

**SASKATCHEWAN LAND SURVEYORS' ASSOCIATION
2023 PROFESSIONAL EXAMINATION
STANDARDS OF PRACTICE AND PRINCIPLES OF EVIDENCE – PAPER IV**

3 HOURS

12 questions on 6 pages

Question 1

- /2 (a) A *Controller of Surveys Notice*, dealing with water bodies on Highway, RM Roadway and Public Improvement Plans was published on July 28, 2022. What direction does this notice give to Saskatchewan Land Surveyors?
- /2 (b) Summarize the intent of Controller of Surveys Policy GO-04/003: '*Extent of work an SLS can do on common boundaries defining provincial and federal lands.*'

Question 2

- /2 (a) What is a Parcel Tie (or Tie Code)?
- /1 (b) What is a Pending Parcel?
- /1 (c) What is a Plan Exception?
- /3 (d) Under what 3 circumstances can restrictions imposed by Parcel Ties be lifted?

Question 3

- /3 (a) In the context of a condominium development, define:
- (i) *Bare Land Unit*
 - (ii) *Regular Unit (intended for residential purposes)*
 - (iii) *Services Unit*
- /3 (b) In the context of a condominium development
- (i) *What is a Replacement Plan?*
 - (ii) *When is a Replacement Plan required?*
 - (iii) *How are titles issued pursuant to a Replacement Plan?*

Question 4

- /2 (a) What is a 'cut cross', and when is a 'cut cross' considered a monument? In what instances would you consider using a cut cross?
- /2 (b) You are searching for a monument that is under 2m deep flood water. The monument may be in its original location but is inaccessible at this time. What notation should you use on your plan to record this situation?
- /2 (c) Under what circumstances is it acceptable to show an established (or calculated) point on a registered plan, instead of placing and showing a monument?
- /2 (d) You have found a monument buried 1.6m below the surrounding grade. You are confident that the monument is undisturbed. What is the recommended method to remedy this situation and to prevent the need to dig a 1.6m deep hole to find this monument in future?

Question 5

The case "*Resort Village of Island View v. Romashenko*", was brought before the Court of Appeal for Saskatchewan in 2009 and the judgement was published in 2010.

- /1 (a) What was the cause that initiated this court case?
- /1 (b) What was the judgement of this case?
- /2 (c) Describe how this case affects your assessment of a natural boundary.
- /2 (d) If an existing titled bank exists in a source parcel for a subdivision you are working on, what are the legal plan requirements?

Question 6

- /2 (a) What is the difference between the First System and the Second System of Township Surveys?
- /2 (b) Describe the Third (Modified) System of Township Surveys, including when and where it was used.
- /2 (c) Where is the Principal (or Prime) Meridian (the backbone of Western Canada's Township Survey System)? Give one reason why this location was selected.

Question 7

- /2 (a) Why is it important for a Saskatchewan Land Surveyor to understand and interpret metes and bounds descriptions?
- /2 (b) Sketch the metes and bounds description shown below.

**The most Southerly 26.21 metres in perpendicular width throughout of
Lots 9 and 10, EXCEPT: the most Westerly 35.052 metres in perpendicular
width throughout of said Lot 9
Block 534
Saskatoon, Saskatchewan
Plan 66 S 18566**

