

NOTES:  
 1. ALL INVERT LEVELS TO BE DETERMINED ON SITE.  
 2. ALL LOCATIONS ARE TO BE MARKED AND REFERRED TO THROUGHOUT THE WORK.  
 3. REFER TO DRAWINGS AND SPECIFICATIONS FOR ALL MATERIALS TO BE USED.  
 4. ALL MATERIALS AND ALL WORKMANSHIP TO BE IN ACCORDANCE WITH THE SPECIFICATIONS AND THE STANDARD PRACTICES FOR THE CONSTRUCTION OF SEWERAGE WORK.  
 5. ALL PIPES TO BE FULLY JOINTED AS PER SPECIFICATION AND TO BE FULLY PROTECTED AS PER SPECIFICATION.

LEGEND:  
 LEVEL BELOW GROUND LEVEL  
 FINISH WATER TABLE BELOW GROUND LEVEL  
 WATER STRUCK LEVEL BELOW GROUND LEVEL  
 EXISTING MANHOLE  
 PROPOSED MANHOLE  
 CONSTRUCTION AT LOCATION  
 EXISTING LOCATIONS  
 NEW LOCATIONS  
 SET TRENCH LOCATIONS  
 NEW TRENCH LOCATIONS  
 LONGITUDINAL SECTION / PLAN UNIT USE

PROPOSED INTERCEPTOR SEWER & MANHOLE  
 PROPOSED INTERCEPTOR SEWER  
 PROPOSED INTERCEPTOR MANHOLE  
 CONSTRUCTED BY TECHNICIAN TECHNOLOGY

PROPOSED EXISTING INTERCEPTOR SEWER  
 PROPOSED EXISTING INTERCEPTOR MANHOLE  
 CONSTRUCTED BY TECHNICIAN TECHNOLOGY  
 PROPOSED EXISTING INTERCEPTOR SEWER  
 PROPOSED EXISTING INTERCEPTOR MANHOLE  
 CONSTRUCTED BY TECHNICIAN TECHNOLOGY

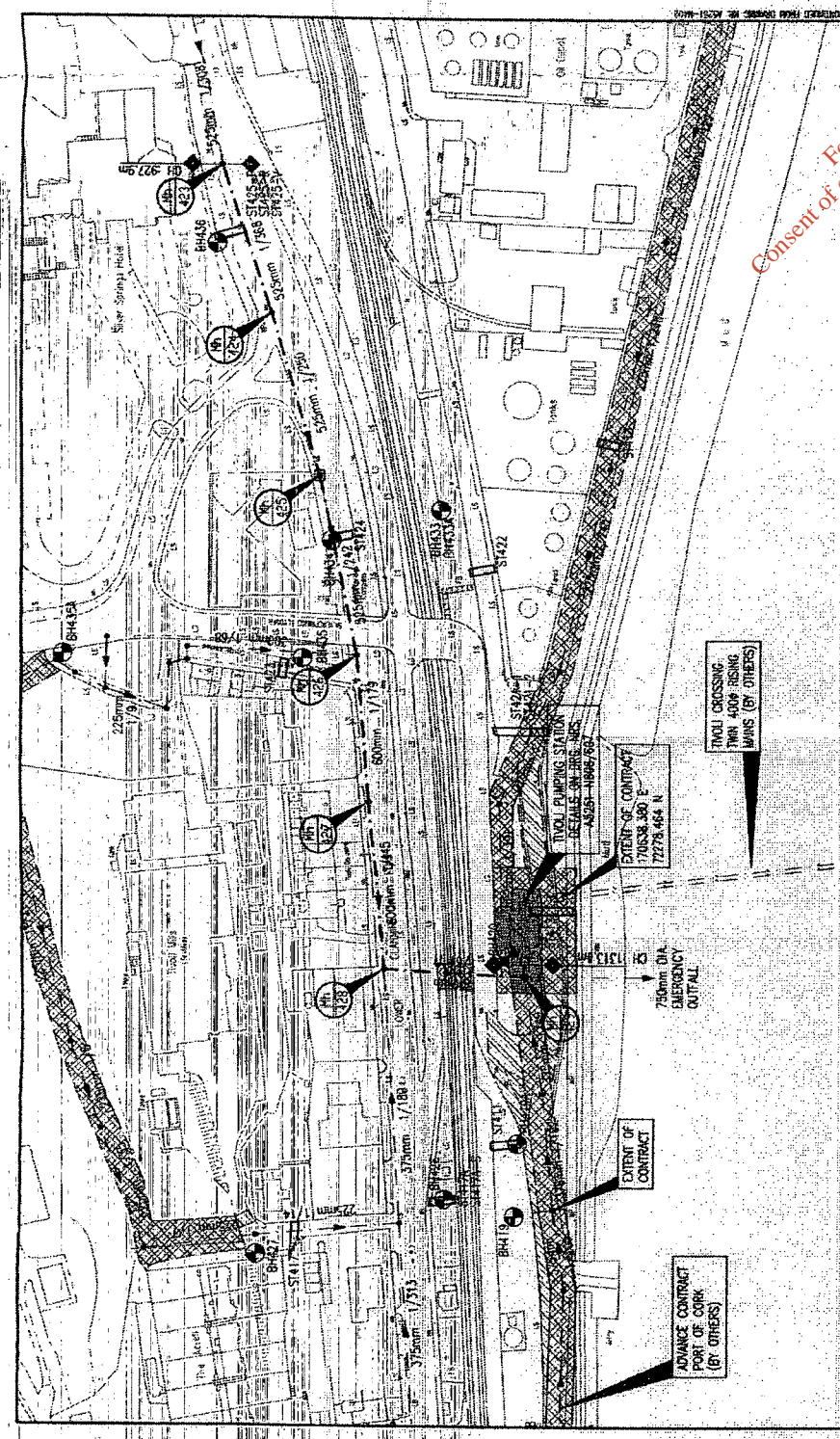
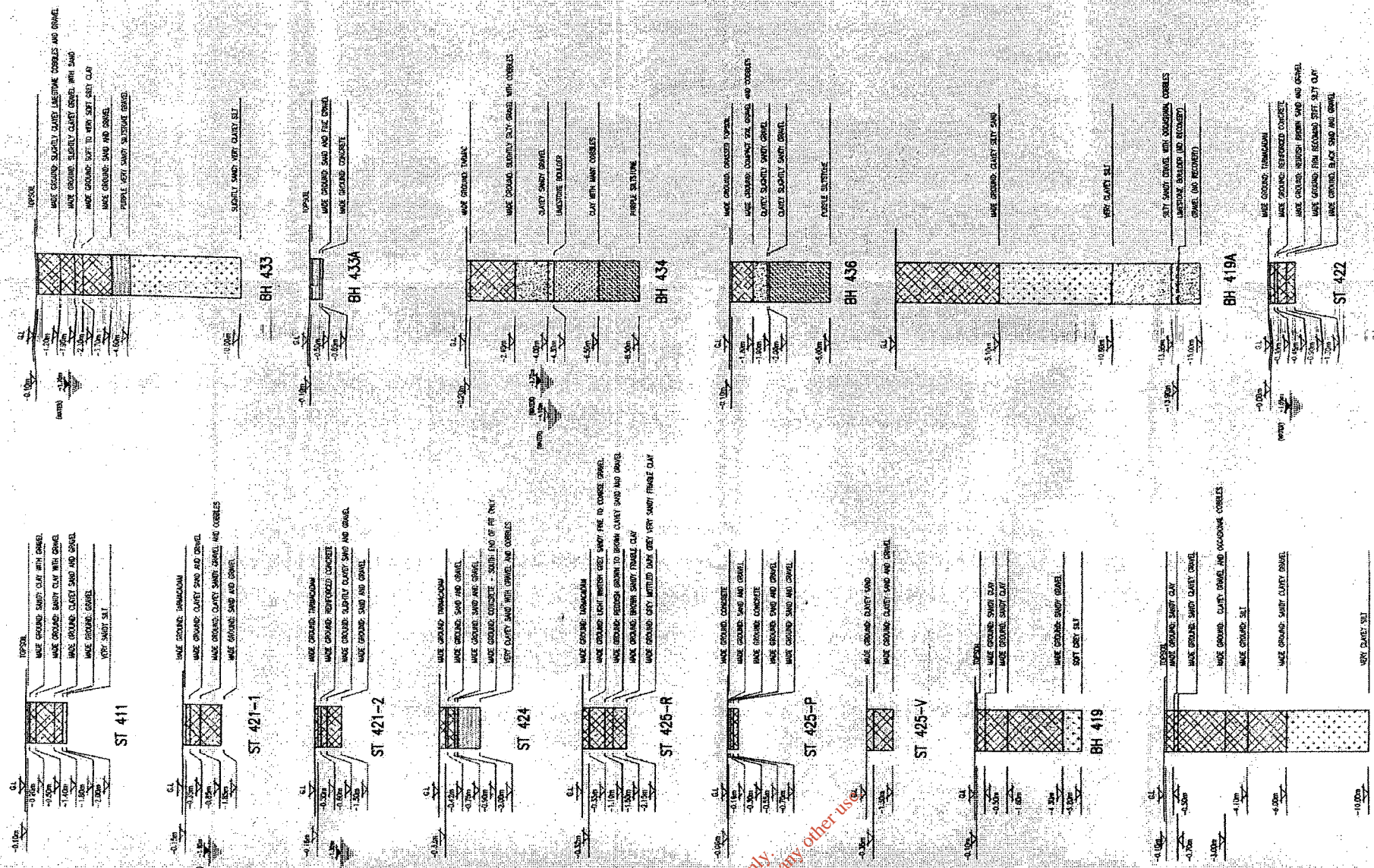
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 PROPOSED EXISTING INTERCEPTOR MANHOLE  
 CONSTRUCTED BY TECHNICIAN TECHNOLOGY  
 PROPOSED EXISTING INTERCEPTOR SEWER  
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 PROPOSED EXISTING INTERCEPTOR SEWER  
 PROPOSED EXISTING INTERCEPTOR MANHOLE  
 CONSTRUCTED BY TECHNICIAN TECHNOLOGY

**Dettit**  
 CONSULTANTS  
 E. O. Paul & Co.  
 1000 Highway 103  
 St. John's, NL  
 Tel: 709-537-4141  
 Fax: 709-537-4142  
 Website: www.dettit.com

**CORK CORPORATION**  
 CORK MAN DRAINAGE  
 INTERCEPTOR SEWER NR. 4

PLAN & LONGITUDINAL SECTION  
 LOWER GLANMIRE ROAD TO TIVOLI  
 PUMPING STATION



LAYOUT PLAN (SCALE 1:1000)

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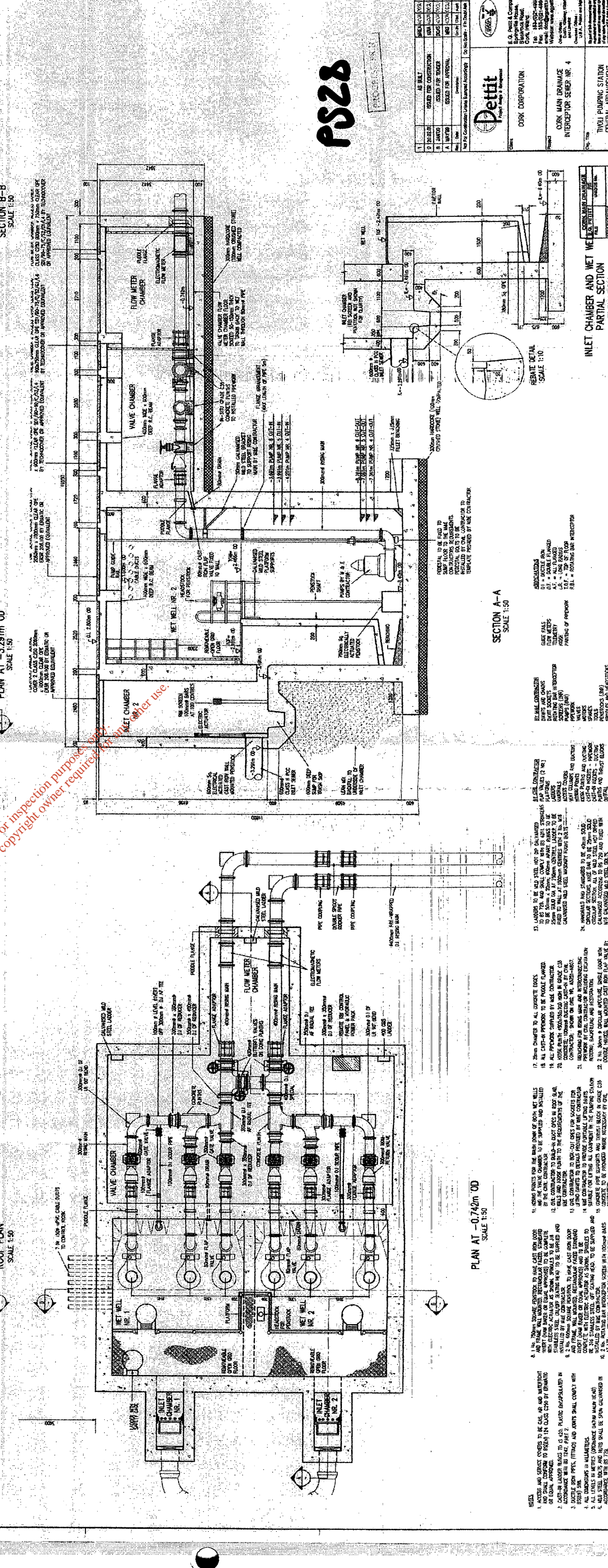
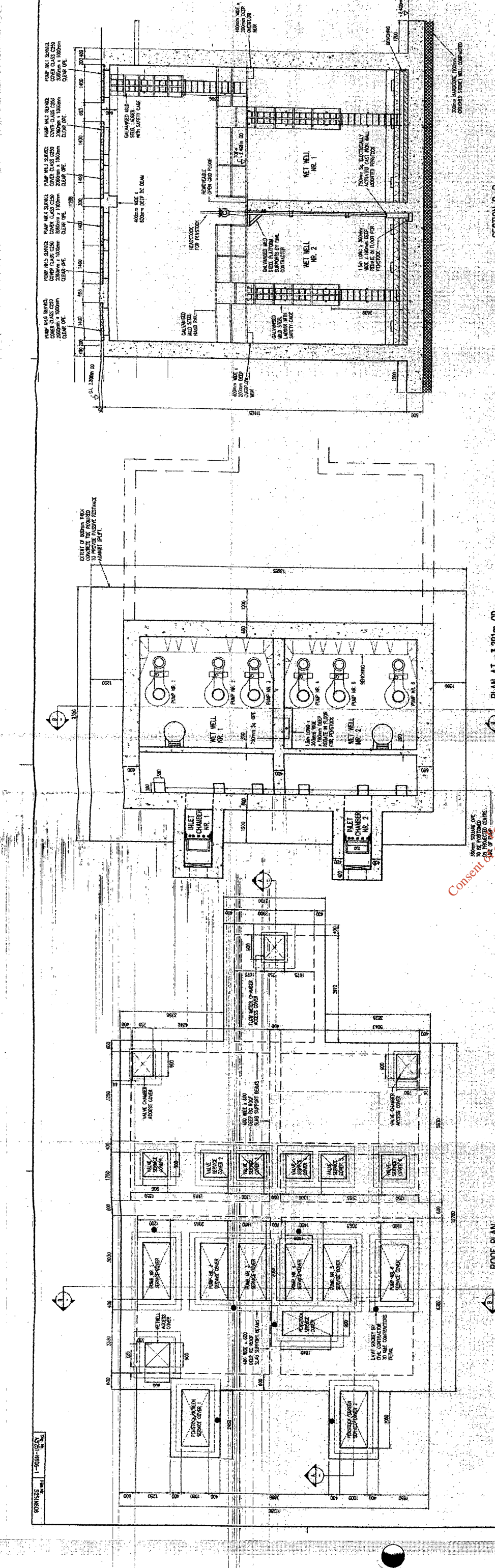
GROUND LEVEL	INVERT LEVEL	PIPE DIAMETER	GRADIENT 1/	CHAINAGE	BEDDING
7.25	7.25	300	1/100	0+00	CLASS 1 P.C.
7.20	7.20	300	1/100	0+10	CLASS 1 P.C.
7.15	7.15	300	1/100	0+20	CLASS 1 P.C.
7.10	7.10	300	1/100	0+30	CLASS 1 P.C.
7.05	7.05	300	1/100	0+40	CLASS 1 P.C.
7.00	7.00	300	1/100	0+50	CLASS 1 P.C.
6.95	6.95	300	1/100	0+60	CLASS 1 P.C.
6.90	6.90	300	1/100	0+70	CLASS 1 P.C.
6.85	6.85	300	1/100	0+80	CLASS 1 P.C.
6.80	6.80	300	1/100	0+90	CLASS 1 P.C.
6.75	6.75	300	1/100	1+00	CLASS 1 P.C.
6.70	6.70	300	1/100	1+10	CLASS 1 P.C.
6.65	6.65	300	1/100	1+20	CLASS 1 P.C.
6.60	6.60	300	1/100	1+30	CLASS 1 P.C.
6.55	6.55	300	1/100	1+40	CLASS 1 P.C.
6.50	6.50	300	1/100	1+50	CLASS 1 P.C.
6.45	6.45	300	1/100	1+60	CLASS 1 P.C.
6.40	6.40	300	1/100	1+70	CLASS 1 P.C.
6.35	6.35	300	1/100	1+80	CLASS 1 P.C.
6.30	6.30	300	1/100	1+90	CLASS 1 P.C.
6.25	6.25	300	1/100	2+00	CLASS 1 P.C.

