (Length, Width)

CRF : Consider Reinforcement Force (0,X)

RL : Reinforcement Load (Stress, Force)

=====

Name	Type	Method	Use F	alpha	Beta	MN	No.S	Tol	TH	Dir	Seg	CRF	RL
건기시	LEM	Bishop	-	-	-	1000	30	1.000e-002	1.000e-002	RL	Length	X	Stress

*Define Analysis Model

+Layer Set : base, 0, Smart Surface 1, Smart Surface 2, Smart Surface 3, Smart Surface 4, Smart Surface 5, Smart Surface 6, Smart Surface 7

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업

	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

+Boundary Set : 파괴면
+Load Set : Self Weight
+Water Level : -

*Minimum Factor of Safety

CENTER ID	RADIUS ID	FACTOR OF SAFETY
358	1	2.1643

```

=====
This file includes slice informations
ID          : Slice index
Length      : Length of slice base [m]
Xc          : Horizontal coordinate at the slice base center [m]
Weight      : Total soil weight [kN]
A           : Slice rotation angle [Degree]
PP          : Pore poressure [kN/m2]
SL          : Soil layer index includes the slice base mid point
RSD         : Reinforcement(Inclusion) force along the slice base normal direction [kN/m2]
NORMAL F    : Strut or external moment load along the slice base normal direction [kN]
SHEAR F     : Strut or external moment load along the slice base tangential direction [kN]
Sig         : Normal stress along the slice base normal direction [kN/m2]
Tau         : Shear stress along the slice base tangential direction [kN/m2]
VLOAD       : external force load for global vertical direction [kN]
HLOAD       : external force load for global horizontal direction [kN]
SEIS-HOR    : Seismic load for horizontal direction [kN]
=====

```

This file includes slice informations

```

ID          : Slice index
Length      : Length of slice base [m]
Xc          : Horizontal coordinate at the slice base center [m]
Weight      : Total soil weight [kN]
A           : Slice rotation angle [Degree]
PP          : Pore poressure [kN/m2]
SL          : Soil layer index includes the slice base mid point
RSD         : Reinforcement(Inclusion) force along the slice base normal direction [kN/m2]
NORMAL F    : Strut or external moment load along the slice base normal direction [kN]
SHEAR F     : Strut or external moment load along the slice base tangential direction [kN]
Sig         : Normal stress along the slice base normal direction [kN/m2]
Tau         : Shear stress along the slice base tangential direction [kN/m2]
VLOAD       : external force load for global vertical direction [kN]
HLOAD       : external force load for global horizontal direction [kN]
SEIS-HOR    : Seismic load for horizontal direction [kN]
=====

```

SLIP SURFACE BOUNDARY TYPE : CIRCULAR BOUNDARY

CENTER POINT INDEX : 358

CENTER POINT COORDINATE : X = 1.3915E+01 Z = 3.4847E+01

RADIUS INDEX AT THE CURRENT CENTER POINT : 1

RADIUS OF CURRENT CIRCLE : 2.8560E+01

FACTOR OF SAFETY (Mr / Md) : 2.1643 (6.2699E+04 / 2.8970E+04)

ID	LENGTH DN	XC DT	WEIGHT EL	A(DEGREE) ER	PP VLOAD	SL HLOAD	RSD SEIS-HOR	NORMAL F	SHEAR F	SIG	TAU
1	1.2348E+00	8.0933E+00	2.8913E+00	-1.1764E+01	0.0000E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	4.5926E+00	2.2870E+0
1	5.6709E+00	1.3049E+01	0.0000E+00	-1.2730E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.5926E+00	2.2870E+0
2	1.2348E+00	9.3070E+00	8.1362E+00	-9.2870E+00	0.0000E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	8.5935E+00	2.5370E+0
1	1.0611E+01	1.4475E+01	1.2730E+02	-1.4329E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1459E+01	2.7161E+0
3	1.2348E+00	1.0529E+01	1.2213E+01	-6.8095E+00	0.0000E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	1.1459E+01	2.7161E+0
1	1.4150E+01	1.5497E+01	1.4329E+02	-1.6036E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.1459E+01	2.7161E+0
4	1.2348E+00	1.1758E+01	1.5171E+01	-4.3321E+00	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	1.3682E+01	3.8885E+0
1	1.6895E+01	2.2187E+01	1.6036E+02	-1.8376E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.3682E+01	3.8885E+0
5	1.2348E+00	1.2991E+01	5.2345E+01	-1.8547E+00	0.0000E+00	7	0.0000E+00	0.0000E+00	0.0000E+00	4.2863E+01	3.0013E+0
1	5.2927E+01	1.7124E+01	1.8376E+02	-2.0259E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	4.2863E+01	3.0013E+0
6	1.2348E+00	1.4225E+01	7.9050E+01	6.2272E-01	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	6.3663E+01	7.1343E+0
1	7.8612E+01	4.0707E+01	2.0259E+02	-2.4244E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.3663E+01	7.1343E+0
7	1.2348E+00	1.5459E+01	8.5623E+01	3.1001E+00	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	6.7593E+01	7.3896E+0
1	8.3465E+01	4.2163E+01	2.4244E+02	-2.8002E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	6.7593E+01	7.3896E+0
8	1.2348E+00	1.6690E+01	1.0142E+02	5.5776E+00	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	7.8861E+01	8.1213E+0
1	9.7379E+01	4.6338E+01	2.8002E+02	-3.1668E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	7.8861E+01	8.1213E+0
9	1.2348E+00	1.7916E+01	1.1503E+02	8.0550E+00	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	8.8373E+01	8.7390E+0
1	1.0912E+02	4.9863E+01	3.1668E+02	-3.5076E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	8.8373E+01	8.7390E+0
10	1.2348E+00	1.9134E+01	1.2687E+02	1.0532E+01	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	9.6541E+01	9.2695E+0
1	1.1921E+02	5.2889E+01	3.5076E+02	-3.8097E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	9.6541E+01	9.2695E+0
11	1.2348E+00	2.0343E+01	1.3686E+02	1.3010E+01	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	1.0339E+02	9.7139E+0
1	1.2766E+02	5.5425E+01	3.8097E+02	-4.0623E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0339E+02	9.7139E+0
12	1.2348E+00	2.3887E+01	1.4497E+02	1.5487E+01	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	1.0893E+02	1.0074E+0
2	1.3451E+02	5.7479E+01	4.0623E+02	-4.2570E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0893E+02	1.0074E+0
13	1.2348E+00	2.2722E+01	1.4555E+02	1.7965E+01	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	1.0883E+02	1.0067E+0
2	1.3438E+02	5.7442E+01	4.2570E+02	-4.3890E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0883E+02	1.0067E+0
14	1.2348E+00	2.1539E+01	1.4109E+02	2.0442E+01	0.0000E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	1.0503E+02	9.8207E+0
1	1.2969E+02	5.6034E+01	4.3890E+02	-4.4611E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0503E+02	9.8207E+0
15	1.2348E+00	2.5035E+01	1.4131E+02	2.2920E+01	0.0000E+00	3	0.0000E+00	0.0000E+00	0.0000E+00	1.0725E+02	8.7015E+0
1	1.3243E+02	4.9649E+01	4.4611E+02	-4.4026E+02	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	1.0725E+02	8.7015E+0

