

# CITY of IQALUIT, Nunavut

## Record Drawings IQALUIT WASTEWATER TREATMENT PLANT PHASE 1

### RECORD DRAWINGS Project No. 75360 AUGUST, 2006



A Tyco International Ltd. Company

17203-103rd Avenue  
EDMONTON, ALBERTA  
T5S 1J4 CANADA

Tel. 780-488-6800  
Fax. 780-488-2121  
www.earthtech.ca

LIST of DRAWINGS

DWG.	DRAWING TITLE	REV.	DWG.	DRAWING TITLE	REV.	DWG.	DRAWING TITLE	REV.
	COVER SHEET and LIST OF DRAWINGS							
CNL								
C131	LOCATION PLAN and EXISTING SITE PLAN	2	S142	STRUCTURAL SECTIONS and DETAILS	2	P111	PROCESS LEGENDS, SYMBOLS and NOTES	2
C132	PROPOSED SITE LAYOUT and GRADING PLAN	2	S143	STRUCTURAL SECTIONS and DETAILS	2	P112	PROCESS FLOW DIAGRAM	2
C141	CROSS-SECTIONS and MISCELLANEOUS DETAILS	2	S144	STRUCTURAL SECTIONS and DETAILS	2	P113	PEAK and AVERAGE HYDRAULIC PROFILE	2
C142	ACCESS VAULT PIPING LAYOUT and DETAILS	2	S145	STRUCTURAL SECTIONS and DETAILS	2	P121	PROCESS DEMOLITION	2
C143	ACCESS VAULT TYPICAL CROSS-SECTION	3	S130	STRUCTURAL FOUNDATION PLAN		P131	PROCESS LOWER FLOOR LAYOUT	2
C144	ACCESS VAULT STANDARD DETAILS					P132	PROCESSUPPER FLOOR LAYOUT	2
C145	EXISTING DUMP STATION MODIFICATIONS	2	MECHANICAL			P133	PROCESSLAYOUT DETAILS	2
ARCHITECTURAL		2	M111	MECHANICAL LEGEND	2	P141	PROCESS SECTIONS 1, 2 and 4	2
A131	LOWER LEVEL PLANS and WALL ASSEMBLY	2	M121	MECHANICAL DEMOLITION LOWER LEVEL	2	P142	PROCESS SECTIONS 3, 5 and 6	2
A132	UPPER LEVEL PLANS and WALL ASSEMBLY		M131	LOWER LEVEL MECHANICAL PLAN	2	P151	PROCESS STANDARD DETAILS	2
A141	ELEVATIONS	4	M132	UPPER LEVEL MECHANICAL PLAN	2	P152	PROCESS STANDARD DETAILS	2
A142	SECTIONS	4	M141	MECHANICAL SCHEMATICS	2	P153	PROCESS STANDARD DETAILS	2
A151	DETAILS	4	M142	HEADWORKS SERVICE PIPING DETAILS	0	P154	PROCESS STANDARD DETAILS	2
A152	MILL WORK, DOOR ELEV. and SCHEDULE	4	M143	MECHANICAL SCHEMATICS FUEL OIL SYSTEM	0	INSTRUMENTATION		
STRUCTURAL		4	ELECTRICAL			I111	P&ID SYMBOLS and IDENTIFICATION	2
S101	STRUCTURAL GENERAL NOTES	4	E131	ELECTRICAL LOWER LEVEL LTG. and LUMINAIRE SCHEDULE	2	I112	P&ID SYMBOLS and IDENTIFICATION	2
S102	STRUCTURAL DEMOLITION PLANS		E132	LOWER LEVEL POWER PLAN and MCC SCHEDULE	2	I113	CONTROL SYSTEM SCHEMATICS and DETAILS	2
S103	STRUCTURAL TYPICAL DETAILS	2	E141	SINGLE LINE DIAGRAM and MOTOR SCHEDULE	2	I131	PUMPING and PRELIMINARY SCREENING P&ID	2
S131	STRUCTURAL FOUNDATION PLAN	2				I132	SOLIDS HANDLING, PRIMARY FILTERING and OUTFALL P&ID	2
S132	STRUCTURAL MAIN FLOOR PLAN	2				I133	PRIMARY INSTRUMENTATION LOCATION PLAN	2
S133	STRUCTURAL ROOF FRAMING	2				I134	DRIVE CONTROL and GAS DETECTION LOOP DIAGRAM	2
S134	STRUCTURAL STAIR and HANDRAIL DETAILS	2						
S141	STRUCTURAL BUILDING SECTIONS	2						



**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KIDDER CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2004 05/11	RECORD DRAINING
1	2005 6/13	ISSUED FOR CONSTRUCTION
0	2005 3/14	ISSUED FOR TENDER

## REVISIONS

CITY of IQUALUIT,  
Nunavut

**Design**  
**R.H.B./G.A.P.**

**R.J.H.**

1

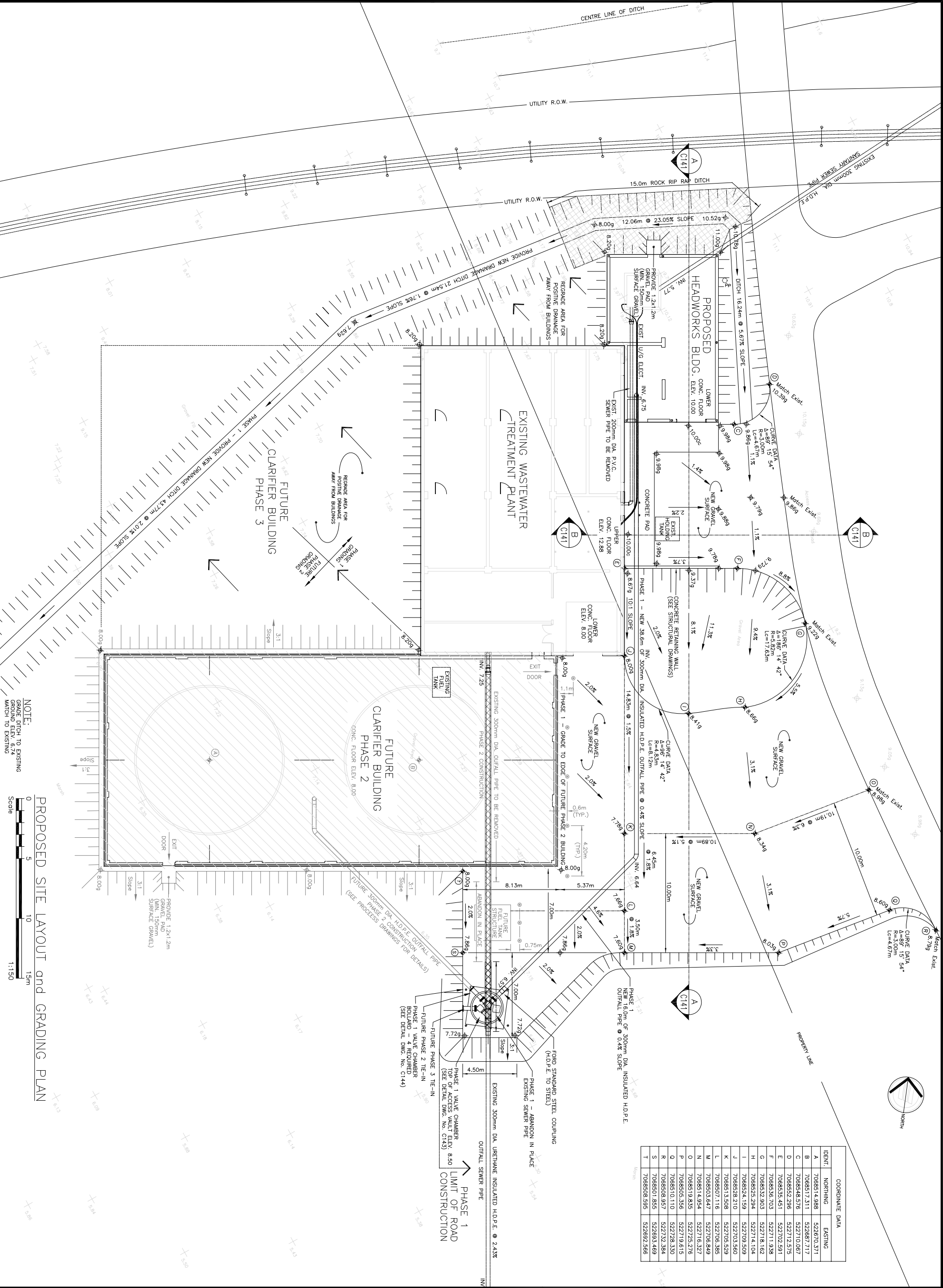
**Project Name**  
**CITY OF IQUALUIT**  
**WASTEWATER**  
**TREATMENT PLANT**  
**PHASE 1**

# LOCATION PLAN and EXISTING SITE PLAN

**AS NOTED**

75360 2005-03-09

**Brewing No.** **Amount**



**EarthTech**  
A 100% Internet One Ltd. Company  
1720's - 103rd Avenue  
EDMONTON, ALBERTA  
T5S 1A4 CANADA  
Tel: 780-488-6390  
Fax: 780-488-2121  
www.earthtech.ca

**Legend**

- EXISTING SURVEY ELEVATION
- 7.669 FINISHED GRAVEL ELEVATION
- 10.00c FINISHED CONCRETE ELEVATION
- COORDINATE POINT
- EDGE OF GRAVEL SURFACE

**Notes:**  
1. SEE DRAWING C4-01 FOR DETAILS.

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY THE CLIENT. THE RECORD DRAWING IS NOT GUARANTEED. ANY CHANGES TO THE RECORD DRAWING WILL BE AT THE CLIENT'S RISK.

**REVISIONS**

No.	Date	Description
0	3/14	ISSUED FOR TENDER
1	6/13	ISSUED FOR CONSTRUCTION
2	03/11	RECORD DRAWING

**Design** G.A.P.  
**Drawn** R.U.H.  
**Approved**  
**Checked**

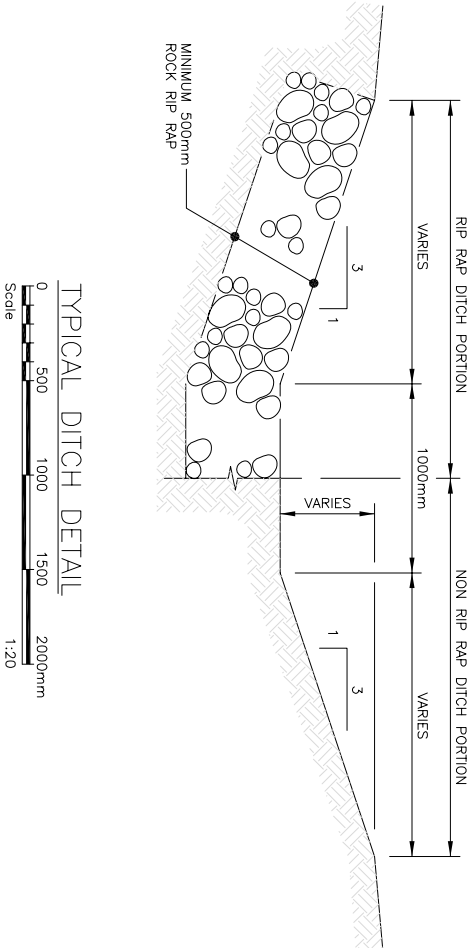
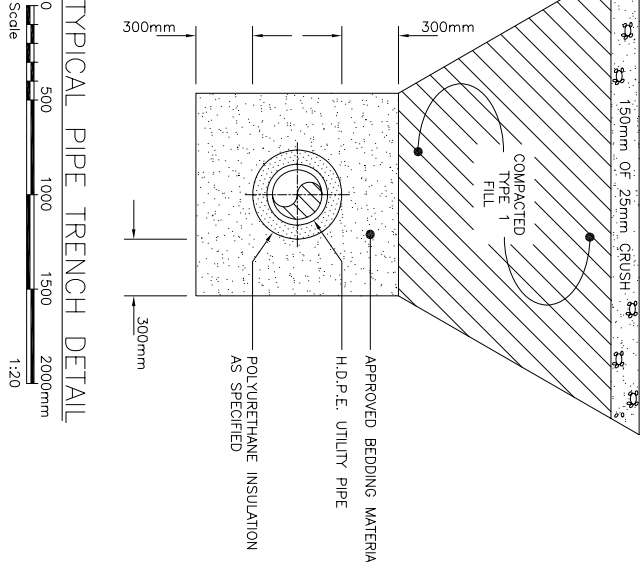
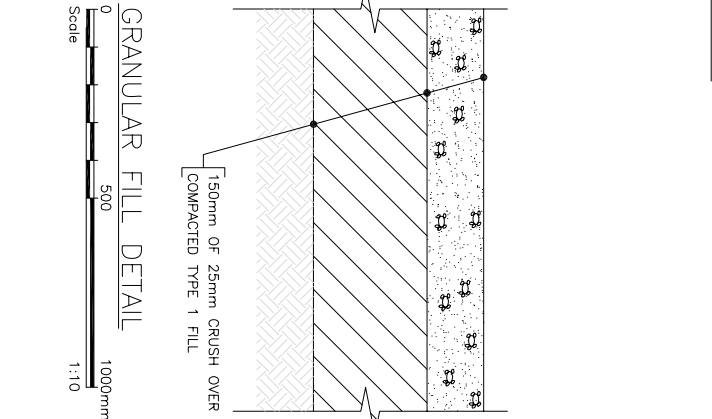
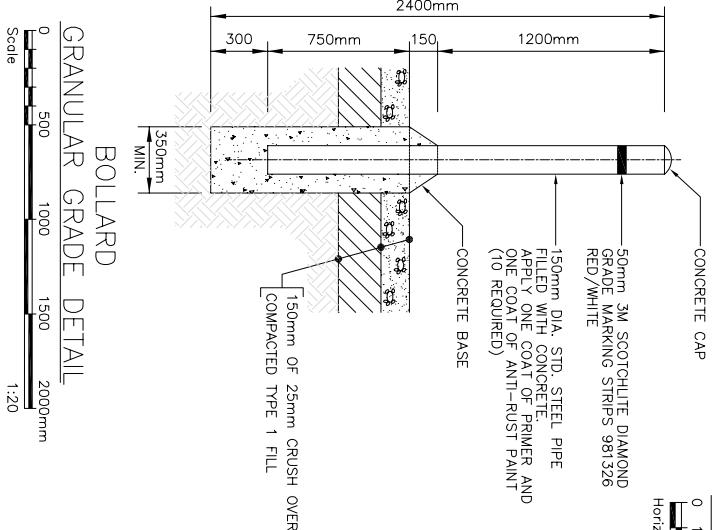
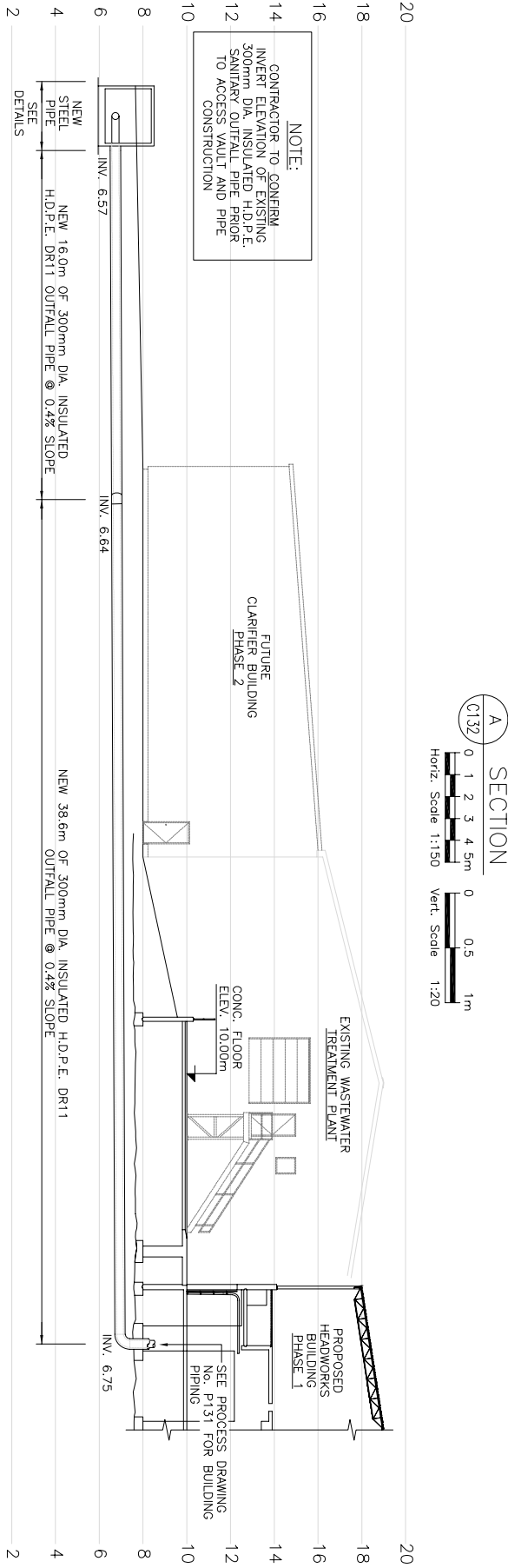
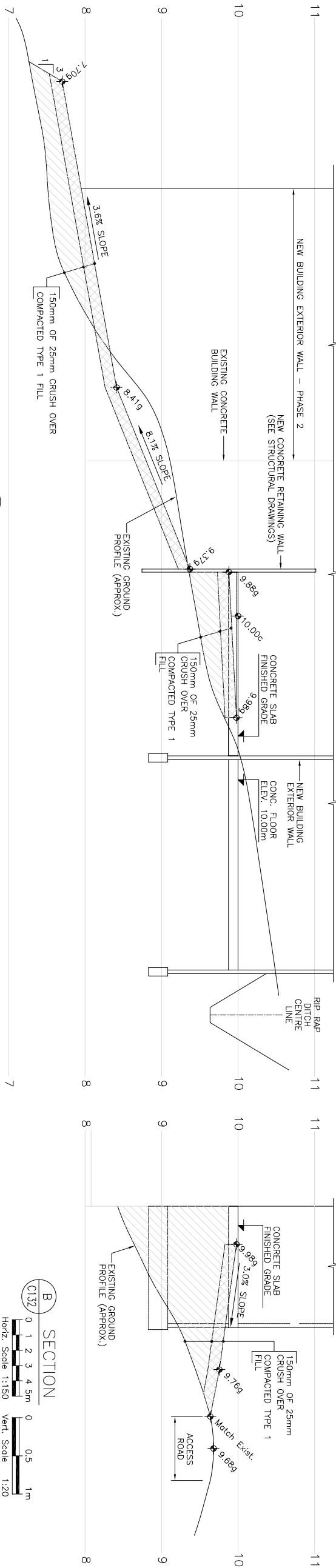
**Project Title**  
CITY OF IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