LONGITUDINAL SECTION LOWER GLANMIRE ROAD TO TIVOLI PUMPING STATION SEWER

**PS28**

DATE: 21/08/2012  
 TIME: 10:00 AM  
 DRAWN: J. DUNN  
 CHECKED: J. DUNN  
 APPROVED: J. DUNN





1	AS BUILT	DATE	14/06/2018
2	ISSUED FOR CONSTRUCTION	DATE	14/06/2018
3	ISSUED FOR TENDER	DATE	14/06/2018
4	ISSUED FOR APPROVAL	DATE	14/06/2018
5	ISSUED FOR CONSTRUCTION	DATE	14/06/2018
6	ISSUED FOR CONSTRUCTION	DATE	14/06/2018

**Pettit**  
CORPORATION

**OSK CORPORATION**

**CORK MAN DRAINAGE INTERCEPTOR SEWER NR. 4**

**TWELVE PURGING STATION GENERAL ARRANGEMENT**

**PS28**

**REINFORCING**

1. ALL REINFORCING SHALL BE AS SHOWN IN THIS DRAWING AND SHALL CONFORM TO BS8862 IN CLASS C28 BY ENVELOPE OF EQUAL APPROVED.

2. CATCH-BASIN REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

3. CATCH-BASIN REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

4. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

5. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

6. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

7. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

8. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

9. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

10. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

**REINFORCING**

1. ALL REINFORCING SHALL BE AS SHOWN IN THIS DRAWING AND SHALL CONFORM TO BS8862 IN CLASS C28 BY ENVELOPE OF EQUAL APPROVED.

2. CATCH-BASIN REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

3. CATCH-BASIN REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

4. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

5. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

6. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

7. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

8. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

9. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

10. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

**REINFORCING**

1. ALL REINFORCING SHALL BE AS SHOWN IN THIS DRAWING AND SHALL CONFORM TO BS8862 IN CLASS C28 BY ENVELOPE OF EQUAL APPROVED.