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업

	Company		Client	
	Author		File Name	sec-a_SSB_건기시.txt

```

16 1.2348E+00 2.6161E+01 1.4019E+02 2.5397E+01 0.0000E+00 3 0.0000E+00 0.0000E+00 0.0000E+00 1.0667E+02 8.6652E+0
1 1.3171E+02 4.9441E+01 4.4026E+02 -4.2844E+02 0.0000E+00 0.0000E+00 0.0000E+00
17 1.2348E+00 2.7265E+01 1.3749E+02 2.7874E+01 0.0000E+00 3 0.0000E+00 0.0000E+00 0.0000E+00 1.0503E+02 8.5633E+0
1 1.2970E+02 4.8860E+01 4.2844E+02 -4.1099E+02 0.0000E+00 0.0000E+00 0.0000E+00
18 1.2348E+00 2.8343E+01 1.3331E+02 3.0352E+01 0.0000E+00 3 0.0000E+00 0.0000E+00 0.0000E+00 1.0238E+02 8.3975E+0
1 1.2642E+02 4.7914E+01 4.1099E+02 -3.8846E+02 0.0000E+00 0.0000E+00 0.0000E+00
19 1.2348E+00 2.9395E+01 1.2772E+02 3.2829E+01 0.0000E+00 3 0.0000E+00 0.0000E+00 0.0000E+00 9.8737E+01 8.1698E+0
1 1.2192E+02 4.6615E+01 3.8846E+02 -3.6153E+02 0.0000E+00 0.0000E+00 0.0000E+00
20 1.2348E+00 3.0417E+01 1.2087E+02 3.5307E+01 0.0000E+00 3 0.0000E+00 0.0000E+00 0.0000E+00 9.4150E+01 7.8831E+0
1 1.1626E+02 4.4979E+01 3.6153E+02 -3.3104E+02 0.0000E+00 0.0000E+00 0.0000E+00
21 1.2348E+00 3.1409E+01 1.1289E+02 3.7784E+01 0.0000E+00 3 0.0000E+00 0.0000E+00 0.0000E+00 8.8662E+01 7.5402E+0
1 1.0948E+02 4.3023E+01 3.3104E+02 -2.9797E+02 0.0000E+00 0.0000E+00 0.0000E+00
22 1.2348E+00 3.2368E+01 1.0280E+02 4.0262E+01 0.0000E+00 2 0.0000E+00 0.0000E+00 0.0000E+00 9.2070E+01 4.3511E+0
1 1.1369E+02 2.4826E+01 2.9797E+02 -2.4344E+02 0.0000E+00 0.0000E+00 0.0000E+00
23 1.2348E+00 3.3293E+01 8.7895E+01 4.2739E+01 0.0000E+00 2 0.0000E+00 0.0000E+00 0.0000E+00 8.0186E+01 3.9185E+0
1 9.9015E+01 2.2358E+01 2.4344E+02 -1.9266E+02 0.0000E+00 0.0000E+00 0.0000E+00
24 1.2348E+00 3.4181E+01 7.7909E+01 4.5216E+01 0.0000E+00 2 0.0000E+00 0.0000E+00 0.0000E+00 7.2608E+01 3.6427E+0
1 8.9657E+01 2.0784E+01 1.9266E+02 -1.4367E+02 0.0000E+00 0.0000E+00 0.0000E+00
25 1.2348E+00 3.5032E+01 6.7920E+01 4.7694E+01 0.0000E+00 1 0.0000E+00 0.0000E+00 0.0000E+00 6.4688E+01 3.3544E+0
1 7.9877E+01 1.9140E+01 1.4367E+02 -9.7474E+01 0.0000E+00 0.0000E+00 0.0000E+00
26 1.2348E+00 3.5843E+01 5.4507E+01 5.0171E+01 0.0000E+00 1 0.0000E+00 0.0000E+00 0.0000E+00 5.2743E+01 2.9197E+0
1 6.5127E+01 1.6659E+01 9.7474E+01 -5.8129E+01 0.0000E+00 0.0000E+00 0.0000E+00
27 1.2348E+00 3.6613E+01 4.0996E+01 5.2649E+01 0.0000E+00 1 0.0000E+00 0.0000E+00 0.0000E+00 3.9880E+01 2.4515E+0
1 4.9245E+01 1.3988E+01 5.8129E+01 -2.7469E+01 0.0000E+00 0.0000E+00 0.0000E+00
28 1.2348E+00 3.7340E+01 2.8139E+01 5.5126E+01 0.0000E+00 1 0.0000E+00 0.0000E+00 0.0000E+00 2.6766E+01 1.9742E+0
1 3.3050E+01 1.1264E+01 2.7469E+01 -6.7951E+00 0.0000E+00 0.0000E+00 0.0000E+00
29 1.2348E+00 3.8024E+01 1.6104E+01 5.7603E+01 0.0000E+00 1 0.0000E+00 0.0000E+00 0.0000E+00 1.3486E+01 1.4908E+0
1 1.6652E+01 8.5063E+00 6.7951E+00 2.7078E+00 0.0000E+00 0.0000E+00 0.0000E+00
30 1.2348E+00 3.8663E+01 5.0590E+00 6.0081E+01 0.0000E+00 1 0.0000E+00 0.0000E+00 0.0000E+00 1.4284E-01 1.0052E+0
1 1.7638E-01 5.7354E+00 -2.7078E+00 0.0000E+00 0.0000E+00 0.0000E+00 0.0000E+00

```

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

*해석정보
+해석케이스 이름 : 우기시
+해석방법 : 사면안정(LEM) 해석

*단위
m, kN

*프로젝트 정보
+프로젝트명 : 신규마을(예코빌리지2차) 조성사업
+프로젝트 부제 :
+사용자이름 :
+고객이름 :
+날짜 : 2025-02-28 오후 5:21:12
+부가정보 :

*해석 결과

```

=====
*Material
=====
This file includes material informations
ID      : Material index
rt      : Unit Weight [kN/m³ ]
rsat    : Saturated Unit Weight [kN/m³ ]
C        : Cohesion [kN/m² ]
phi     : Internal Friction Angle [Degree]
VC       : Variation in Cohesion [kN/m² ]
AF       : Anisotropic Function
NF       : Nonlinear Function
WL       : No Water Level considered
PPC      : Pore Pressure Coefficient
qs       : qs Value for Nail [kN/m² ]
pl       : Limit Soil Pressure [kN/m² ]
KsB      : Horizontal Subgrade Reaction [kN/m² ]
=====

```

=====														
ID	Name	rt	rsat	C	phi	VC	AF	NF	WL	PPC	qs	pl		
KsB														
=====														
e+003	1	매립층	1.700e+001	1.800e+001	1.000e+001	20.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	2	퇴적층	1.700e+001	1.800e+001	1.000e+001	20.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003	3	풍화토	1.900e+001	2.000e+001	2.000e+001	32.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	4	풍화암	2.000e+001	2.100e+001	3.000e+001	33.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003	5	뒤채움토사	1.900e+001	2.000e+001	0.000e+000	30.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	6	옹벽	2.400e+001	2.400e+001	0.000e+000	35.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003														

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

*Property

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
00)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)
00)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)
01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)
00)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
01)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
00)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
01)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
00)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)
00)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)
01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

