

Attachment B

Grading Cut and Fill Exhibits



Memorandum

Date: July 30, 2025	
To: Peter Kiesecker	Organization: Solstra
From: Tim Walters	Title: Managing Partner - Engineering
Project Name: Solomon Hills	Project Number: 2298-06-HS25
Topic: Temporary Fill locations exhibit	

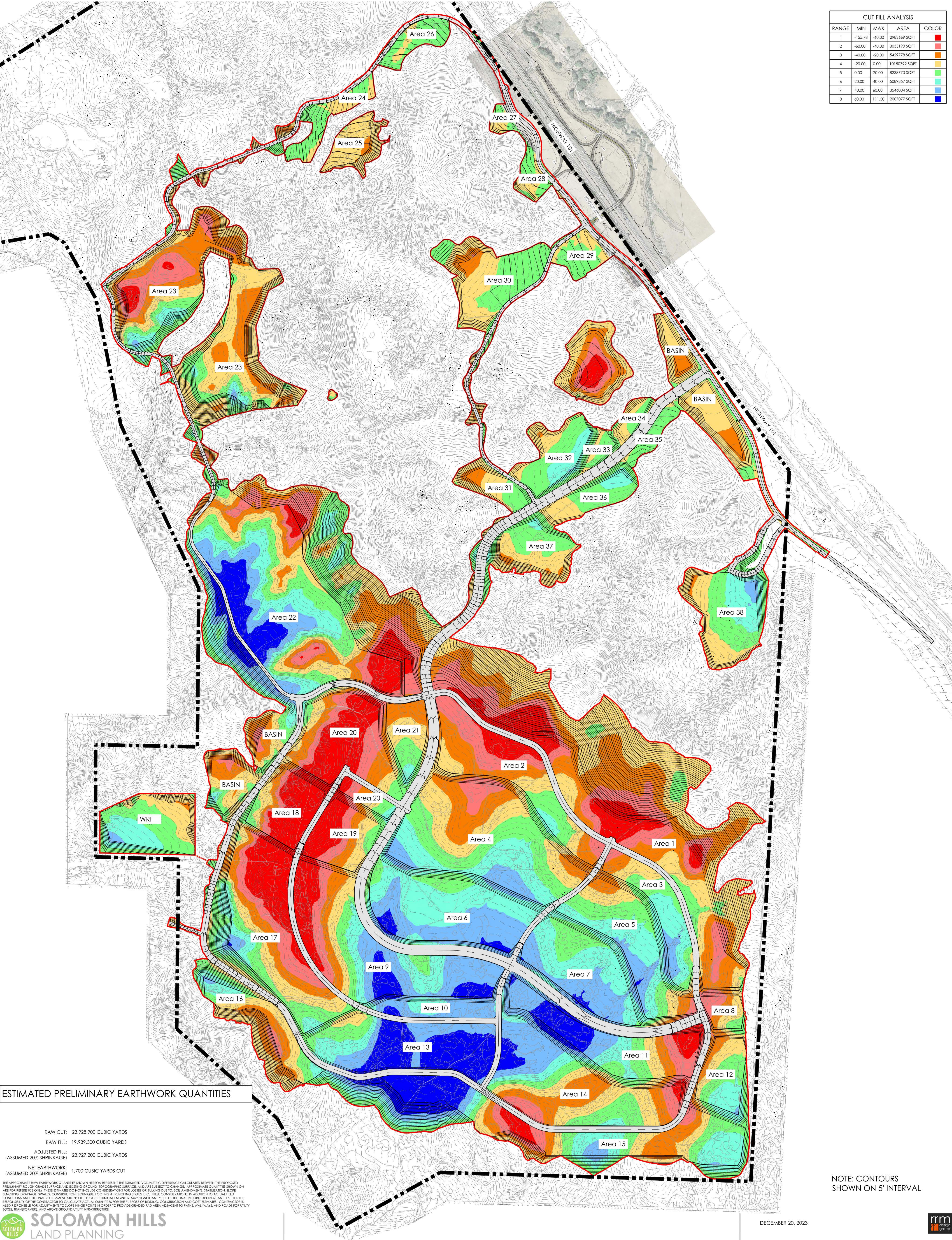
Peter,

This memorandum and the enclosed Cut/Fill Analysis exhibit serves to provide additional information for the proposed Solomon Hills grading operations associated with Vesting Tentative Map No. 14,909 and Specific Plan. As previously discussed with County of Santa Barbara planning and building department staff, the enclosed cut / fill exhibit depicts the potential locations of temporary exported fill from one phase of the project to another, and the limits of grading for each phase. Temporary erosion control and management of storm water runoff is an integral component of the plan for each grading activity, and each temporary fill location will be managed and monitored during construction as part of the grading operation for the site.

