

G.I.-30 SEPT. 1976

GEOCRES No. 31F-120DIST. 42 REGION W.P. No. 357-88-00CONT. No. W. O. No. STR. SITE No. HWY. No. 511LOCATION Storm Water Detention
ChambersNo of PAGES - =====OVERSIZE DRAWINGS TO BE INCLUDED WITH THIS REPORT. REMARKS:

To: D. Burke
Project Engineer
Planning and Design Section
Eastern Region
Fax: (613) 548-4821

Date: May 29, 1995

From: Pavements and Foundations Section
Room 315, Central Bldg.

Tel: (416) 235-3731
Fax: (416) 235-5240

Re: Storm Detention Chambers
Highway 511, Village of Lanark

As requested, we have reviewed the Morrison Hershfield Limited design drawings for this project and offer the following comments:

Detention Pond A is probably founded on sand in which case dewatering will be a consideration once the water table is reached.

Detention Pond B is probably founded on bedrock in which case ensuring a nonyielding foundation across the entire detention cell is critical. Bedrock elevation may be below the founding elevation at the most southerly extent of the detention cell. Consideration could be given to extending the foundation to bedrock where necessary with mass concrete in the memo of Jan 13/95.

If there are any questions, please call.

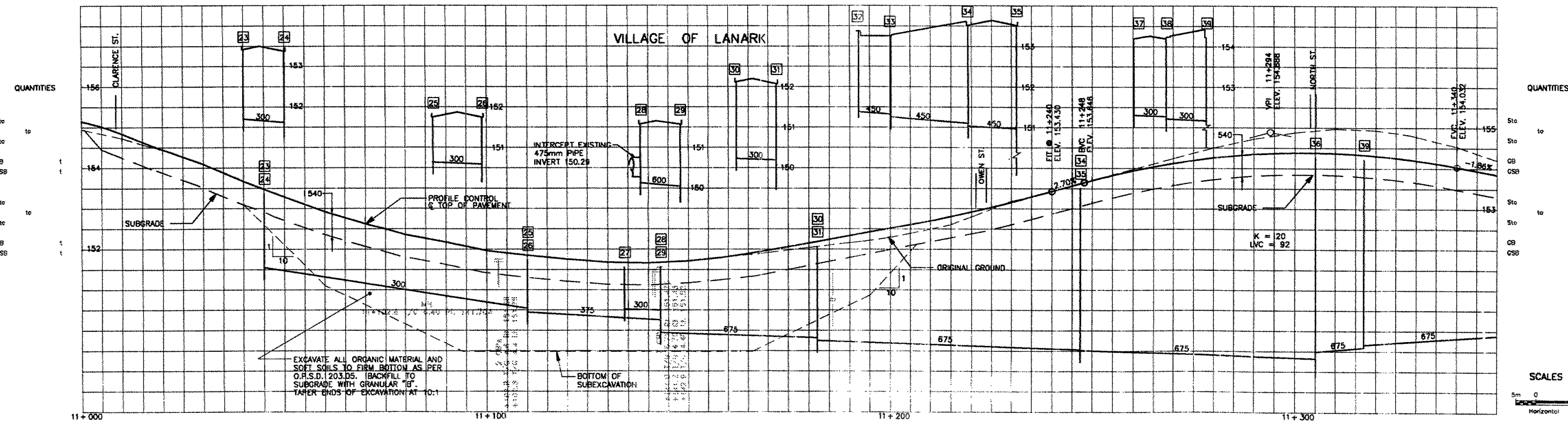
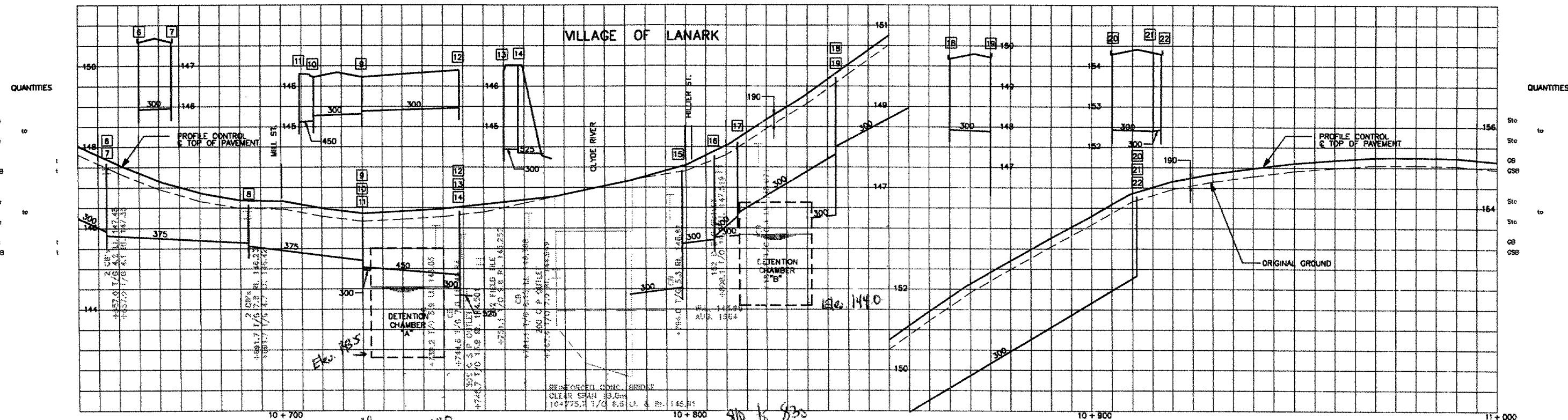