01)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+0
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+0
00)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+0
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+0
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+0
01)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+0
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+0
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+0
00)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+0
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+0
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+0
01)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+0
00)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+0
00)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+0
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+0
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+0
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+0
01)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+0
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+0
00)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+0
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+0
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+0
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+0
01)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+0
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+0
00)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+0
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+0
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+0
01)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+0
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+0
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+0
00)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+0
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+0
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+0
01)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+0
00)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+0

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)
00)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
01)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
00)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
01)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
01)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)		

Radius	Type	Searching	Passing Point (X,Z)	Arc Inc.	No.Arc	Layer	Limit
Arc	Defined		(1.3246e+001, 6.2950e+000)	1.000e+000	1		-

*Load

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

*Layer Set

nt (X,Z)	Name	Mat.ID	Point (X,Z)	Point (X,Z)	Point (X,Z)	Poi
Smart Surface 1 25e+001)	1	(2.0142e+001, 1.3072e+001)	(2.2187e+001, 1.3425e+001)	(2.7975e+001, 1.4425e+001)	(3.4069e+001, 1.54	
20e+001)		(4.2169e+001, 1.6791e+001)	(4.2169e+001, 2.1680e+001)	(3.5036e+001, 2.0477e+001)	(3.3313e+001, 1.95	
Smart Surface 2 91e+001)	2	(3.2313e+001, 1.9520e+001)	(2.3313e+001, 1.4520e+001)	(2.2313e+001, 1.4520e+001)	(2.7975e+001, 1.22	
25e+001)		(1.5815e+001, 1.0188e+001)	(1.6386e+001, 1.0291e+001)	(2.2187e+001, 1.1291e+001)	(2.7975e+001, 1.22	
Smart Surface 3 72e+000)	3	(3.4069e+001, 1.3291e+001)	(4.2169e+001, 1.4658e+001)	(4.2169e+001, 1.6791e+001)	(3.4069e+001, 1.54	
91e+001)		(2.7975e+001, 1.4425e+001)	(2.2187e+001, 1.3425e+001)	(2.0142e+001, 1.3072e+001)	(2.7975e+001, 8.94	
88e+001)		(1.3353e+001, 6.8004e+000)	(1.6386e+001, 7.2674e+000)	(2.2187e+001, 8.1071e+000)	(2.7975e+001, 8.94	
Smart Surface 4 87e+000)	4	(3.4069e+001, 9.7787e+000)	(4.2169e+001, 1.0921e+001)	(4.2169e+001, 1.4658e+001)	(3.4069e+001, 1.32	
04e+000)		(2.7975e+001, 1.2291e+001)	(2.2187e+001, 1.1291e+001)	(1.6386e+001, 1.0291e+001)	(1.5815e+001, 1.01	
50e+000)		(1.4813e+001, 9.5195e+000)	(1.4169e+001, 9.5195e+000)	(4.2169e+001, 1.0921e+001)	(3.4069e+001, 9.77	
31e+000)		(5.3333e-003, 1.9506e-002)	(4.2169e+001, 1.9506e-002)	(4.2169e+001, 1.0921e+001)	(3.4069e+001, 9.77	
Smart Surface 5 04e+000)	6	(2.7975e+001, 8.9472e+000)	(2.2187e+001, 8.1071e+000)	(1.6386e+001, 7.2674e+000)	(1.3353e+001, 6.80	
60e+000)		(1.3246e+001, 6.4449e+000)	(1.3246e+001, 6.2950e+000)	(1.2426e+001, 6.2950e+000)	(1.2126e+001, 6.29	
Smart Surface 6 88e+000)	3	(1.1979e+001, 6.5888e+000)	(1.0880e+001, 6.4196e+000)	(5.1216e+000, 5.5788e+000)	(5.3333e-003, 4.74	
Smart Surface 7 50e+000)	5	(1.2426e+001, 6.6460e+000)	(5.3333e-003, 7.0195e+000)	(1.0880e+001, 6.4196e+000)	(1.1979e+001, 6.58	
		(1.1764e+001, 7.0195e+000)	(5.3333e-003, 7.0195e+000)	(1.2126e+001, 6.2950e+000)	(1.2426e+001, 6.29	
		(1.1764e+001, 7.0195e+000)	(1.1979e+001, 6.5888e+000)	(1.2126e+001, 6.2950e+000)	(1.2426e+001, 6.29	
		(1.2426e+001, 6.6460e+000)	(1.2576e+001, 6.6460e+000)	(1.2688e+001, 7.0195e+000)		

*Analysis Case

=====

This file includes analysis control informations

Name : Analysis Case Name
Type : Analysis Type (LEM, CS)
Method : Bishop, Fellenius, Janbu, Spencer, Morgenstern-Price, Sarma
Use F : LEM User Defined Function
alpha : Cohesion of slope [kN/m²]
beta : Friction Angle of slope [Degree]
MN : Maximum Number of Iterations
No.S : Number of Slices
Tol : Safety Calculation Tolerance
TH : Minimum Thickness of Slice [m]
Dir : Slope Direction (LR, RL)
Seg : Slice Segmentation (Length, Width)
CRF : Consider Reinforcement Force (0,X)
RL : Reinforcement Load (Stress, Force)

=====

Name	Type	Method	Use F	alpha	Beta	MN	No.S	Tol	TH	Dir	Seg	CRF	RL
우기시	LEM	Bishop	-	-	-	1000	30	1.000e-002	1.000e-002	RL	Length	X	Stress

*Define Analysis Model

+Layer Set : base, 0, Smart Surface 1, Smart Surface 2, Smart Surface 3, Smart Surface 4, Smart Surface 5, Smart Surface 6, Smart Surface 7

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업			
	Company		Client
	Author		File Name sec-a_SSB_우기시.txt

+Boundary Set : 파괴면
+Load Set : Self Weight
+Water Level : 수위

*Water Level

Name	(X,Z) [m]
수위	(5.3333e+003, 7.0195e+000)
	(9.8518e+001, 7.0195e+000)
	(1.9650e+000, 7.0195e+000)
	(2.9449e+000, 7.0195e+000)
	(3.9247e+000, 7.0195e+000)
	(4.9046e+000, 7.0195e+000)
	(5.8844e+000, 7.0195e+000)
	(6.8643e+000, 7.0195e+000)
	(7.8441e+000, 7.0195e+000)
	(8.8240e+000, 7.0195e+000)
	(9.8038e+000, 7.0195e+000)
	(1.0784e+001, 7.0195e+000)
	(1.1764e+001, 7.0195e+000)
	(1.2688e+001, 7.0195e+000)
	(1.2938e+001, 7.8528e+000)
	(1.3188e+001, 8.6862e+000)
	(1.3438e+001, 9.5195e+000)
	(1.4169e+001, 9.5195e+000)
	(1.4813e+001, 9.5195e+000)
	(1.5815e+001, 1.0188e+001)
	(1.6681e+001, 1.0765e+001)
	(1.7546e+001, 1.1342e+001)
	(1.8411e+001, 1.1918e+001)
	(1.9277e+001, 1.2495e+001)
	(2.0142e+001, 1.3072e+001)
	(2.0866e+001, 1.3555e+001)
	(2.1589e+001, 1.4037e+001)
	(2.2313e+001, 1.4520e+001)
	(2.3313e+001, 1.4520e+001)
	(2.4213e+001, 1.5020e+001)
	(2.5113e+001, 1.5520e+001)
	(2.6013e+001, 1.6020e+001)
	(2.6913e+001, 1.6520e+001)
	(2.7813e+001, 1.7020e+001)
	(2.8713e+001, 1.7520e+001)
	(2.9613e+001, 1.8020e+001)
	(3.0513e+001, 1.8520e+001)
	(3.1413e+001, 1.9020e+001)
	(3.2313e+001, 1.9520e+001)
	(3.3313e+001, 1.9520e+001)
	(3.4174e+001, 1.9998e+001)
	(3.5036e+001, 2.0477e+001)
	(3.6055e+001, 2.0649e+001)
	(3.7074e+001, 2.0821e+001)
	(3.8093e+001, 2.0992e+001)
	(3.9112e+001, 2.1164e+001)
	(4.0131e+001, 2.1336e+001)
	(4.1150e+001, 2.1508e+001)
	(4.2169e+001, 2.1680e+001)