2. CATCH-BASIN REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

3. CATCH-BASIN REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

4. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

5. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

6. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

7. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

8. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

9. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

10. ALL REINFORCING TO BE 100% REINFORCED WITH 100% REINFORCING.

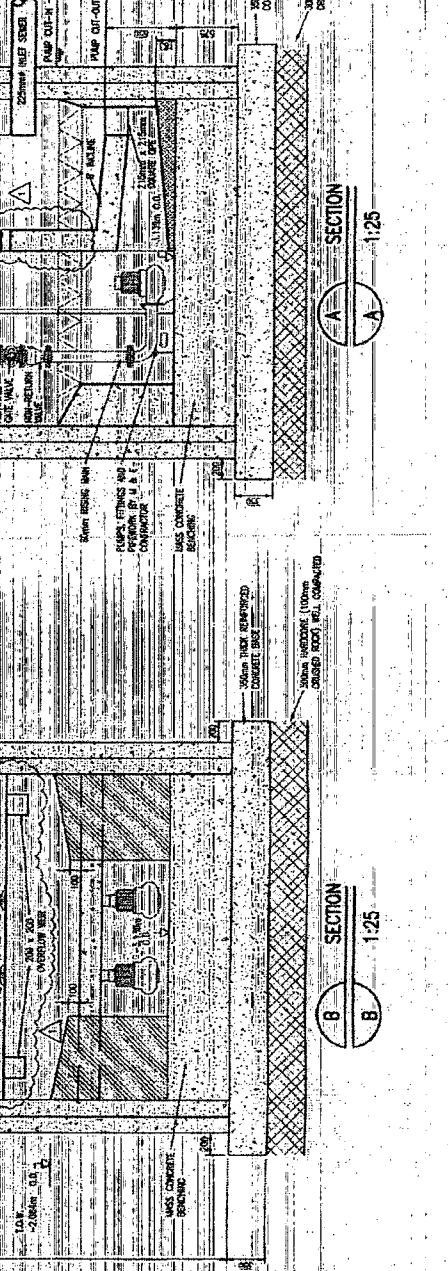
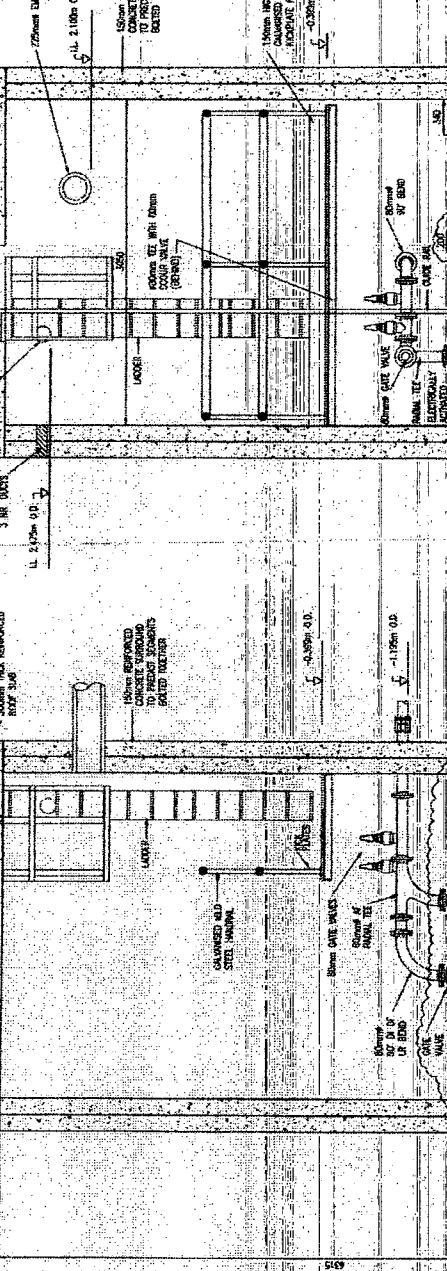
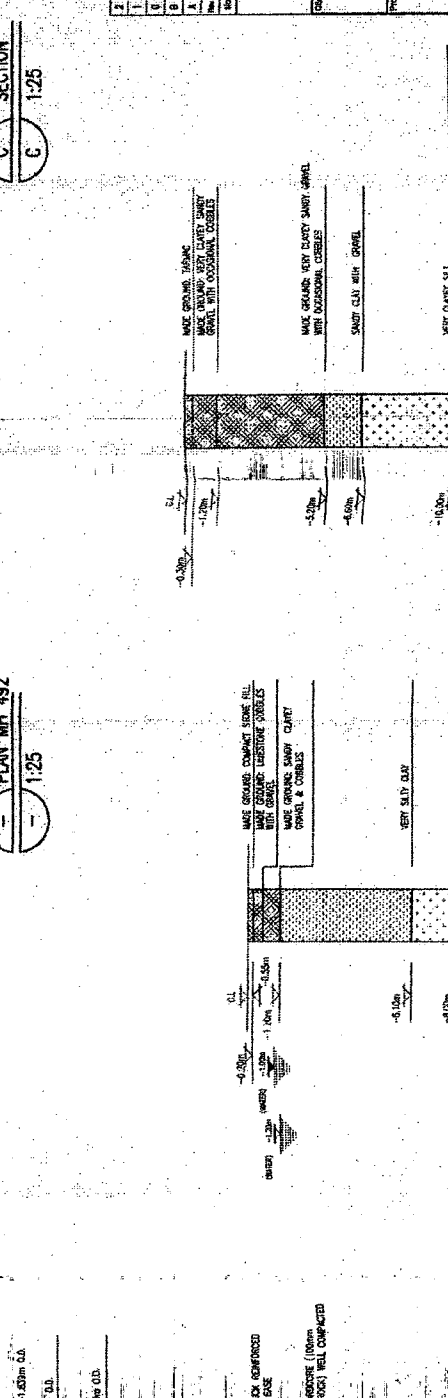
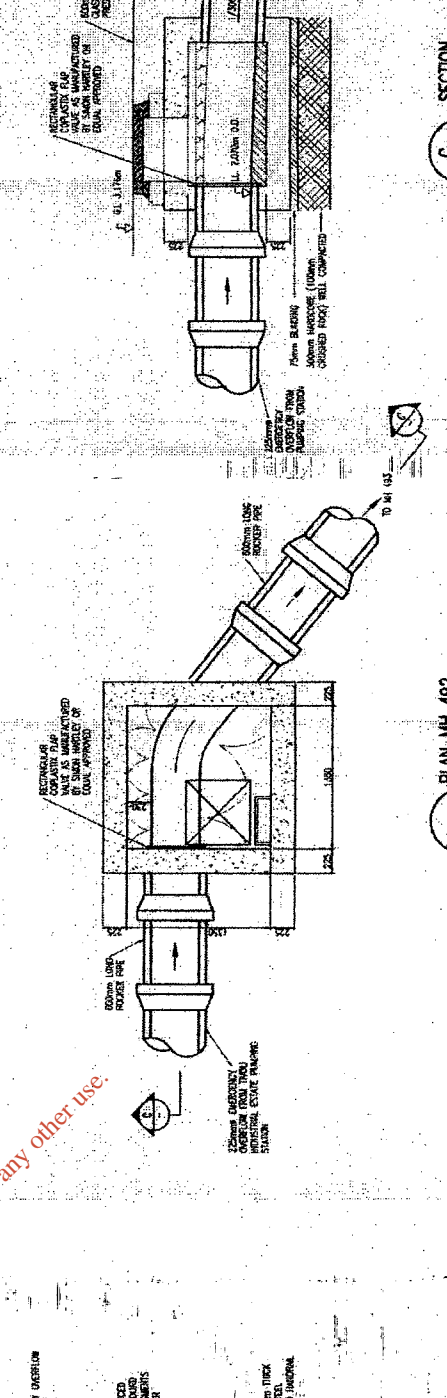
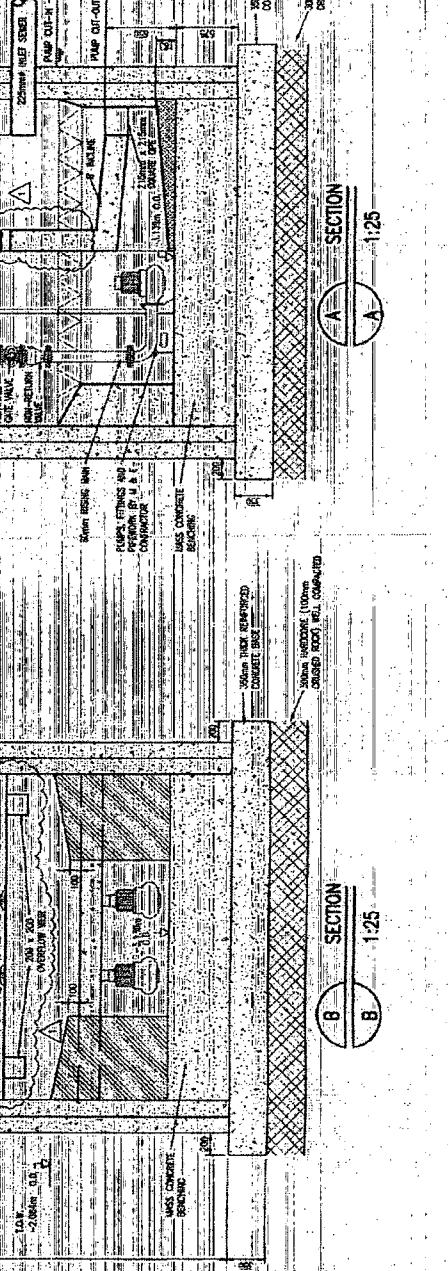
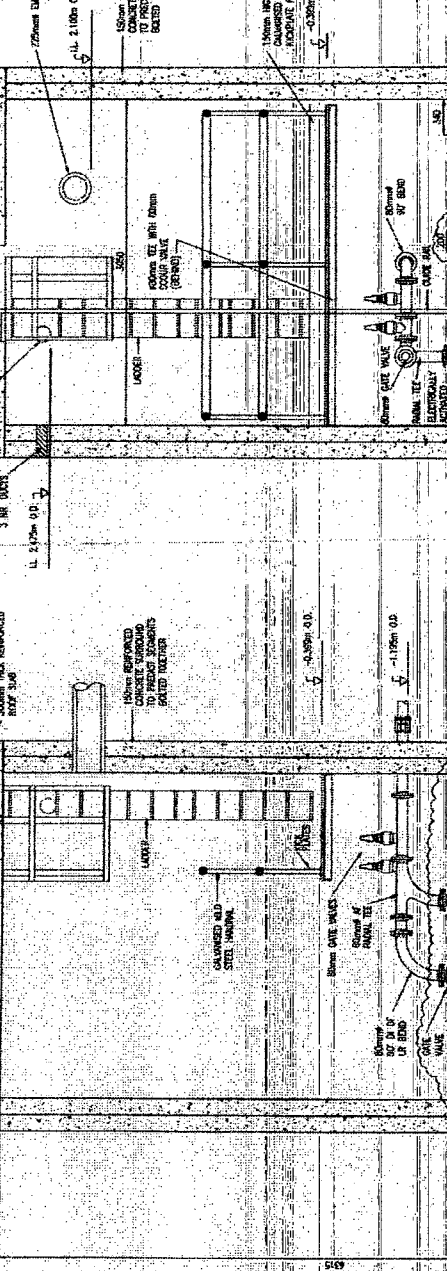
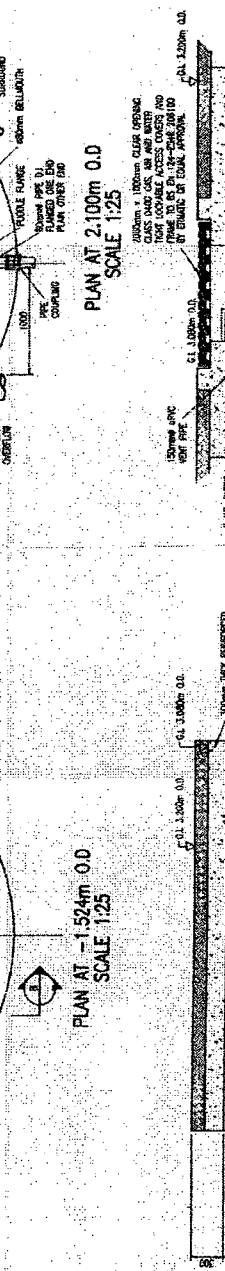
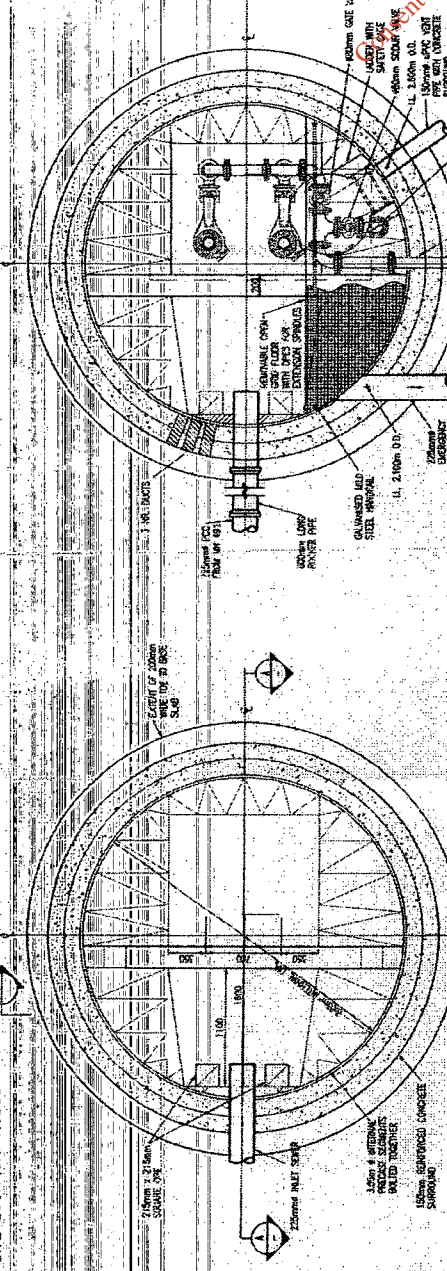
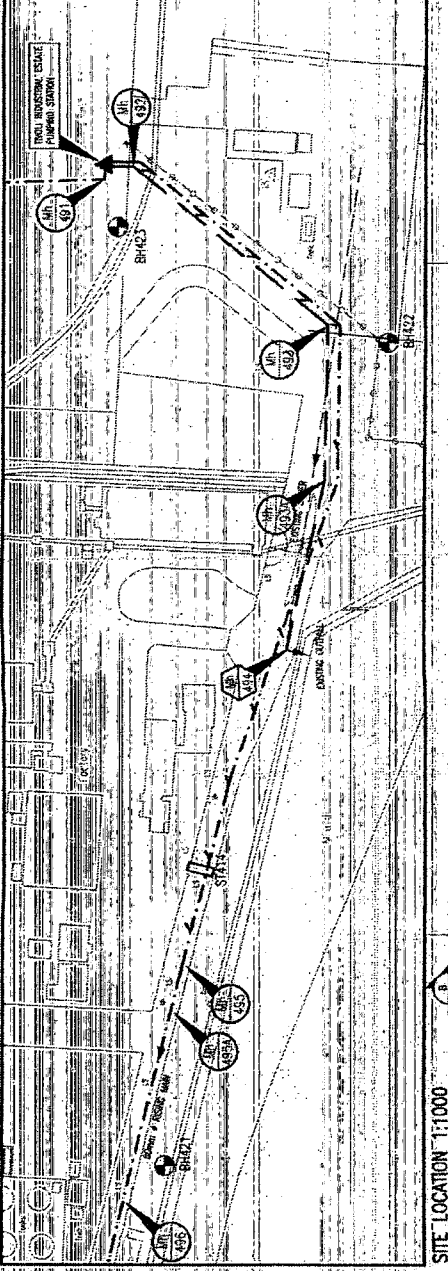
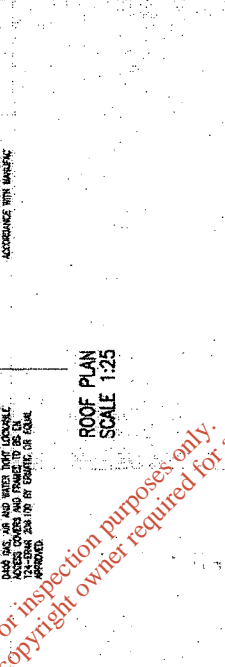
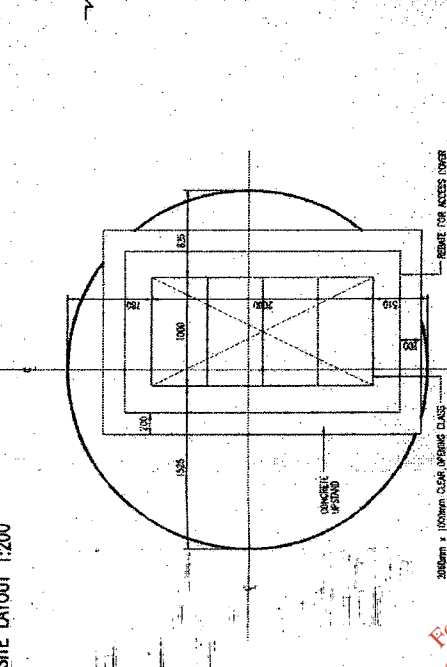
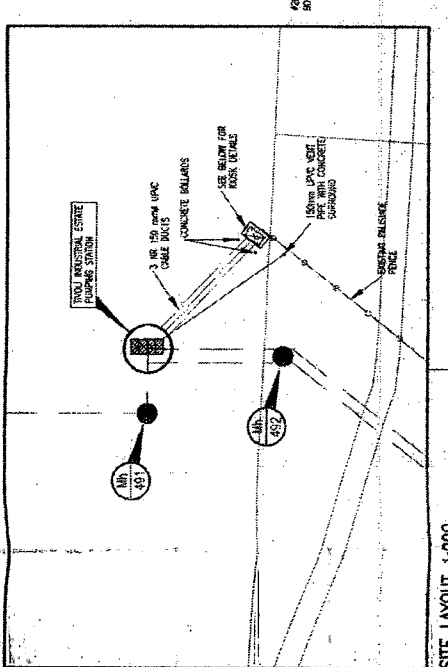
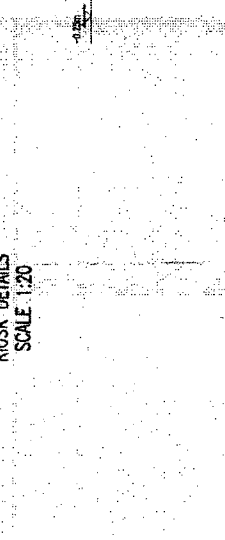
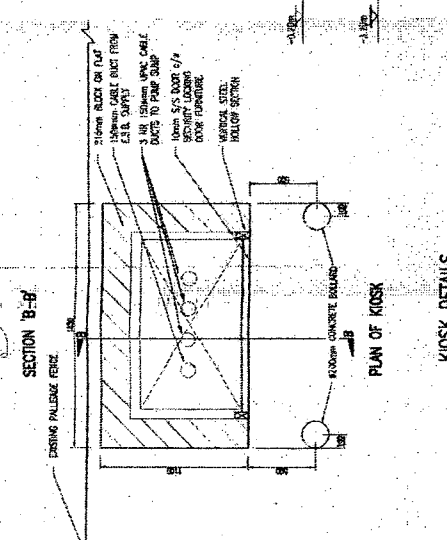
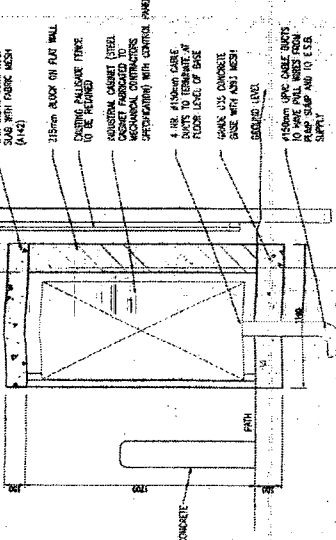








- NOTE:**
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODE (IBC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 909.
  2. THE STRUCTURE SHALL BE DESIGNED TO RESIST WIND LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  3. THE STRUCTURE SHALL BE DESIGNED TO RESIST SEISMIC LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  4. THE STRUCTURE SHALL BE DESIGNED TO RESIST OVERSIGHT LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  5. THE STRUCTURE SHALL BE DESIGNED TO RESIST COLLISION LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  6. THE STRUCTURE SHALL BE DESIGNED TO RESIST IMPACT LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  7. THE STRUCTURE SHALL BE DESIGNED TO RESIST THERMAL LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  8. THE STRUCTURE SHALL BE DESIGNED TO RESIST ACoustic LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  9. THE STRUCTURE SHALL BE DESIGNED TO RESIST VIBRATION LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  10. THE STRUCTURE SHALL BE DESIGNED TO RESIST SETTLEMENT LOADS AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  11. THE STRUCTURE SHALL BE DESIGNED TO RESIST CORROSION AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  12. THE STRUCTURE SHALL BE DESIGNED TO RESIST PEST INFESTATION AS SPECIFIED IN THE SPECIFICATIONS FOR THE PROJECT.
  13. ALL MATERIALS SHALL BE OF THE HIGHEST QUALITY AVAILABLE.
  14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.



NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	10/15/10	J. SMITH	M. JONES
2	ISSUED FOR TENDER	10/20/10	J. SMITH	M. JONES
3	ISSUED FOR APPROVAL	11/05/10	J. SMITH	M. JONES

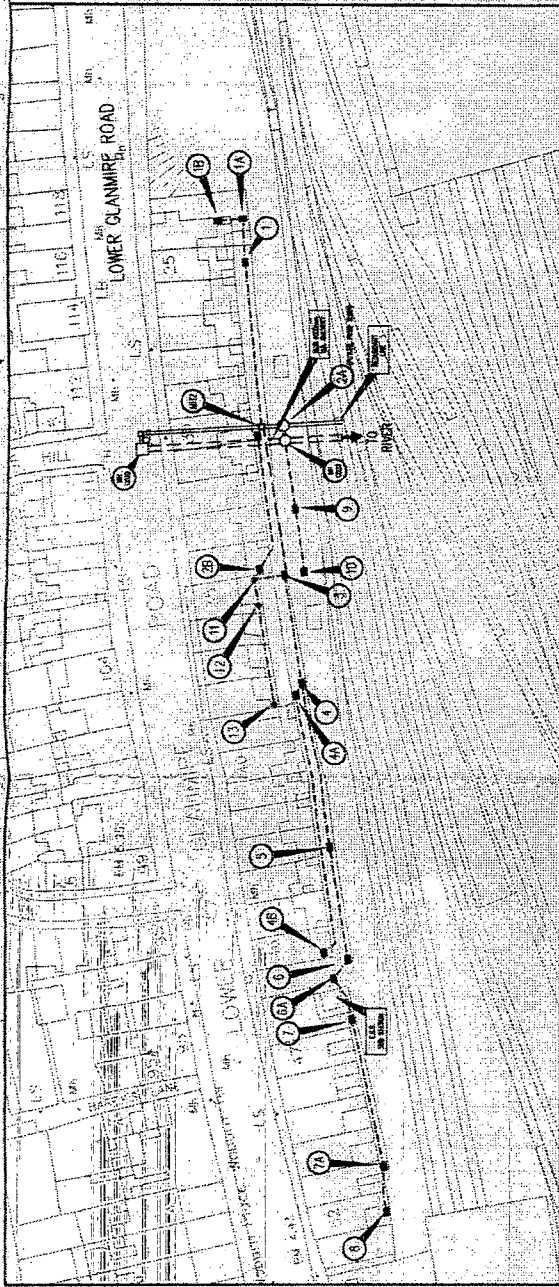
**Pettit**  
CORP CORPORATION  
CORK MAN DRAINAGE INTERCEPTOR SEWER NR. 4

THOU INDUSTRIAL ESTATE PUMPING STATION  
SITE LAYOUT & DETAILS

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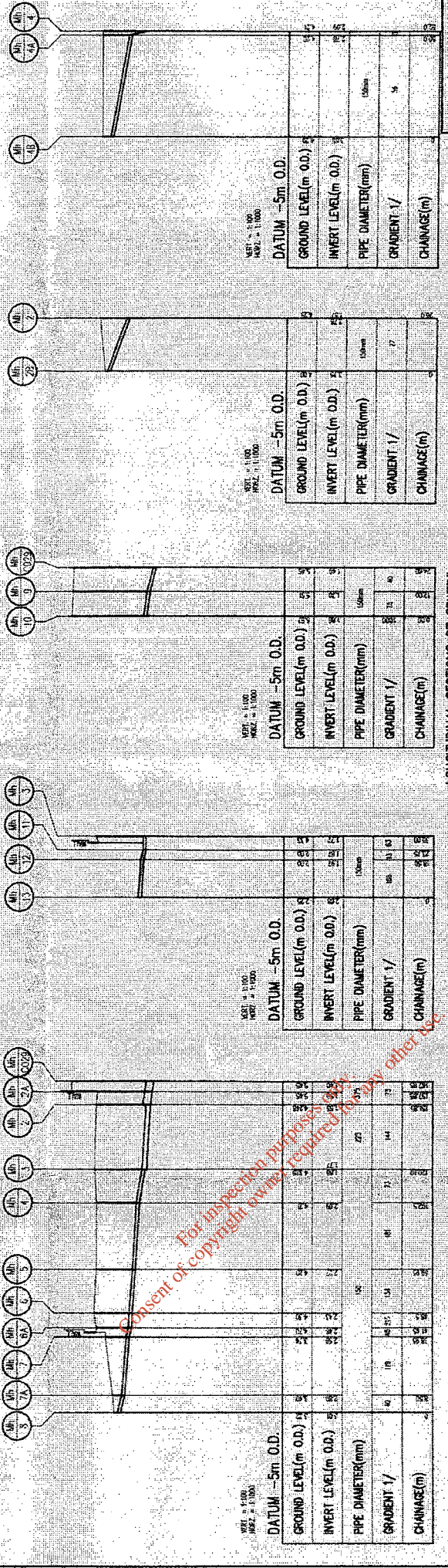
DO NOT SCALE - IF IN DOUBT ASK  
NOT FOR CONSTRUCTION UNLESS STAMPED ACCURATELY



LOCATION PLAN  
SCALE: 1:100  
DATE: 04/03/03

NOTE: 1:100  
SCALE: 1:1000  
Datum 0.000m O.D.

GROUND LEVEL (m O.D.)	5.1
INVERT LEVEL (m O.D.)	5.2
PIPE DIAMETER (mm)	225
GRADIENT 1/	8
CHAINAGE (m)	88.2



LONGITUDINAL SECTIONS OF SEWERS

NOTE: 1:100  
SCALE: 1:1000

DATUM	-5m O.D.
GROUND LEVEL (m O.D.)	5.1
INVERT LEVEL (m O.D.)	5.2
PIPE DIAMETER (mm)	225
GRADIENT 1/	8
CHAINAGE (m)	88.2

NOTE: 1:100  
SCALE: 1:1000

DATUM	-5m O.D.
GROUND LEVEL (m O.D.)	5.1
INVERT LEVEL (m O.D.)	5.2
PIPE DIAMETER (mm)	225
GRADIENT 1/	8
CHAINAGE (m)	88.2

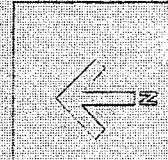
NOTE: 1:100  
SCALE: 1:1000

DATUM	-5m O.D.
GROUND LEVEL (m O.D.)	5.1
INVERT LEVEL (m O.D.)	5.2
PIPE DIAMETER (mm)	225
GRADIENT 1/	8
CHAINAGE (m)	88.2

NOTE: 1:100  
SCALE: 1:1000

DATUM	-5m O.D.
GROUND LEVEL (m O.D.)	5.1
INVERT LEVEL (m O.D.)	5.2
PIPE DIAMETER (mm)	225
GRADIENT 1/	8
CHAINAGE (m)	88.2

REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APPROVED BY	CLIENT APT.
0		AS BUILT				
1		REVISION				



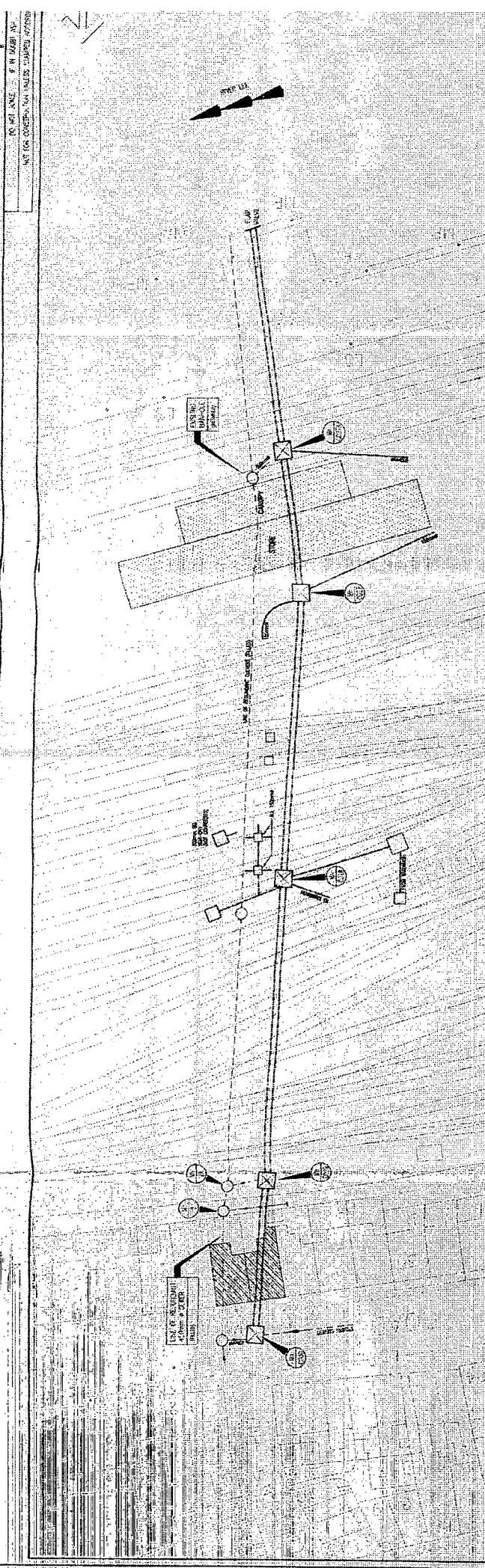
**E. G. Pettit & Company**  
CONSULTANTS IN CIVIL ENGINEERING, SURVEYING, ARCHITECTURE & DESIGN

PROJECT: SEWERS AT HOUSES NUMBERS 24, 10, 32 LOWER GLANMIRE ROAD  
CLIENT: CORK CORPORATION  
PHASE: 20 MAIN DRAINAGE SCHEME  
REMEDIAL WORKS TO CITY COLLETS  
PHASE 20 MAINWAY VARD

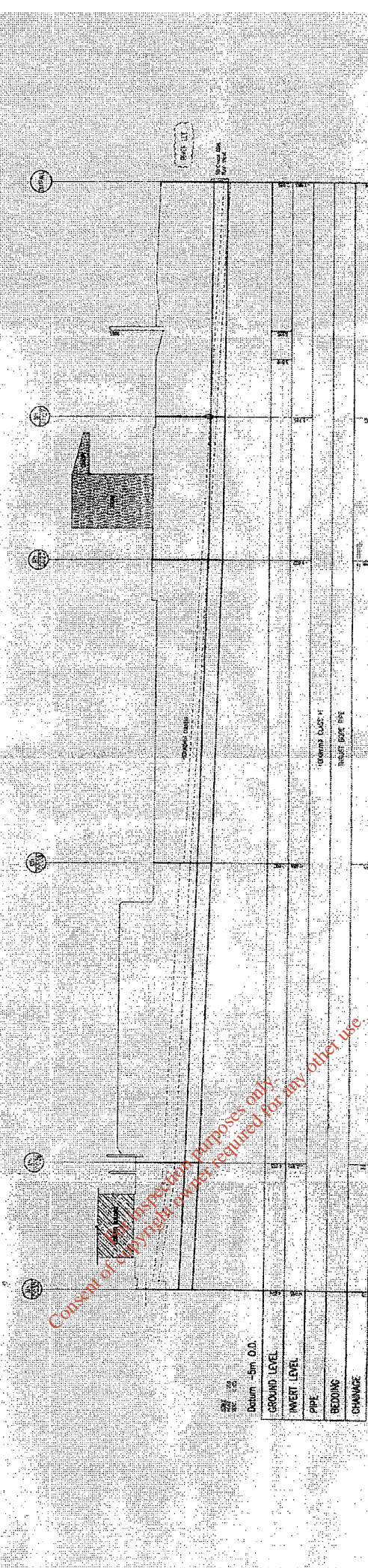
SCALE: 1:500  
DATE: 04/03/03

AS BUILT





LAYOUT PLAN OF RAILWAY YARD



LONGITUDINAL SECTION OF RAILWAY YARD

Scale: 1" = 20'  
 Datum - 5m D.O.  
 GROUND LEVEL  
 INVERT LEVEL  
 PIPE  
 BEDDING  
 CHANNEL

Consent of copyright holder required for any other use.

AS BUILT

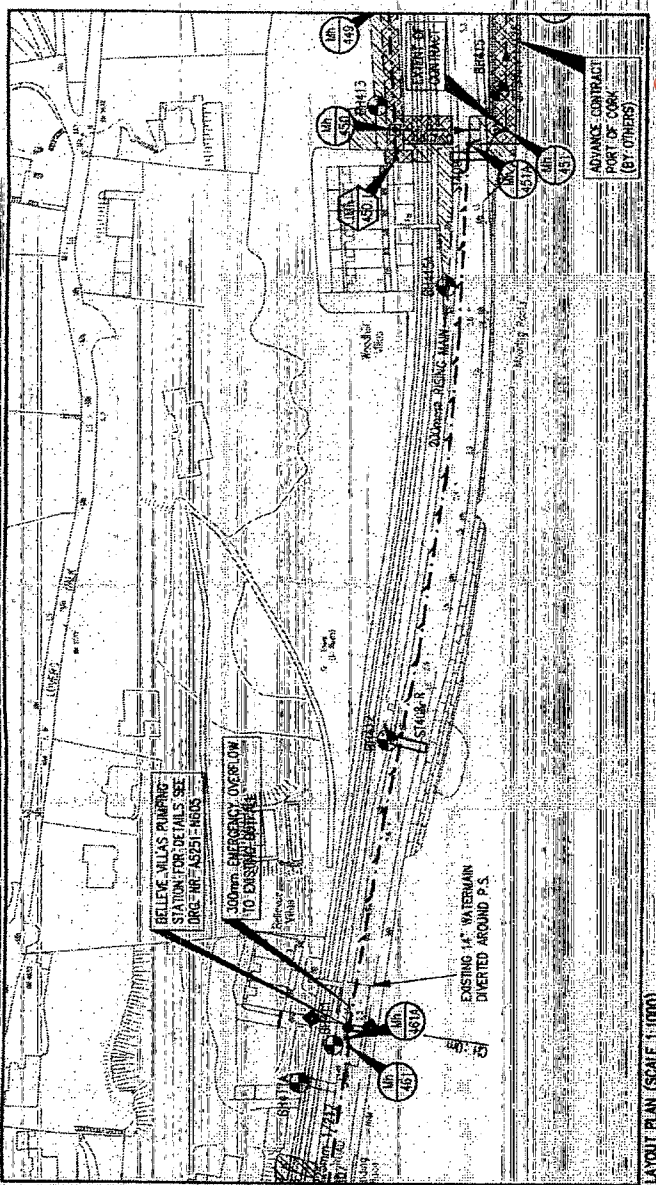
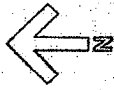
K. G. Pettit & Company  
 1000 W. 10th St.  
 S.W. Calgary, Alberta  
 T2P 1K1  
 TEL: (403) 243-1111  
 FAX: (403) 243-1112  
 E-MAIL: kgp@kpettit.com  
 PROJECT NO. 100000000  
 DRAWING NO. 100000000  
 SHEET NO. 100000000  
 DATE: 10/10/00

DATE	10/10/00
BY	KGP
CHECKED	KGP
APPROVED	KGP
SCALE	1" = 20'
PROJECT NO.	100000000
DRAWING NO.	100000000
SHEET NO.	100000000
DATE	10/10/00