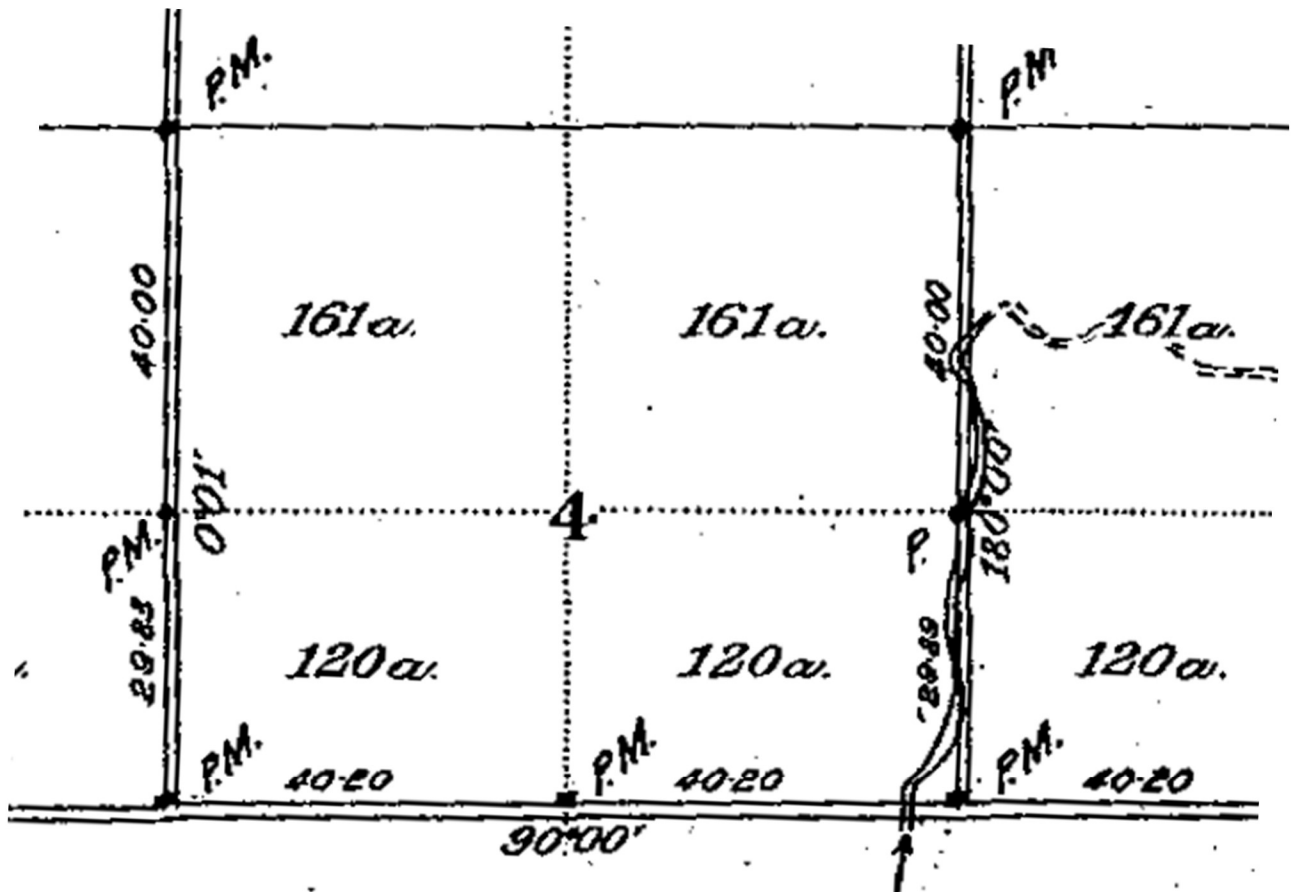
Question 8

- /2 (a) What is the purpose of an ISC generated Easement Analysis?
- /2 (b) In the context of ISC's LAND system, what are Extension Numbers and why are they necessary?
- /3 (c) Where are the GPS Validation Networks and EDM Baselines in Saskatchewan?