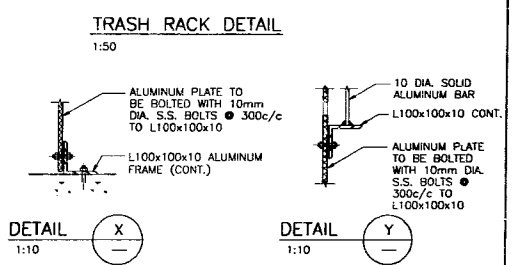
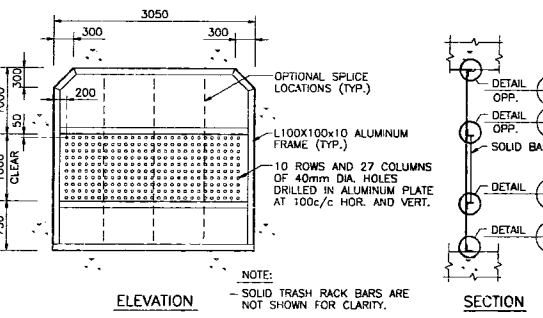
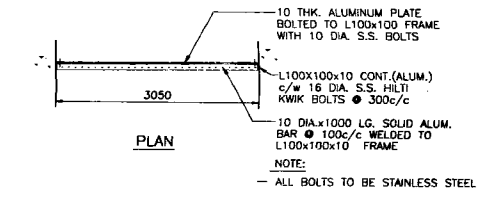
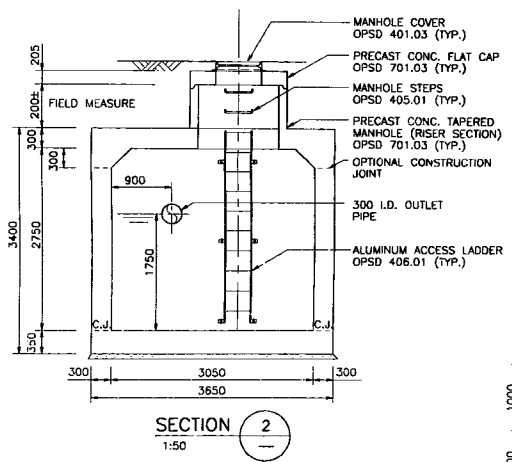