The Cut/Fill Analysis exhibit demonstrates the feasibility for maintaining the earthwork volumes within the tract / specific plan limits and includes the preliminary earthwork quantities, area of disturbance for each phase, and the placement of fill in other phases within the tract boundary to optimize the use of cut and fill at each stage of the development. The goal of the overall earthwork program is to balance the project earthwork within the boundaries of the tract and this exhibit in conjunction with the overall grading plan provided in the vesting tentative map provides county staff with more concise information for how the grading activities will progress over the course of specific plan implementation.

tw-pk Solomon Hills - temporary fill locations memo 073025.docx





CUT FILL ANALYSIS				
RANGE	MIN	MAX	AREA	COLOR
1	-155.78	-40.00	2983669 SQFT	
2	-40.00	-40.00	3035190 SQFT	
3	-40.00	-20.00	5429778 SQFT	
4	-20.00	0.00	10150792 SQFT	
5	0.00	20.00	8238770 SQFT	
6	20.00	40.00	5089857 SQFT	
7	40.00	60.00	3546004 SQFT	
8	60.00	111.50	2007077 SQFT	

ESTIMATED PRELIMINARY EARTHWORK QUANTITIES

RAW CUT: 23,928,900 CUBIC YARDS
RAW FILL: 19,939,300 CUBIC YARDS
ADJUSTED FILL: 23,927,200 CUBIC YARDS
(ASSUMED 20% SHRINKAGE)
NET EARTHWORK: 1,700 CUBIC YARDS CUT
(ASSUMED 20% SHRINKAGE)

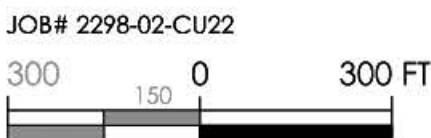
THE APPROXIMATE RAW EARTHWORK QUANTITIES SHOWN HEREIN REPRESENT THE ESTIMATED VOLUMETRIC DIFFERENCE CALCULATED BETWEEN THE PROPOSED PRELIMINARY ROUGH GRADE SURFACE AND EXISTING GROUND TOPOGRAPHIC SURFACE, AND ARE SUBJECT TO CHANGE. APPROXIMATE QUANTITIES SHOWN ON ARE FOR REFERENCE ONLY. THESE ESTIMATES DO NOT INCLUDE CONSIDERATIONS FOR LOSSES OR BUILDUPS DUE TO SOIL AMENDMENTS, STABILIZATION, SLOPE REINFORCING, DRAINAGE SWALES, CONSTRUCTION TECHNIQUE, FOOTING & TRENCHING SPOILS, ETC. THESE CONSIDERATIONS, IN ADDITION TO ACTUAL FIELD CONDITIONS AND THE FINAL RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, MAY SIGNIFICANTLY AFFECT THE FINAL IMPORT/EXPORT QUANTITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE ACTUAL QUANTITIES FOR THE PURPOSE OF BIDDING, CONSTRUCTION AND COST ESTIMATES. CONTRACTOR IS ALSO RESPONSIBLE FOR ADJUSTMENTS TO SLOPE RANGES IN ORDER TO PROVIDE GRADED PAD AREA ADJACENT TO PAVING, WALKWAYS, AND ROADS FOR UTILITY BOXES, TRANSFORMERS, AND ABOVE GROUND UTILITY INFRASTRUCTURE.