**Drawing Title**  
PROPOSED  
SITE LAYOUT and  
GRADING PLAN

**Scale** AS NOTED  
**Project No.** 75360  
**Drawing No.** C132

**Date** 2005-02-25  
**Revision** 2





Stamp

<div>RECORD DRAWING</div> <div>INFORMATION CONTAINED IN THESE DRAWINGS KIDUKU CONSTRUCTION LTD. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.</div>		
2	2006 05/11	RECORD DRAWING
	2005 6/13	ISSUED FOR CONSTRUCTION
0	2005 3/14	ISSUED FOR TENDER
No.	Date	Description
REVISIONS		

Design	R.H.B./G.A.P.
Drawn	R.J.H.
Approved	
Checked	
Project Title	
CITY OF Iqaluit WASTEWATER TREATMENT PLANT PHASE 1	
Drawing Title	
CROSS-SECTIONS and MISCELLANEOUS DETAILS	
Scale AS NOTED	Date
Project No. 75360	2005-03-09
Drawing No. C141	Revision 2



- (A) 300mm DIA. VC. FLANGED
- (B) 300mm DIA. KNIFE GATE V
- (C) 300mm DIA. 300mm LG. SP-001 PIECE
- (D) 300mm DIA. VC. COUPLING
- (E) CLEANOUT (SEE DETAIL)
- (F) 300mm DIA. 45° LATERAL
- (G) 300mm DIA. BLIND FLANGE
- (H) PIPE SUPPORT

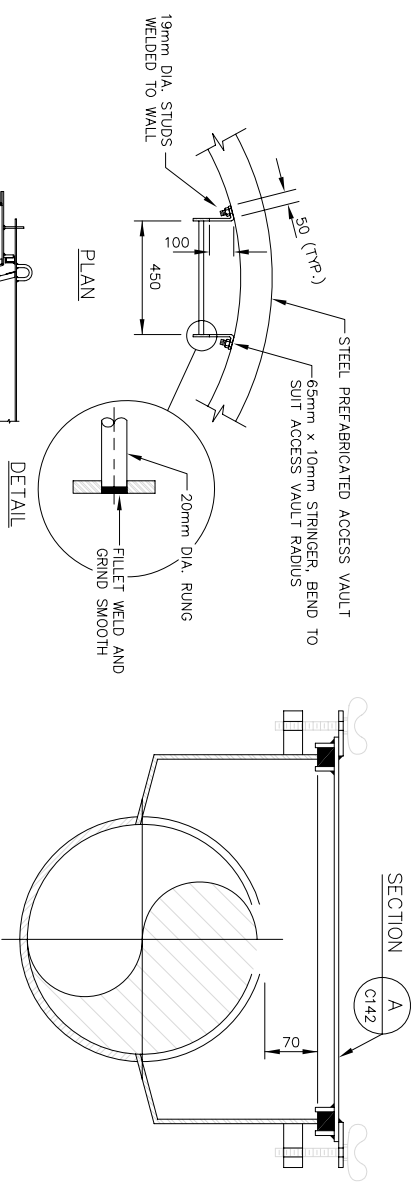
**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

2	2006 05/09	RECORD DRAWING
1	2005 6/13	ISSUED FOR CONSTRUCTION
0	2005 3/14	ISSUED FOR TENDER
No.	Date	Description

**Iqaluit**  
  
CITY of IQALUIT,  
Nunavut

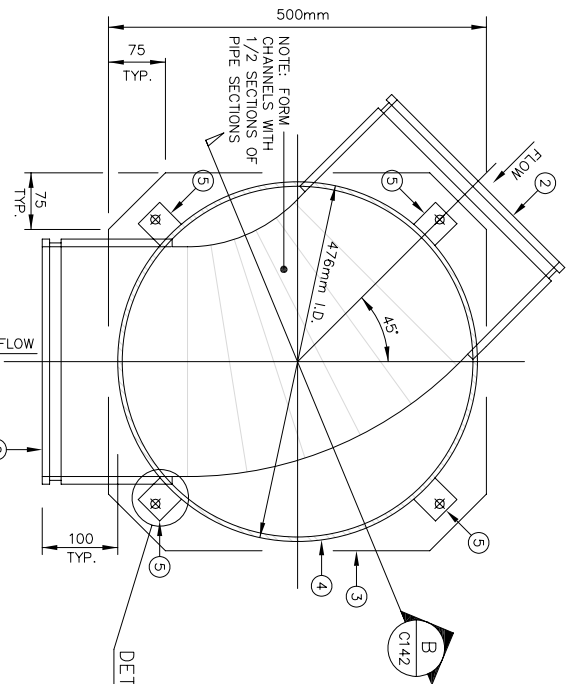
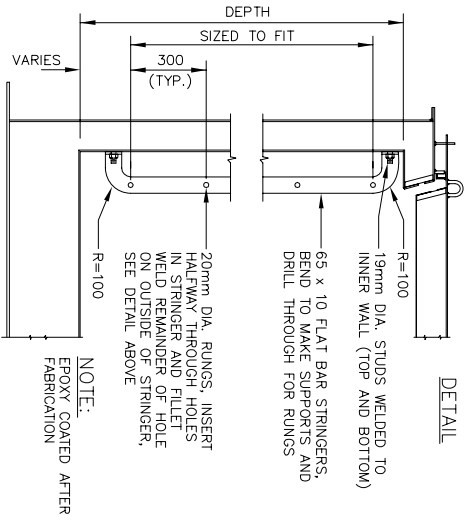
Project Title	CITY OF IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	

Project No.	Date
75360	2005-03-0
Drawing No.	Revision
C142	2



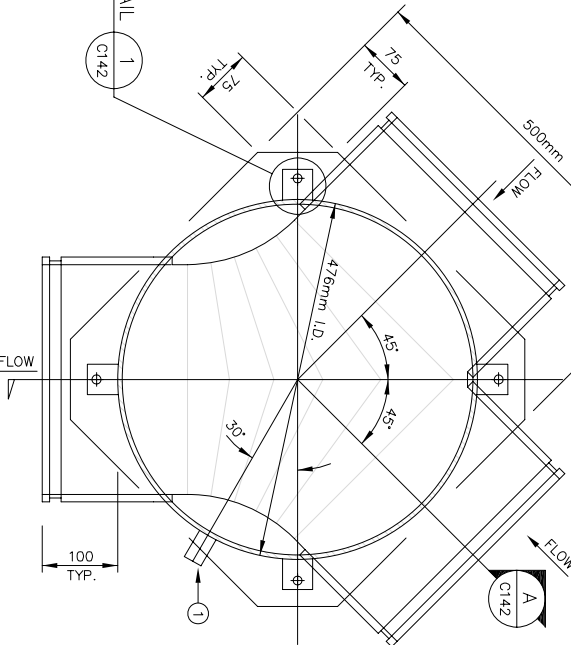
KEY TO NUMBERED PARTS  
(CLEANOUT ONLY)

- 1 25 N.P.T. HALF COUPLING c/w NIP & CAP
- 2 SCH. 40 STEEL PIPE NIPPLE VICTAULIC GROOVED, SIZED TO SUIT,  
CLEANOUT COVER AND SEAL, UP FABRICATED FROM 6mm THICK  
PLATE, CONTINUOUS BUTT WELDED AND HOT DIPPED GALVANIZED  
AFTER FABRICATION.
- 3 CLEANOUT BODY FABRICATED FROM 6mm THICK PLATE  
CONTINUOUS BUTT WELDED AND HOT DIPPED GALVANIZED  
AFTER FABRICATION.
- 4 BOLT LUGS TAPPED
- 5 12 mm x 90 mm, LONG CAD PLATED HEX HEAD CAP SCREW  
WITH WING HEAD (4 REQUIRED PER CLEANOUT)
- 6 25mm SOFT RUBBER GASKET, CUT ENDS AT ANGLE TO  
PROVIDE SEAL ALL AROUND
- 7
- 8
- 9 DRILL AND TAP 12mm.
- 10 25 x 6 THK. FOR LID SEAL  
COMPLETE CIRCUMFERENCE OF LID

ELEVATION

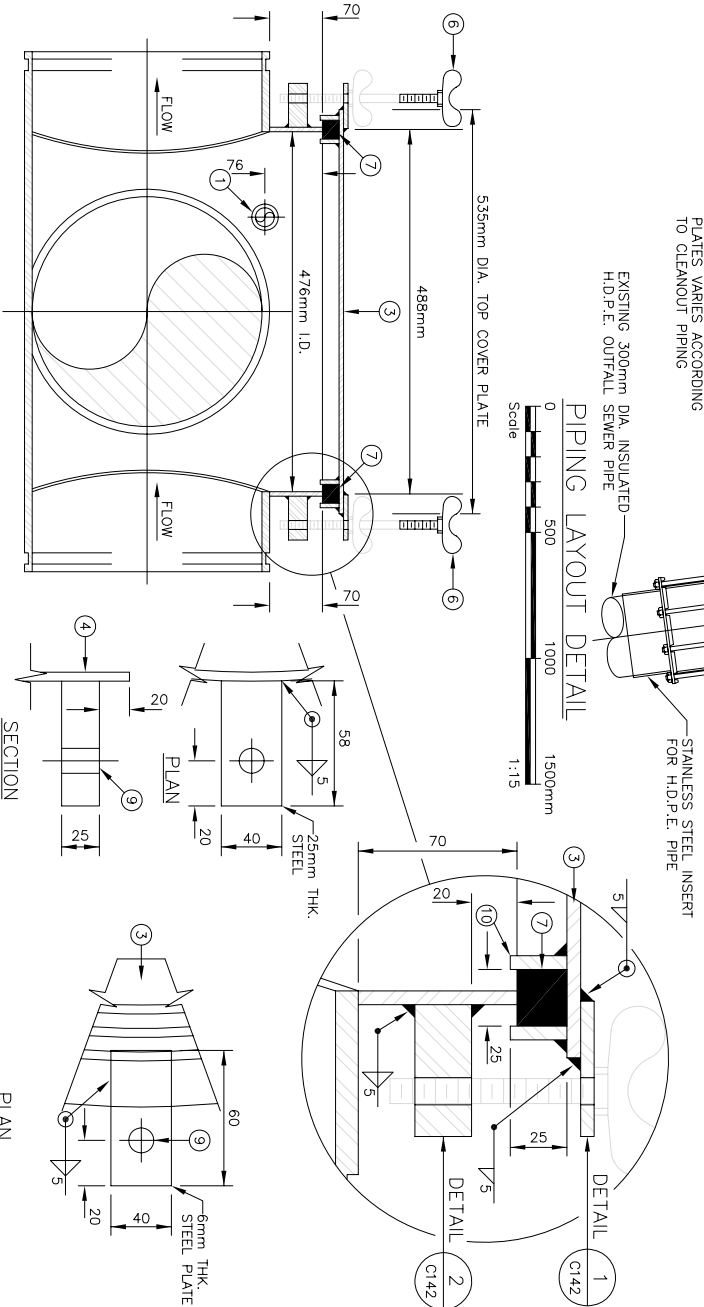
## CLEANOUT 'B' DETAIL

Scale 1:5



## CLEANOUT 'A' DETAIL

Scale



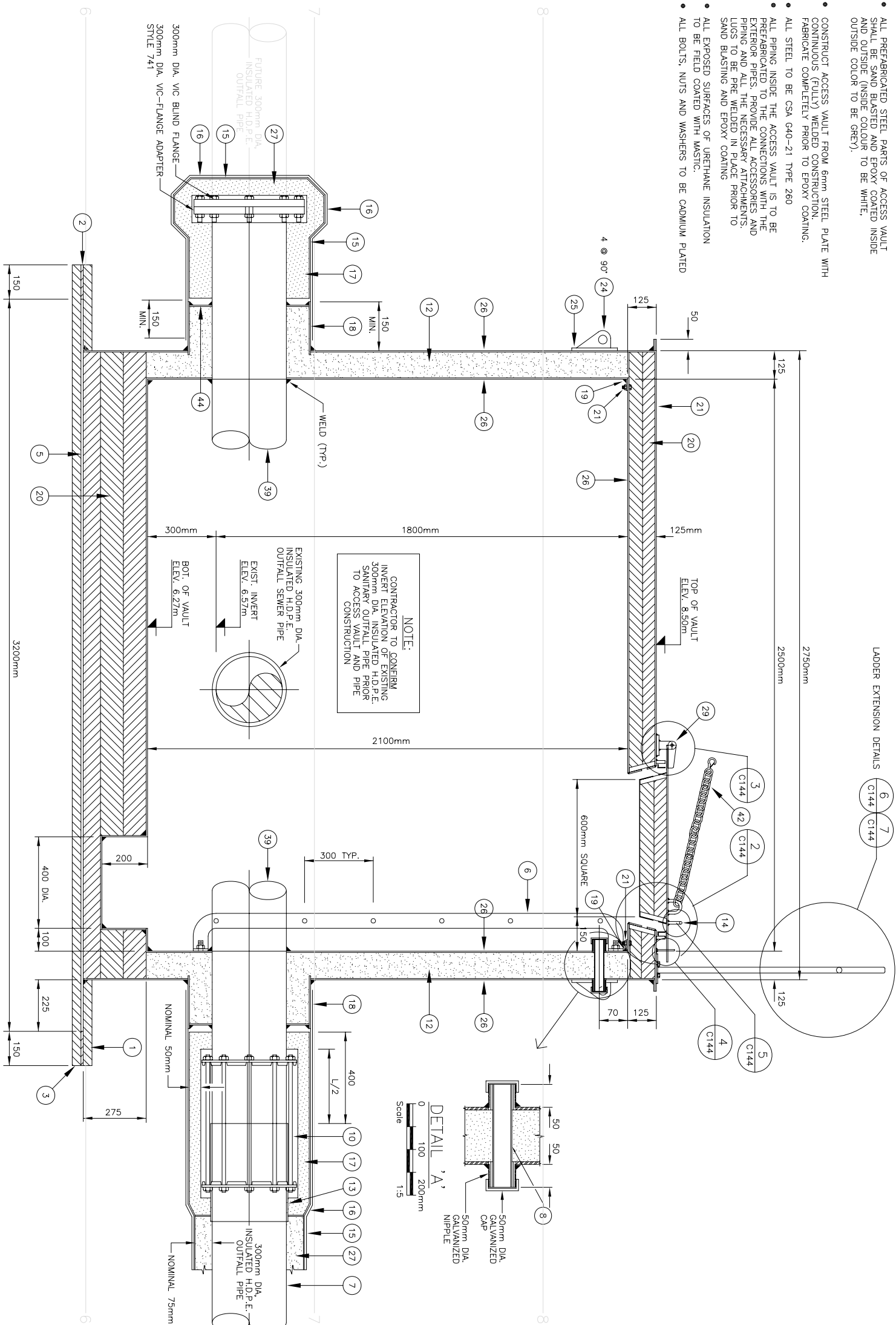
Scale 1:5

Not To S

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

GENERAL NOTES:

- FILL VOID BETWEEN PRE-INSULATED PIPE AND PRE-FORMED INSULATION HALF-SHELLS WITH FOAMED-IN-PLACE URETHANE
- ALL PREFABRICATED STEEL PARTS OF ACCESS VAULT SHALL BE SAND BLASTED AND EPOXY COATED INSIDE AND OUTSIDE (INSIDE COLOUR TO BE WHITE, OUTSIDE COLOR TO BE GREY).
- CONSTRUCT ACCESS VAULT FROM 6mm STEEL PLATE WITH CONTINUOUS (FULLY) WELDED CONSTRUCTION, FABRICATE COMPLETELY PRIOR TO EPOXY COATING.
- ALL STEEL TO BE CSA G40-21 TYPE 260
- ALL PIPING INSIDE THE ACCESS VAULT IS TO BE PREFABRICATED TO THE CONNECTIONS WITH THE PIPING AND ALL THE NECESSARY ATTACHMENTS, LUGS TO BE PRE WELDED IN PLACE PRIOR TO SAND BLASTING AND EPOXY COATING
- ALL EXPOSED SURFACES OF URETHANE INSULATION TO BE FIELDED COATED WITH MASTIC.
- ALL BOLTS, NUTS AND WASHERS TO BE CADMIUM PLATED



STEEL PREFABRICATED ACCESS VAULT TYPICAL CROSS-SECTION

KEY TO NUMBERED PARTS

- 1 38mm THICK STYROFOAM, CUT TO MATCH EXTERIOR WALL RADIUS.
- 2 FILLER PIECE, 10mm THICK INSULATION.
- 3 38mm THICK STYROFOAM INSULATION.
- 4 20mm THICK HIGH DENSITY POLYETHYLENE SHEET.
- 5 10mm THICK SQUARE STEEL BASE
- 6 LADDER LENGTH AS REQUIRED, SEE DETAIL ON DRAWING C4-03
- 7 I.P.S. H.D.P.E. PIPE D.R.11
- 8 20 GAUGE METAL (DO NOT USE 6mm PLATE).
- 9 FORD STANDARD STEEL COUPLING STYLE FC3, LENGTH: 300mm DIA. PIPE - 750mm
- 10 FOAMED-IN-PLACE INSULATION (URETHANE).
- 11 STAINLESS STEEL INSERT FOR H.D.P.E. PIPE LENGTH TO SUIT, WELDED, 400mm LENGTH
- 12 HANDLE, 12mm DIA. GALVANIZED STEEL
- 13 FIRST LAYER OF HEAT SHRINK TAPE (0.9mm) THICK BLACK POLYETHYLENE SELF ADHESIVE), SECOND LAYER OF HEAT SHRINK TAPE (SAME AS ITEM 15 ABOVE).
- 14 INSULATED COVER FOR FLANGED JOINT, O.D. TO MATCH O.D. OF ITEM (8)
- 15 OUTER STEEL SLEEVE SECTION WELDED TO ACCESS VAULT OUTER WALL 10mm THK. PROTRUDING 200mm, O.D. 630mm FOR 300mm DIA.
- 16 10mm x 50mm CONTINUOUSLY WELDED TO EXTERIOR BARREL
- 17 URETHANE SHEET INSULATION CUT TO SIZE.
- 18 12mm CAP, PLATED STEEL BOLT, NUT AND WASHER 150mm SPACING.
- 19 LIFTING LUGS - FOUR PER ACCESS VAULT 150mm x 75mm x 12mm THICK WITH 38mm DIA. LIFTING EYE
- 20 REINFORCING PLATE 200mm x 200mm x 12mm CURVED TO EXTERIOR WALL RADIUS
- 21 6mm THICK STEEL PLATE ACCESS VAULT CONSTRUCTION.
- 22 75mm URETHANE PIPE INSULATION, SHOP APPLIED.
- 23 HINGES SPACED AT 400mm APART, SEE DETAIL DRAWING No. C144
- 24 GASKET 50mm x 3mm COMPRESSIBLE NEOPRENE RUBBER.
- 25 #12-30 PAN HEAD SHEET METAL SCREWS AT 100mm SPACING.
- 26 HASP ASSEMBLY, SEE DETAIL DWG. No. C144
- 27 12mm x 38mm x 500mm STEEL BAR ALL AROUND HATCH (INSIDE HINGES), TAPPED FOR (36)
- 28 20mm x 38mm CLOSED CELL NEOPRENE ASIM D1056-85, GRADE 2A2-CE1/F2MP PERMASTIK 1220X OR EQUAL.
- 29 6mm GALVANIZED BOLT NUT AND WASHER AT 100mm SPACING.
- 30 6mm x 31mm CAP, PLATED STEEL BOLT 150mm SPACING.
- 31 6.5mm x 17mm SPACER, GALVANIZED PIPE.
- 32 3mm x32mm x 20mm GALVANIZED IRON.
- 33 SCHEDULE 80 STEEL PIPE, SIZE TO SUIT. EPOXY COATED AFTER VAULT FABRICATION
- 34 38mm WIDE TEFLON TAPE, LOW TEMPERATURE ADHESIVE, 15mil.
- 35 1000mm LONG GRADE 30 REGULAR LINK CHAIN WITH SAFETY HOOK c/w SNAP LINKS ON BOTH SIDES
- 36 10mm STEEL RING, WELD TO OUTER SLEEVE AND STEEL PIPE
- 37 10mm THK. STEEL PLATE, 50mm x 225mm
- 38 25mm DIA. GALVANIZED STEEL BAR

PARTS MARKED AS \* SEE DETAILS ON DRAWING No. C144

RECORD DRAWING	
INFORMATION CONTAINED IN THESE DRAWINGS IS THE PROPERTY OF EARTHTECH LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION CONTAINED HEREIN IS THE ACTUAL LOCATION BEFORE USE.	

No	Date	Description
1	2005 6/13	ISSUED FOR CONSTRUCTION
2	2006 03/09	RECORD DRAWING
3	2005 3/14	ISSUED FOR TENDER

Design	R.H.B./G.A.P.
Drawn	R.J.H.
Approved	
Checked	
Project Title	CITY OF IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	ACCESS VAULT TYPICAL CROSS-SECTION

Scale	AS NOTED
Project No.	75360
Date	2005-03-09
Drawing No.	C143
Revision	2





**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS TO BE USED BY THE CLIENT  
AS A SUSTAINED RECORD.  
THE COMPETENCY AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

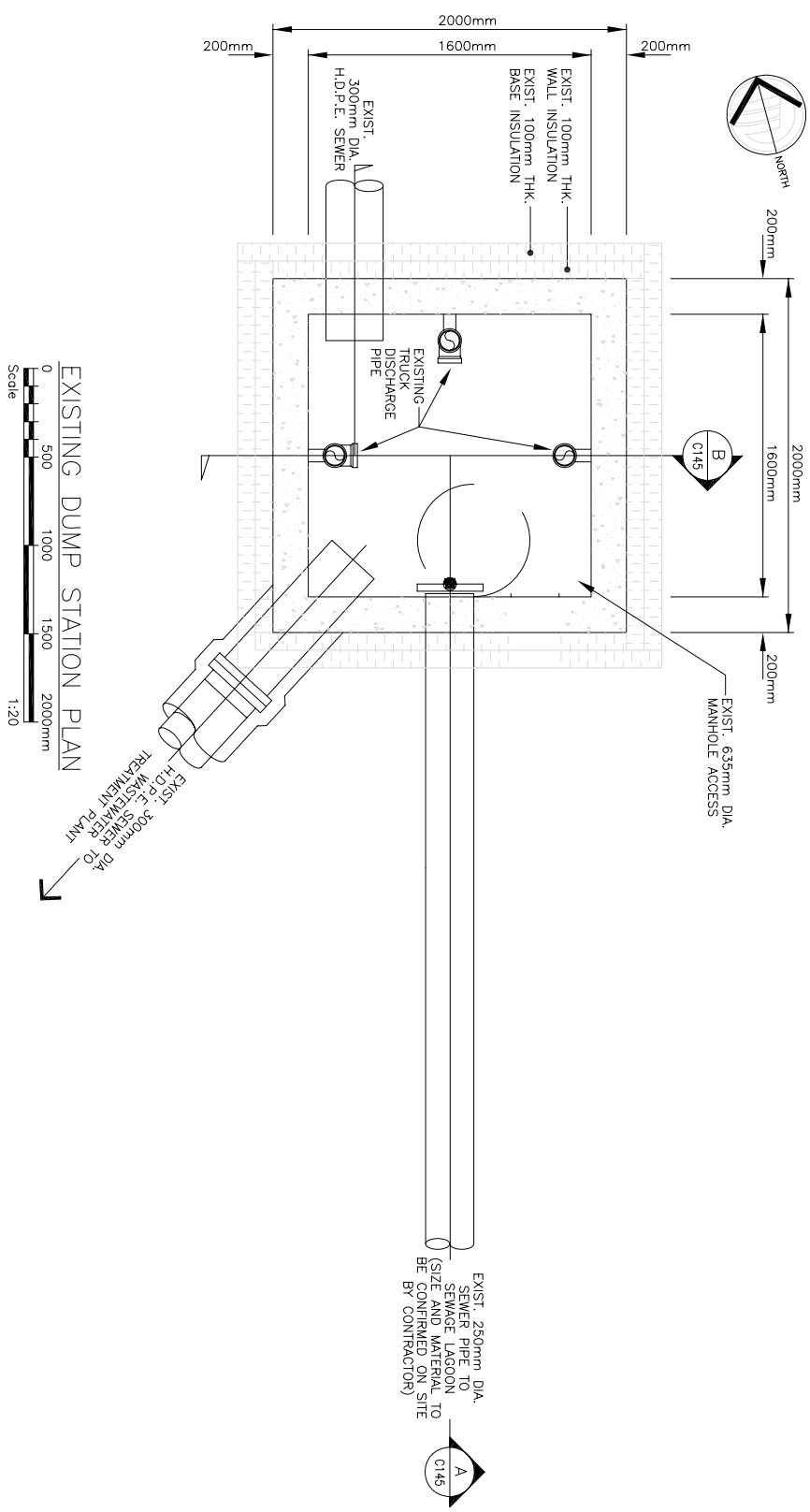
No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 6/13	ISSUED FOR CONSTRUCTION
0	2005 3/14	ISSUED FOR TENDER

**Iqaluit**  
  
CITY of IQALUIT,  
Nunavut

Design	R.H.B./G.A.P.
Drawn	R.J.H.
Approved	
Checked	

Project Title	CITY OF IQALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawings Title	

<p>Scale AS NOTED</p>	
<p>Project No. 75360</p>	<p>Date 2005-03-09</p>
<p>Drawing No.</p>	<p>Revision</p>

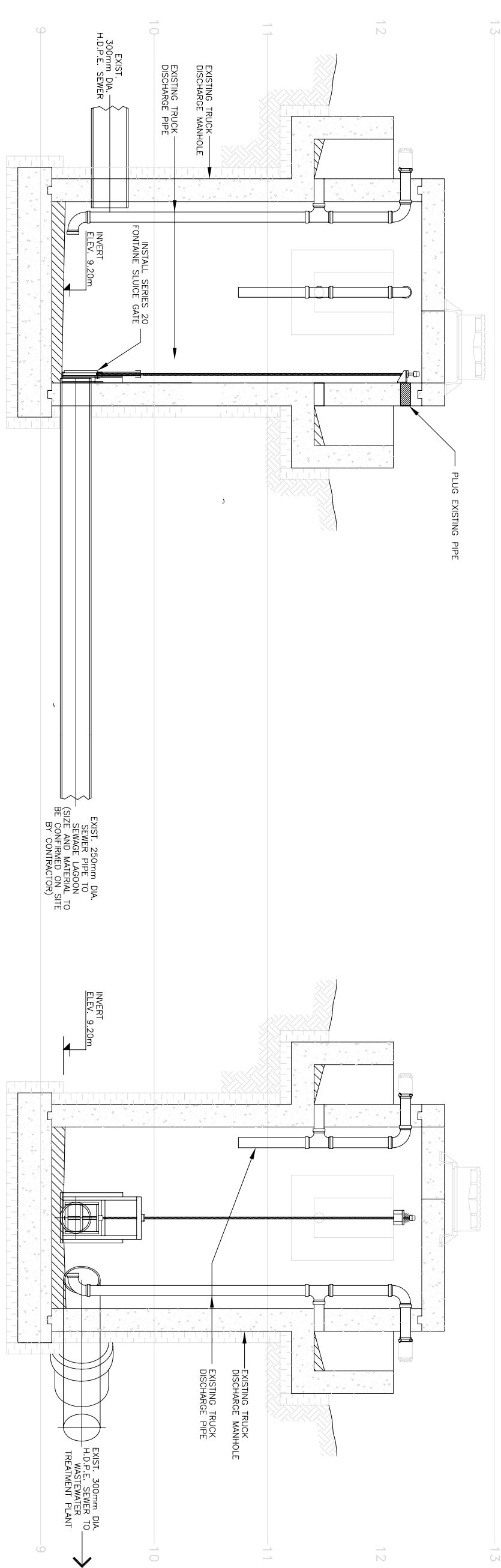


EXISTING DUMP STATION PLAN

Scale 0 500 1000 1500 2000mm

1:20

N



SECTION  
Scale 1:20

SECTION  
Scale 1:20

P.O. BOX 1186  
IQALUIT, Nunavut X0A 0H0  
Ph: 867 979-4180, Fax: 867 979-3991  
Email: larch@nunamet.com

Stamp

## RECORD DRAWING

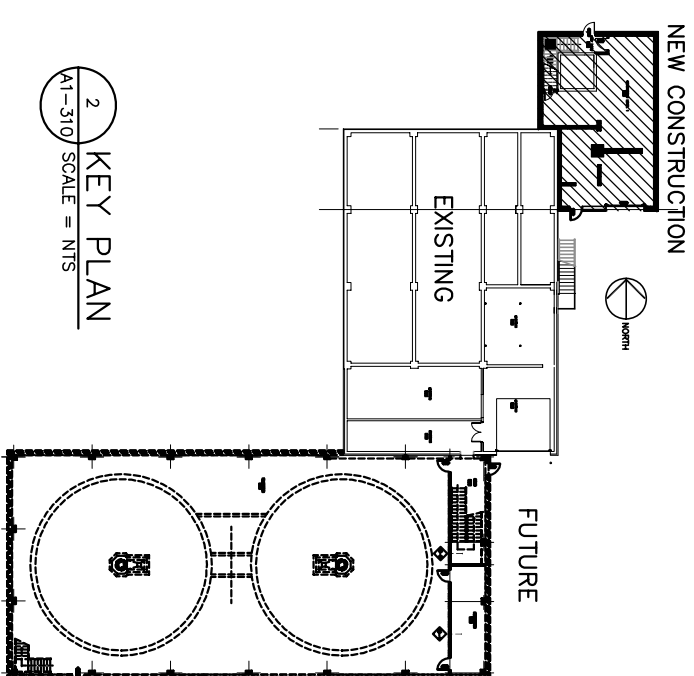
IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

4	06 5/19	RECORD DRAWING  ISSUED FOR CONSTRUCTION
3	05 6/14	
2	05 3/7	
1	04 10/15	TENDER  95%
No.	Date	Description
REVISIONS		

