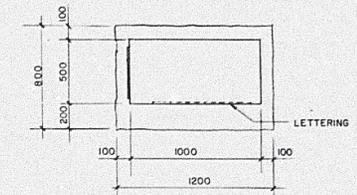
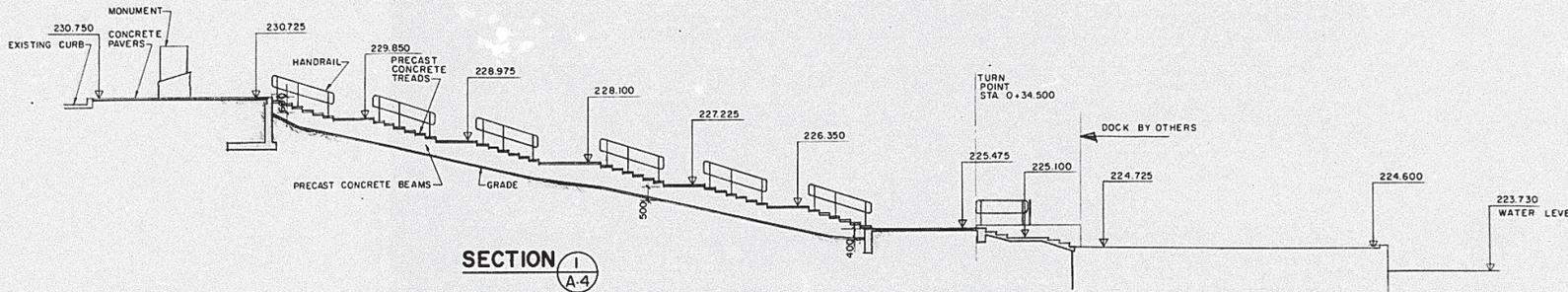
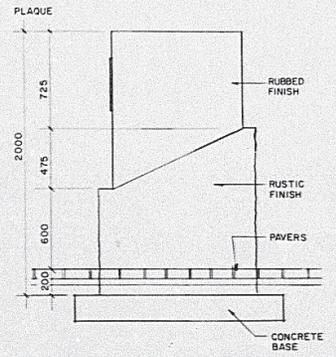


