PROBLEM REQUIREMENTS

Determine the following:

1.	Usable map sheet dimensions	1 Point
2.	East-West, North-South limits (length and width) of area to be mapped	1 Point
3.	Maximum flying height above average terrain	2 Points
4.	Flying height above sea level	3 Points
5.	Photo scale	3 Points
6.	Compilation scale that will fit on one map sheet (see diagram) and be drawn in one of the following common engineering scales (10, 20, 30, 40, 50, 60, 100)	3 Points
7.	Definition of the "Neat Model"	1 Point
8.	Dimensions of the "Neat Model"	2 Points
9.	Number of models required to map the given area	2 Points

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PROBLEM B1
19 Points

Sheet 1 of 2

PROBLEM STATEMENT

This problem has two parts. Part I examines the ability to match surveying terms with the listed definitions. Part II requires completion of a series of statements by supplying the missing word or words.

PROBLEM REQUIREMENTS

PARI I: Example

Each of the definitions, numbered 1 through 7 below, defines a term listed below. Enter the letter designating the correct term in the blank to the left of its definition.

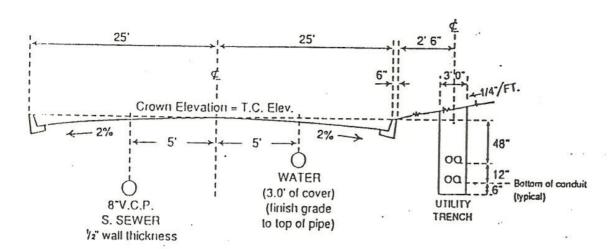
7 Points

-12		20
Exa	mn	lo.

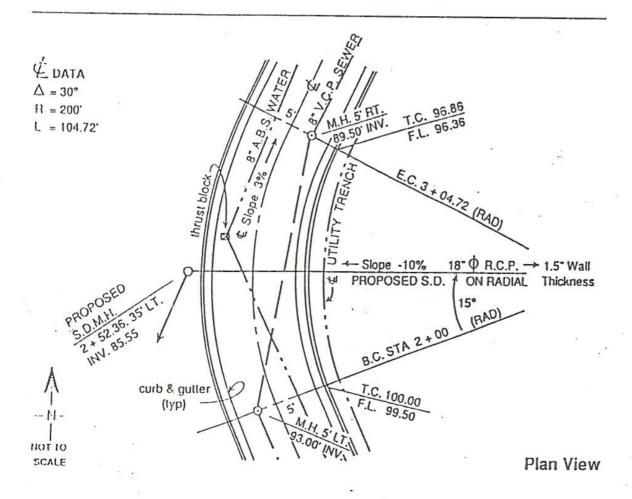
A. MECH	ANIC B.	SU	JRVEYOR	C. PL	UMBER	
B	One whose occupand contours.	ation	is determining length	hs, dire	ections, boundary lines,	
PART I: Definition	s					
A. Alluvion		G.	Intrinsic Evidence		M. Preponderance	
B. Avulsion		Η.	Latent Defect		of Evidence	
C. Equitable Est	Equitable Estoppel		I. Ordinary High-Water		N. Title O. Title Report	
D. Evidence Be		,	Mark Ordinary Mean Wate	or	P. Unwritten Rights	
Reasonable D		J.	Ownership		Q. Written Rights	*
F. Grant	idence		Patent Defect			
1	The union of all th	ie ele	ements that constitute	owners	ship.	1 Point
2.	Summary of recorded documents that constitute Constructive Notice.					
3.	Information not contained in a deed, but allowed to apply or give affect to a description.					
4	An error in a deed description that may be ascertained from the information contained therein.					
5.	. The basis for deciding civil cases involving boundary litigation.					
6	in a second of the second of t					
7	The material gradually and imperceptibly accumulated by the recession of water.					1 Point

PAR	T II: Fill in the Blanks	12 Points
For	the statements listed, fill in the blanks to make the statements correct.	
1.	Unwritten transfers of real property are prohibited by the	1 Point
2.	Recording a deed imparts	1 Point
	Conveyances are construed most strongly against the	1 Point
4.	The ownership of overlapping descriptions is generally decided by	1 Point
5.	Unwritten rights may be established by,, or	1 Point
6.	The trunk of a line tree is located more on the land of Owner A than that of Owner B. The tree is owned	1 Point
7.	Ownership bounded by a lake is a	1 Point
8.	In California, the elements of adverse possession require,	, 2 Points
9.	The boundaries of California are the responsibility of the	1 Point
(O.	The California Coordinate System is legally defined by	1 Point
11.	List three calls in a description in decreasing order of priority.	1 Point

You have been asked to stake a new storm drain line that is to cross an existing road section containing the utilities as shown in the diagram below.