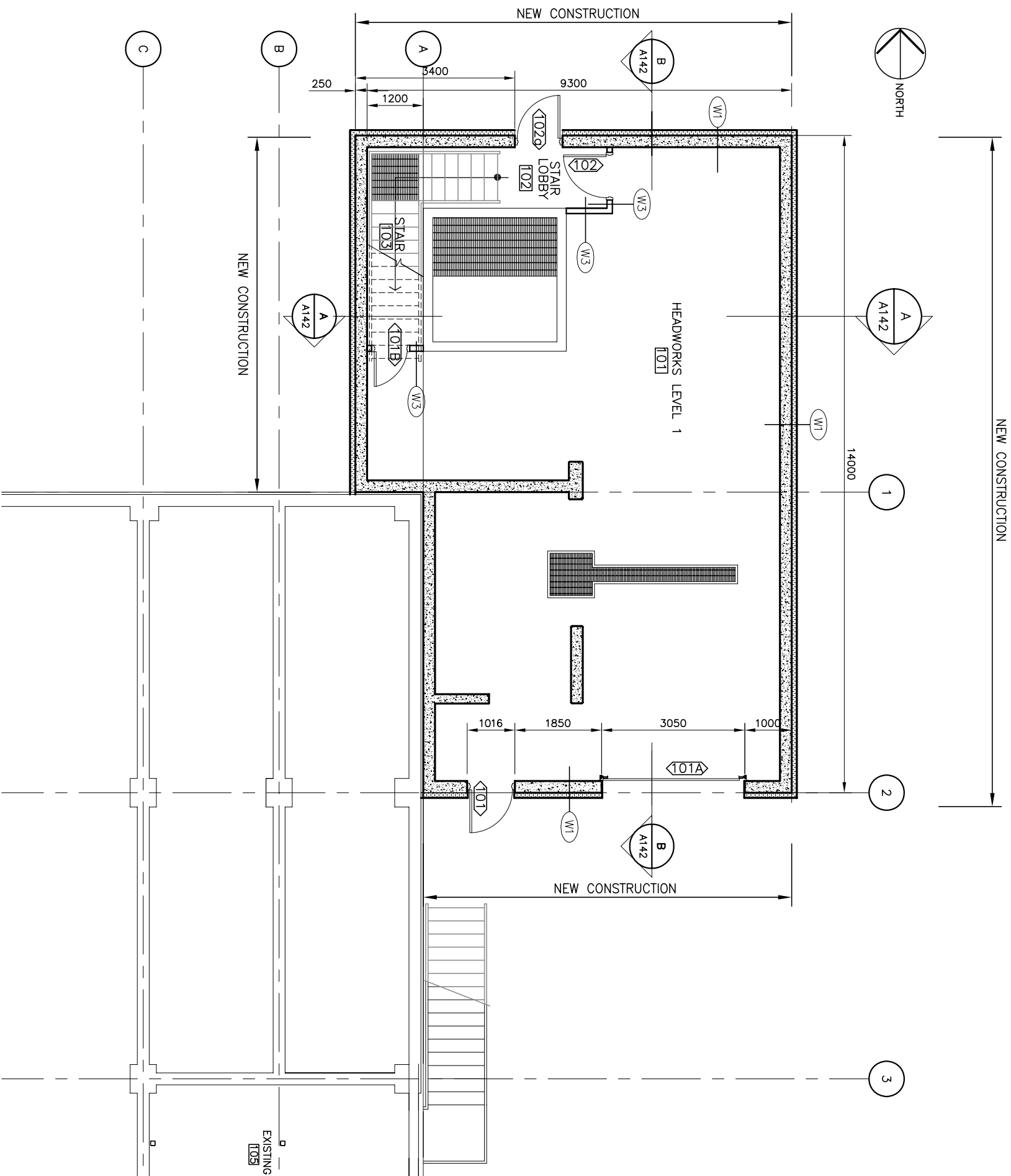
**Project Title**  
**CITY OF IQUALUIT**  
**WASTEWATER**  
**TREATMENT PLANT**  
**PHASE 1**

## PLANS AND WALL ASSEMBLY

Scale	AS SHOWN
Project No.	Date
75360	07.03.05
Drawing No.	Revision
<b>A131</b>	<b>4</b>



2 KEY PLAN  
A1-310 SCALE = NTS



1 LOWER LEVEL PLAN  
A1-310 SCALE = 1:50

WALL ASSEMBLY LOWER LEVEL	
(W1)	CONCRETE WALL 0.25 MM POLY VAPOUR BARRIER 100 MM RIGID INSULATION 12.7 MM CEMENT BOARD
(W2)	PREFINISHED METAL LINER NOTCHED 2 BAR SUB GRIT FILL CAVITY W/ SEMI RIGID INSULATION WEATHER BARRIER PREFINISHED METAL SIDING
(W3)	1 HR. RATED 15.9 MM 'DENSAMOUR' DENSAGUARD FIREGUARD 91 MM STEEL STUD @ 400mm o.c. 15.9 MM 'DENSAMOUR' DENSAGUARD FIREGUARD
(W4)	1 HR. RATED 15.9 MM 'DENSAMOUR' DENSAGUARD FIREGUARD 38.9 MM WOOD STUD @ 400mm o.c. 9.5 mm. PLY BAKING ELECTRICAL RM. SIDE 15.9 MM 'DENSAMOUR' DENSAGUARD FIREGUARD
(W5)	12.7 MM 'DENSAMOUR' DENSAGUARD 91 MM STEEL STUD @ 400mm o.c. 12.7 MM 'DENSAMOUR' DENSAGUARD
(W6)	12.7 MM 'DENSAMOUR' DENSAGUARD 192 MM STEEL STUD @ 400mm o.c. 12.7 MM 'DENSAMOUR' DENSAGUARD

Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED BY THE ACTUAL LOCATION BEFORE USE.

4	06/5/19	RECORD DRAWING
3	05/6/14	ISSUED FOR CONSTRUCTION
2	05/5/7	TENDER
1	04/10/15	95%
No.	Date	Description
REVISIONS		

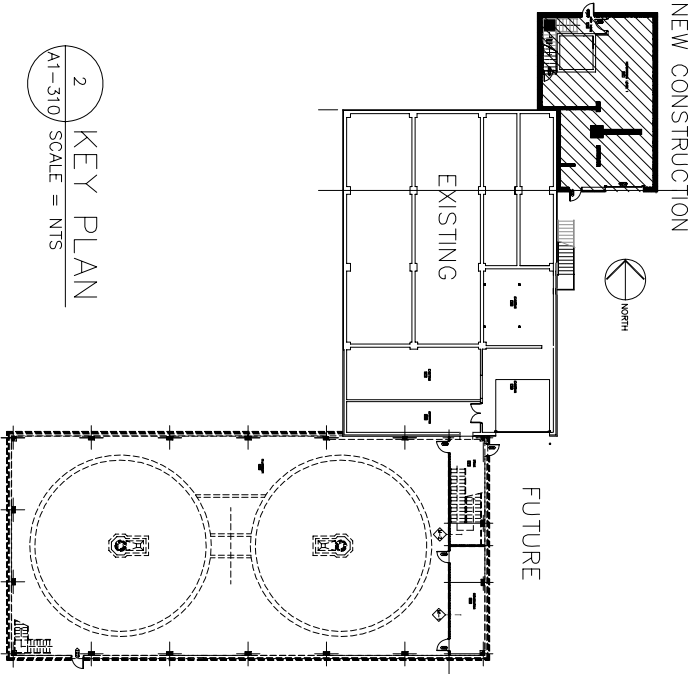
**Iqaluit**  
CITY of IQALUIT,  
Nunavut

Design	TENDER
Drawn	M.M
Approved	
Checked	

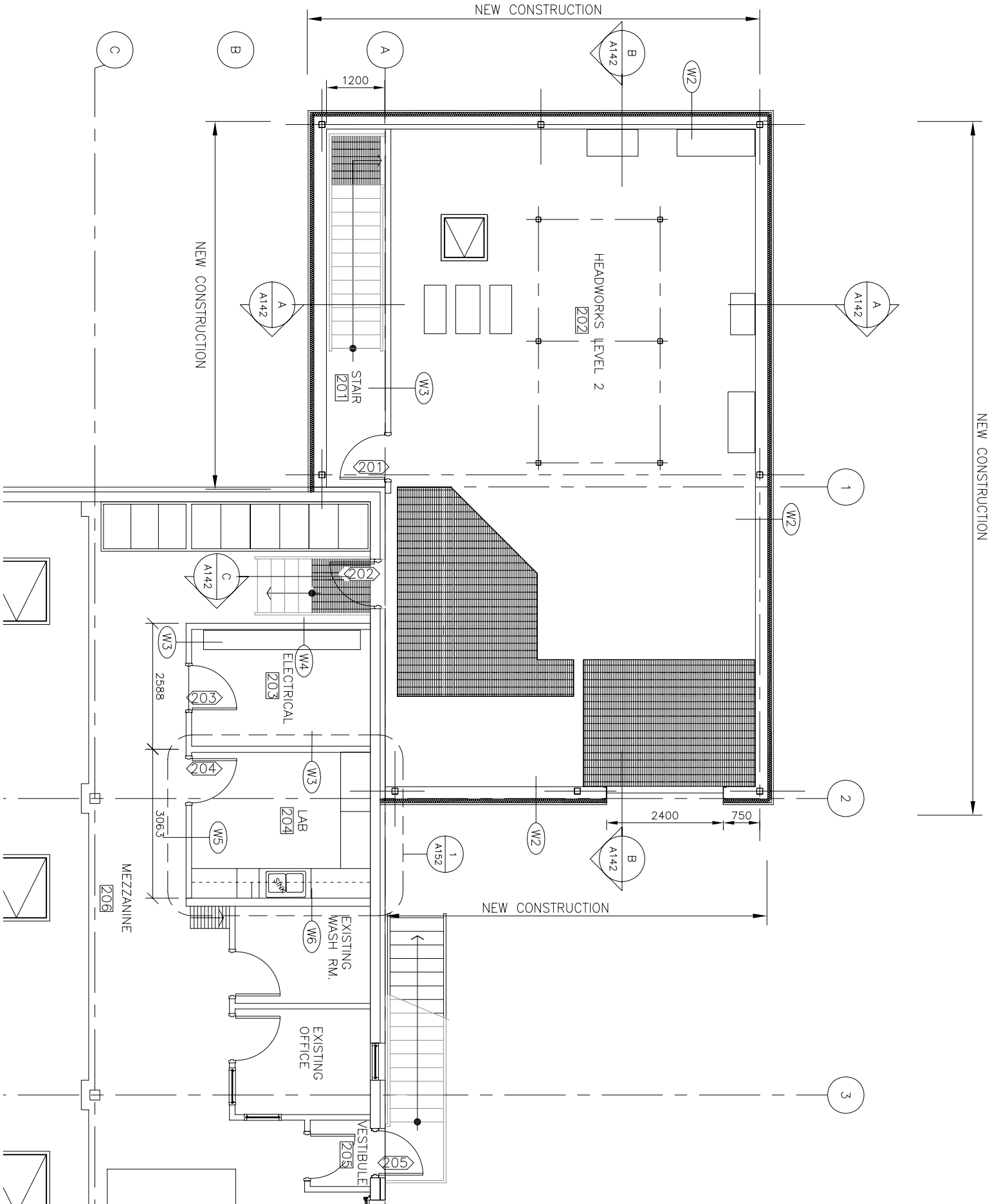
Project Title  
CITY OF IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