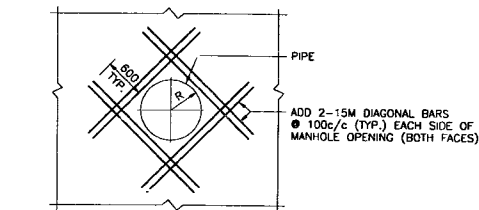
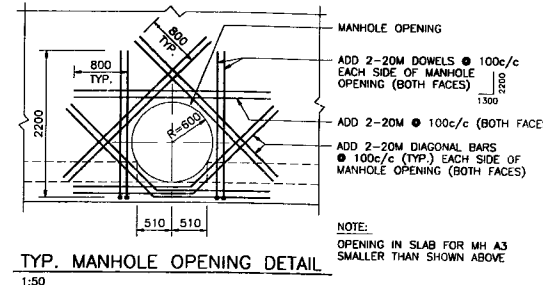
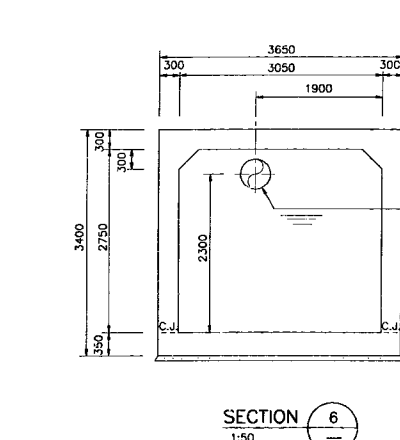
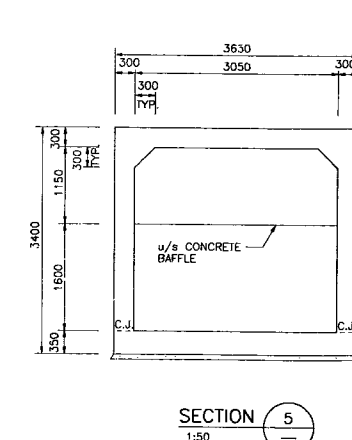
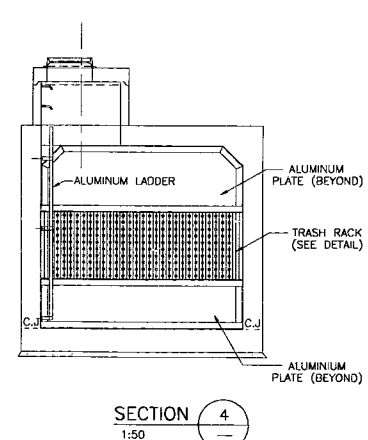