NOTE: CONTOURS SHOWN ON 5' INTERVAL

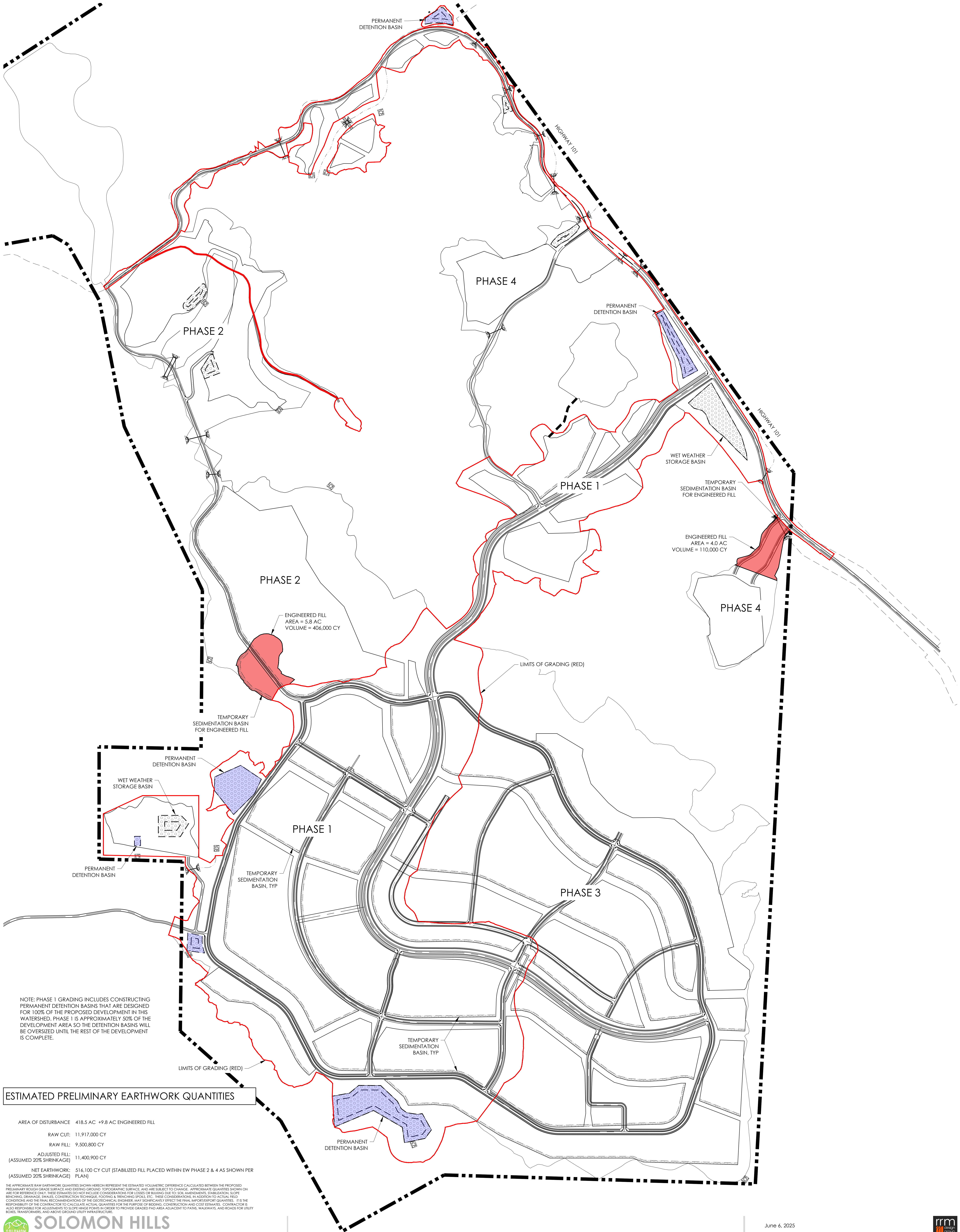
SOLOMON HILLS LAND PLANNING

CUT/FILL ANALYSIS

DECEMBER 20, 2023



JOB# 2298-02-CU22



ESTIMATED PRELIMINARY EARTHWORK QUANTITIES

AREA OF DISTURBANCE	418.5 AC +9.8 AC ENGINEERED FILL
RAW CUT:	11,917,000 CY
RAW FILL:	9,500,800 CY
ADJUSTED FILL: (ASSUMED 20% SHRINKAGE)	11,400,900 CY
NET EARTHWORK: (ASSUMED 20% SHRINKAGE)	516,100 CY CUT (STABILIZED FILL PLACED WITHIN EW PHASE 2 & 4 AS SHOWN PER PLAN)