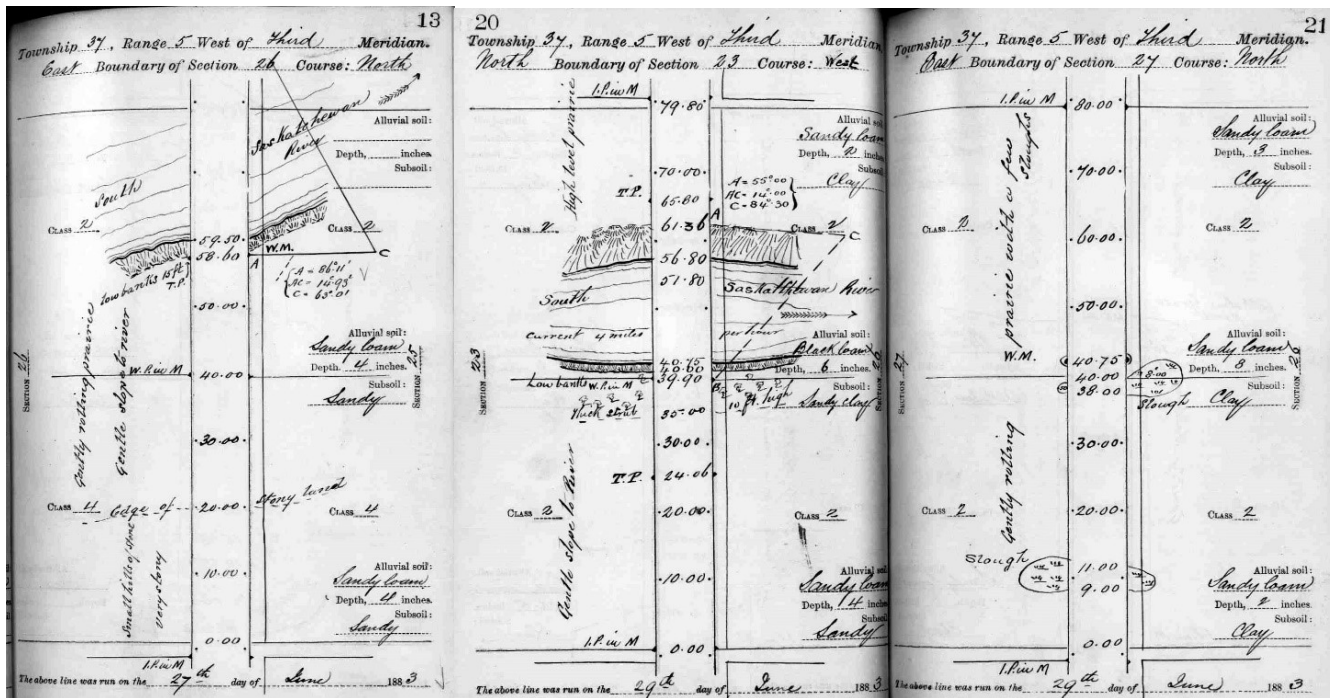
Question 9

Your client has asked you to establish and post the LSD boundaries for SW $\frac{1}{4}$ 4-3-1 W2M (clip from township plat below).

- /2 (a) Outline sources of research and the information you would collect / review, prior to conducting the fieldwork for this survey.
- /3 (b) Sketch how you would establish and post the LSD corners / boundaries, and any other posting requirements. Include what markings are required on your placed monuments (calculations not required).
- /1 (c) You will need to register a plan to record your work, what type of plan would you register?
- /2 (d) What are the minimum accuracy standards that you would need to achieve for this project?



Question 10



- /8 (a) Sketch the boundaries, monuments, measurements, and approximate position of the river for Section 26-37-5-W3, recorded on the above split line field notes.
- /8 (b) Assume *Bulletin 38* (Department of the Interior), *Description of Boundary Monuments Erected on Surveys of Dominion Lands 1871 – 1917* instructions were followed (for prairie).
- Sketch the detailed monument configuration and post markings that you would expect to find at N $\frac{1}{4}$ 23-37-5-W3. What would the difference be if this post had been placed after 1886?
 - Sketch the detailed monument configuration and post markings that you would expect to find at the witness monument on the east boundary of Section 26. What would the difference be if this post was placed in 1881?

Question 11

- /3 (a) Sketch how you would post and what measurement you would show for a new surface road right of way, when the posted boundary intersects a parcel defined by the following 3 plans of survey:
- Metes and Bounds description.
 - Descriptive Plan Type I
 - Descriptive Plan Type I (un-monumented boundary of the new road intersects the DPI boundary)
- /2 (b) In the context of the *ISC Road Survey Guide Part I General Requirements*, what is the difference between a Monument and a Reference Monument.
- /2 (c) Sketch a typical method of placing a Reference Monument for a Road Right of Way Survey.
- /2 (d) Under what circumstances can you omit placing a Reference Monument on a Surface Road Right of Way Survey?
- /1 (e) What are the preferred / recommended boundary limits to post when conducting a Road Right of Way Survey?
- /1 (f) When is a Saskatchewan Land Surveyor required to post both boundaries of a linear Right of Way, Road, or Railway?

Question 12

Your client has asked you to survey and post a pipeline right of way, and to register a feature right of way plan at ISC after the pipeline is constructed. The proposed pipeline route is between oil well 15-25-4-26 W3 and battery site in 9-36-4-26 W3. The plan search (township plat and plan) is on page 6. Assume the railroad is in use and is titled to CPR.

- /6 (a) Sketch how you would post the right of way, with theoretical measurements, evidence used, and information required on the plan you will submit to ISC. (Calculations not required).
- /4 (b) Assume plan F4152 posted the N $\frac{1}{4}$ 25-4-26 W3. Explain your reasoning for using, or not using, this post on this pipeline right of way survey.
- /2 (c) In the event that the survey evidence defining the railroad (RR) boundary is lost, what options would you consider re-establishing the RR boundary. (Calculations not required).
- /2 (d) What support documents does a Saskatchewan Land Surveyor need to prepare to accompany the plan when submitting a *Plan of Survey Showing Feature Right of Way for Pipeline* to ISC for registration.
- /3 (e) Assume the right of way you are surveying crosses the South Saskatchewan River. Sketch how you would show the river crossing on the plan you will register at ISC.