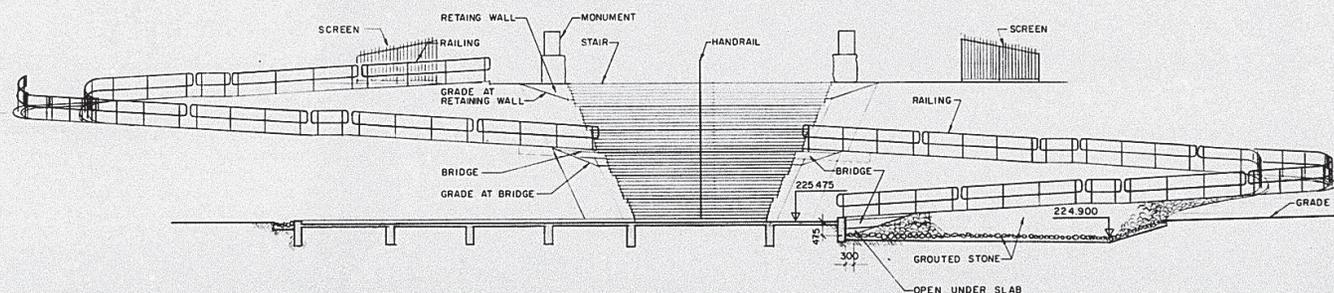
APPENDIX H – TACHE DOCK DRAWINGS



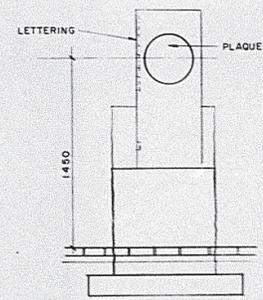
SOUTH MONUMENT PLAN
NORTH MONUMENT OPPOSITE HAND



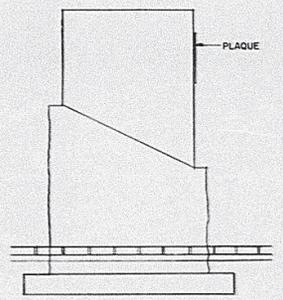
NORTH ELEV., SOUTH MONUMENT



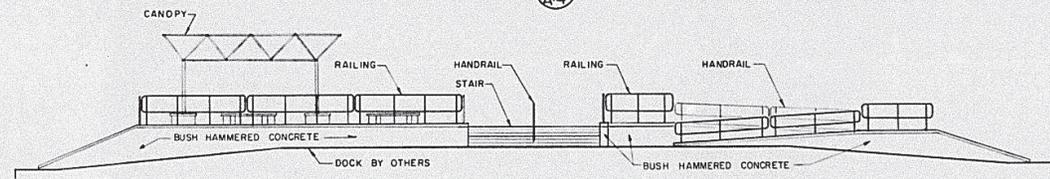
SECTION 2
A-4



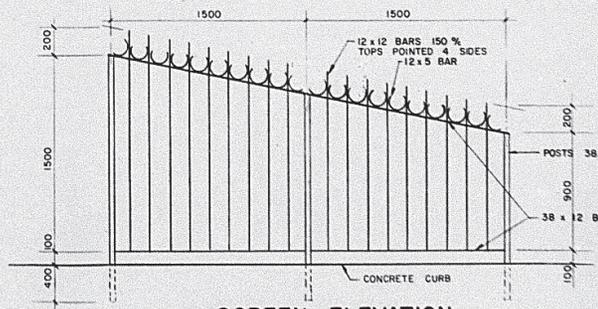
EAST ELEV., NORTH MONUMENT
SOUTH MONUMENT OPPOSITE HAND



SOUTH ELEV., NORTH MONUMENT



SECTION 3
A-4



SCREEN ELEVATION

MONUMENT DETAILS

1:20
MONUMENTS TO BE SUPPLIED BY OWNER,
AND INSTALLED BY CONTRACTOR.
CONCRETE BASE SUPPLIED & INSTALLED
BY CONTRACTOR.