THE APPROXIMATE RAW EARTHWORK QUANTITIES SHOWN HEREIN REPRESENT THE ESTIMATED VOLUMETRIC DIFFERENCE CALCULATED BETWEEN THE PROPOSED PRELIMINARY ROUGH GRADE SURFACE AND EXISTING GROUND. TOPOGRAPHIC SURFACE, AND ARE SUBJECT TO CHANGE. APPROXIMATE QUANTITIES SHOWN ON ARE FOR REFERENCE ONLY. THESE ESTIMATES DO NOT INCLUDE CONSIDERATIONS FOR LOSSES OR BUILDUPS DUE TO SOIL AMBROSIA, STABILIZATION, SLOPE BENCHING, DRAINAGE SWALES, CONSTRUCTION TECHNIQUE, FOOTING & TRENCHING SPILLS, ETC. THESE CONSIDERATIONS, IN ADDITION TO ACTUAL FIELD CONDITIONS AND THE FINAL RECOMMENDATIONS OF THE GEOLOGICAL ENGINEER, MAY SIGNIFICANTLY EFFECT THE FINAL IMPORT/EXPORT QUANTITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE ACTUAL QUANTITIES FOR THE PURPOSE OF BIDDING, CONSTRUCTION AND COST ESTIMATES. CONTRACTOR IS ALSO RESPONSIBLE FOR ADJUSTMENTS TO SLOPE HEDGE PONS IN ORDER TO PROVIDE GRADED PAD AREA ADJACENT TO PAVING, WALKWAYS, AND ROADS FOR UTILITY BOXES, TRANSFORMERS, AND ABOVE GROUND UTILITY INFRASTRUCTURE.