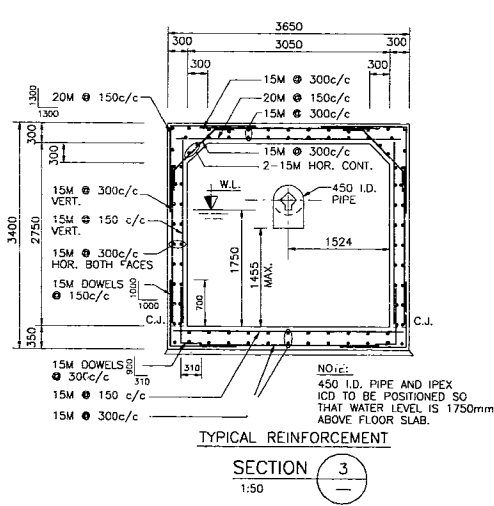
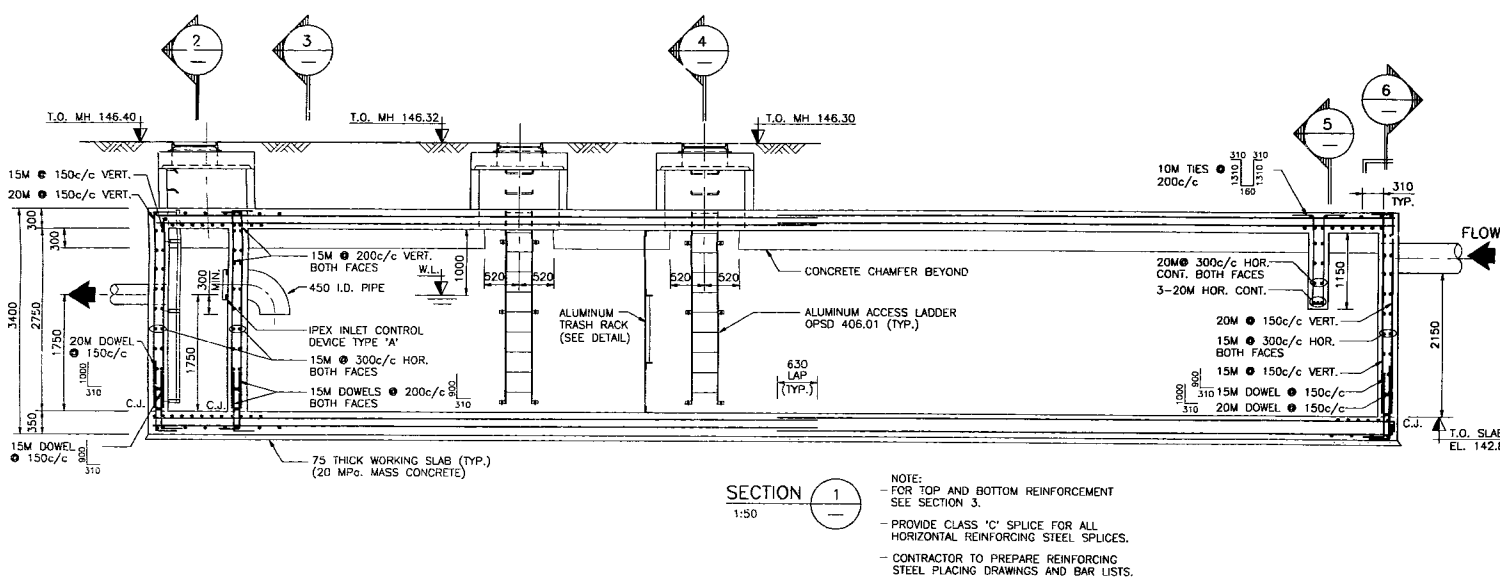
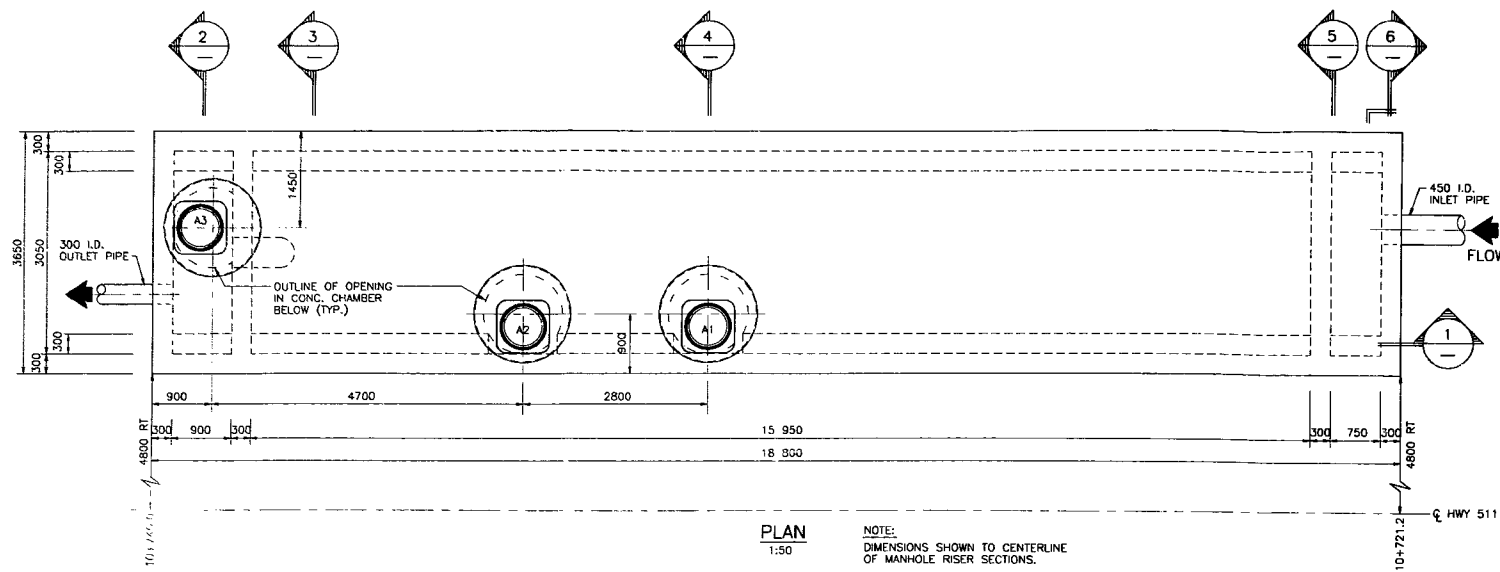
D. Dundas, P.Eng.
Sr. Foundation Engineer