*Minimum Factor of Safety

CENTER ID	RADIUS ID	FACTOR OF SAFETY
381	1	1.2814

=====

This file includes slice informations

ID	: Slice index
Length	: Length of slice base [m]
Xc	: Horizontal coordinate at the slice base center [m]
Weight	: Total soil weight [kN]
A	: Slice rotation angle [Degree]
PP	: Pore poeurement [kN/m2]
SL	: Soil layer index includes the slice base mid point

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업

	Company		Client	
	Author		File Name	sec-a_SSB_우기시.txt

RSD : Reinforcement(Inclusion) force along the slice base normal direction [kN/m2]
 NORMAL F : Strut or external moment load along the slice base normal direction [kN]
 SHEAR F : Strut or external moment load along the slice base tangential direction [kN]
 Sig : Normal stress along the slice base normal direction [kN/m2]
 Tau : Shear stress along the slice base tangential direction [kN/m2]
 VLOAD : external force load for global vertical direction [kN]
 HLOAD : external force load for global horizontal direction [kN]
 SEIS-HOR : Seismic load for horizontal direction [kN]

SLIP SURFACE BOUNDARY TYPE : CIRCULAR BOUNDARY

CENTER POINT INDEX : 381

CENTER POINT COORDINATE : X = 1.3915E+01 Z = 3.5847E+01

RADIUS INDEX AT THE CURRENT CENTER POINT : 1

RADIUS OF CURRENT CIRCLE : 2.9560E+01

FACTOR OF SAFETY (Mr / Md) : 1.2814 (4.1853E+04 / 3.2661E+04)

ID	LENGTH DN	XC DT	WEIGHT EL	A(DEGREE) ER	PP VLOAD	SL HLOAD	RSD SEIS-HOR	NORMAL F	SHEAR F	SIG	TAU
1	1.2585E+00	7.9935E+00	3.1090E+00	-1.1558E+01	1.2364E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	4.9734E+00	2.3108E+0
1	7.8149E+00	2.2696E+01	0.0000E+00	-1.5489E+02	0.0000E+00	0.0000E+00	0.0000E+00				
2	1.2585E+00	9.2313E+00	8.7448E+00	-9.1188E+00	3.4508E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	6.6096E+00	2.4130E+0
1	2.661E+01	2.3700E+01	1.5489E+02	-1.8030E+02	0.0000E+00	0.0000E+00	0.0000E+00				
3	1.2585E+00	1.0478E+01	1.3119E+01	-6.6793E+00	5.1465E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	7.6120E+00	2.4756E+0
1	1.6056E+01	2.4315E+01	1.8030E+02	-2.0632E+02	0.0000E+00	0.0000E+00	0.0000E+00				
4	1.2585E+00	1.1730E+01	1.6293E+01	-4.2397E+00	6.3204E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	8.7253E+00	3.5666E+0
1	1.8935E+01	3.5030E+01	2.0632E+02	-2.4265E+02	0.0000E+00	0.0000E+00	0.0000E+00				
5	1.2585E+00	1.2987E+01	5.3446E+01	-1.8002E+00	1.4172E+01	7	0.0000E+00	0.0000E+00	0.0000E+00	2.8812E+01	2.0175E+0
1	5.4096E+01	1.9815E+01	2.4265E+02	-2.6416E+02	0.0000E+00	0.0000E+00	0.0000E+00				
6	1.2585E+00	1.4245E+01	8.4002E+01	6.3933E-01	3.1612E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	3.4683E+01	5.2523E+0
8	3.431E+01	5.1587E+01	2.6416E+02	-3.1481E+02	0.0000E+00	0.0000E+00	0.0000E+00				
7	1.2585E+00	1.5502E+01	9.2395E+01	3.0789E+00	3.4947E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	3.6327E+01	5.3591E+0
1	8.9698E+01	5.2636E+01	3.1481E+02	-3.6255E+02	0.0000E+00	0.0000E+00	0.0000E+00				
8	1.2585E+00	1.6757E+01	1.0981E+02	5.5184E+00	4.2997E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.0421E+01	5.6249E+0
1	1.0498E+02	5.5247E+01	3.6255E+02	-4.0745E+02	0.0000E+00	0.0000E+00	0.0000E+00				
9	1.2585E+00	1.8006E+01	1.2484E+02	7.9579E+00	4.9718E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.4052E+01	5.8608E+0
1	1.1801E+02	5.7563E+01	4.0745E+02	-4.4812E+02	0.0000E+00	0.0000E+00	0.0000E+00				
10	1.2585E+00	1.9248E+01	1.3797E+02	1.0397E+01	5.5871E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.6932E+01	6.0478E+0
1	1.2938E+02	5.9400E+01	4.4812E+02	-4.8319E+02	0.0000E+00	0.0000E+00	0.0000E+00				
11	1.2585E+00	2.0481E+01	1.4904E+02	1.2837E+01	6.0747E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.9648E+01	6.2242E+0
1	1.3893E+02	6.1132E+01	4.8319E+02	-5.1193E+02	0.0000E+00	0.0000E+00	0.0000E+00				
12	1.2585E+00	2.1701E+01	1.5826E+02	1.5276E+01	6.6426E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	5.0544E+01	6.2824E+0
1	1.4720E+02	6.1704E+01	5.1193E+02	-5.3267E+02	0.0000E+00	0.0000E+00	0.0000E+00				
13	1.2585E+00	2.2908E+01	1.5697E+02	1.7716E+01	6.6919E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.8659E+01	6.1599E+0
1	1.4545E+02	6.0501E+01	5.3267E+02	-5.4604E+02	0.0000E+00	0.0000E+00	0.0000E+00				
14	1.2585E+00	2.4098E+01	1.5435E+02	2.0156E+01	6.7193E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.6256E+01	6.0039E+0
1	1.4277E+02	5.8969E+01	5.4604E+02	-5.5220E+02	0.0000E+00	0.0000E+00	0.0000E+00				
15	1.2585E+00	2.5270E+01	1.5490E+02	2.2595E+01	6.9079E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	4.8000E+01	4.9994E+0
1	1.4734E+02	4.9103E+01	5.5220E+02	-5.4092E+02	0.0000E+00	0.0000E+00	0.0000E+00				
16	1.2585E+00	2.6421E+01	1.5401E+02	2.5035E+01	7.0368E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	4.6757E+01	4.9217E+0
1	1.4740E+02	4.8340E+01	5.4092E+02	-5.2234E+02	0.0000E+00	0.0000E+00	0.0000E+00				
17	1.2585E+00	2.7549E+01	1.5141E+02	2.7474E+01	7.1058E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	4.5017E+01	4.8130E+0
1	1.4608E+02	4.7272E+01	5.2234E+02	-4.9689E+02	0.0000E+00	0.0000E+00	0.0000E+00				
18	1.2585E+00	2.8653E+01	1.4719E+02	2.9914E+01	7.1147E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	4.2797E+01	4.6742E+0
1	1.4340E+02	4.5909E+01	4.9689E+02	-4.6517E+02	0.0000E+00	0.0000E+00	0.0000E+00				
19	1.2585E+00	2.9730E+01	1.4144E+02	3.2353E+01	7.0634E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	4.0126E+01	4.5073E+0
1	1.3939E+02	4.4270E+01	4.6517E+02	-4.2798E+02	0.0000E+00	0.0000E+00	0.0000E+00				
20	1.2585E+00	3.0778E+01	1.3431E+02	3.4793E+01	6.9523E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	3.7038E+01	4.3144E+0
1	1.3410E+02	4.2374E+01	4.2798E+02	-3.8626E+02	0.0000E+00	0.0000E+00	0.0000E+00				
21	1.2585E+00	3.1796E+01	1.2592E+02	3.7232E+01	6.7813E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	3.3560E+01	4.0971E+0
1	1.2758E+02	4.0240E+01	3.8626E+02	-3.4111E+02	0.0000E+00	0.0000E+00	0.0000E+00				
22	1.2585E+00	3.2781E+01	1.1194E+02	3.9672E+01	6.2956E+01	2	0.0000E+00	0.0000E+00	0.0000E+00	3.7339E+01	2.3590E+0
1	1.2622E+02	2.3170E+01	3.4111E+02	-2.7836E+02	0.0000E+00	0.0000E+00	0.0000E+00				
23	1.2585E+00	3.3732E+01	9.7957E+01	4.2111E+01	5.7049E+01	2	0.0000E+00	0.0000E+00	0.0000E+00	3.2481E+01	2.1822E+0
1	1.1267E+02	2.1433E+01	2.7836E+02	-2.1871E+02	0.0000E+00	0.0000E+00	0.0000E+00				
24	1.2585E+00	3.4647E+01	8.8344E+01	4.4551E+01	5.3531E+01	2	0.0000E+00	0.0000E+00	0.0000E+00	2.9143E+01	2.0607E+0
1	1.0404E+02	2.0240E+01	2.1871E+02	-1.6014E+02	0.0000E+00	0.0000E+00	0.0000E+00				
25	1.2585E+00	3.5525E+01	7.5266E+01	4.6990E+01	4.7768E+01	1	0.0000E+00	0.0000E+00	0.0000E+00	2.4180E+01	1.8801E+0
1	9.0545E+01	1.8466E+01	1.6014E+02	-1.0653E+02	0.0000E+00	0.0000E+00	0.0000E+00				