SOLOMON HILLS
LAND PLANNING

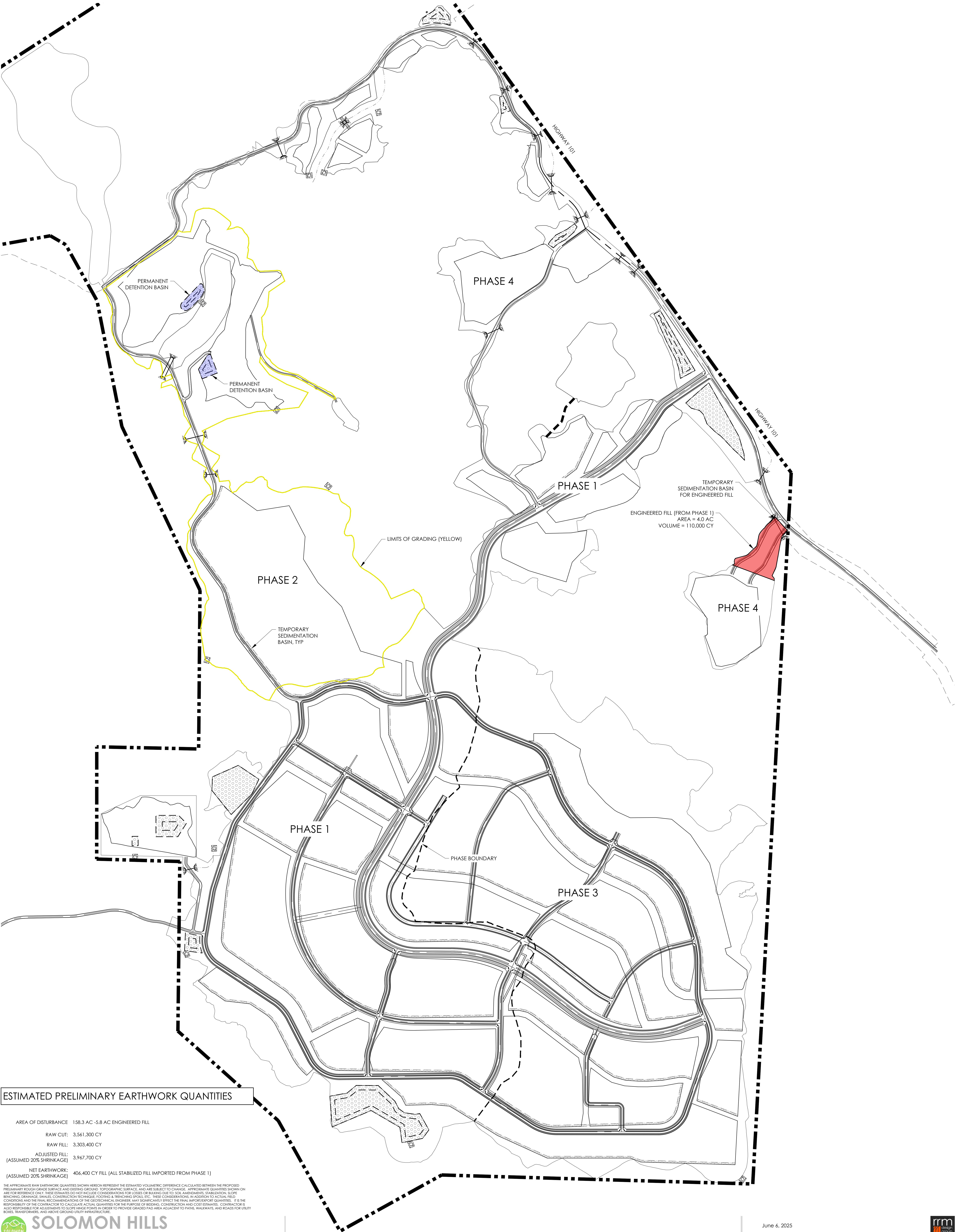
CUT/FILL ANALYSIS
EW PHASE 1

June 6, 2025



JOB# 2298-04-CU22
300 150 0 300 FT

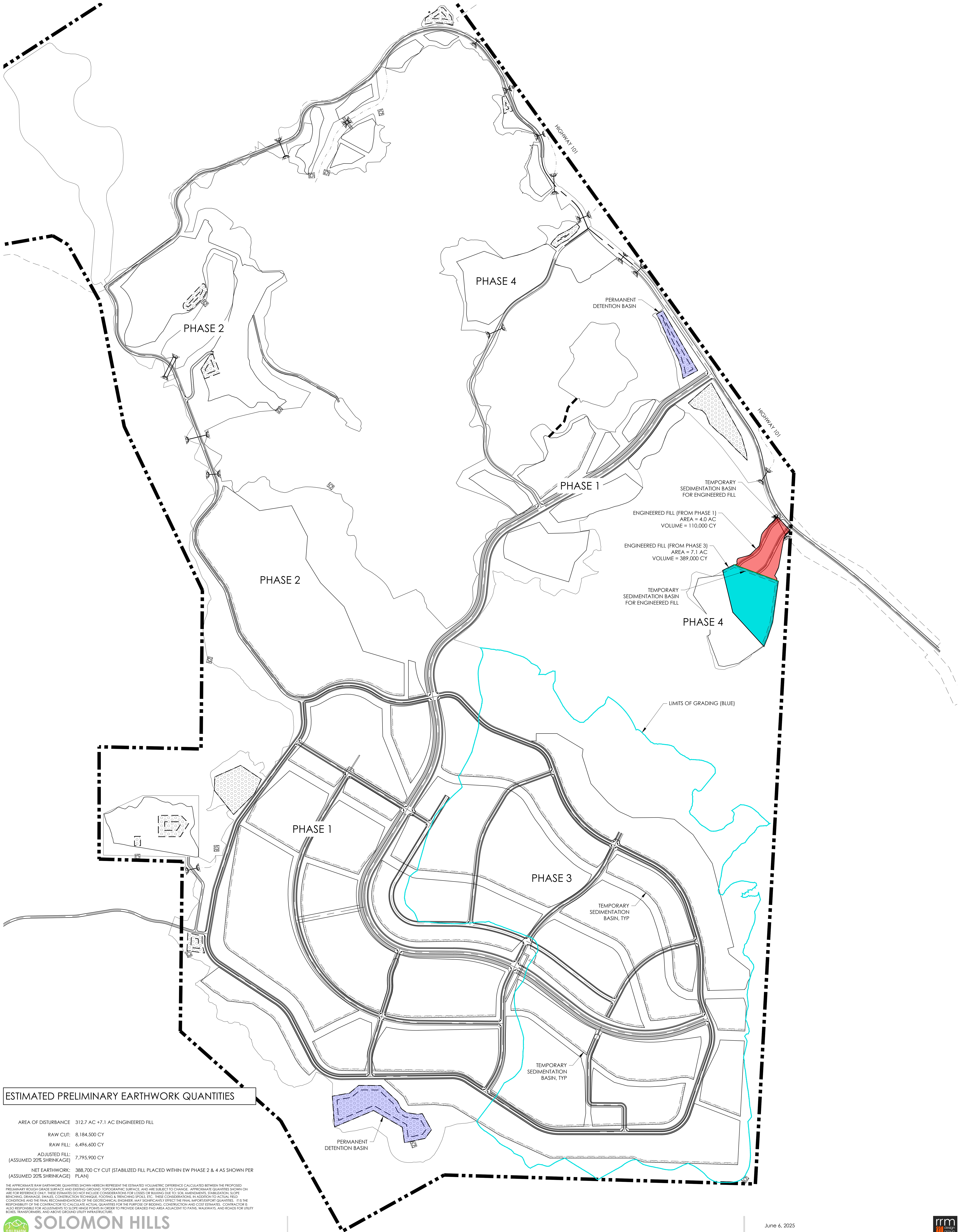
G2_F



ESTIMATED PRELIMINARY EARTHWORK QUANTITIES

AREA OF DISTURBANCE	158.3 AC -5.8 AC ENGINEERED FILL
RAW CUT:	3,561,300 CY