Drawing Title  
PLANS AND WALL  
ASSEMBLY

Scale AS SHOWN	Date
Project No. 75360	07.03.05
Drawing No. A132	Revision 4



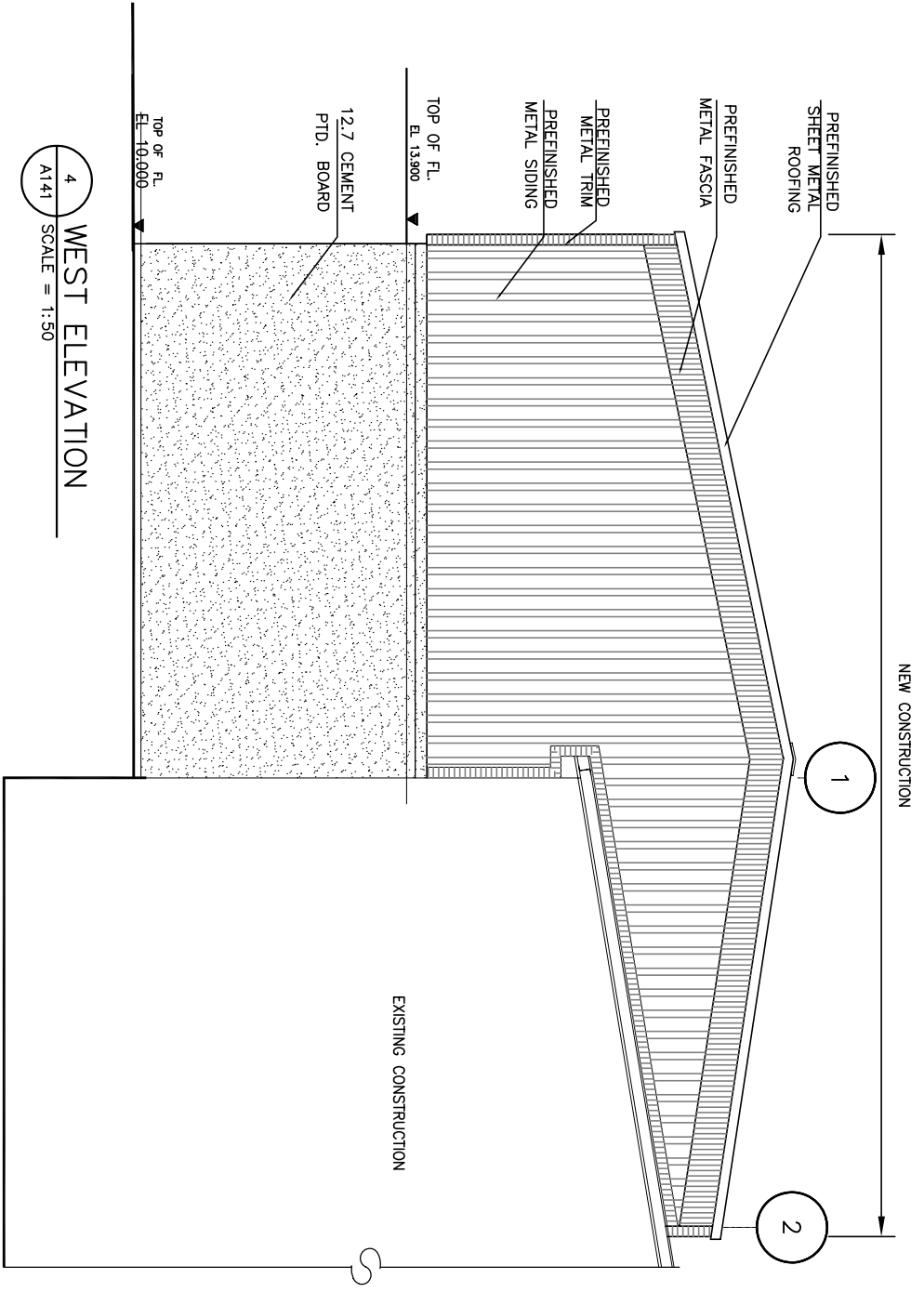
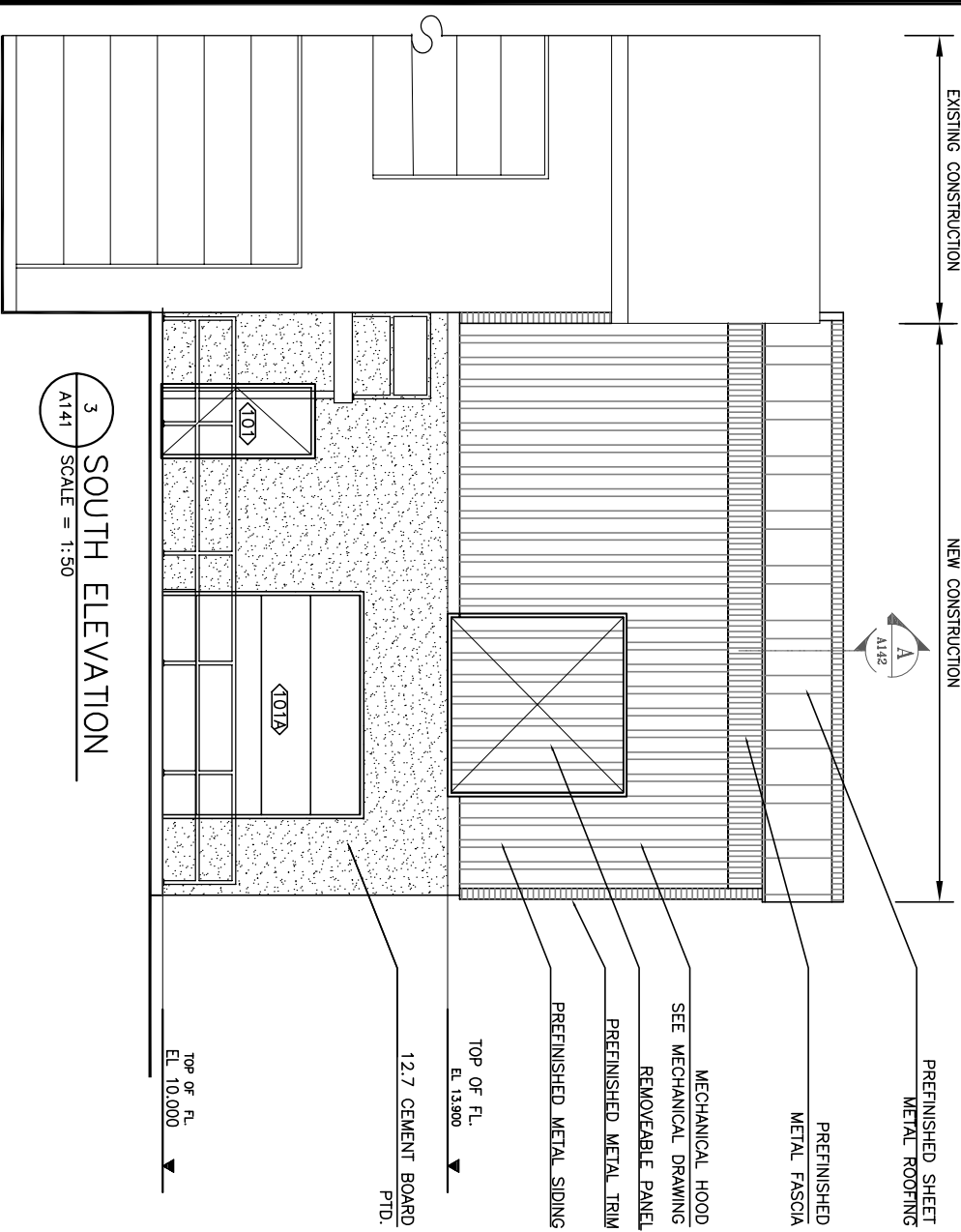
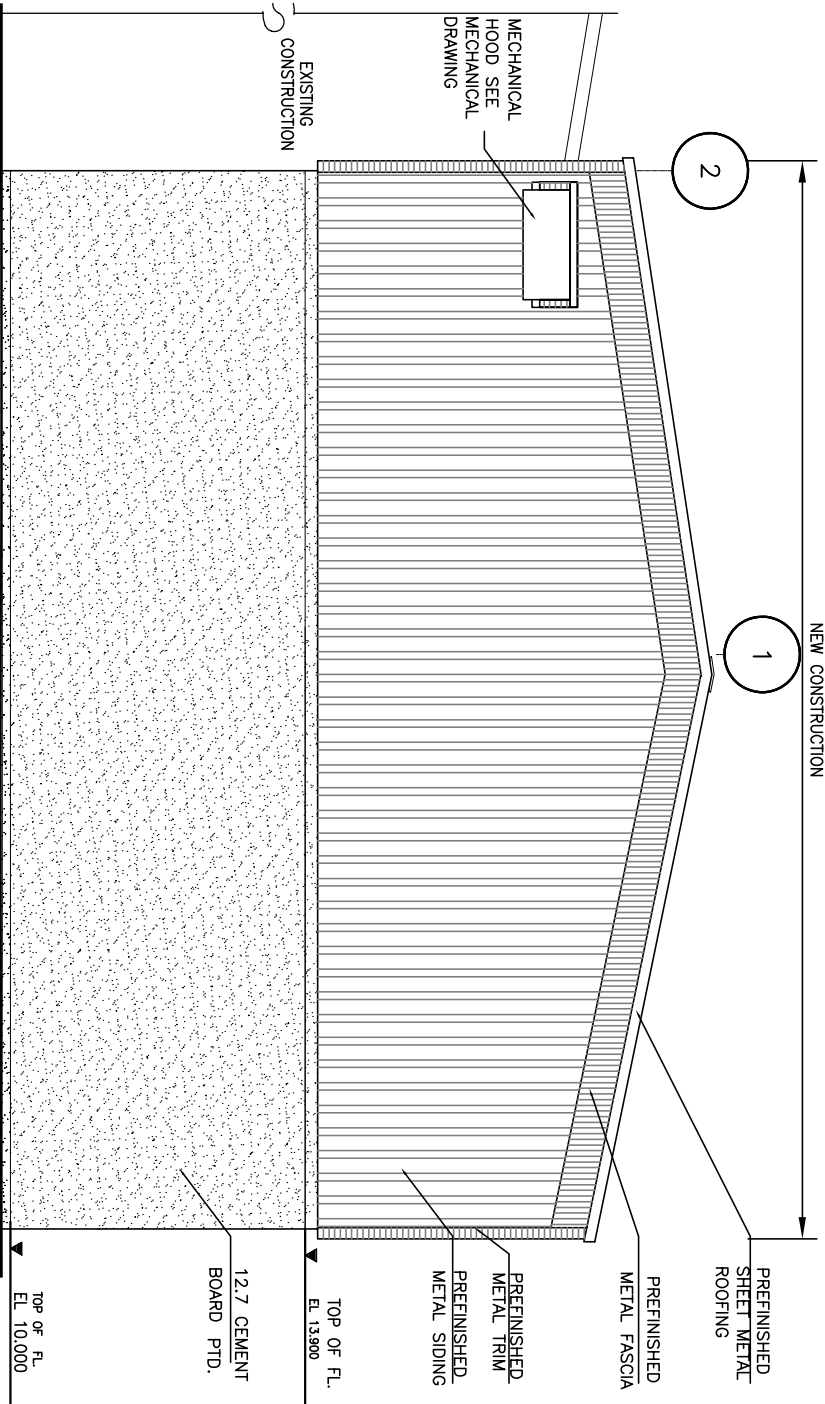
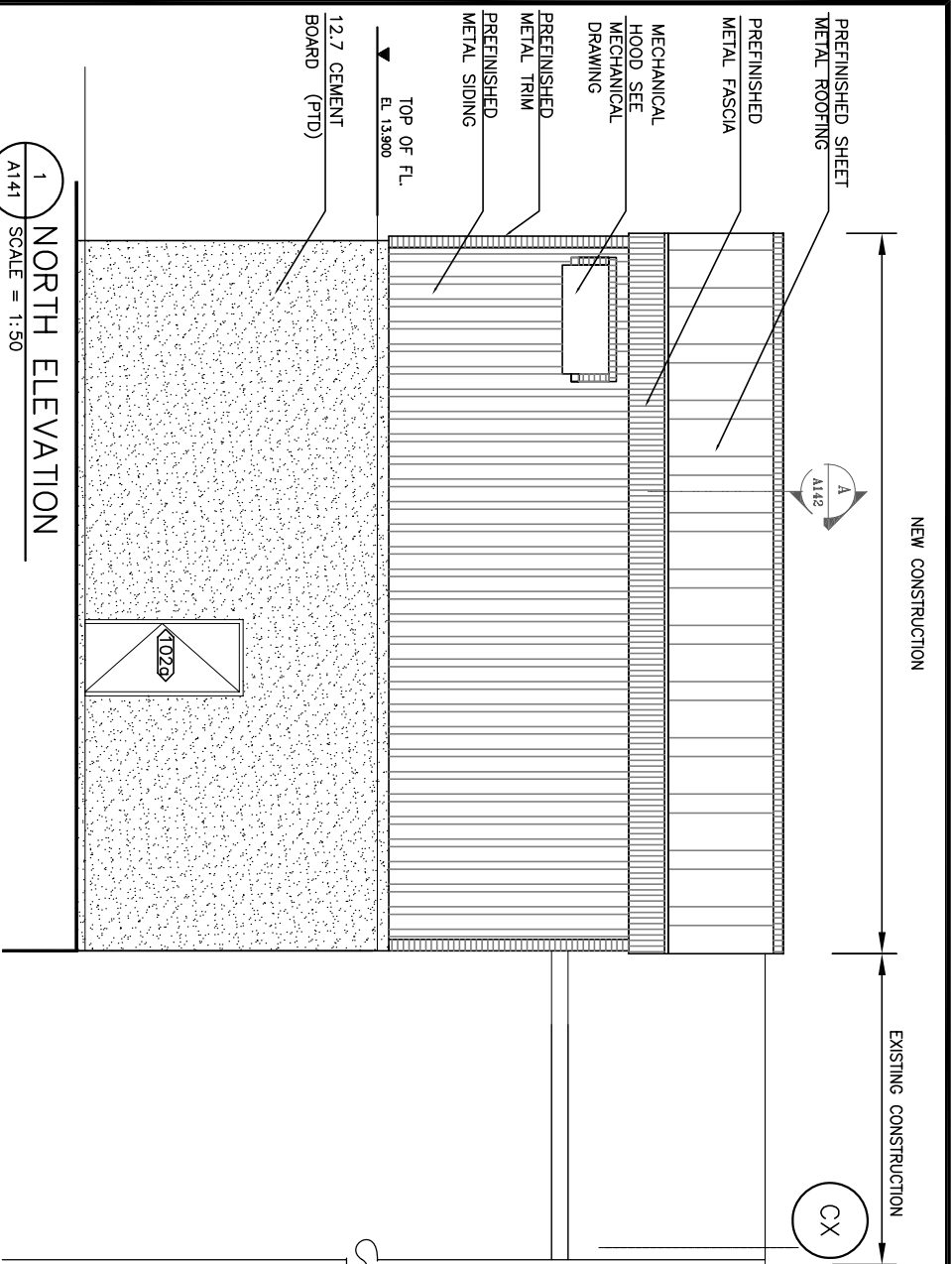
2 KEY PLAN  
SCALE = 1:310



1 UPPER LEVEL PLAN  
SCALE = 1:50

WALL ASSEMBLY UPPER LEVEL	
(W1)	CONCRETE WALL 0.25" MM POLY VAPOUR BARRIER 100 MM RIGID INSULATION 12.7 MM CEMENT BOARD
(W2)	NOTCHED Z BAR SUB GRIT FILL CAVITY W/ SEMI RIGID INSULATION WEATHER BARRIER PREFINISHED METAL SIDING
(W3)	1 HR. RATED 15.9 MM 'DENSAMOUR' DENGSAURO FIREGAURO 91 MM STEEL STUD @ 400mm o.c. 15.9 MM 'DENSAMOUR' DENGSAURO FIREGAURO
(W4)	1 HR. RATED 15.9 MM 'DENSAMOUR' DENGSAURO FIREGAURO 38x89 PLY BAKING ELECTRICAL RM. SIDE 9.5 mm PLY BAKING ELECTRICAL RM. SIDE 15.9 MM 'DENSAMOUR' DENGSAURO FIREGAURO
(W5)	12.7 MM 'DENSAMOUR' DENGSAURO 91 MM STEEL STUD @ 400mm o.c. 12.7 MM 'DENSAMOUR' DENGSAURO
(W6)	12.7 MM 'DENSAMOUR' DENGSAURO 152 MM STEEL STUD @ 400mm o.c. 12.7 MM 'DENSAMOUR' DENGSAURO





4	08/5/19	RECORD DRAWING
3	05/6/14	ISSUED FOR CONSTRUCTION
2	05/3/7	TENDER
1	04/10/15	98%
No.	Date	Description

REVISIONS

Design	
Drawn	
Approved	
Checked	
Project Title	CITY of IQALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	ELEVATIONS
Scale	
Project No.	75360
Date	07.03.05
Drawing No.	4

Livingstone  
Architect

P.O. BOX 1186  
Iqaluit, Nunavut X0A 0H0  
Ph: 867 979-4180, Fax: 867 979-3991  
Email: larch@lmanet.com

Stamp

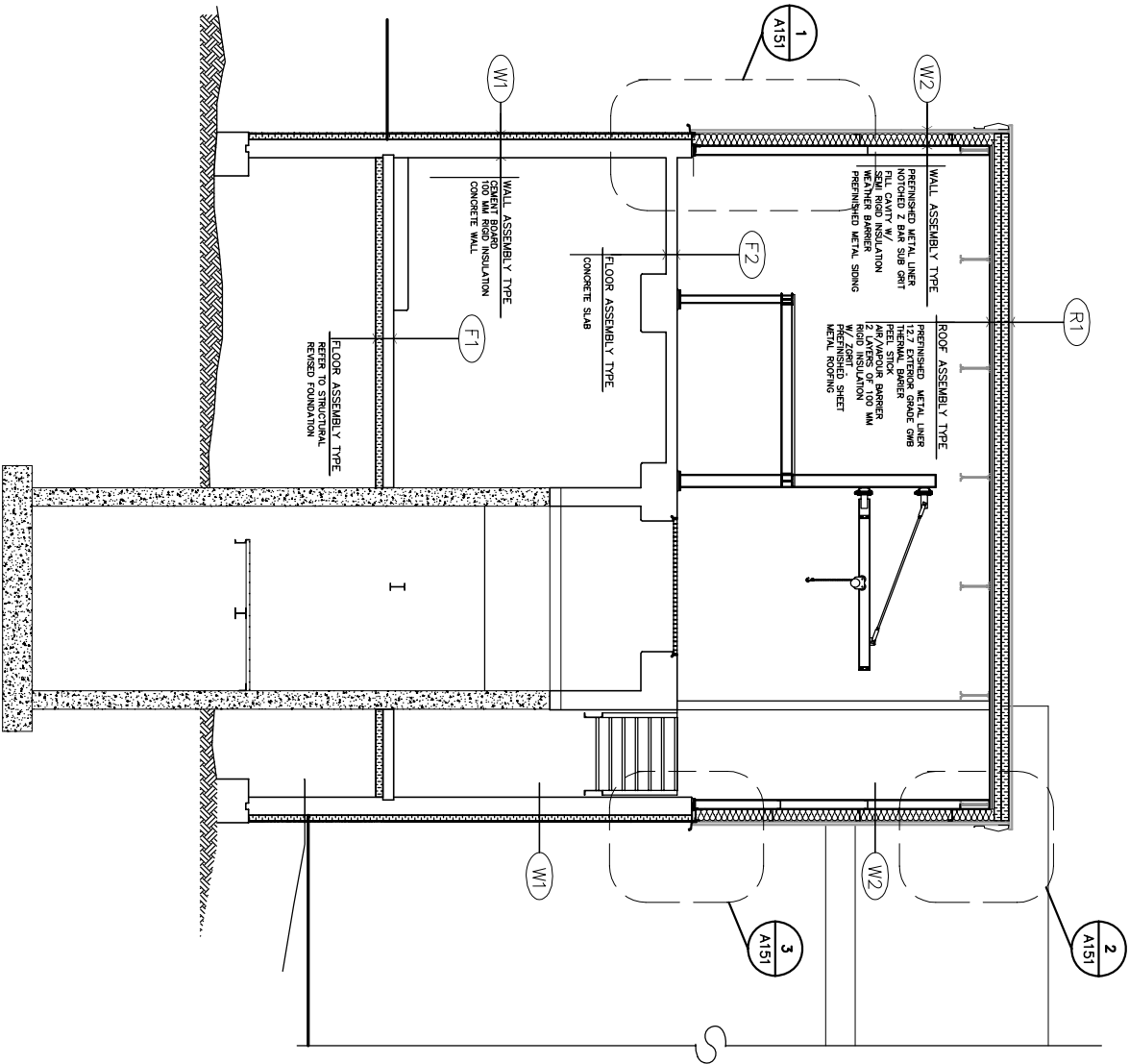
RECORD DRAWING	
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:	
KIDLUK CONSTRUCTION LTD.	
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.	