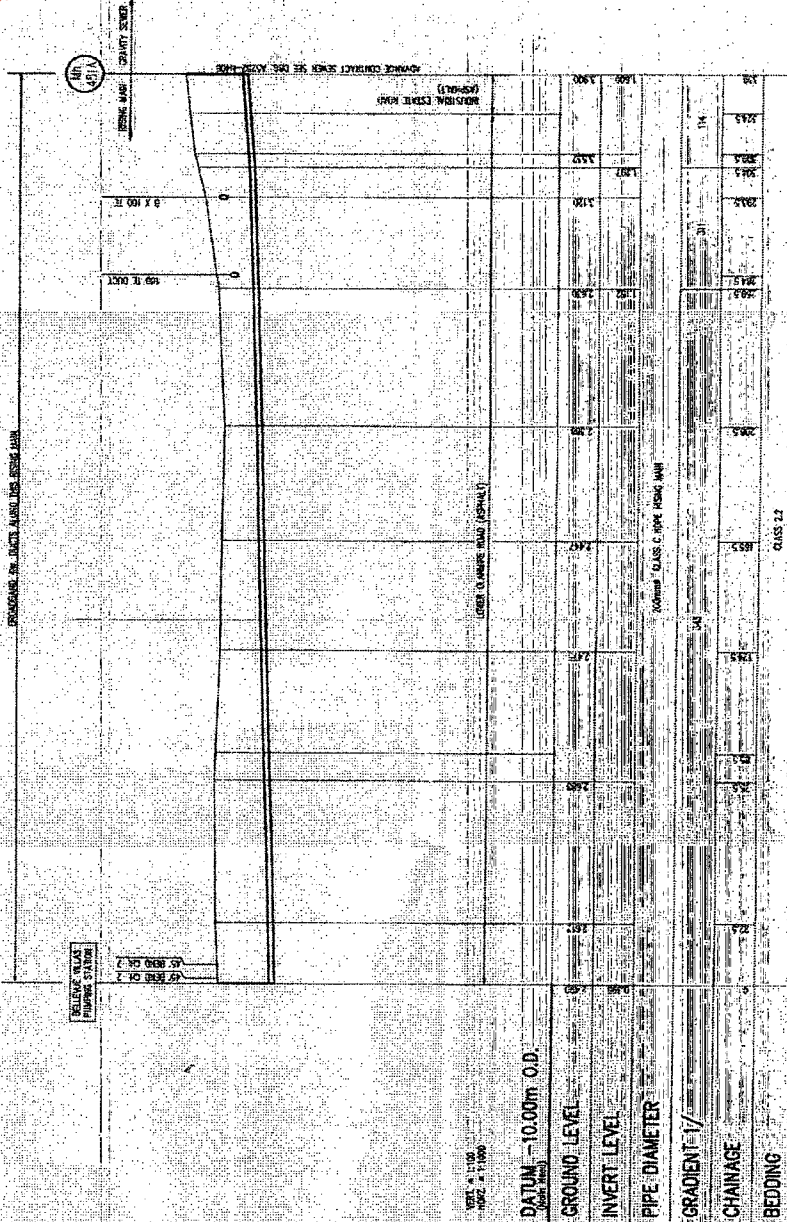






LAYOUT PLAN (SCALE 1:1000)

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DATUM -10.00m O.D.

STATION	GROUND LEVEL	INVERT LEVEL	PIPE DIAMETER	GRADIENT	CHAINAGE	BEDDING
2+00	11.35	10.50	150	0.45	0	CLASS 2
2+05	11.38	10.50	150	0.45	5	CLASS 2
2+10	11.40	10.50	150	0.45	10	CLASS 2
2+15	11.42	10.50	150	0.45	15	CLASS 2
2+20	11.45	10.50	150	0.45	20	CLASS 2
2+25	11.48	10.50	150	0.45	25	CLASS 2
2+30	11.50	10.50	150	0.45	30	CLASS 2
2+35	11.52	10.50	150	0.45	35	CLASS 2
2+40	11.55	10.50	150	0.45	40	CLASS 2
2+45	11.58	10.50	150	0.45	45	CLASS 2
2+50	11.60	10.50	150	0.45	50	CLASS 2

LONGITUDINAL SECTION OF RISING MAIN FROM BELLEVE PUMPING STATION TO HEADER MANHOLE NEAR WOODHILL - MULLAS

- NOTES
1. ALL SHEET ELEVATIONS ARE UNLESS OTHERWISE STATED TO BE IN METERS.
  2. ALL LEVELS ARE TO HULL HEAD (H.C.), UNLESS TO CONTRARY INDICATED.
  3. REFER TO DRAWING A5251-N410 FOR PLAN VIEW OF PUMPING STATION.
  4. ALL MANHOLES AND BUTTS SHALL BE CONSTRUCTED TO THE PLAN POSITION SHOWN AND SHALL BE CONSTRUCTED TO THE INVERT POSITION SHOWN UNLESS OTHERWISE INDICATED.
  5. ALL MANHOLES SHALL BE CONSTRUCTED TO THE PLAN POSITION SHOWN AND SHALL BE CONSTRUCTED TO THE INVERT POSITION SHOWN UNLESS OTHERWISE INDICATED.
  6. ALL CONCRETE CONSTRUCTION TO BE FULLY REINFORCED AS PER SPECIFICATIONS.
  7. 300mm RISING MAIN & 200mm SEWER SEWER SHALL BE CONSTRUCTED TO THE PLAN POSITION SHOWN AND SHALL BE CONSTRUCTED TO THE INVERT POSITION SHOWN UNLESS OTHERWISE INDICATED.
  8. ALL CONCRETE CONSTRUCTION TO BE FULLY REINFORCED AS PER SPECIFICATIONS.

- LEGEND
- 0.20m LEVEL BELOW DRAINAGE LEVEL
  - 0.10m FINAL WATER USE LEVEL (WATER BOUNDARY)
  - 0.10m WATER STOP LEVEL (WATER BOUNDARY)
  - DIETING MARKER
  - PREPARED MANHOLE
  - CONSTRUCTION BY LOCATION
  - 50MM DIA. MANHOLE
  - 150MM DIA. MANHOLE
  - 200MM DIA. MANHOLE
  - 300MM DIA. MANHOLE
  - 400MM DIA. MANHOLE
  - 600MM DIA. MANHOLE
  - 800MM DIA. MANHOLE
  - 1000MM DIA. MANHOLE
  - 1500MM DIA. MANHOLE
  - 2000MM DIA. MANHOLE
  - CONCRETE
  - ASBESTOS
  - BRICK
  - GLASS BLOCK
  - INSULATION
  - ROOFING
  - PAVING
  - LANDSCAPING
  - GRASS
  - GRAVEL
  - CLAY
  - SAND
  - SLURRY
  - CONCRETE
  - BRICK
  - GLASS BLOCK
  - INSULATION
  - ROOFING
  - PAVING
  - LANDSCAPING
  - GRASS
  - GRAVEL
  - CLAY
  - SAND
  - SLURRY

- PROJECT
- E.G. Petitt & Company  
 Project Engineers  
 255-5011-4800  
 255-5011-4801  
 255-5011-4802  
 255-5011-4803  
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 255-5011-4824  
 255-5011-4825

- CLIENT
- CORK CORPORATION

- DATE
- 15 AUG 2007

- PROJECT
- CORK MAIN DRAINAGE INTERCEPT FOR SEWER 1H4

- LOCATION
- LONGITUDINAL SECTION

- SCALE
- 1:1000

- PROJECT NO.
- 159C-106-A5251-8610

- DRAWING NO.
- A5251-N410

- REVISIONS
- NO. 1: 15 AUG 2007

- DESIGNED BY
- E. G. Petitt

- CHECKED BY
- E. G. Petitt

- APPROVED BY
- E. G. Petitt

- DATE
- 15 AUG 2007

- PROJECT
- CORK MAIN DRAINAGE INTERCEPT FOR SEWER 1H4

- LOCATION
- LONGITUDINAL SECTION

- SCALE
- 1:1000

- PROJECT NO.
- 159C-106-A5251-8610

- DRAWING NO.
- A5251-N410

- REVISIONS
- NO. 1: 15 AUG 2007

- DESIGNED BY
- E. G. Petitt

- CHECKED BY
- E. G. Petitt

- APPROVED BY
- E. G. Petitt

- DATE
- 15 AUG 2007

- PROJECT
- CORK MAIN DRAINAGE INTERCEPT FOR SEWER 1H4

- LOCATION
- LONGITUDINAL SECTION

- SCALE
- 1:1000

- PROJECT NO.
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- DATE
- 15 AUG 2007

- PROJECT
- CORK MAIN DRAINAGE INTERCEPT FOR SEWER 1H4

- LOCATION
- LONGITUDINAL SECTION

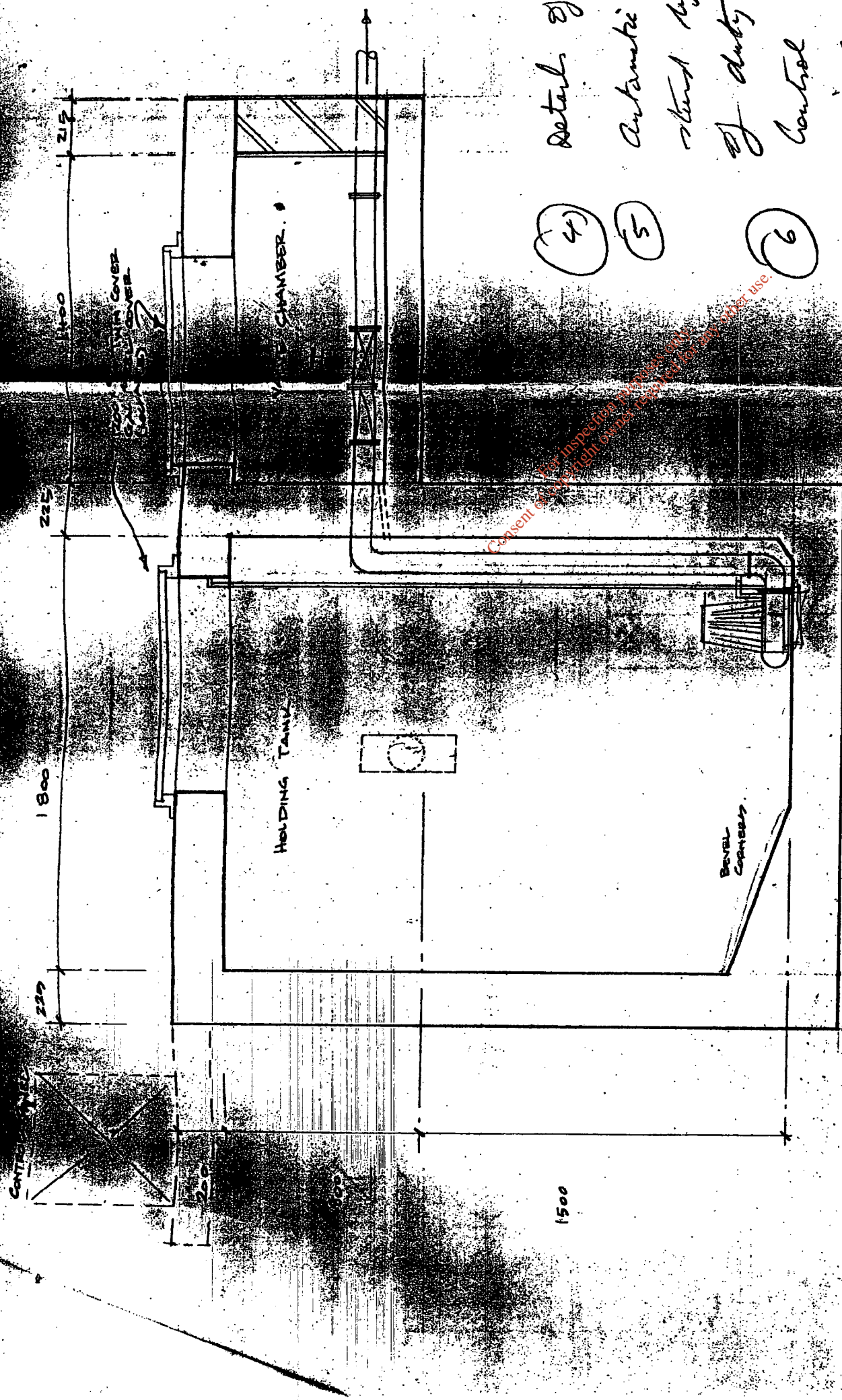
- SCALE
- 1:1000

- PROJECT NO.
- 159C-106-A5251-8610

- DRAWING NO.
- A5251-N410

- REVISIONS
- NO. 1: 15 AUG 2007





SECTION A-A

- (1) Pumps should sit on stool to allow clearance underneath them
- (2) ~~overflow not show~~ overflow pipe from pump house to storm sewer should not sized, should be 9" diameter of pump size, giving retention cut-out and levels for pumps. Also I want to

- (4) Level control with pump is details of probes & floats.
- (5) Automatic change over from duty to stand by pump in the event of breakdown of duty pump must be provided.
- (6) Control panel should be underground in a ~~room~~ CORK CORPORATION Planning Dept. T.P. No.

CORK CORPORATION  
 30 AUG 1988  
 Planning Dept.  
 T.P. No.