PRELIMINARY
Not To Be Used
For Construction

REV	ISSUED	REV	DESCRIPTION	DWN	APP	DATE	SEAL	SEAL

Underwood McLellan Ltd.
Consulting Engineers and Planners

APPROVED BY: _____ DATE: _____
DESIGNED BY: G. ROZITIS
DRAWN BY: JRC
CHECKED BY: _____
SCALE: 1:100 JOB No: 4084-003-01



MANITOBA ARC AUTHORITY

ST BONIFACE DOCKS & RIVERBANK PROJECT

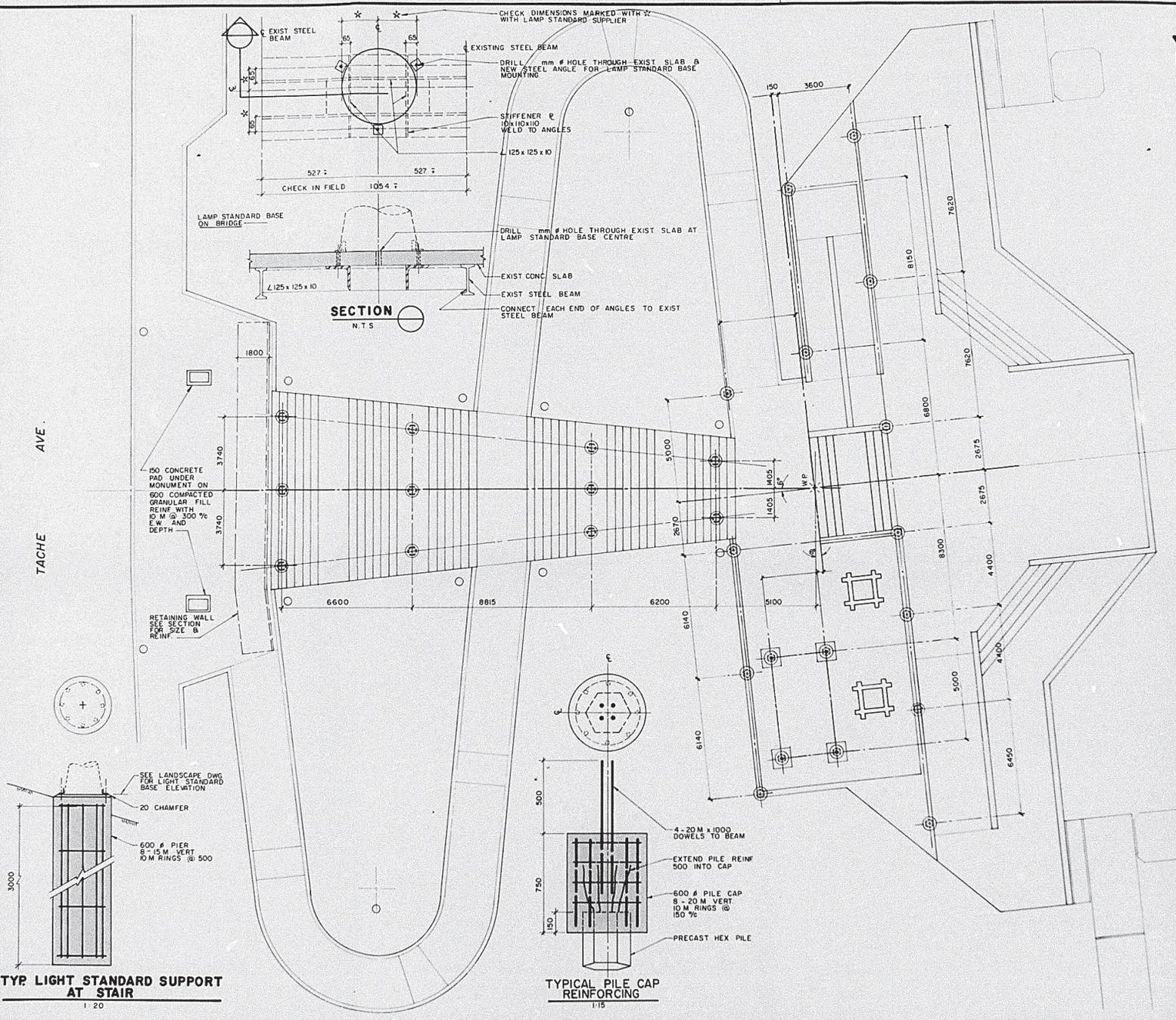
ARCHITECTURAL
ELEVATIONS, SECTIONS & DETAILS

A-4
DWG No. REV

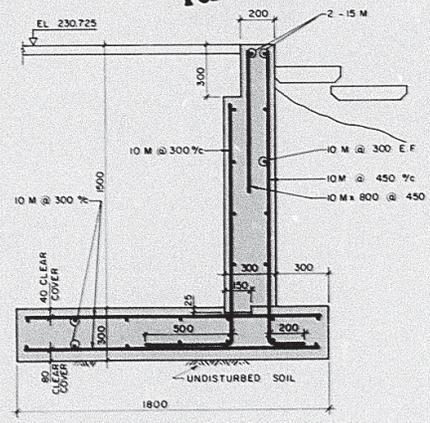


GENERAL NOTES

- 1 ALL PILES SHALL BE 300mm HEXAGONAL PRECAST CONCRETE PILES CAPABLE OF SUSTAINING A DESIGN LOAD OF 450 kN
- 2 ALL PILES SHALL BE DRIVEN DOWN TO THE REFUSAL UNLESS OTHERWISE NOTED
- 3 ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF $f_c = 30$ MPa AT AGE OF 28 DAYS
- 4 CEMENT SHALL CONFORM TO CSA STANDARD CAN 3-A5-M77. USE SULFATE RESISTANT CEMENT (SYMBOL 50) FOR PILES, PILE CAPS, RETAINING WALLS & CONCRETE IN CONTACT WITH SOIL. USE NORMAL PORTLAND CEMENT (SYMBOL 10) FOR ALL OTHER CONCRETE.
- 5 CONCRETE MIXTURE REQUIREMENTS:
 - a) MAXIMUM AGGREGATE SIZE - 20mm
 - b) SLUMP - 60-120mm
 - c) ENTRAINED AIR - 5% ± 1%
- 6 DO ALL CONCRETE WORK, FORMING & REINFORCEMENT IN ACCORDANCE WITH THE CSA STANDARD CAN 3-A23.1-M77
- 7 REINFORCING STEEL SHALL BE HIGH STRENGTH STEEL DEFORMED BARS WITH A MINIMUM YIELD STRENGTH OF $f_y = 400$ MPa, CONFORMING TO CSA STANDARD G3012 M
- 8 FABRICATION, DETAILING & PLACING OF REINFORCING STEEL & ACCESSORIES SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND AS REQUIRED BY THE CSA STANDARD
- 9 THE PRECAST CONCRETE MANUFACTURER IS RESPONSIBLE TO DESIGN THE PRECAST CONCRETE STEPS & LANDINGS FOR THE STAIR & THE PRECAST CONCRETE BEAMS IN ACCORDANCE WITH THE CSA STANDARDS



PRELIMINARY
Not To Be Used
For Construction



RETAINING WALL DETAIL
SCALE 1:15

TYP LIGHT STANDARD SUPPORT AT STAIR
1:20

TYPICAL PILE CAP REINFORCING
1:15

DATE	REV	ISSUED

REV	DESCRIPTION	DWN	APP	DATE

Underwood McLellan Ltd.
Consulting Engineers and Planners

APPROVED BY	DATE
DRAWN BY NVS	DESIGNED BY T.H.
CHECKED BY	CHECKED BY
SCALE 1:100	JOB No 4084-003-01



MANITOBA ARC AUTHORITY	
ST. BONIFACE DOCKS & RIVERBANK PROJECT	
STRUCTURAL PILING LAYOUT DOCK & STAIRWAY PLAN	S-2 DWG No. REV.