06	5/19	RECORD DRAWING
05	6/14	ISSUED FOR CONSTRUCTION
05	3/7	TENDER
04	10/15	95%
No.	Date	Description
REVISIONS		

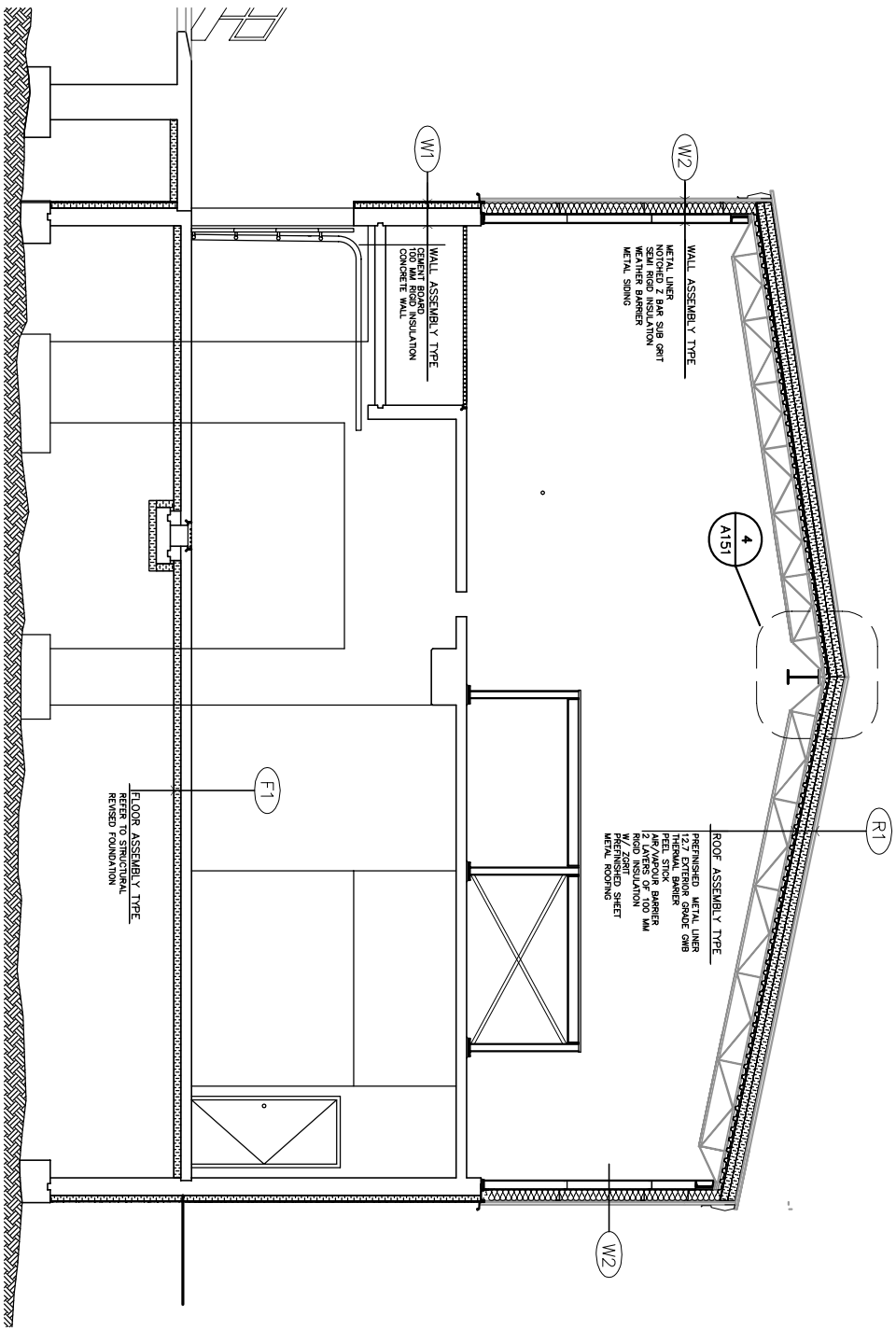
Design	
Drawn	
Approved	
Checked	
Project Title	
CITY OF IqALUIT WASTEWATER TREATMENT PLANT PHASE 1	
Drawing Title	

SECTIONS

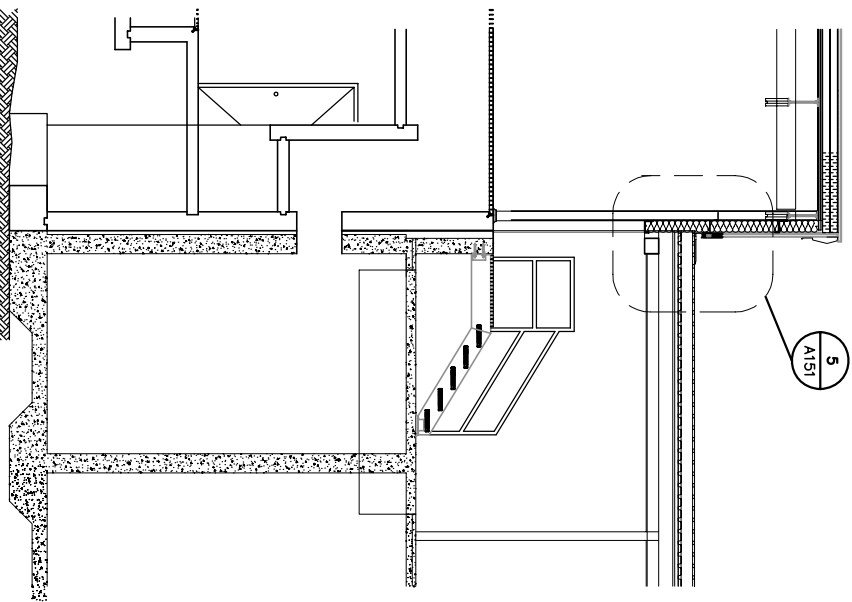
Scale	Date
Project No.	07.03.05
75360	
Drawing No.	Revision
A142	4



1 SECTION A  
A142 SCALE = 1:50



2 SECTION B  
A142 SCALE = 1:50



3 SECTION C  
A142 SCALE = 1:50

Livingstone  
Architect

P.O. BOX 11186  
104LUTITE, Nunavut X0A 0H0  
Ph: 867 979-4180, Fax: 867 979-3991  
Email: larch@gnanet.com

Stamp

RECORD DRAWING	
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: KUDLUK CONSTRUCTION LTD. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.	
08/5/19	RECORD DRAWING
05/6/14	ISSUED FOR CONSTRUCTION
05/3/7	TENDER
04/10/15	95%

No	Date	Description
REVISIONS		
4	08/5/19	RECORD DRAWING
3	05/6/14	ISSUED FOR CONSTRUCTION
2	05/3/7	TENDER
1	04/10/15	95%

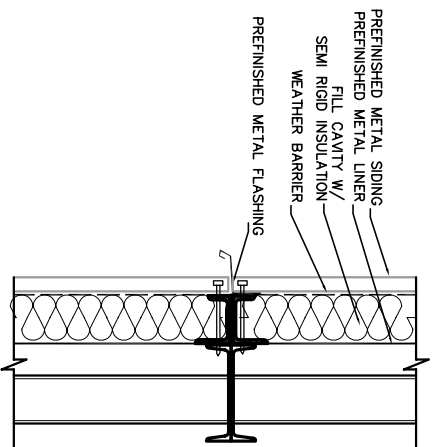
Design	TENDER
Drawn	M.M
Approved	
Checked	

Project Title  
CITY OF IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

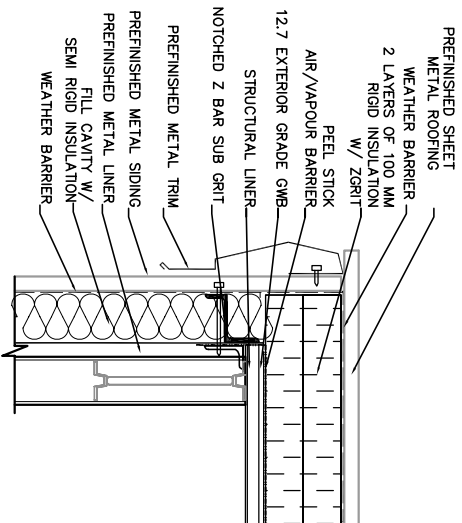
Drawing Title

DETAILS

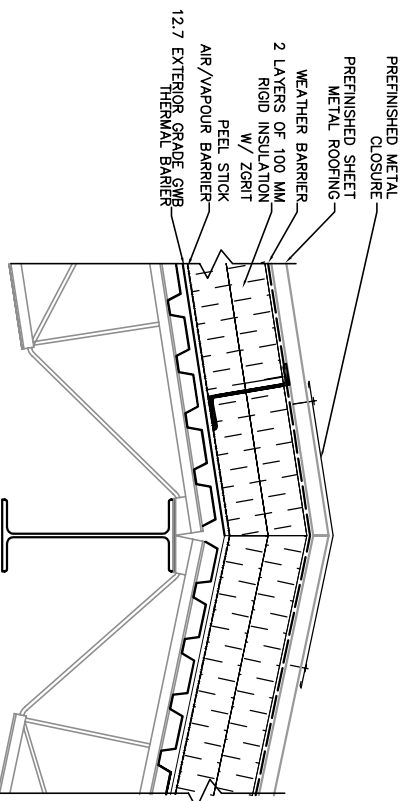
Scale	Date
Project No. 75360	07.03.05
Drawing No. A151	Revision 4



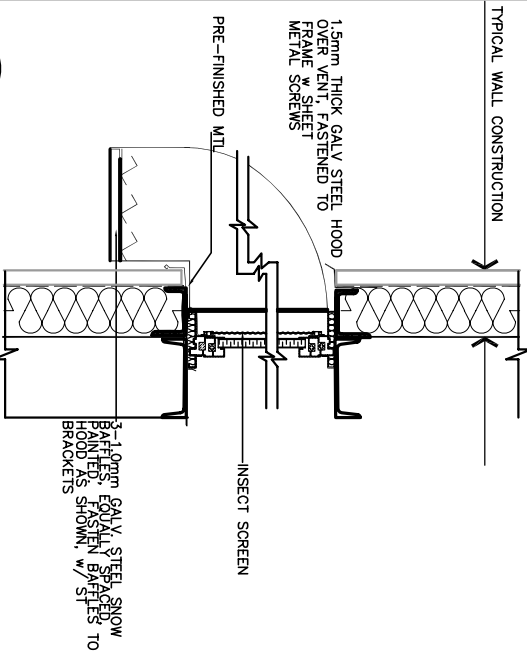
2 DETAIL #2  
A151 SCALE = 1:50



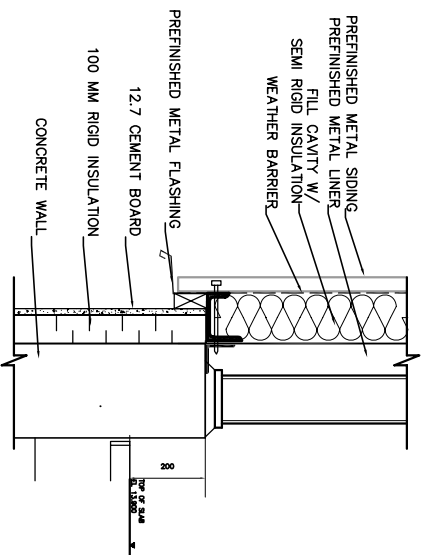
4 DETAIL #4  
A151 SCALE = 1:50



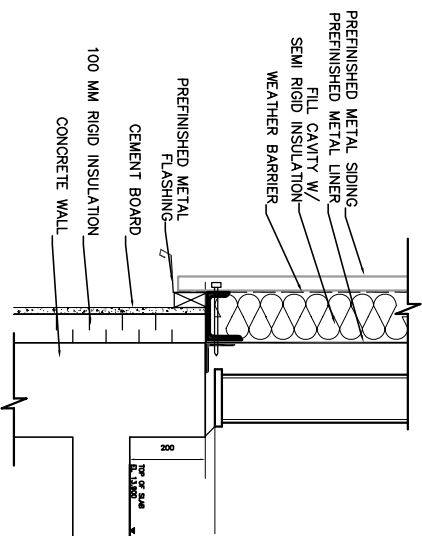
6 TYPICAL WALL PENETRATION DETAIL  
A151 SCALE = 1:50



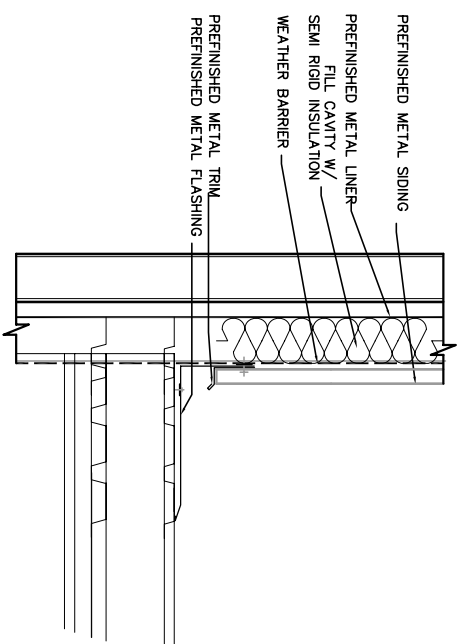
1 REMOVEABLE PANEL DETAIL #1  
A151 SCALE = 1:50



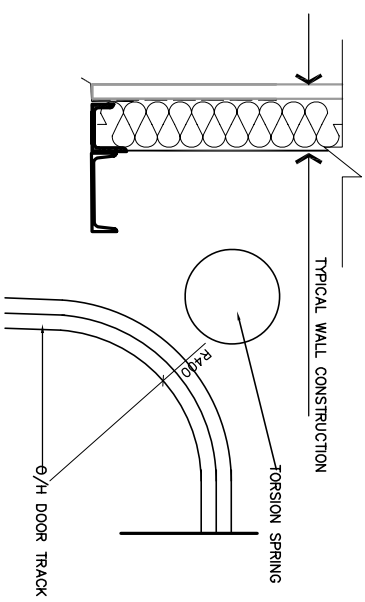
3 DETAIL #3  
A151 SCALE = 1:50



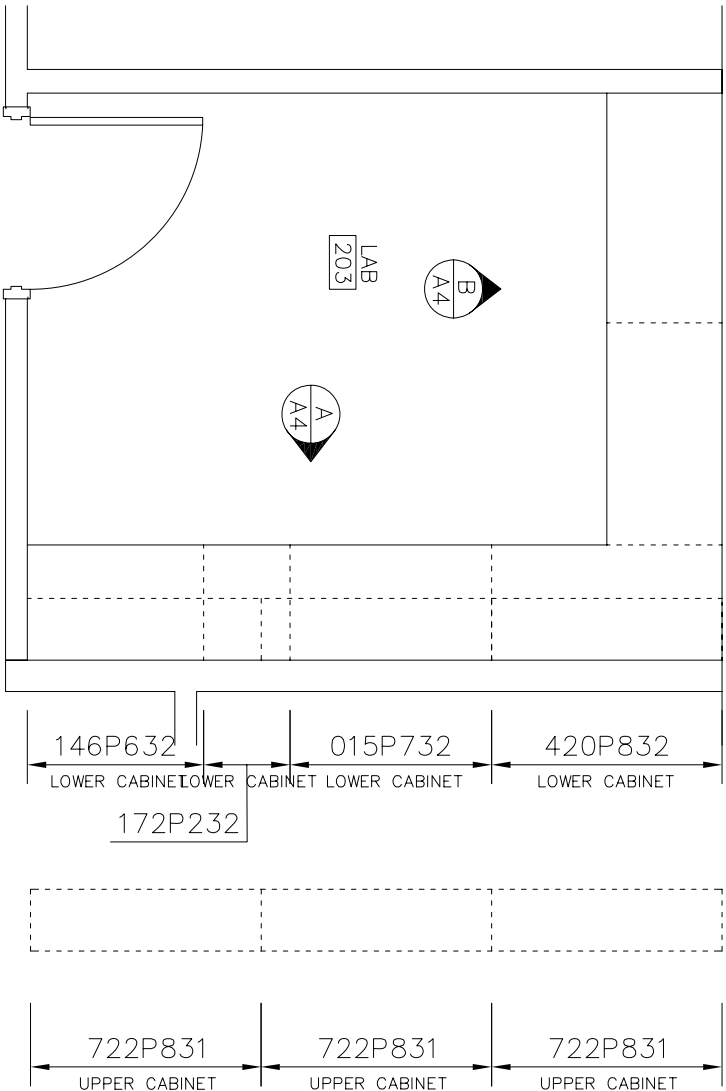
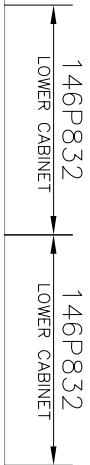
5 DETAIL #5  
A151 SCALE = 1:50



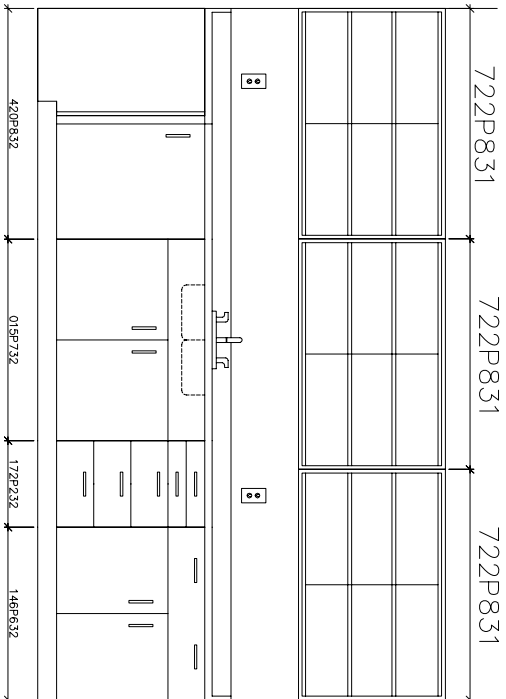
7 OVERHEAD DOOR SECTION  
A151 SCALE = 1:50



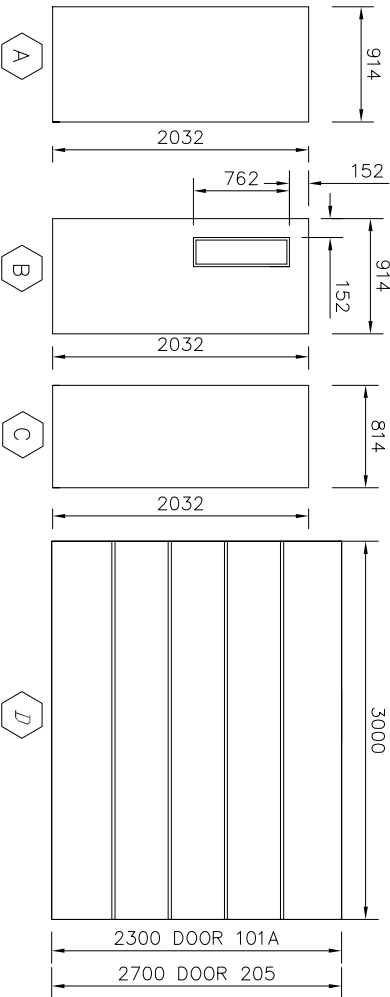
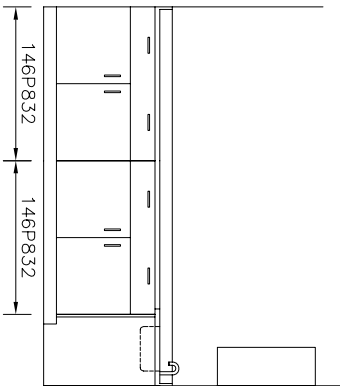