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	
			sec-a_SSB_우기시.txt	

26	1.2585E+00	3.6364E+01	6.0026E+01	4.9430E+01	3.9955E+01	1	0.0000E+00	0.0000E+00	0.0000E+00	1.8222E+01	1.6632E+0
1	7.3214E+01	1.6336E+01	1.0653E+02	-6.1535E+01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
27	1.2585E+00	3.7161E+01	4.5261E+01	5.1869E+01	3.1733E+01	1	0.0000E+00	0.0000E+00	0.0000E+00	1.2167E+01	1.4429E+0
1	5.5248E+01	1.4171E+01	6.1535E+01	-2.6827E+01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
28	1.2585E+00	3.7917E+01	3.1154E+01	5.4309E+01	2.3117E+01	1	0.0000E+00	0.0000E+00	0.0000E+00	6.0553E+00	1.2204E+0
1	3.6713E+01	1.1986E+01	2.6827E+01	-4.0019E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
29	1.2585E+00	3.8629E+01	1.7888E+01	5.6748E+01	1.4123E+01	1	0.0000E+00	0.0000E+00	0.0000E+00	-7.2076E-02	9.9738E+0
0	1.7683E+01	9.7960E+00	4.0019E+00	5.4146E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
30	1.2585E+00	3.9296E+01	5.6399E+00	5.9188E+01	4.7667E+00	1	0.0000E+00	0.0000E+00	0.0000E+00	-6.1663E+00	7.7556E+0
0	-1.7615E+00	7.6174E+00	-5.4146E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

PROJECT TITLE : 신규마을(예코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_지진시.txt

*해석정보
+해석케이스 이름 : 지진시
+해석방법 : 사면안정(LEM) 해석

*단위
m, kN

*프로젝트 정보
+프로젝트명 : 신규마을(예코빌리지2차) 조성사업
+프로젝트 부제 :
+사용자이름 :
+고객이름 :
+날짜 : 2025-02-28 오후 5:21:12
+부가정보 :

*해석 결과

```

*Material
=====
This file includes material informations
ID      : Material index
rt      : Unit Weight [kN/m3 ]
rsat    : Saturated Unit Weight [kN/m3 ]
C       : Cohesion [kN/m2 ]
phi     : Internal Friction Angle [Degree]
VC      : Variation in Cohesion [kN/m2 ]
AF      : Anisotropic Function
NF      : Nonlinear Function
WL      : No Water Level considered
PPC     : Pore Pressure Coefficient
qs      : qs Value for Nail [kN/m2 ]
pl      : Limit Soil Pressure [kN/m2 ]
KsB     : Horizontal Subgrade Reaction [kN/m2 ]
=====

```

=====														
ID	Name	rt	rsat	C	phi	VC	AF	NF	WL	PPC	qs	pl		
KsB														
=====														
e+003	1	매립층	1.700e+001	1.800e+001	1.000e+001	20.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	2	퇴적층	1.700e+001	1.800e+001	1.000e+001	20.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003	3	풍화토	1.900e+001	2.000e+001	2.000e+001	32.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	4	풍화암	2.000e+001	2.100e+001	3.000e+001	33.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003	5	뒤채움토사	1.900e+001	2.000e+001	0.000e+000	30.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
	6	옹벽	2.400e+001	2.400e+001	0.000e+000	35.00	0.000e+000	-	-	X	0.000e+000	2.000e+002	1.000e+002	1.000
e+003														

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업



Company

Author

Client

File Name

sec-a_SSB_지진시.txt

*Property

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_지진시.txt

01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
00)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)
00)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)
01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)
00)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
01)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
00)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
01)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
00)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)
00)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)
01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업

	Company		Client	
	Author		File Name	sec-a_SSB_지진시.txt

01) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000)

00) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000)

00) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001)

01) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001)

01) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001)

01) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000)

00) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000)

00) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000)

00) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001)

01) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001)

01) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001)

01) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000)

00) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000)

00) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001)

01) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001)

01) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001)

01) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001)

01) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000)

00) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000)

00) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001)

01) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001)

01) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001)

01) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001)

01) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000)

00) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000)

00) (9.9149e+000, 9.9149e+000) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001)

01) (1.3915e+001, 1.3915e+001) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001)

01) (1.7915e+001, 1.7915e+001) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001)

01) (2.1915e+001, 2.1915e+001) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000)

00) (2.9149e+000, 2.9149e+000) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000)

00) (6.9149e+000, 6.9149e+000) (7.9149e+000, 7.9149e+000) (8.9149e+000, 8.9149e+000) (9.9149e+000, 9.9149e+000)