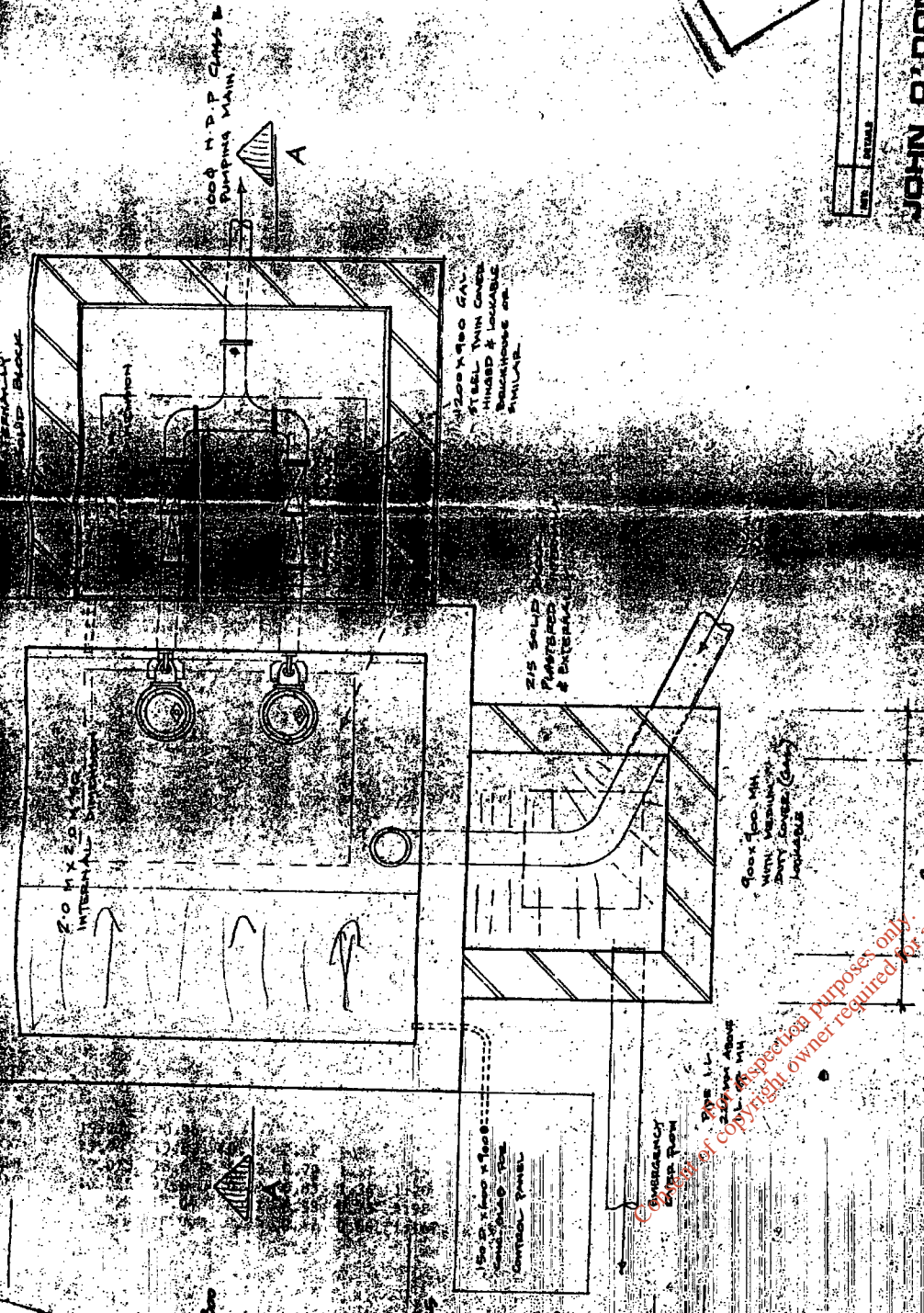
REV.	DETAILS	DATE

**JOHN O'DONOVAN & ASSOCIATES**  
 CONSULTING ENGINEERS, MODEL FARM ROAD, CORK  
 TEL. 021-834111

HOUSING DEVELOPMENT AT CLONSFIELD MODEL FARM ROAD, CORK	
DATE	23/7-24/8/88
BY	J.O.
CHECKED	J.O.
DATE	29/8/88

NO.	1
DATE	29/8/88





1800  
300  
300  
300  
300  
900  
215  
215

200x300 GA STEEL VERN. GRATE HINGED & LOCKABLE SHOWER

215 Solid Partitions & Bulbouts

900x1000 WH. W/INT. VENTILATION DOOR, LOCKABLE

PLAN

CORPORATION  
30 ALLEN BLVD  
Pittsford, N.Y.

JOHN O'DONOVAN & ASSOCIATES  
CONSULTING ENGINEERS, 10001 FARM ROAD, CORK

Planning Development of Concomitance  
Pumps, Piping, Tanks  
Property, Utilities & Building Changes

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**NOTES**

WATER ON POPULATION

REQUIRED

REQUIRED

PUMPING

RATE TO

[HIGH DEN

EXISTING

EXCAVAT

PUMPS AND

BY SPB

APPROX. LE

OPEN DIS

IN-SITU

WALL POW

**TITLE** PUM

**DRAWN** K. J. O

BALLINA

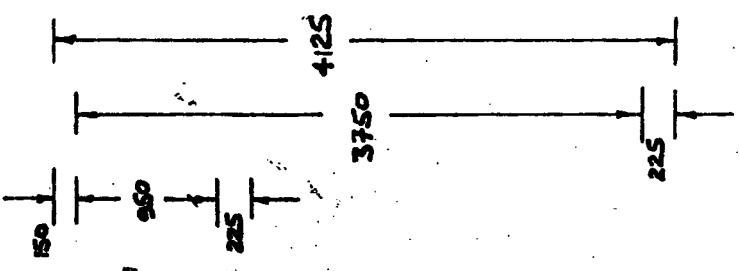
MOUNT

CORK

**DATE** JUNE

**SCALE** 1 in

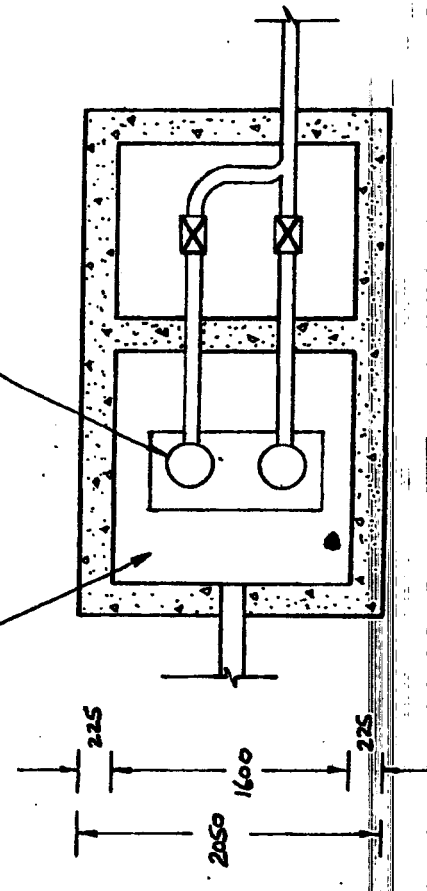
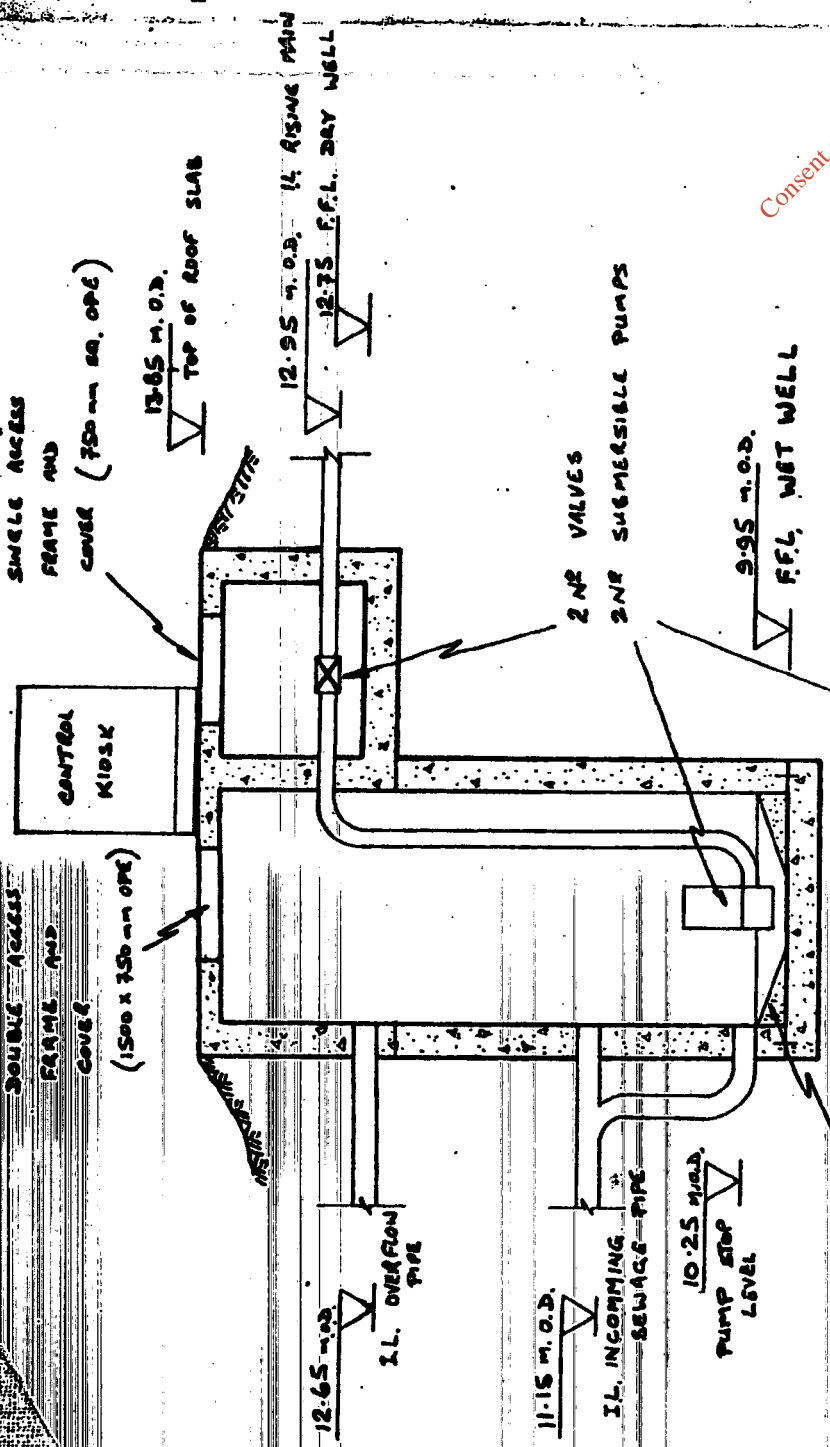
*SUBSTATION PUMP*



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**Vertical Section**

**Horizontal Section**



**NOTES**

NO.	TO BE LEFT BY SUBMITTER	DATE
A	3	9.5
B	2	3.5
C	2	4.5
D	8	5.5

- NOTES TO BUILDING CONTRACTOR:**
- (1) CONCRETE PUMP BASE MUST BE SECURELY BONDED TO FLOOR BY SHORT REINFORCING BARS SET AT 100mm TO 150mm SPACING. ALL ANCHORS MUST BE CAST INTO CONCRETE AND MUST BE PROTECTED BY BUILDING CONTRACTOR AFTER ERECTION BY BUILDING CONTRACTOR ETC. TO BE CARRIED OUT BY THE BUILDING CONTRACTOR.
  - (2) ALL CUTTING AND GROUTING IN OF HOLES, CHASES, ETC. TO BE CARRIED OUT BY THE BUILDING CONTRACTOR.
  - (3) GREAT CARE MUST BE TAKEN WHEN GROUTING IN. NOT TO DISTURB ANY EQUIPMENT.
  - (4) UNSUPPLIED TO BE SUPPLIED HERE OF RECTION.
  - (5) WALLWIN (PUMPS) LTD. ARE IN NO WAY RESPONSIBLE FOR BUILDING DIMENSIONS NOR FOR ANY DISCREPANCIES WHICH THEY SHOULD BE INFORMED AT ONCE IF ANY DISCREPANCIES ARISE.
  - (6) WALLWIN (PUMPS) LTD. CANNOT BE HELD RESPONSIBLE FOR ANY DAMAGE OR EXTRA WORK INVOLVED DUE TO FLOODING OF THE STATION.