GEOCRES 31F-120

WP 357-88-00

OVERSIZE DRAWING(S)





QUANTITIES	
MASS OF REINF. STEEL (Tonnes)	5.1
MASS OF REINF. STEEL (COATED) (Tonnes)	5.4
VOL. OF CONCRETE 30 MPa (m ³)	86
VOL. OF CONCRETE 20 MPa (m ³)	5



REVISIONS	DATE	BY	DESCRIPTION
DESIGN	MMA	CHK. LHM	CODE OHBDC-91
DRAWN	CY	CHK. MUA	SITE
			STRUCT.
			SCHEME
			DWG. C1

DIST. No.
CONT. No.
WP. No. 357-88-00

HWY 511
STORM DETENTION
CHAMBER-A

SHEET
37

Morrison Hershfield Limited
Consulting Engineers

GENERAL NOTES

- CLASS OF CONCRETE TO BE 30 MPa.
- CLEAR COVER TO REINFORCING STEEL:
a) BOTTOM OF TOP SLAB = 40mm \pm 10mm
b) REMAINDER (UNLESS OTHERWISE NOTED) = 70mm \pm 20mm
- REINFORCING STEEL TO BE GRADE 400 UNLESS OTHERWISE SPECIFIED. ALL BARS ON INSIDE FACES TO BE EPOXY COATED.
- LEGEND
I.D. DENOTES INSIDE DIAMETER
S.S. DENOTES STAINLESS STEEL
C.J. DENOTES CONSTRUCTION JOINT
HOR. DENOTES HORIZONTAL
VERT. DENOTES VERTICAL
ALUM. DENOTES ALUMINUM
- ALUMINUM PLATES, ANGLES, AND RODS TO BE FABRICATED FROM ALUMINUM ALLOY 6061-T6.

CONSTRUCTION NOTES

- BACKFILL SHALL BE PLACED SIMULTANEOUSLY BEHIND BOTH SIDES OF STORM DETENTION CHAMBER KEEPING THE HEIGHT OF THE BACKFILL APPROXIMATELY THE SAME. AT NO TIME SHALL THE DIFFERENCE IN ELEVATION BE GREATER THAN 500mm.
- NO CONCRETE SHALL BE PLACED UNTIL THE DEPTH OF THE EXCAVATION AND THE CHARACTER OF THE FOUNDATION HAVE BEEN APPROVED BY THE ENGINEER.