RAW FILL:	3,303,400 CY
ADJUSTED FILL: (ASSUMED 20% SHRINKAGE)	3,967,700 CY
NET EARTHWORK: (ASSUMED 20% SHRINKAGE)	406,400 CY FILL (ALL STABILIZED FILL IMPORTED FROM PHASE 1)

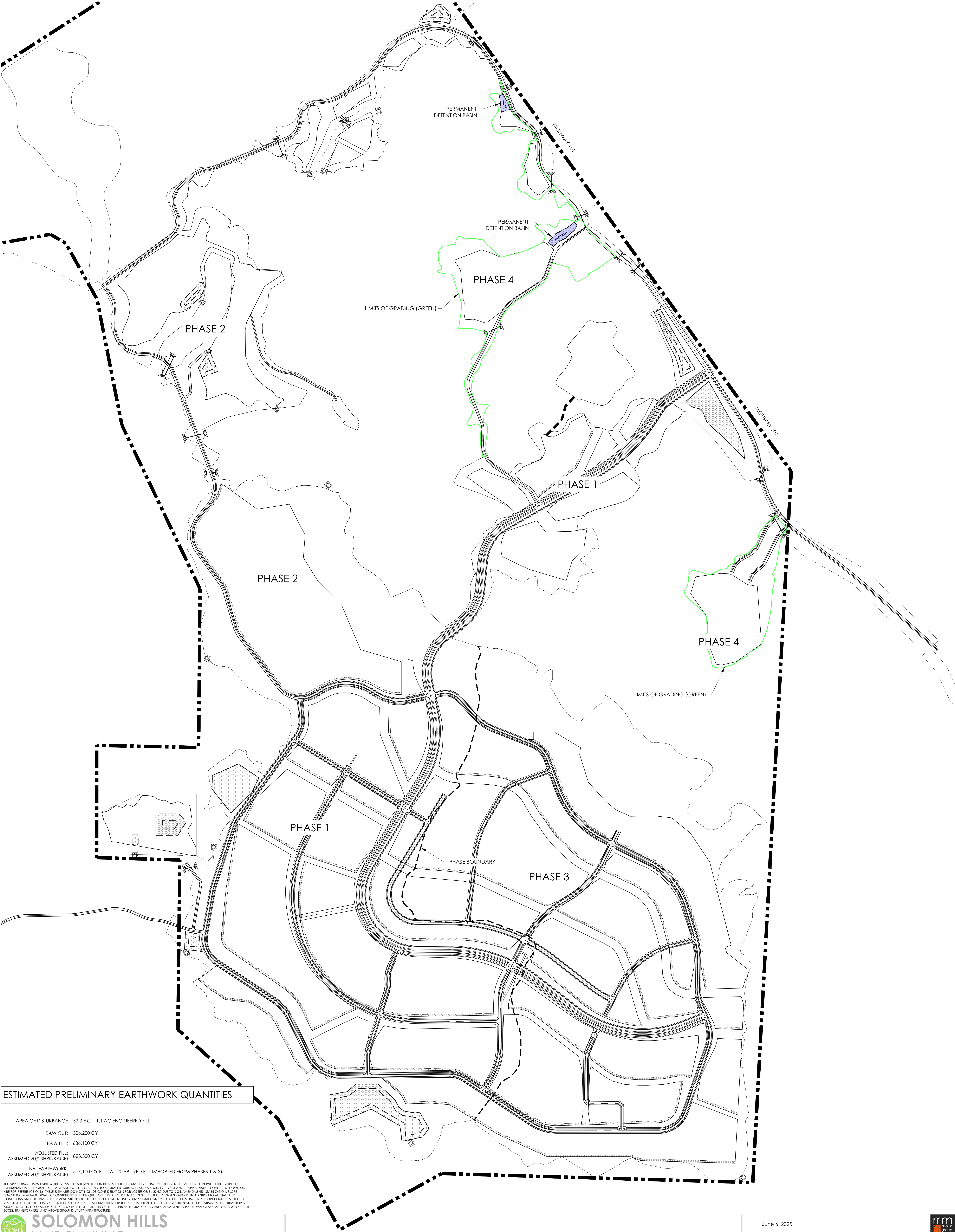
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ESTIMATED PRELIMINARY EARTHWORK QUANTITIES