1 LAB PLAN  
A152 SCALE = 1:20



2 MILL WORK ELEVATION A  
A152 SCALE = 1:20



3 MILL WORK ELEVATION B  
A152 SCALE = 1:30

4 DOORS TYPE  
A152 SCALE = 1:30

FLOOR LEVEL	DOOR SCHEDULE														HAND- GROUP				
	DOOR/F SCREEN			DOOR			FRAME			FIRE		REMARKS							
ROOM NAME	RM. NO.	MARK	WIDTH	HEIGHT	CONST.	FACE	FINISH	TYPE	CLASS	MAT.	FINISH		NUMBER	RATING	LABEL				
HEAD WORK LEVEL 1	101	101	914	2032	1	HM	M	PTD	A	-	1BHM	PTD	-	-					
HEAD WORK LEVEL 1	101	101A	3000	2032	1	HM	M	PTD	D	-	1BHM	PTD	-	3/4 hr					
HEAD WORK LEVEL 1	101	101B	3000	2032	1	HM	M	PTD	B	GMC	HM	PTD	-	3/4 hr					
STAR LOBBY	102	102	914	2032	1	HM	M	PTD	B	GMC	HM	PTD	-	3/4 hr					
STAR LOBBY	102	102A	914	2032	1	HM	M	PTD	A	-	1BHM	PTD	-	-					
STAR	201	201	914	2032	1	HM	M	PTD	B	GMC	HM	PTD	-	3/4 hr					
HEAD WORK LEVEL 2	201	202	914	2032	1	HM	M	PTD	B	GMC	HM	PTD	-	3/4 hr					
ELECTRICAL RM.	203	203	914	2032	1	HM	W	PTD	A	-	1BHM	PTD	-	3/4 hr					
LAB	204	204	914	2032	1	HM	W	PTD	A	-	1BHM	PTD	-	-					
VESTIBULE	205	205	914	2032	1	HM	M	PTD	A	-	1BHM	PTD	-	-					
EXISTING MAZINE	206	205	3000	2700	1	HM	M	PTD	D	-	1BHM	PTD	-	-					
DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE	DOOR SCHEDULE					
MATERIAL AND FINISHES	HM - HOLLOW METAL	PTD - PAINT	DOOR GLASS MATERIAL/ANISH											GLASS	DOOR - GLASS	WOOD GLASS	RM - HOLLOW METAL	1BHM - HOLLOW METAL	THBM - HOLLOW METAL (THERMAL PROTECT)




Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KODLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 05/14	ISSUED FOR CONSTRUCTION
0	2005 02/04	ISSUED FOR TENDER

REVISIONS

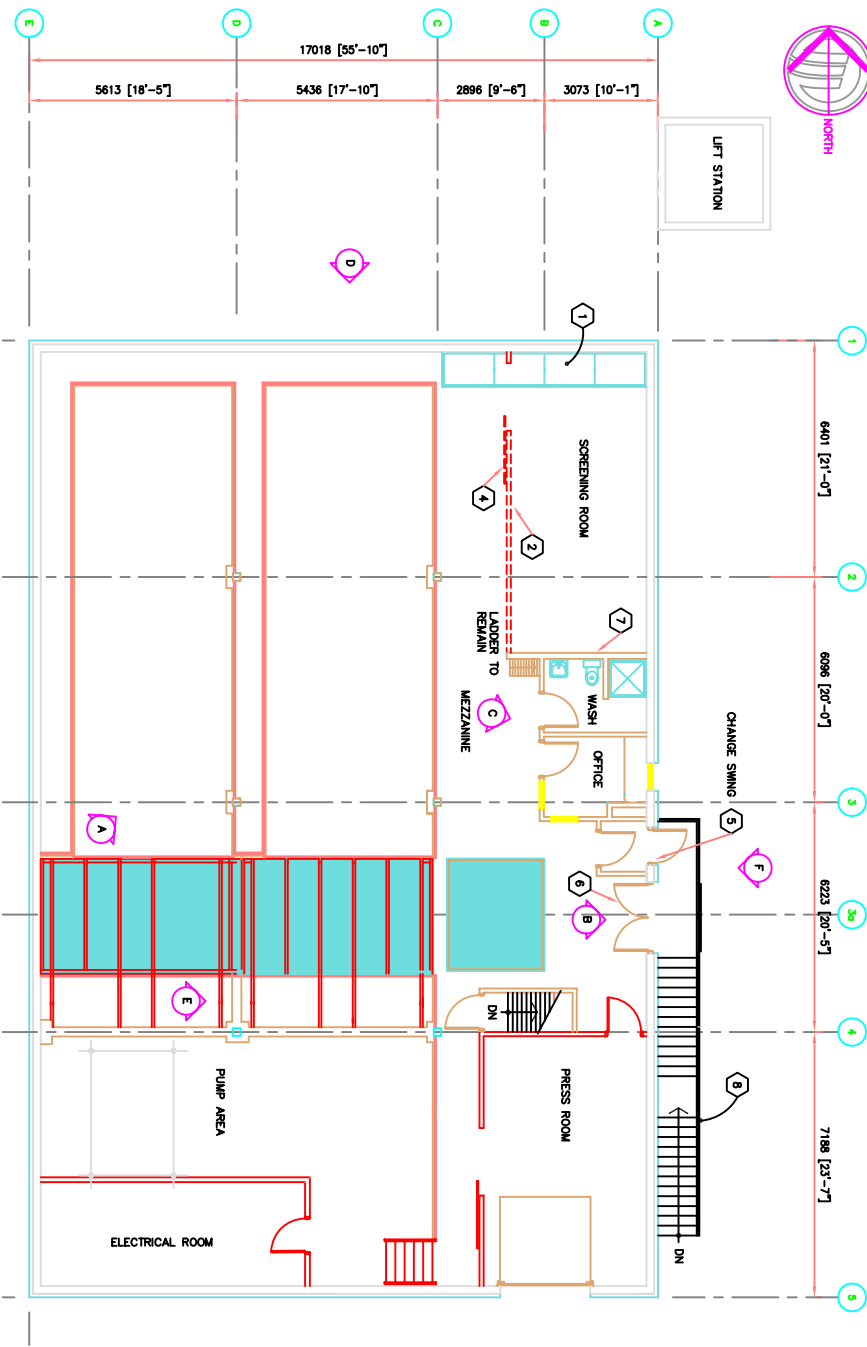
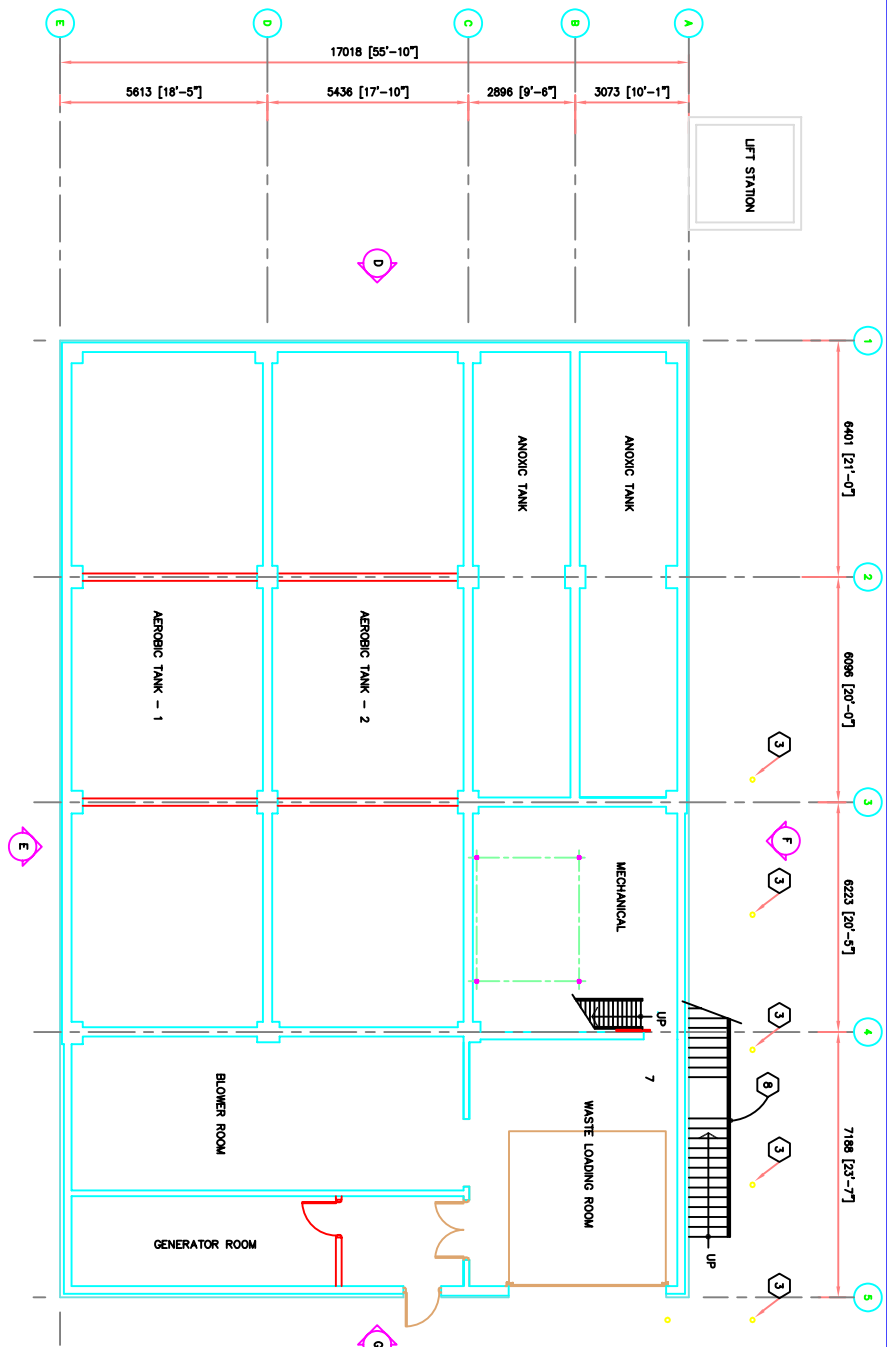
**CITY of IQALUIT,**  
Nunavut

Design	R&G
Drawn	NV
Approved	
Checked	
Project Title	CITY of IQALUIT WASTEWATER TREATMENT PLANT PHASE 1

**STRUCTURAL  
DEMOLITION PLANS**

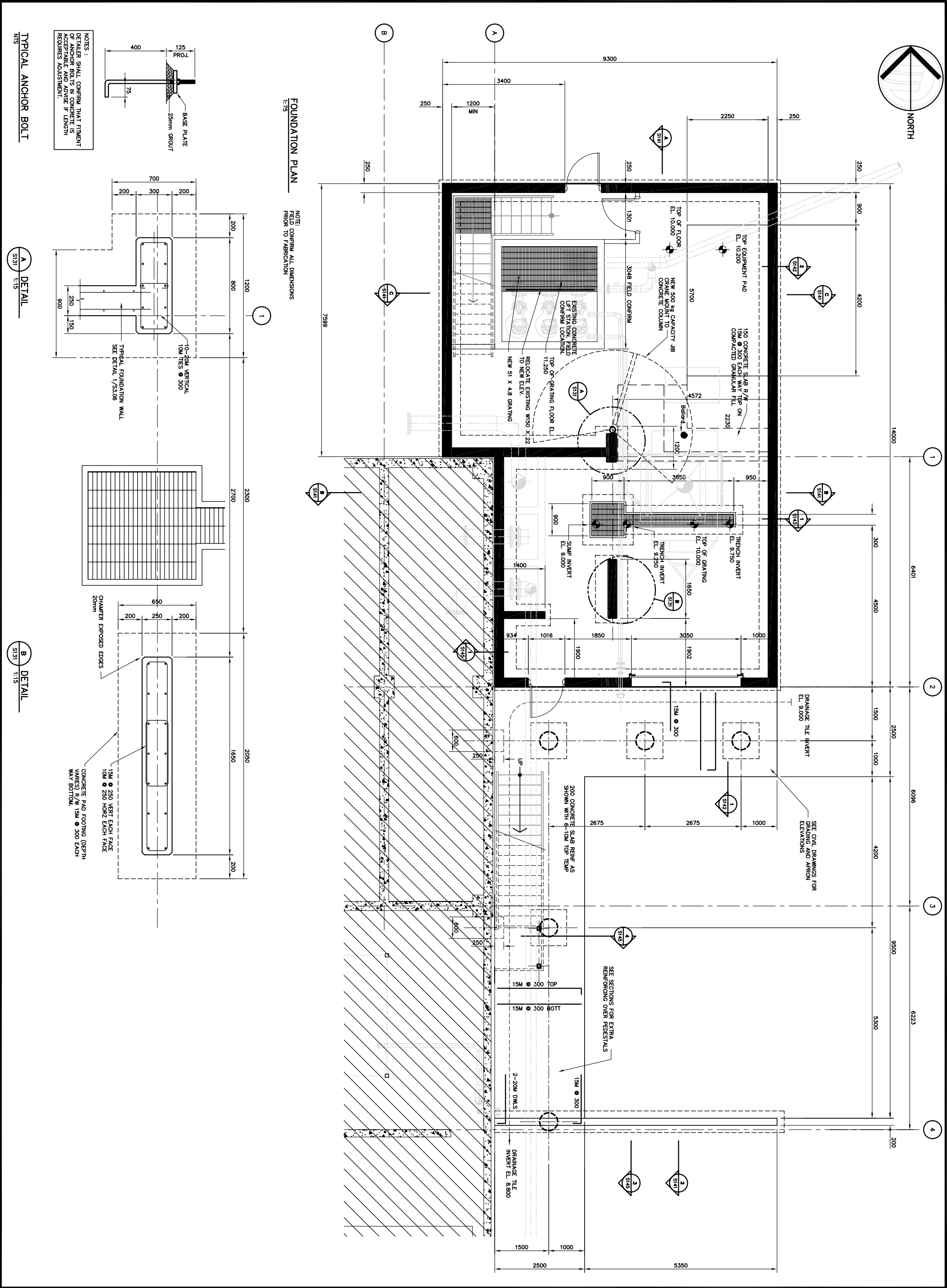
Scale	AS NOTED	Date
Project No.	75380	08.03.05
Drawing No.	<b>S102</b>	Revision <b>2</b>


- DEMOLITION KEYNOTES**
- 1 EXISTING ALUMINUM ACCESS COVERS TO REMAIN
  - 2 REMOVE EXISTING METAL STUD WALL COMPLETE
  - 3 EXISTING METAL BOLLARD TO BE REMOVED
  - 4 EXISTING SLIDING DOOR AND TRACK TO BE REMOVED
  - 5 EXISTING DOOR AND FRAME TO BE REMOVED
  - 6 REMOVE EXISTING DOUBLE DOOR AND FRAME ENLARGE OPENING TO SUIT NEW OVERHEAD DOOR. SEE DETAIL 3/5143
  - 7 SEE ARCHITECTURAL FOR DEMOLITION OF LAB AND OFFICE
  - 8 EXISTING EXTERIOR STAIR TO BE REMOVED AND MODIFIED SEE DETAIL C/5134 FOR DETAILS











**EarthTech**  
A 100% sustainable construction company

17203-103rd Avenue  
Edmonton, Alberta  
T5S 1A4 CANADA

Tel: 780-486-6800  
Fax: 780-486-2121  
www.earthtech.ca

**RECORD DRAWING**

INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

2	03/11	RECORD DRAWING
1	06/14	ISSUED FOR CONSTRUCTION
0	03/04	ISSUED FOR TENDER
No	Date	Description

REVISIONS

**Design** RUG

**Drawn** NV

**Approved**

**Checked**

**Project Title**  
CITY OF IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

**Drawing Title**  
STRUCTURAL  
FOUNDATION  
PLAN

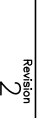
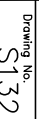
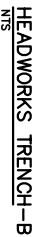
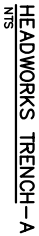
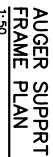
Scale  
AS NOTED