00) (1.0915e+001, 1.0915e+001) (1.1915e+001, 1.1915e+001) (1.2915e+001, 1.2915e+001) (1.3915e+001, 1.3915e+001)

01) (1.4915e+001, 1.4915e+001) (1.5915e+001, 1.5915e+001) (1.6915e+001, 1.6915e+001) (1.7915e+001, 1.7915e+001)

01) (1.8915e+001, 1.8915e+001) (1.9915e+001, 1.9915e+001) (2.0915e+001, 2.0915e+001) (2.1915e+001, 2.1915e+001)

01) (2.2915e+001, 2.2915e+001) (2.3365e+001, 2.3365e+001) (1.9149e+000, 1.9149e+000) (2.9149e+000, 2.9149e+000)

00) (3.9149e+000, 3.9149e+000) (4.9149e+000, 4.9149e+000) (5.9149e+000, 5.9149e+000) (6.9149e+000, 6.9149e+000)

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_지진시.txt

01)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)
01)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)
01)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)
01)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)
00)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)
00)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)
01)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)
01)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)
01)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)
01)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)
00)	(1.9149e+000, 1.9149e+000)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)
00)	(5.9149e+000, 5.9149e+000)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)
01)	(9.9149e+000, 9.9149e+000)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)
01)	(1.3915e+001, 1.3915e+001)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)
01)	(1.7915e+001, 1.7915e+001)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)
00)	(2.1915e+001, 2.1915e+001)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)	(1.9149e+000, 1.9149e+000)
00)	(2.9149e+000, 2.9149e+000)	(3.9149e+000, 3.9149e+000)	(4.9149e+000, 4.9149e+000)	(5.9149e+000, 5.9149e+000)
00)	(6.9149e+000, 6.9149e+000)	(7.9149e+000, 7.9149e+000)	(8.9149e+000, 8.9149e+000)	(9.9149e+000, 9.9149e+000)
01)	(1.0915e+001, 1.0915e+001)	(1.1915e+001, 1.1915e+001)	(1.2915e+001, 1.2915e+001)	(1.3915e+001, 1.3915e+001)
01)	(1.4915e+001, 1.4915e+001)	(1.5915e+001, 1.5915e+001)	(1.6915e+001, 1.6915e+001)	(1.7915e+001, 1.7915e+001)
01)	(1.8915e+001, 1.8915e+001)	(1.9915e+001, 1.9915e+001)	(2.0915e+001, 2.0915e+001)	(2.1915e+001, 2.1915e+001)
01)	(2.2915e+001, 2.2915e+001)	(2.3365e+001, 2.3365e+001)		

Radius	Type	Searching	Passing Point (X,Z)	Arc Inc.	No.Arc	Layer	Limit
Arc	Defined		(1.3246e+001, 6.2950e+000)	1.000e+000	1		-

*Load
-Static Seismic Load

Name	X	Z
지진계수	8.690e-002	0.000e+000

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업				
	Company		Client	
	Author		File Name	sec-a_SSB_지진시.txt

*Layer Set

Layer Set	Name	Mat.ID	Point (X,Z)	Point (X,Z)	Point (X,Z)	Point (X,Z)	Poi
Smart Surface 1 25e+001)		1	(2.0142e+001, 1.3072e+001)	(2.2187e+001, 1.3425e+001)	(2.7975e+001, 1.4425e+001)	(3.4069e+001, 1.54	
			(4.2169e+001, 1.6791e+001)	(4.2169e+001, 2.1680e+001)	(3.5036e+001, 2.0477e+001)	(3.3313e+001, 1.95	
Smart Surface 2 91e+001)		2	(3.2313e+001, 1.9520e+001)	(2.3313e+001, 1.4520e+001)	(2.2313e+001, 1.4520e+001)	(2.7975e+001, 1.22	
			(1.5815e+001, 1.0188e+001)	(1.6386e+001, 1.0291e+001)	(2.2187e+001, 1.1291e+001)	(2.7975e+001, 1.22	
Smart Surface 3 72e+000)		3	(3.4069e+001, 1.3291e+001)	(4.2169e+001, 1.4658e+001)	(4.2169e+001, 1.6791e+001)	(3.4069e+001, 1.54	
			(2.7975e+001, 1.4425e+001)	(2.2187e+001, 1.3425e+001)	(2.0142e+001, 1.3072e+001)	(2.7975e+001, 8.94	
Smart Surface 4 87e+000)		4	(1.3353e+001, 6.8004e+000)	(1.6386e+001, 7.2674e+000)	(2.2187e+001, 8.1071e+000)	(2.7975e+001, 8.94	
			(3.4069e+001, 9.7787e+000)	(4.2169e+001, 1.0921e+001)	(4.2169e+001, 1.4658e+001)	(3.4069e+001, 1.32	
Smart Surface 5 04e+000)		6	(2.7975e+001, 1.2291e+001)	(2.2187e+001, 1.1291e+001)	(1.6386e+001, 1.0291e+001)	(1.5815e+001, 1.01	
			(1.4813e+001, 9.5195e+000)	(1.4169e+001, 9.5195e+000)	(4.2169e+001, 1.0921e+001)	(3.4069e+001, 9.77	
Smart Surface 6 88e+000)		3	(5.3333e-003, 1.9506e-002)	(4.2169e+001, 1.9506e-002)	(4.2169e+001, 1.0921e+001)	(3.4069e+001, 9.77	
			(2.7975e+001, 8.9472e+000)	(2.2187e+001, 8.1071e+000)	(1.6386e+001, 7.2674e+000)	(1.3353e+001, 6.80	
Smart Surface 7 50e+000)		5	(1.3246e+001, 6.4449e+000)	(1.3246e+001, 6.2950e+000)	(1.2426e+001, 6.2950e+000)	(1.2126e+001, 6.29	
			(1.1979e+001, 6.5888e+000)	(1.0880e+001, 6.4196e+000)	(5.1216e+000, 5.5788e+000)	(5.3333e-003, 4.74	
		6	(1.2426e+001, 6.2950e+000)	(1.3246e+001, 6.2950e+000)	(1.3246e+001, 6.4449e+000)	(1.3353e+001, 6.80	
			(1.4169e+001, 9.5195e+000)	(1.3438e+001, 9.5195e+000)	(1.2688e+001, 7.0195e+000)	(1.2576e+001, 6.64	
		3	(1.2426e+001, 6.6460e+000)	(5.1216e+000, 5.5788e+000)	(1.0880e+001, 6.4196e+000)	(1.1979e+001, 6.58	
			(5.3333e-003, 4.7431e+000)	(5.1216e+000, 5.5788e+000)	(1.0880e+001, 6.4196e+000)	(1.1979e+001, 6.58	
		5	(1.1764e+001, 7.0195e+000)	(5.3333e-003, 7.0195e+000)	(1.2126e+001, 6.2950e+000)	(1.2426e+001, 6.29	
			(1.1764e+001, 7.0195e+000)	(1.1979e+001, 6.5888e+000)	(1.2126e+001, 6.2950e+000)	(1.2426e+001, 6.29	
			(1.2426e+001, 6.6460e+000)	(1.2576e+001, 6.6460e+000)	(1.2688e+001, 7.0195e+000)		