AREA OF DISTURBANCE	312.7 AC +7.1 AC ENGINEERED FILL
RAW CUT:	8,184,500 CY
RAW FILL:	6,496,600 CY
ADJUSTED FILL: (ASSUMED 20% SHRINKAGE)	7,795,900 CY
NET EARTHWORK: (ASSUMED 20% SHRINKAGE)	388,700 CY CUT (STABILIZED FILL PLACED WITHIN EW PHASE 2 & 4 AS SHOWN PER PLAN)

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ESTIMATED PRELIMINARY EARTHWORK QUANTITIES

AREA OF DISTURBANCE	52.3 AC -11.1 AC ENGINEERED FILL
RAW CUT:	306,200 CY
RAW FILL:	686,100 CY
ADJUSTED FILL: [ASSUMED 20% SHRINKAGE]	823,300 CY
NET EARTHWORK: [ASSUMED 20% SHRINKAGE]	517,100 CY FILL [ALL STABILIZED FILL IMPORTED FROM PHASES 1 & 3]

THE APPROXIMATE RAW EARTHWORK QUANTITIES SHOWN HEREIN REPRESENT THE ESTIMATED VOLUMETRIC DIFFERENCE CALCULATED BETWEEN THE PROPOSED PRELIMINARY ROUGH GRADE SURFACE AND EXISTING GROUND. TOPOGRAPHIC SURFACE, AND ARE SUBJECT TO CHANGE. APPROXIMATE QUANTITIES SHOWN ON ARE FOR REFERENCE ONLY. THESE ESTIMATES DO NOT INCLUDE CONSIDERATIONS FOR LOSSES OR BUILDING DUE TO SOIL AMBIGUITIES, STABILIZATION, SLOPE BENCHING, DRAINAGE SWALES, CONSTRUCTION TECHNIQUE, FOOTING & BENCHING SPILLS, ETC. THESE CONSIDERATIONS, IN ADDITION TO ACTUAL FIELD CONDITIONS AND THE FINAL RECOMMENDATIONS OF THE GEOLOGICAL ENGINEER, MAY SIGNIFICANTLY EFFECT THE FINAL IMPORT/EXPORT QUANTITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE ACTUAL QUANTITIES FOR THE PURPOSE OF BIDDING, CONSTRUCTION AND COST ESTIMATES. CONTRACTOR IS ALSO RESPONSIBLE FOR ADJUSTMENTS TO SLOPE HEDGE PONS IN ORDER TO PROVIDE GRADED PAD AREA ADJACENT TO PAVING, WALKWAYS, AND ROADS FOR UTILITY BOXES, TRANSFORMERS, AND ABOVE GROUND UTILITY INFRASTRUCTURE.