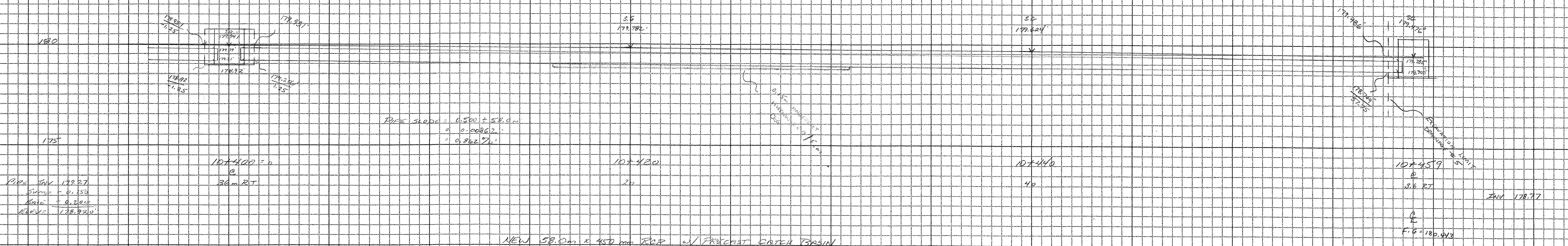


Drainage System # 4B

10+490, 3.6m RT ~ 10+459, 3.6m RT



PIPE SLOPE =  $\frac{6.500}{58.0m}$   
 = 0.10862  
 = 0.862%

PIPE INV 178.27  
 SURF = 0.153  
 ROAD = 0.200  
 F.F. = 178.920

10+490 = 0  
 3.6m RT

10+420  
 20

10+440  
 40

10+459  
 3.6m RT

INV 178.77

NEW 58.0m x 450mm RCP w/ PRECAST CATCH BASIN

20/1/20 THROUGH EXCAVATION OF EARTH

CATCH BASIN	DEPTH	1.25	179.206
0	178.92	57.25	178.709
1.25	178.92	57.25	179.486
1.25	179.251	41	179.624
0	179.941	20	179.782
-1.25	179.251	1.25	179.981
-1.25	178.709	1.25	179.206
0	178.92		

$A_1 = 2.553 \text{ m}^2$   
 $V_1 = 2.553 \text{ m} \times 2.5 \text{ m} = 6.383 \text{ m}^3$   
 F.M. BY C. GREENWOOD  
 $(0.15 \text{ m} \times 14.63 \text{ m} \times 1.45 \text{ m}) = 3.182 \text{ m}^3$   
**TOTAL = 74.818 m**

20/1/20 GRANULAR BACKFILL FOR STRUCTURE'S

$(0.15 \text{ m} \times 14.63 \text{ m} \times 1.45 \text{ m}) = 3.182 \text{ m}^3$   
 $\left[ \frac{1}{2} (0.45 \text{ m} \times 1.45 \text{ m}) (25.36 \text{ m}) \right] - \left[ \frac{1}{4} (1.45 \text{ m})^2 (25.36 \text{ m}) \right] = 17.449 \text{ m}^3$   
**TOTAL = 20.63 m**

60/60/15 450mm RCP CLASS III  
 58.0m

20/1/20 PRECAST CONCRETE CATCH BASIN

1.4m

CHG  
 11/2/00



# CROSS SECTION SHEET

PROJECT NAME: GRAFTON - ROCKINGHAM  
 PROJECT NUMBER: SIP 0126 4(s) C/2  
 FILE NAME: \_\_\_\_\_ PLOT DATE: 07-JUN-2000 13:  
 PROJECT LEADER: \_\_\_\_\_ DRAWN BY: C. GREENWOOD  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 const: g:/common/cadd/m-xsection.dgn SHEET 5 OF 23

126 DRAW