*Analysis Case

=====

This file includes analysis control informations

Name : Analysis Case Name
Type : Analysis Type (LEM, CS)
Method : Bishop, Fellenius, Janbu, Spencer, Morgenstern-Price, Sarma
Use F : LEM User Defined Function
alpha : Cohesion of slope [kN/m²]
beta : Friction Angle of slope [Degree]
MN : Maximum Number of Iterations
No.S : Number of Slices
Tol : Safety Calculation Tolerance
TH : Minimum Thickness of Slice [m]
Dir : Slope Direction (LR, RL)
Seg : Slice Segmentation (Length, Width)
CRF : Consider Reinforcement Force (0,X)
RL : Reinforcement Load (Stress, Force)

=====

Name	Type	Method	Use F	alpha	Beta	MN	No.S	Tol	TH	Dir	Seg	CRF	RL
지진시	LEM	Bishop	-	-	-	1000	30	1.000e-002	1.000e-002	RL	Length	X	Stress

*Define Analysis Model

+Layer Set : base, 0, Smart Surface 1, Smart Surface 2, Smart Surface 3, Smart Surface 4, Smart Surface 5, Smart Surface 6, Smart Surface 7

PROJECT TITLE : 신규마을(에코빌리지2차) 조성사업			
	Company		Client
	Author		File Name
			sec-a_SSB_지진시.txt

+Boundary Set : 파괴면
+Load Set : Self Weight, 지진계수
+Water Level : 수위 1

*Water Level

Name	(X,Z) [m]
수위 1	(5.3333e-003, 7.0195e+000)
	(1.3419e+001, 7.0195e+000)
	(1.3669e+001, 7.8528e+000)
	(1.3919e+001, 8.6862e+000)
	(1.4169e+001, 9.5195e+000)
	(1.4813e+001, 9.5195e+000)
	(1.5701e+001, 1.0112e+001)
	(1.6589e+001, 1.0704e+001)
	(1.7477e+001, 1.1296e+001)
	(1.8366e+001, 1.1888e+001)
	(1.9254e+001, 1.2480e+001)
	(2.0142e+001, 1.3072e+001)
	(2.1164e+001, 1.3249e+001)
	(2.2187e+001, 1.3425e+001)
	(2.3151e+001, 1.3591e+001)
	(2.4116e+001, 1.3758e+001)
	(2.5081e+001, 1.3925e+001)
	(2.6045e+001, 1.4091e+001)
	(2.7010e+001, 1.4258e+001)
	(2.7975e+001, 1.4425e+001)
	(2.8990e+001, 1.4591e+001)
	(3.0006e+001, 1.4758e+001)
	(3.1022e+001, 1.4925e+001)
	(3.2038e+001, 1.5091e+001)
	(3.3053e+001, 1.5258e+001)
	(3.4069e+001, 1.5425e+001)
	(3.5081e+001, 1.5596e+001)
	(3.6094e+001, 1.5766e+001)
	(3.7106e+001, 1.5937e+001)
	(3.8119e+001, 1.6108e+001)
	(3.9131e+001, 1.6279e+001)
	(4.0144e+001, 1.6449e+001)
	(4.1156e+001, 1.6620e+001)
	(4.2169e+001, 1.6791e+001)

*Minimum Factor of Safety

CENTER ID	RADIUS ID	FACTOR OF SAFETY
358	1	1.3038

=====

This file includes slice informations

ID : Slice index
Length : Length of slice base [m]
Xc : Horizontal coordinate at the slice base center [m]
Weight : Total soil weight [kN]
A : Slice rotation angle [Degree]
PP : Pore poressure [kN/m2]
SL : Soil layer index includes the slice base mid point
RSD : Reinforcement(Inclusion) force along the slice base normal direction [kN/m2]
NORMAL F : Strut or external moment load along the slice base normal direction [kN]
SHEAR F : Strut or external moment load along the slice base tangential direction [kN]
Sig : Normal stress along the slice base normal direction [kN/m2]
Tau : Shear stress along the slice base tangential direction [kN/m2]
VLOAD : external force load for global vertical direction [kN]
HLOAD : external force load for global horizontal direction [kN]
SEIS-HOR : Seismic load for horizontal direction [kN]

SLIP SURFACE BOUNDARY TYPE : CIRCULAR BOUNDARY
CENTER POINT INDEX : 358
CENTER POINT COORDINATE : X = 1.3915E+01 Z = 3.4847E+01
RADIUS INDEX AT THE CURRENT CENTER POINT : 1
RADIUS OF CURRENT CIRCLE : 2.8560E+01

PROJECT TITLE : 신규마을(예코빌리지2차) 조성사업

	Company		Client	
	Author		File Name	sec-a_SSB_지진시.txt

FACTOR OF SAFETY (Mr / Md) : 1.3038 (4.5554E+04 / 3.4940E+04)