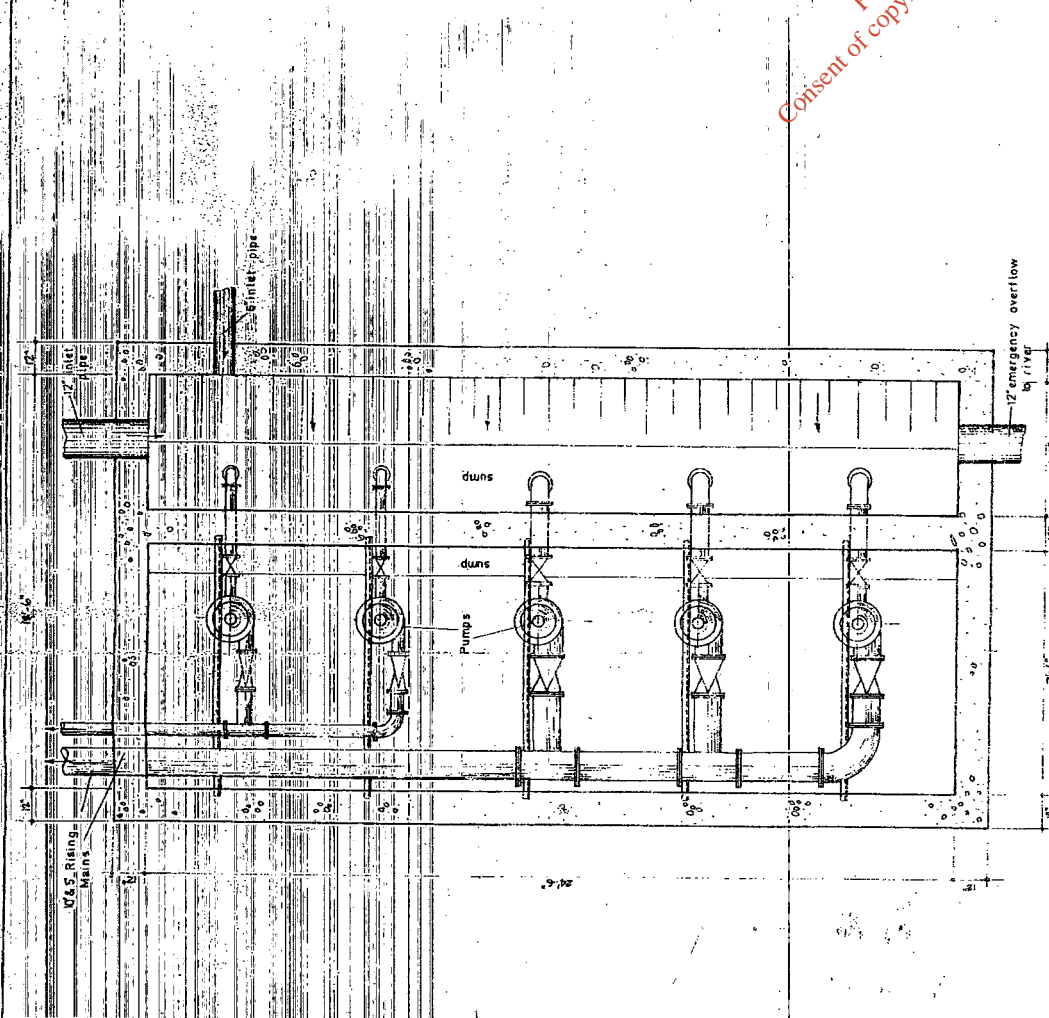
SCALES

WALLWIN PUMPS

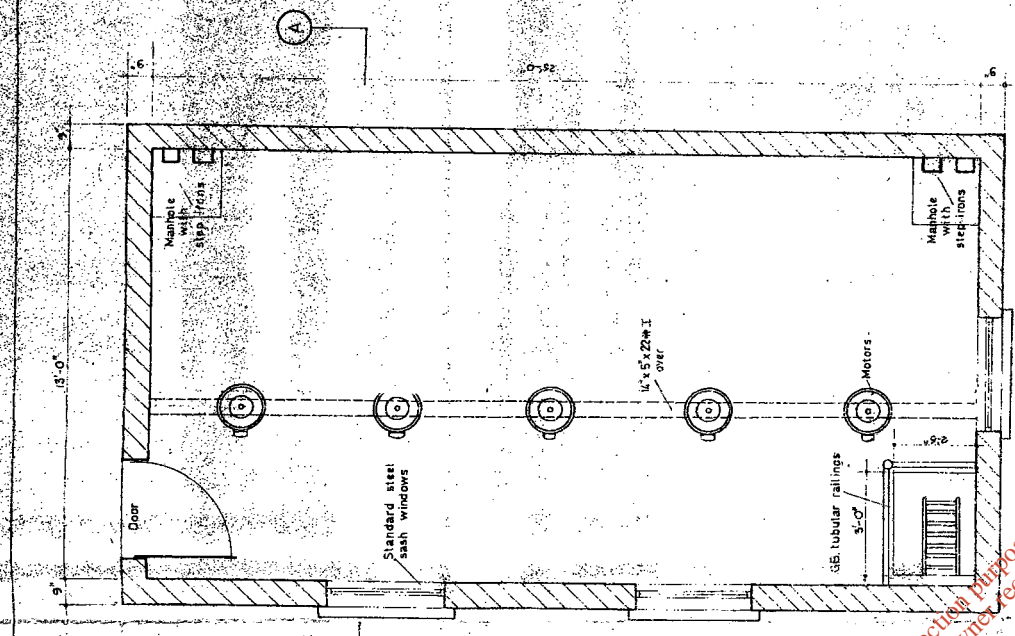
DATE

DR

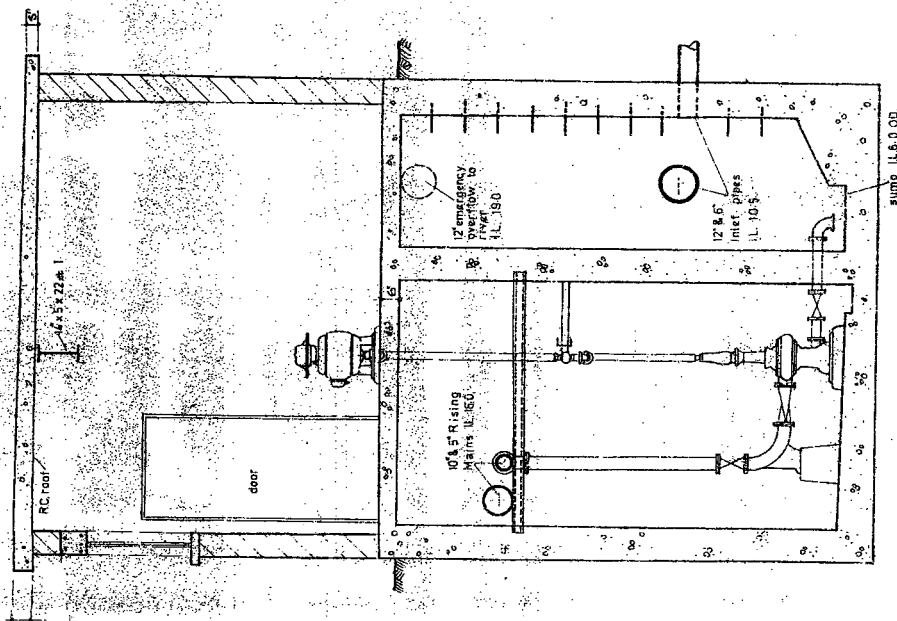




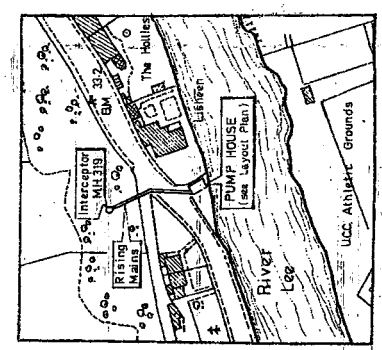
**Plan - Pump Room**  
Scale - 2 feet to 1 inch



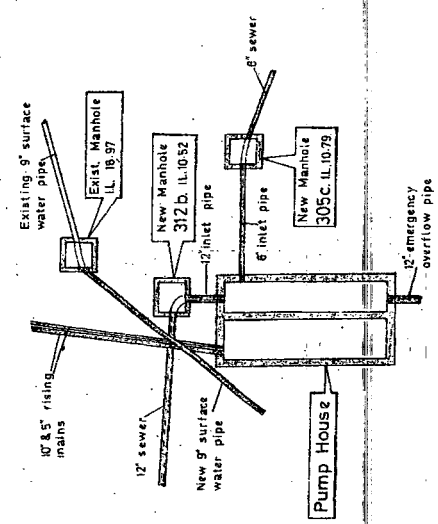
**Plan - Motor Room**  
Scale - 2 feet to 1 inch



**Section A-A**  
Scale - 2 feet to 1 inch



**Location Map**

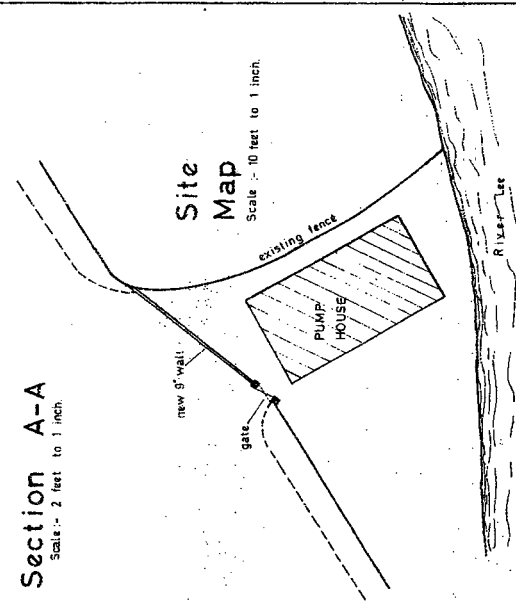


**Layout Plan**  
Scale - 10 feet to 1 inch

See Drawing No. 1035-2

GROUND LEVEL	INVERT LEVEL	PIPE SIZE	GRADE	CHAINAGE
10.50	10.50	12"	0.00	0+00
10.50	10.50	12"	0.00	0+10
10.50	10.50	12"	0.00	0+20
10.50	10.50	12"	0.00	0+30
10.50	10.50	12"	0.00	0+40
10.50	10.50	12"	0.00	0+50
10.50	10.50	12"	0.00	0+60
10.50	10.50	12"	0.00	0+70
10.50	10.50	12"	0.00	0+80
10.50	10.50	12"	0.00	0+90
10.50	10.50	12"	0.00	1+00
10.50	10.50	12"	0.00	1+10
10.50	10.50	12"	0.00	1+20
10.50	10.50	12"	0.00	1+30
10.50	10.50	12"	0.00	1+40
10.50	10.50	12"	0.00	1+50
10.50	10.50	12"	0.00	1+60
10.50	10.50	12"	0.00	1+70
10.50	10.50	12"	0.00	1+80
10.50	10.50	12"	0.00	1+90
10.50	10.50	12"	0.00	2+00
10.50	10.50	12"	0.00	2+10
10.50	10.50	12"	0.00	2+20
10.50	10.50	12"	0.00	2+30
10.50	10.50	12"	0.00	2+40
10.50	10.50	12"	0.00	2+50
10.50	10.50	12"	0.00	2+60
10.50	10.50	12"	0.00	2+70
10.50	10.50	12"	0.00	2+80
10.50	10.50	12"	0.00	2+90
10.50	10.50	12"	0.00	3+00
10.50	10.50	12"	0.00	3+10
10.50	10.50	12"	0.00	3+20
10.50	10.50	12"	0.00	3+30
10.50	10.50	12"	0.00	3+40
10.50	10.50	12"	0.00	3+50
10.50	10.50	12"	0.00	3+60
10.50	10.50	12"	0.00	3+70
10.50	10.50	12"	0.00	3+80
10.50	10.50	12"	0.00	3+90
10.50	10.50	12"	0.00	4+00
10.50	10.50	12"	0.00	4+10
10.50	10.50	12"	0.00	4+20
10.50	10.50	12"	0.00	4+30
10.50	10.50	12"	0.00	4+40
10.50	10.50	12"	0.00	4+50
10.50	10.50	12"	0.00	4+60
10.50	10.50	12"	0.00	4+70
10.50	10.50	12"	0.00	4+80
10.50	10.50	12"	0.00	4+90
10.50	10.50	12"	0.00	5+00
10.50	10.50	12"	0.00	5+10
10.50	10.50	12"	0.00	5+20
10.50	10.50	12"	0.00	5+30
10.50	10.50	12"	0.00	5+40
10.50	10.50	12"	0.00	5+50
10.50	10.50	12"	0.00	5+60
10.50	10.50	12"	0.00	5+70
10.50	10.50	12"	0.00	5+80
10.50	10.50	12"	0.00	5+90
10.50	10.50	12"	0.00	6+00
10.50	10.50	12"	0.00	6+10
10.50	10.50	12"	0.00	6+20
10.50	10.50	12"	0.00	6+30
10.50	10.50	12"	0.00	6+40
10.50	10.50	12"	0.00	6+50
10.50	10.50	12"	0.00	6+60
10.50	10.50	12"	0.00	6+70
10.50	10.50	12"	0.00	6+80
10.50	10.50	12"	0.00	6+90
10.50	10.50	12"	0.00	7+00
10.50	10.50	12"	0.00	7+10
10.50	10.50	12"	0.00	7+20
10.50	10.50	12"	0.00	7+30
10.50	10.50	12"	0.00	7+40
10.50	10.50	12"	0.00	7+50
10.50	10.50	12"	0.00	7+60
10.50	10.50	12"	0.00	7+70
10.50	10.50	12"	0.00	7+80
10.50	10.50	12"	0.00	7+90
10.50	10.50	12"	0.00	8+00
10.50	10.50	12"	0.00	8+10
10.50	10.50	12"	0.00	8+20
10.50	10.50	12"	0.00	8+30
10.50	10.50	12"	0.00	8+40
10.50	10.50	12"	0.00	8+50
10.50	10.50	12"	0.00	8+60
10.50	10.50	12"	0.00	8+70
10.50	10.50	12"	0.00	8+80
10.50	10.50	12"	0.00	8+90
10.50	10.50	12"	0.00	9+00
10.50	10.50	12"	0.00	9+10
10.50	10.50	12"	0.00	9+20
10.50	10.50	12"	0.00	9+30
10.50	10.50	12"	0.00	9+40
10.50	10.50	12"	0.00	9+50
10.50	10.50	12"	0.00	9+60
10.50	10.50	12"	0.00	9+70
10.50	10.50	12"	0.00	9+80
10.50	10.50	12"	0.00	9+90
10.50	10.50	12"	0.00	10+00

**Rising Mains**



**Cork Corporation  
MAIN DRAINAGE SCHEME STAGE 2  
DETAILS OF PUMPHOUSE.**

SEAN MCCARTHY, B.E., AMI(Struct.),  
City Engineer  
City Hall  
CORK.

E.G. PETTIT, B.E., AMI(Struct.),  
Consulting Engineer  
7, South Mall,  
CORK.

DATE	REVISION	No.

Designed by: J.V.C.  
Drawn by: J.D.  
Date: JULY 1966  
Checked by: J.C.