CANADIAN PACIFIC RAILWAY
 PLAN
 OF THE
 WEYBURN-STIRLING BRANCH
 FROM A POINT
 IN SEC. 4, TWP. 7, RGE. 21, W. 3RD M.
 TO A POINT
 IN SEC. 25, TWP. 3, RGE. 1, W. 4TH M.
 MILE 250.86 TO MILE 316.63

SCB00012

Department of the Interior, Ottawa, 27th August 1914.
 Approved and Confirmed

AS CONSTRUCTED
 Scales:—1000 Feet = 1. Inch—
 and as noted.


 Surveyor General.

 Engineer of Construction

 Chief Engineer

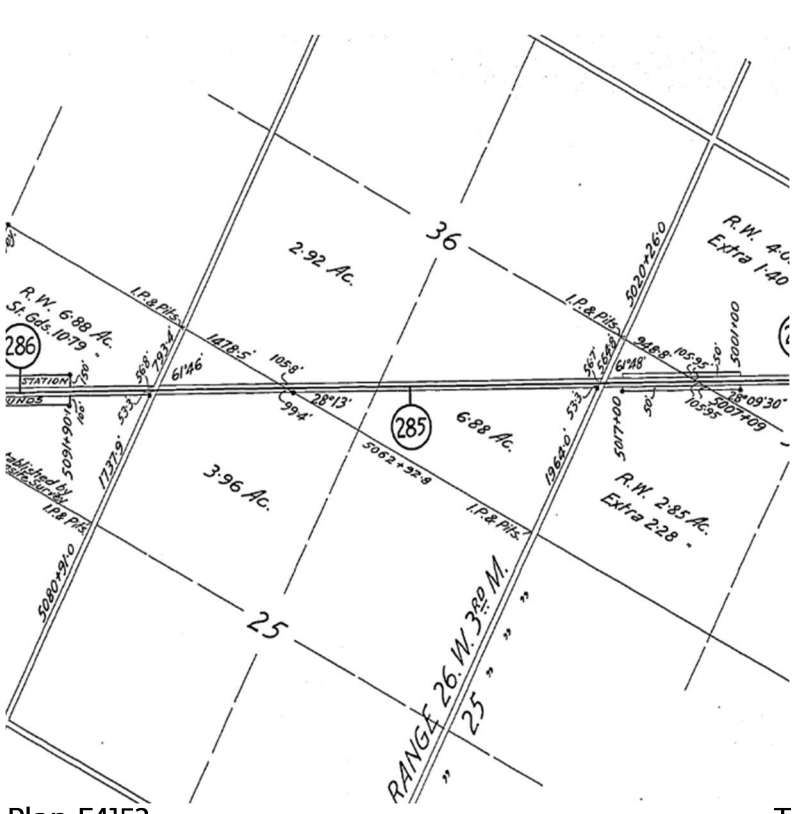
 Vice President

F4152

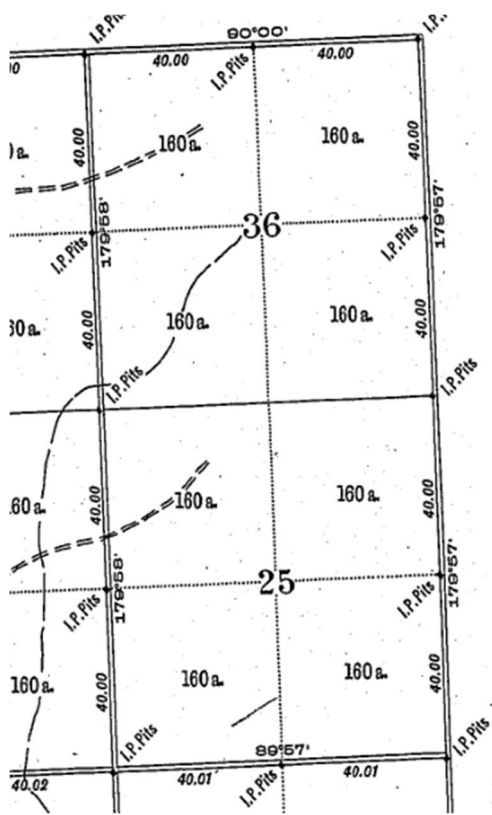
Lands required for Railway purposes are coloured Pink

Standard Iron Posts 3 ft. long are planted in accordance with the Saskatchewan Surveys Act at all points marked thus.
 Three feet within limits of Right of Way & Extra Land, and on Station Ground limits.
 Regular Right-of-Way unless otherwise indicated is 100 ft. wide - 50 ft. on each side of centre line.

Title Block, Plan F4152



Plan F4152



Township Plat Twp. 4 - Rge. 26 W3 (1909)