ID	LENGTH DN	XC DT	WEIGHT EL	A(DEGREE) ER	PP VLOAD	SL HLOAD	RSD SEIS-HOR	NORMAL F	SHEAR F	SIG	TAU
1	1.2348E+00	8.0933E+00	3.0435E+00	-1.1764E+01	1.2345E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	4.9747E+00	2.3109E+0
1	7.6672E+00	2.1888E+01	0.0000E+00	-1.4610E+02	0.0000E+00	0.0000E+00	-2.6448E-01				
2	1.2348E+00	9.3070E+00	8.5645E+00	-9.2870E+00	3.4460E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	6.6085E+00	2.4129E+0
1	1.2415E+01	2.2855E+01	1.4610E+02	-1.6992E+02	0.0000E+00	0.0000E+00	-7.4425E-01				
3	1.2348E+00	1.0529E+01	1.2855E+01	-6.8095E+00	5.1410E+00	5	0.0000E+00	0.0000E+00	0.0000E+00	7.6113E+00	2.4756E+0
1	1.5747E+01	2.3448E+01	1.6992E+02	-1.9395E+02	0.0000E+00	0.0000E+00	-1.1171E+00				
4	1.2348E+00	1.1758E+01	1.5964E+01	-4.3321E+00	6.3163E+00	4	0.0000E+00	0.0000E+00	0.0000E+00	8.7213E+00	3.5664E+0
1	1.8569E+01	3.3779E+01	1.9395E+02	-2.2765E+02	0.0000E+00	0.0000E+00	-1.3873E+00				
5	1.2348E+00	1.2991E+01	5.2586E+01	-1.8547E+00	6.9696E+00	7	0.0000E+00	0.0000E+00	0.0000E+00	3.6270E+01	2.5397E+0
1	5.3393E+01	2.4055E+01	2.2765E+02	-2.4885E+02	0.0000E+00	0.0000E+00	-4.5697E+00				
6	1.2348E+00	1.4225E+01	8.2506E+01	6.2272E-01	3.1616E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	3.4766E+01	5.2577E+0
1	8.1970E+01	4.9800E+01	2.4885E+02	-2.9059E+02	0.0000E+00	0.0000E+00	-7.1698E+00				
7	1.2348E+00	1.5459E+01	8.9995E+01	3.1001E+00	3.4777E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	3.5994E+01	5.3375E+0
1	8.7389E+01	5.0555E+02	2.9059E+02	-3.2852E+02	0.0000E+00	0.0000E+00	-7.8206E+00				
8	1.2348E+00	1.6690E+01	1.0676E+02	5.5776E+00	4.2580E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.0090E+01	5.6035E+0
1	1.0208E+02	5.3074E+01	3.2852E+02	-3.6215E+02	0.0000E+00	0.0000E+00	-9.2772E+00				
9	1.2348E+00	1.7916E+01	1.2116E+02	8.0550E+00	4.9158E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.3612E+01	5.8322E+0
1	1.1455E+02	5.5241E+01	3.6215E+02	-3.9026E+02	0.0000E+00	0.0000E+00	-1.0529E+01				
10	1.2348E+00	1.9134E+01	1.3370E+02	1.0532E+01	5.5167E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.6388E+01	6.0125E+0
1	1.2540E+02	5.6948E+01	3.9026E+02	-4.1171E+02	0.0000E+00	0.0000E+00	-1.1618E+01				
11	1.2348E+00	2.0343E+01	1.4411E+02	1.3010E+01	5.9076E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	4.9671E+01	6.2257E+0
1	1.3428E+02	5.8967E+01	4.1171E+02	-4.2641E+02	0.0000E+00	0.0000E+00	-1.2523E+01				
12	1.2348E+00	2.1539E+01	1.5209E+02	1.5487E+01	5.8669E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	5.5151E+01	6.5816E+0
1	1.4055E+02	6.2338E+01	4.2641E+02	-4.3574E+02	0.0000E+00	0.0000E+00	-1.3217E+01				
13	1.2348E+00	2.2722E+01	1.5240E+02	1.7965E+01	5.7185E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	5.6045E+01	6.6396E+0
1	1.3982E+02	6.2888E+01	4.3574E+02	-4.3919E+02	0.0000E+00	0.0000E+00	-1.3243E+01				
14	1.2348E+00	2.3887E+01	1.4761E+02	2.0442E+01	5.5179E+01	4	0.0000E+00	0.0000E+00	0.0000E+00	5.3822E+01	6.4952E+0
1	1.3459E+02	6.1521E+01	4.3919E+02	-4.3700E+02	0.0000E+00	0.0000E+00	-1.2827E+01				
15	1.2348E+00	2.5035E+01	1.4742E+02	2.2920E+01	5.2650E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	5.8603E+01	5.6619E+0
1	1.3738E+02	5.3628E+01	4.3700E+02	-4.2009E+02	0.0000E+00	0.0000E+00	-1.2810E+01				
16	1.2348E+00	2.6161E+01	1.4583E+02	2.5397E+01	4.9604E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	6.0157E+01	5.7590E+0
1	1.3553E+02	5.4548E+01	4.2009E+02	-3.9856E+02	0.0000E+00	0.0000E+00	-1.2673E+01				
17	1.2348E+00	2.7265E+01	1.4262E+02	2.7874E+01	4.6046E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	6.1028E+01	5.8134E+0
1	1.3222E+02	5.5063E+01	3.9856E+02	-3.7303E+02	0.0000E+00	0.0000E+00	-1.2394E+01				
18	1.2348E+00	2.8343E+01	1.3786E+02	3.0352E+01	4.1951E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	6.1254E+01	5.8276E+0
1	1.2744E+02	5.5197E+01	3.7303E+02	-3.4428E+02	0.0000E+00	0.0000E+00	-1.1980E+01				
19	1.2348E+00	2.9395E+01	1.3167E+02	3.2829E+01	3.7302E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	6.0873E+01	5.8038E+0
1	1.2123E+02	5.4971E+01	3.4428E+02	-3.1331E+02	0.0000E+00	0.0000E+00	-1.1442E+01				
20	1.2348E+00	3.0417E+01	1.2417E+02	3.5307E+01	3.2165E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	5.9873E+01	5.7413E+0
1	1.1365E+02	5.4379E+01	3.1331E+02	-2.8122E+02	0.0000E+00	0.0000E+00	-1.0791E+01				
21	1.2348E+00	3.1409E+01	1.1553E+02	3.7784E+01	2.6552E+01	3	0.0000E+00	0.0000E+00	0.0000E+00	5.8279E+01	5.6417E+0
1	1.0475E+02	5.3436E+01	2.8122E+02	-2.4923E+02	0.0000E+00	0.0000E+00	-1.0039E+01				
22	1.2348E+00	3.2368E+01	1.0477E+02	4.0262E+01	2.0473E+01	2	0.0000E+00	0.0000E+00	0.0000E+00	6.8111E+01	3.4790E+0
1	1.0938E+02	3.2952E+01	2.4923E+02	-1.9458E+02	0.0000E+00	0.0000E+00	-9.1044E+00				
23	1.2348E+00	3.3293E+01	8.9184E+01	4.2739E+01	1.3939E+01	2	0.0000E+00	0.0000E+00	0.0000E+00	6.1457E+01	3.2369E+0
1	9.3100E+01	3.0658E+01	1.9458E+02	-1.4616E+02	0.0000E+00	0.0000E+00	-7.7501E+00				
24	1.2348E+00	3.4181E+01	7.8527E+01	4.5216E+01	6.9670E+00	2	0.0000E+00	0.0000E+00	0.0000E+00	5.8988E+01	3.1470E+0
1	8.1442E+01	2.9807E+01	1.4616E+02	-1.0253E+02	0.0000E+00	0.0000E+00	-6.8240E+00				
25	1.2348E+00	3.5032E+01	6.7997E+01	4.7694E+01	9.1653E-01	1	0.0000E+00	0.0000E+00	0.0000E+00	5.5456E+01	3.0184E+0
1	6.9609E+01	2.8590E+01	1.0253E+02	-6.4383E+01	0.0000E+00	0.0000E+00	-5.9090E+00				
26	1.2348E+00	3.5843E+01	5.4507E+01	5.0171E+01	0.0000E+00	1	0.0000E+00	0.0000E+00	0.0000E+00	4.4744E+01	2.6285E+0
1	5.5250E+01	2.4897E+01	6.4383E+01	-3.3163E+01	0.0000E+00	0.0000E+00	-4.7367E+00				
27	1.2348E+00	3.6613E+01	4.0996E+01	5.2649E+01	0.0000E+00	1	0.0000E+00	0.0000E+00	0.0000E+00	3.2708E+01	2.1905E+0
1	4.0388E+01	2.0747E+01	3.3163E+01	-1.0082E+01	0.0000E+00	0.0000E+00	-3.5626E+00				
28	1.2348E+00	3.7340E+01	2.8139E+01	5.5126E+01	0.0000E+00	1	0.0000E+00	0.0000E+00	0.0000E+00	2.0597E+01	1.7497E+0
1	2.5434E+01	1.6572E+01	1.0082E+01	3.7533E+00	0.0000E+00	0.0000E+00	-2.4452E+00				
29	1.2348E+00	3.8024E+01	1.6104E+01	5.7603E+01	0.0000E+00	1	0.0000E+00	0.0000E+00	0.0000E+00	8.5095E+00	1.3097E+0
1	1.0508E+01	1.2405E+01	-3.7533E+00	7.3785E+00	0.0000E+00	0.0000E+00	-1.3995E+00				
30	1.2348E+00	3.8663E+01	5.0590E+00	6.0081E+01	0.0000E+00	1	0.0000E+00	0.0000E+00	0.0000E+00	-3.4442E+00	8.7464E+0
0	-4.2529E+00	8.2843E+00	-7.3785E+00	0.0000E+00	0.0000E+00	0.0000E+00	-4.3963E-01				