Scale: as shown

Drawing No. 1035-18

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NOTES

REV. 1	DATE: 11/27/77	BY: J. J. HARRIS
REV. 2	DATE: 12/22/80	BY: J. J. HARRIS
REV. 3	DATE:	BY:
REV. 4	DATE:	BY:

**Horgan and Lynch**  
CONSULTING CIVIL & STRUCTURAL ENGINEERS  
Pinewood  
Bishopscourt, Cork  
Phone (01) 4333

124, Island Street  
Dublin 1  
Phone (01) 784337

JOB TITLE: **DONSWORTH COURT**  
**BISHOPSTOWN CORK**

DRG. TITLE: **GENERAL ARRANGMENT**  
**OF SLUMP**

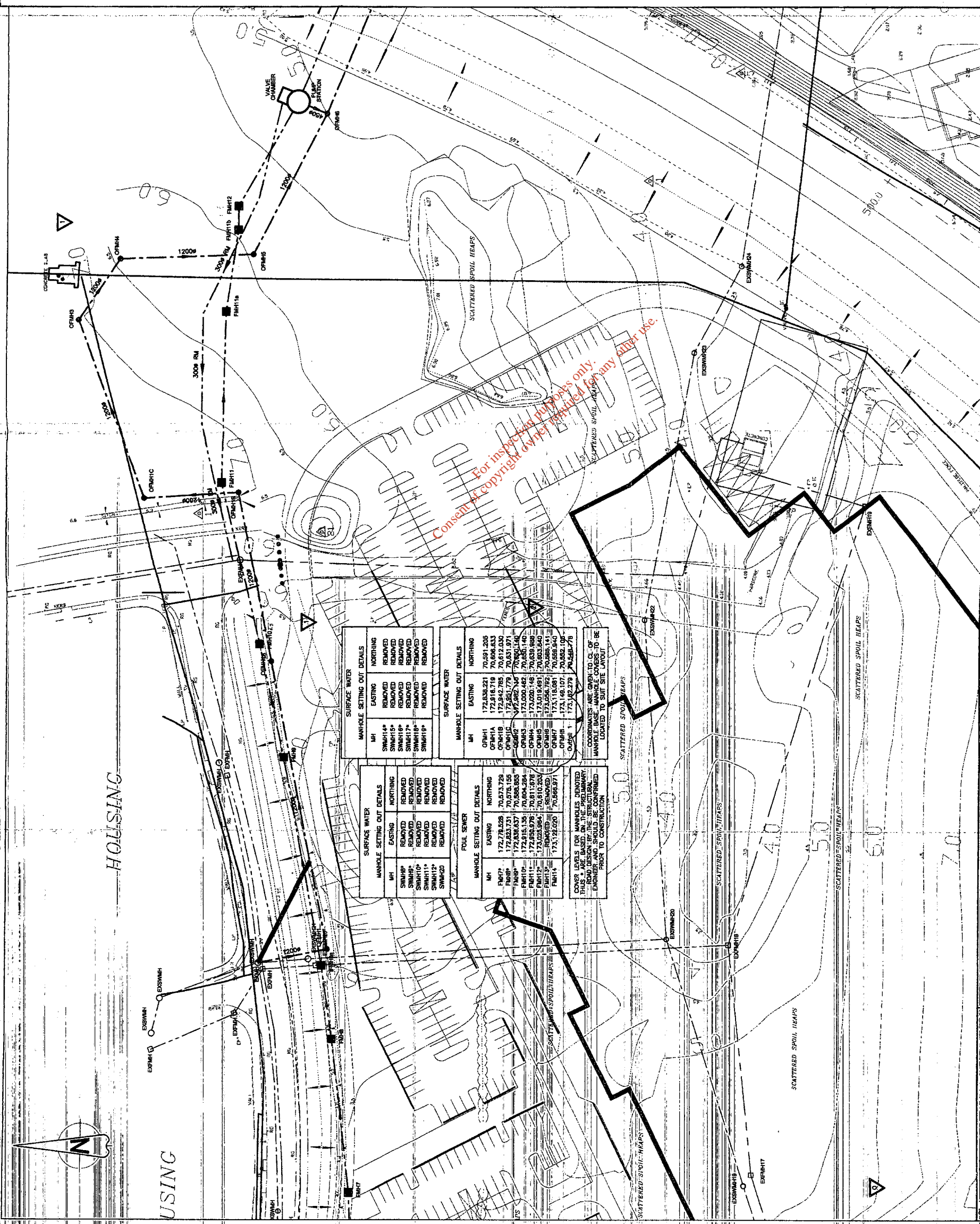
Scale: 1/8" = 1'-0"

Date: APR. 77

Drawn: DMC

Checked: DC/A

DRAWING NUMBER: **DC/A**



SURFACE WATER		SURFACE WATER		SURFACE WATER	
MH	MANHOLE SETTING OUT DETAILS	MH	MANHOLE SETTING OUT DETAILS	MH	MANHOLE SETTING OUT DETAILS
	EASTING		EASTING		EASTING
SWMH14*	70,591.205	OPM11	72,639.221	OPM11	70,591.205
SWMH15*	70,608.633	OPM12	72,618.718	OPM12	70,608.633
SWMH16*	70,617.030	OPM13	72,642.785	OPM13	70,617.030
SWMH17*	70,631.971	OPM14	72,651.779	OPM14	70,631.971
SWMH18*	70,650.148	OPM15	72,662.148	OPM15	70,650.148
SWMH19*	70,661.148	OPM16	72,668.482	OPM16	70,661.148
SWMH20*	70,683.840	OPM17	72,670.491	OPM17	70,683.840
SWMH21*	70,688.141	OPM18	72,686.392	OPM18	70,688.141
SWMH22*	70,692.108	OPM19	72,711.081	OPM19	70,692.108
SWMH23*	70,692.108	OPM20	72,712.279	OPM20	70,692.108
SWMH24*	70,692.108	OPM21	72,712.279	OPM21	70,692.108

SURFACE WATER		SURFACE WATER		SURFACE WATER	
MH	MANHOLE SETTING OUT DETAILS	MH	MANHOLE SETTING OUT DETAILS	MH	MANHOLE SETTING OUT DETAILS
	EASTING		EASTING		EASTING
FMH7	70,573.729	FMH8	72,718.528	FMH9	72,718.528
FMH8	70,578.156	FMH10	72,838.537	FMH11	72,838.537
FMH9	70,588.955	FMH12	72,918.135	FMH13	72,918.135
FMH10	70,604.208	FMH14	73,028.964	FMH15	73,028.964
FMH11	70,610.205	FMH16	73,121.020	FMH17	73,121.020
FMH12	70,610.205	FMH18	73,121.020	FMH19	73,121.020
FMH13	70,610.205	FMH20	73,121.020	FMH21	73,121.020

COORDINATES ARE GIVEN TO O.D. OF MANHOLES AND POINTS LOCATED TO SUIT SITE LAYOUT.

COORDINATES FOR MANHOLES SHOWN ARE BASED ON THE PRELIMINARY ROAD DESIGN BY THE STRUCTURAL ENGINEER AND SHOULD BE CONFIRMED PRIOR TO CONSTRUCTION.

Rev	Description	By	Date	CHK'd/Auth
1	Issue for Construction	J. J. HARRIS	19.02.03	T. O'BRIEN
2	Issue for Approval	J. J. HARRIS	19.02.03	T. O'BRIEN
3	Issue for Construction	J. J. HARRIS	28.11.03	O. B. O'BRIEN
4	Issue for Construction	J. J. HARRIS	14.07.03	O. B. O'BRIEN
5	Issue for Construction	J. J. HARRIS	14.07.03	O. B. O'BRIEN

GENERAL NOTES :-

- DO NOT SCALE. Use only figured dimensions.
- All dimensions are in millimetres unless stated otherwise.
- Levels shown to Mean Head Datum unless stated otherwise.
- Coordinates are to National Grid unless stated otherwise.
- Existing ground levels as shown are based on a topographical survey carried out in June 1988.

DRAWING NOTES :-

- REFER TO DRAWINGS 2038/003 TO 2038/006 FOR LONGITUDINAL SECTIONS OF SERVICES SCHEDULES
- REFER TO SPECIFICATION FOR MANHOLE AND PIPELINE SCHEDULES
- REFER TO STRUCTURAL ENGINEERS DRAWINGS FOR DETAILS OF CONNECTIONS TO SERVICES FROM CARRIAGES AND SHOPPING CENTRE
- REFER TO DRAWING 2038/310 FOR DETAILS OF APPENDIX UNDER THE SOUTH RING ROAD
- REFER TO DRAWING 2038/310 FOR DETAILS OF APPENDIX UNDER THE SOUTH RING ROAD
- REFER TO DRAWING 2038/310 FOR DETAILS OF APPENDIX UNDER THE SOUTH RING ROAD

PROPOSED SURFACE WATER PIPELINE	---
EXISTING SURFACE WATER PIPELINE	---
PROPOSED FOU L SEWER	---
EXISTING FOU L SEWER	---
PROPOSED RINGS MAN	---
EXISTING RINGS MAN	---
PROPOSED ROAD GULLY	---
EXISTING ROAD GULLY	---

**O'Callaghan**  
PROPERTY SERVICES (EST. 1978)



HOUSING DEVELOPMENT  
AT  
BISHOPSTOWN CORK

FOR  
PIERCE F. MOORE ESQ  
DONS WORTH COURT

Plot No.	Area (sq. ft.)	Area (sq. m.)	Volume (cu. ft.)	Volume (cu. m.)
1	4875	447.5	49.35	4.475
2	4875	447.5	49.35	4.475
3	4875	447.5	49.35	4.475
4	4875	447.5	49.35	4.475
5	4875	447.5	49.35	4.475
6	4875	447.5	49.35	4.475
7	4875	447.5	49.35	4.475
8	4875	447.5	49.35	4.475
9	4875	447.5	49.35	4.475
10	4875	447.5	49.35	4.475
11	4875	447.5	49.35	4.475
12	4875	447.5	49.35	4.475

TAKING IN - CHARGE

LEGEND

- city main drainage sewer
- fault sewer
- storm sewer
- rising main
- watermain
- fire hydrants
- sluice valves
- road gullies
- street lights
- contours

roads - 24'-0" wide  
footpaths - 6'-0" wide

area of site = 11.1 acres

scale = 1:500  
date = DECEMBER 1975  
tel no 25522

Jahn J. McCarthy, B. E.,  
Consulting Engineer,  
17 South Mall, Cork

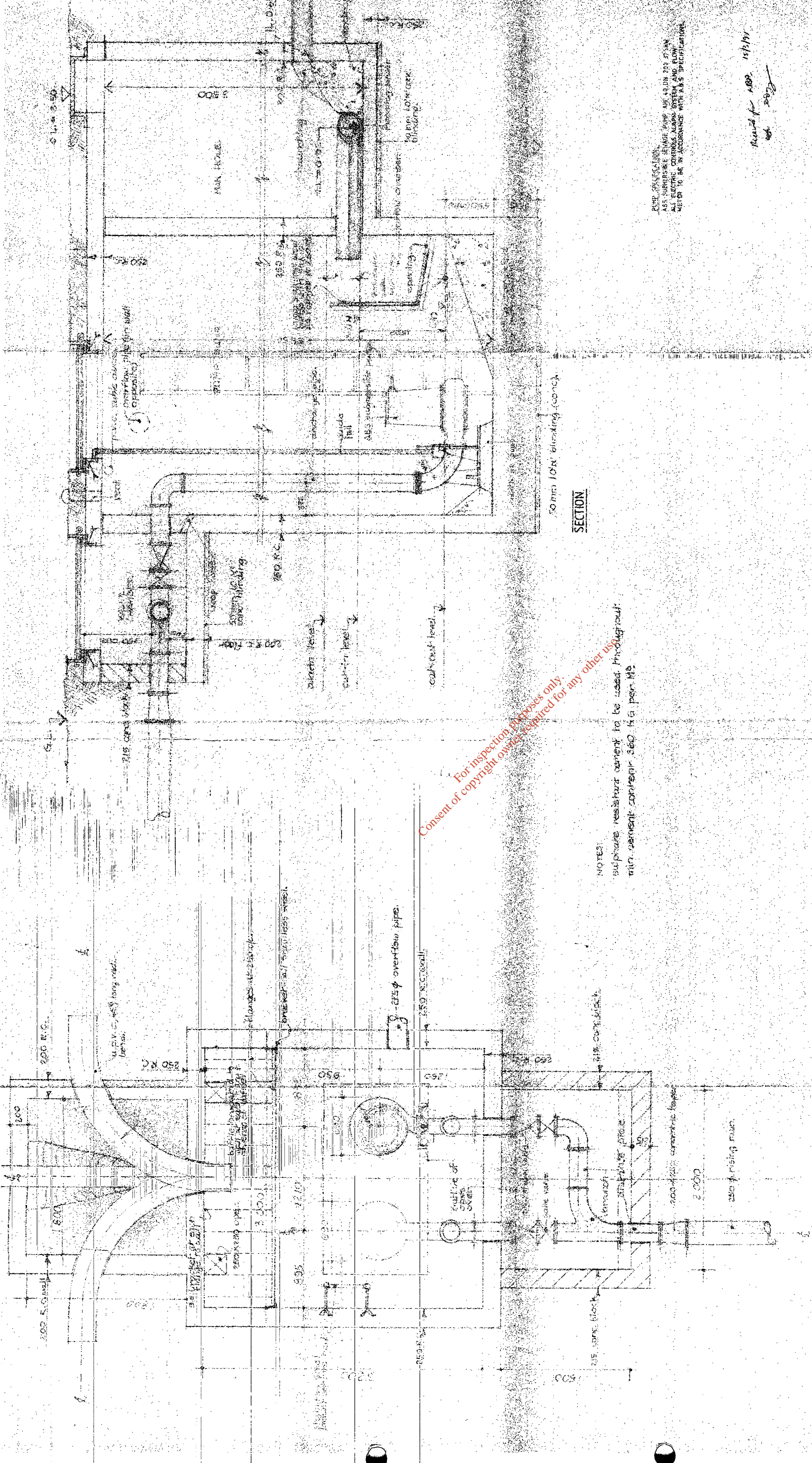
screen walls 9" concrete block dashed both sides 5' 6" high  
on 2' x 12' foundations  
front boundary fences paddock type with 1 1/2" x 4" brick piers  
leaves at rear of houses to be post & wire

BISHOP COURT

WOODBROOK

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the seal of copyright owner required for any other use





**SECTION**


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NOTES:  
 sulphate resistant cement to be used throughout  
 with cement concrete 0.95 to 1.0 per M<sub>20</sub>

**PLAN**

PUMP SPECIFICATION  
 ABS SUBMERSIBLE SEWAGE PUMP 40 L/DN 250 STAIN  
 ALL ELECTRIC CONTROL SYSTEM AND FLOW  
 METER TO BE IN ACCORDANCE WITH A.B.S. SPECIFICATIONS.

Approved for A.B.S. 15/12/197  
 [Signature]

		Job Title <b>DOUGLAS ROAD          DRAINAGE SCHEME.</b>
Particular Building Agency Ltd Dublin 6		Scale 1:20 Date 2012 Design Checked Drawn J.P.C.
Drawing No <b>517/E4</b>		Drawing Date <b>5/17/14</b>