DRAWING NOT TO BE SCALED
100 mm ON ORIGINAL DRAWING

METRIC

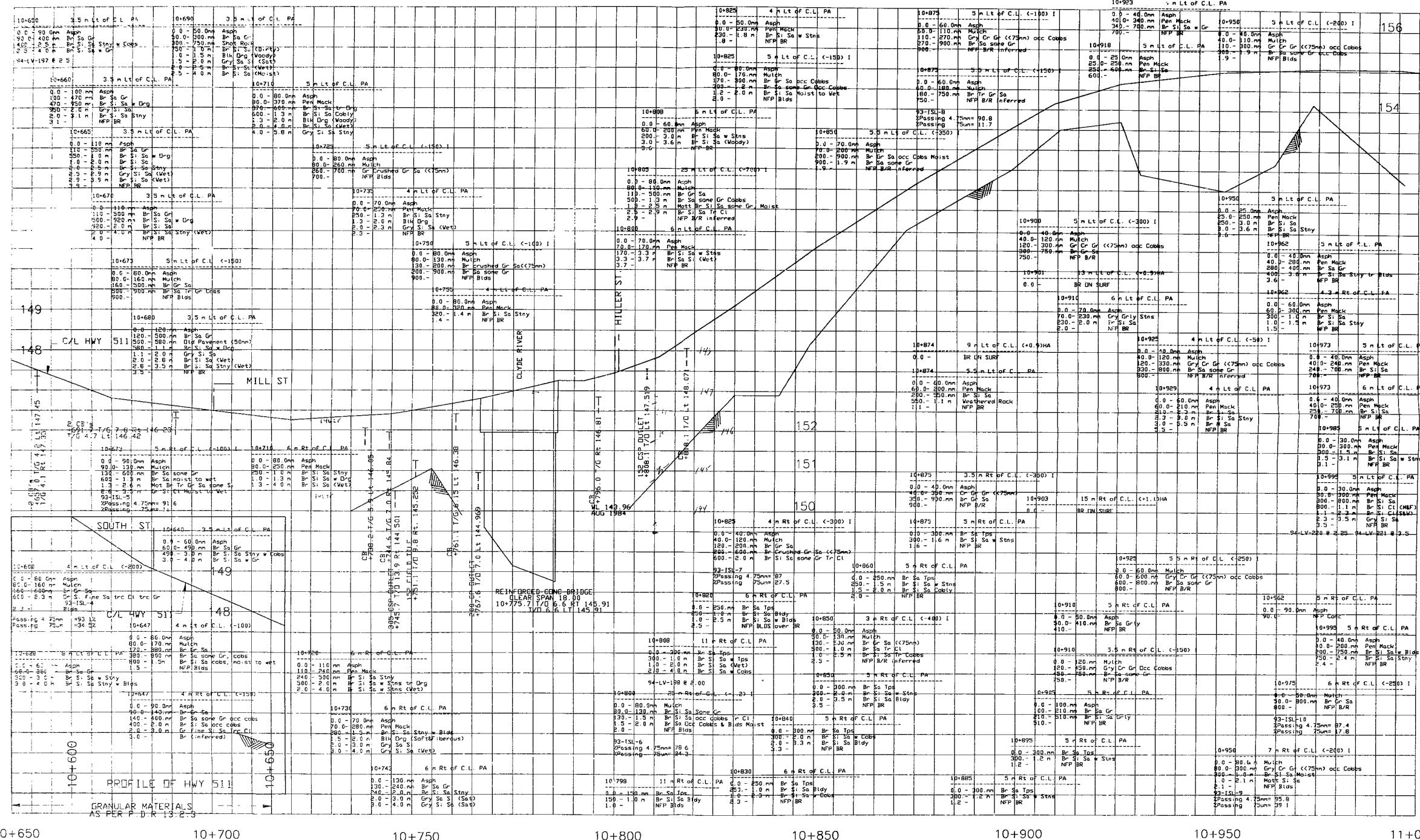
PLATE No
CONT No
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SHEET

STA 10+650 TO STA 11+000
Survey AUG 86 Revised

QUANTITIES

QUANTITIES



10+650

10+700

10+750

10+800

10+850

10+900

10+950

11+000

GRANULAR MATERIALS
AS PER P.D.R. 13.2.3PROCESS MATERIAL, TRANSITION AT RATE
OF 10 m FOR EVERY 40 mm DROP.GRANULAR MATERIALS
AS PER P.D.R. 13.2.3

SCALES