Typical Road Section 2 + 00



PROBLEM REQUIREMENTS

1. Identify the problem(s) most likely to occur and describe how they might be resolved. Sketch and dimension the profile of the storm drain to show the position of the crossings.

12 Points

2. Does your work require a review? Explain your answer.

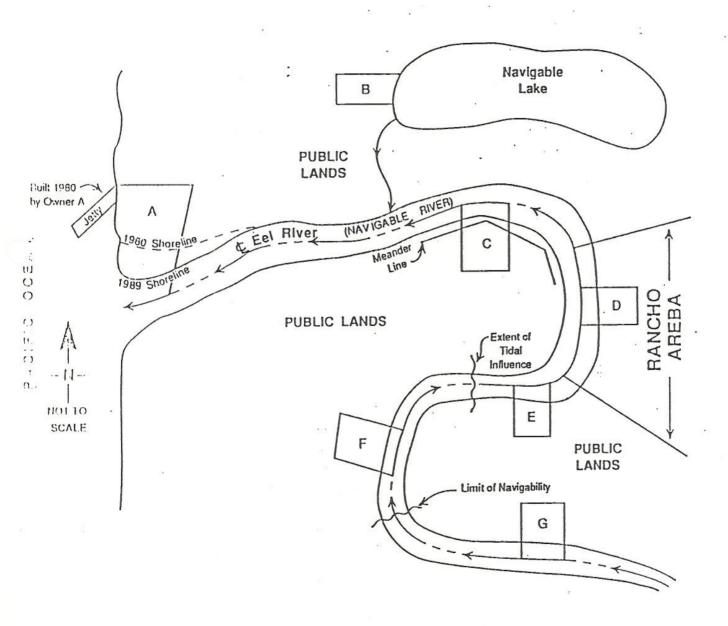
3 Points

The diagram below illustrates seven parcels labeled A through G. All parcels have littoral or riparian rights.

PROBLEM REQUIREMENTS

For each parcel, A through G, describe the boundary line and, when applicable, describe any limitations to ownership.

2 Points Each



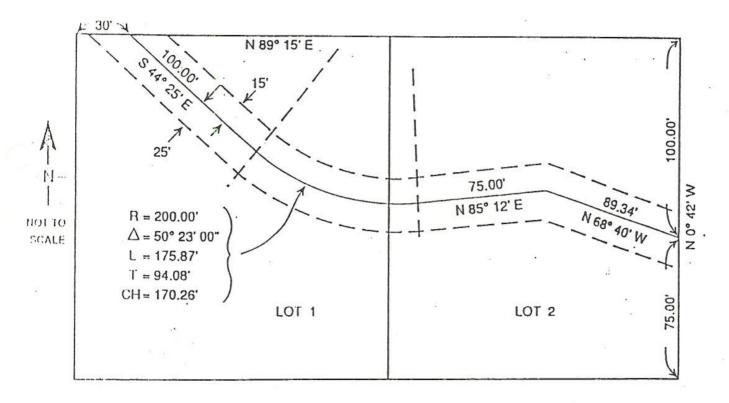
The purpose of this problem is to test the candidate's understanding of terms, definitions, and descriptions related to easements.

PROBLEM REQUIREMENTS

1. Prepare a strip-type legal description for the easement shown in the diagram below.

5 Points

Proposed Storm Drain Easement, Tract No. 54210
Book 105 of Maps, Page 44, Records of San Benito County, CA



2. Define the following terms:

a.	appurtenant easement				1 Point
b.	dominant tenement				1 Point
c.	servient tenement	12 19 122	€2		1 Point
d.	easement overburdening				1 Point
e.	right-of-way			¥	1 Point

Your client has requested that you provide a topographic map of the Jackson landfill by photogrammetric methods. In so doing, you are required to use the following criteria and equipment.

- 1. The map must fit on a single mylar sheet with borders as specified in the diagram below.
- 2. The common engineering map scale that allows the entire project to be compiled at the maximum size that will fit on the specified single sheet.
- 3. The camera focal length is 6"; the film format is 9" x 9".
- 4. The plotter has 9" x 9" diapositive plate carriers and a C-factor of 2000, as shown in the diagram below.
- A forward photo overlap of 60% and a sidelap of 30% or an accepted common practice are required.
- 6. The terrain varies from 1500 feet to 2100 feet above sea level.
- 7. The contour interval is 1 foot.

