SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title	: <u>CIVIL ENGINEERING TE</u>	CHNICIAN		
Code No.:	ARC 115			
Program:	DRAFTING & DESIGN			
Semester:	TWO			
Date:	JANUARY 1987			
Author:	W.RDAVIES			
		New:	Revision: X	
APPROVED:	Chairperson	Date	87-02-04 Date	

DRAFTING & DESIGN

Course Name

ARC 115

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GENERAL OBJECTIVES

Following the successful completion of DRF 110, the student will be introduced to the whole field of drawings, schedules and sketches that are widely used in the civil engineering industry.

It should be realized that the course does not cover the creation of design drawings as such work will form the basis of subsequent courses in structural design, hydraulics and soil mechanics.

- 1. To read civil engineering drawings accurately and quickly.
- 2. To develop neat sketching ability.
- 3. To produce a broad range of typical civil engineering drawings.

SPECIFIC OBJECTIVES:

To complete the following work neatly and accurately:

- 1. Bulk excavation
- Highway sections
- Highway alignment
- 4. Sewer plan and profile
- Concrete structure (isometric)
- 6. Reinforced concrete wall detail
- 7. Re. bar schedule
- 8. Graphs
- Progress schedules
- 10. Prestressed concrete detail
- 11. Structural steel detail
- 12. Truss analysis (Bow's notation)
- 13. Piping layout (isometric)
- 14. Storm water manhole detail
- 15. Site layout grid control

GRADING AND EVALUATION:

All of the above assignments will be considered of equal value.