Project No.  
75360

Drawing No.  
S131

Date  
08.03.05

Revision  
3



BEAM SCHEDULE							
TYPE	WIDTH	DEPTH	REINFORCEMENTS			STIRRUPS	REMARKS
			TOP	MID.	BOT.		
B1	800	500	6-25M	-	6-25M	10M @ 300	
B2	200	1950	2-20M	10M @ 250	2-20M	10M @ 300	
B3	200	1400/1830	2-25M	10M @ 250	2-25M	10M @ 300	
B4	200	1400	2-25M	10M @ 250	2-25M	10M @ 300	
B5	250	1100	2-20M	10M @ 250	2-20M	10M @ 300	
B6	200	900	2-20M	10M @ 250	2-20M	10M @ 300	
B7	200	2450	2-20M	10M @ 250	2-20M	10M @ 300	
B8	200	2450	2-20M	10M @ 250	2-20M	10M @ 300	
B9	200	200	-	-	-	-	C130 X 10
B10	250	1830	2-25M	10M @ 250	2-25M	10M @ 300	
B11	800	500	6-25M	-	6-25M	10M @ 280	
B12	400	500	4-20M	-	6-25M	10M @ 300	



**A Type International Ltd. Company**

172203-103rd Avenue  
EDMONTON, ALBERTA  
T5S 1J4 CANADA

**Tel. 780-488-6800**  
**Fax. 780-488-2121**  
**[www.eorthtech.ca](http://www.eorthtech.ca)**

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KUDLIK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

REVISIONS	No.	Date	Description
	2	2006 05/11	RECORD DRAWING
	1	2005 06/14	ISSUED FOR CONSTRUCTION
	0	2005 03/04	ISSUED FOR TENDER

**Iqaluit**  
  
CITY of IQALUIT,  
Nunavut

# STRUCTURAL MAIN FLOOR PLAN

**Project Title**  
**CITY OF IQUALUIT**  
**WASTEWATER**  
**TREATMENT PLANT**  
**PHASE 1**

### Drawing Title

## NOTE

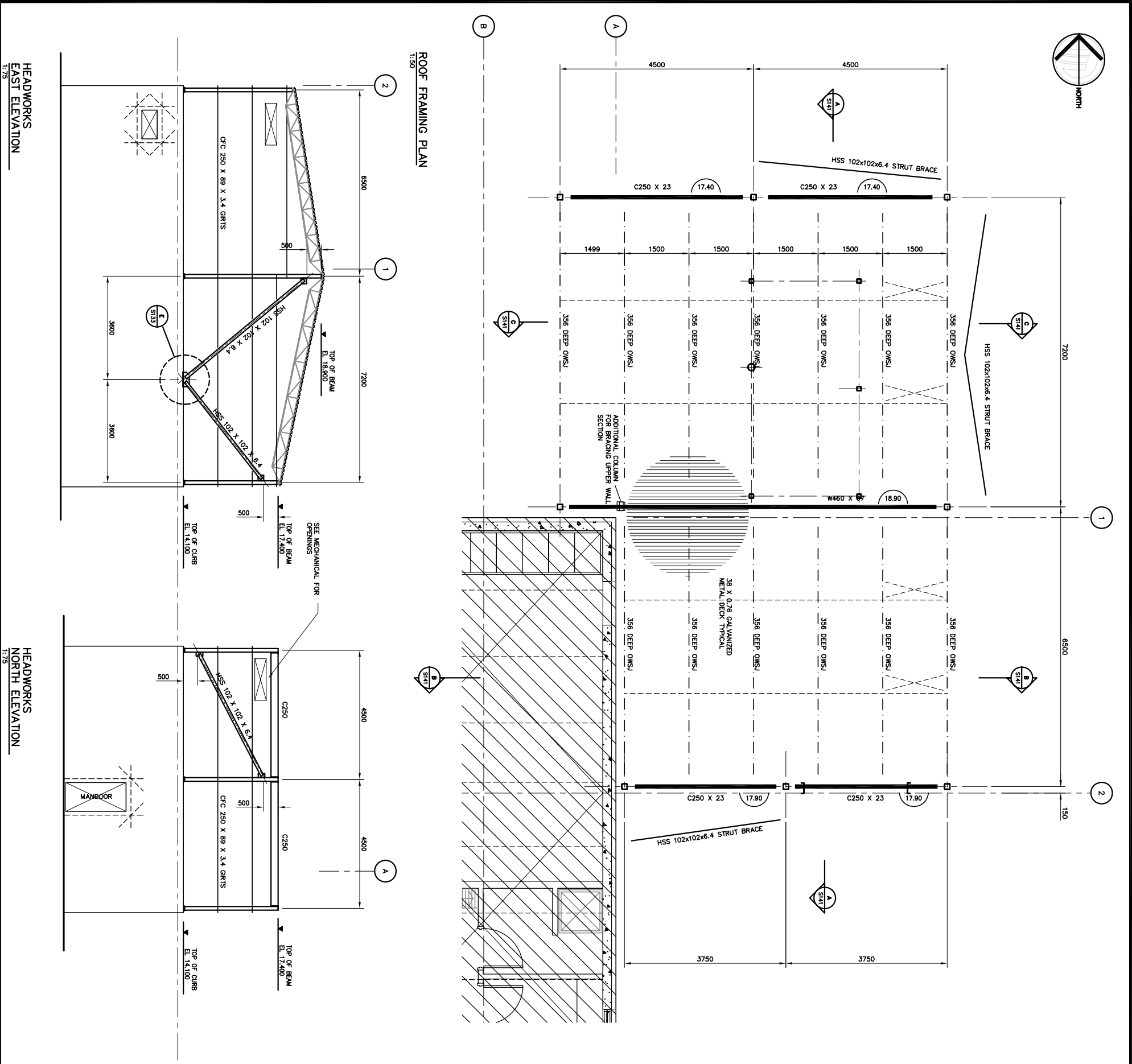
Project No

Date \_\_\_\_\_

### Following NC

Revision

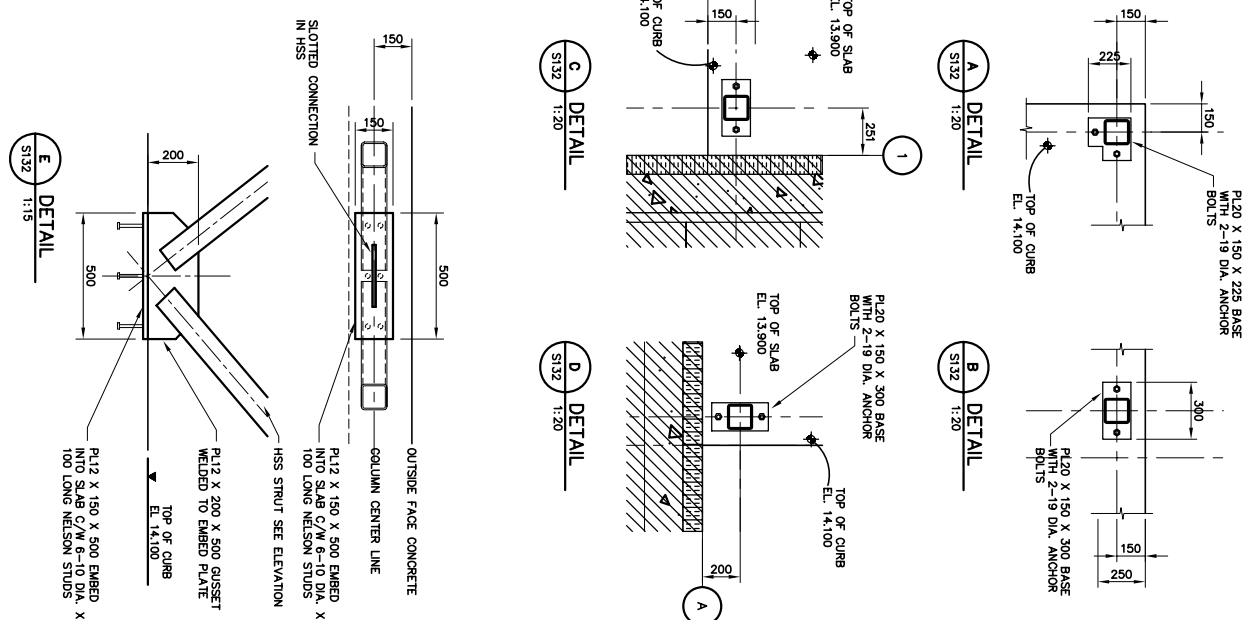
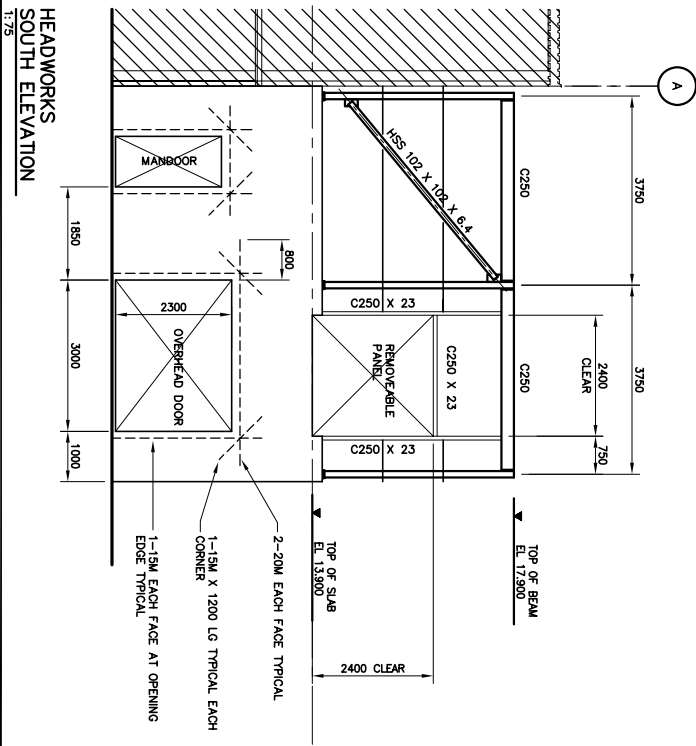




HEADWORKS  
EAST ELEVATION  
1:7.5

HEADWORKS  
NORTH ELEVATION  
1:7.5

HEADWORKS  
SOUTH ELEVATION  
1:7.5



**EarthTech**  
A Proven Solution for Life's Challenges

17203-103rd Avenue  
EDMONTON, ALBERTA  
T6S 1A4 CANADA

Tel. 780-488-6900  
Fax. 780-488-2121  
www.earthtech.ca

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED BY THE USER.  
ACTUAL LOCATION BEFORE USE.

2	03/11	RECORD DRAWING
1	06/14	ISSUED FOR CONSTRUCTION
0	03/04	ISSUED FOR TENDER
No.	Date	Description

**REVISIONS**

**Stamp**

**Design**  
Drawn  
Approved  
Checked

**Project Title**  
CITY OF IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

**Drawing Title**  
STRUCTURAL  
ROOF FRAMING

**Scale**  
AS NOTED

**Project No.**  
75360

**Date**  
08.03.05

**Revision**  
2

Stamp

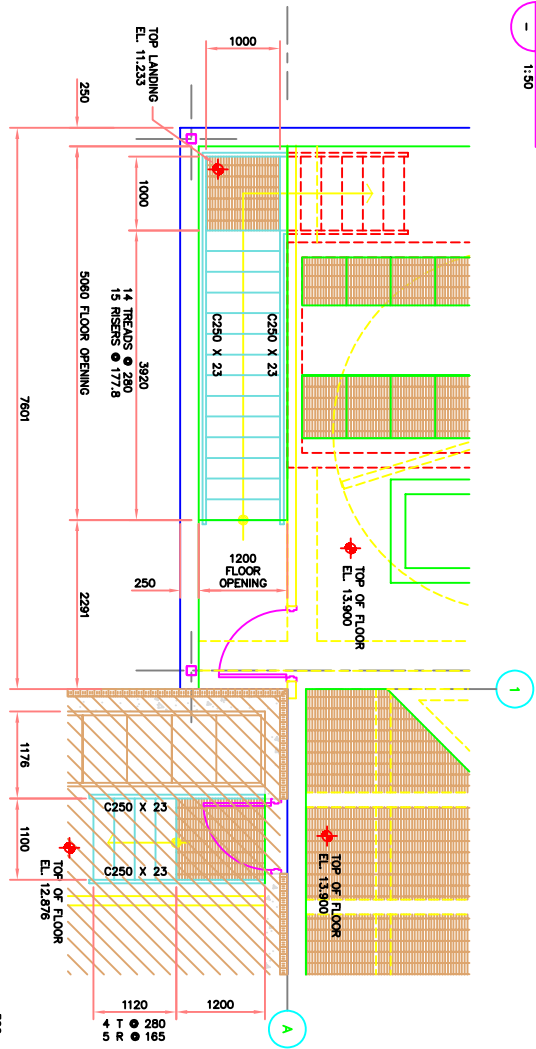
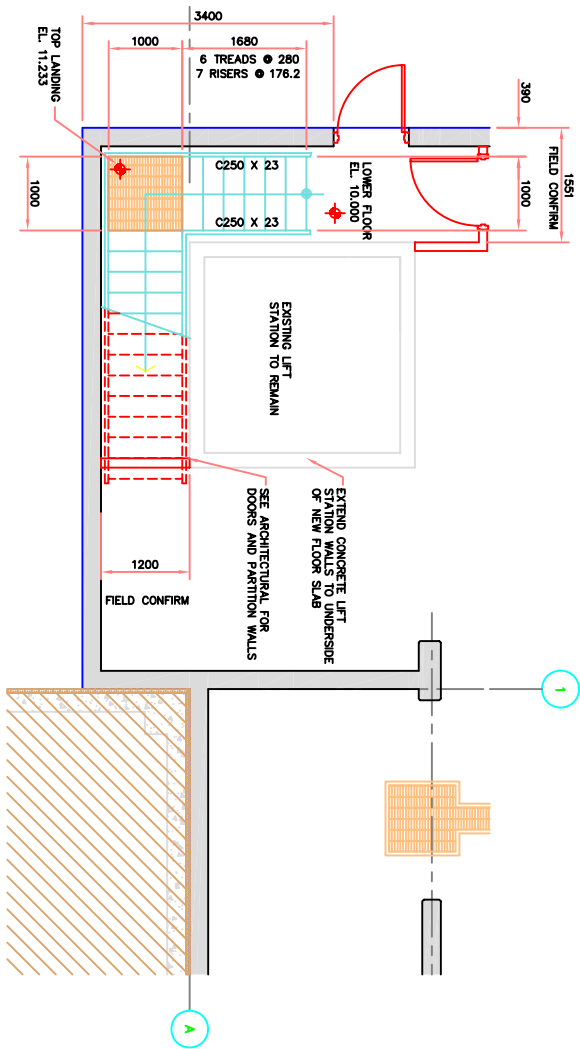
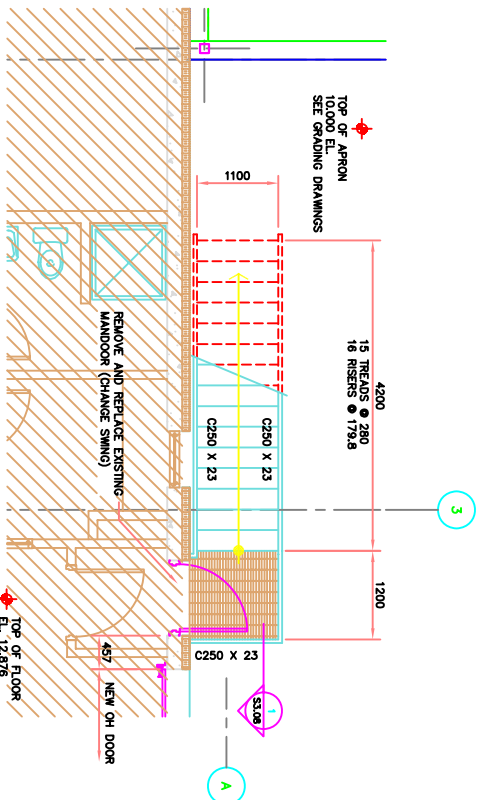
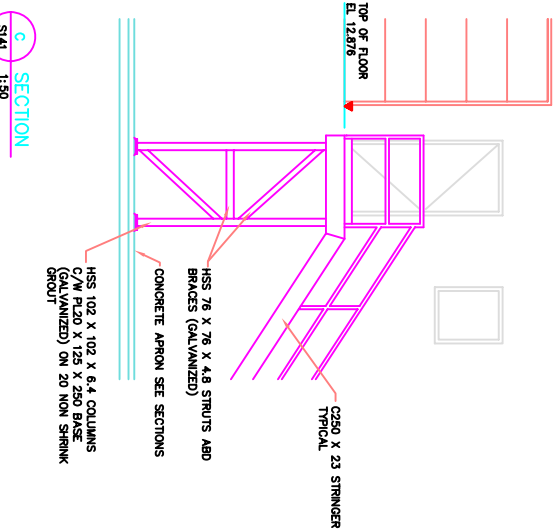
**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KODUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006	RECORD DRAWING
1	2005	ISSUED FOR CONSTRUCTION
0	2005	ISSUED FOR TENDER

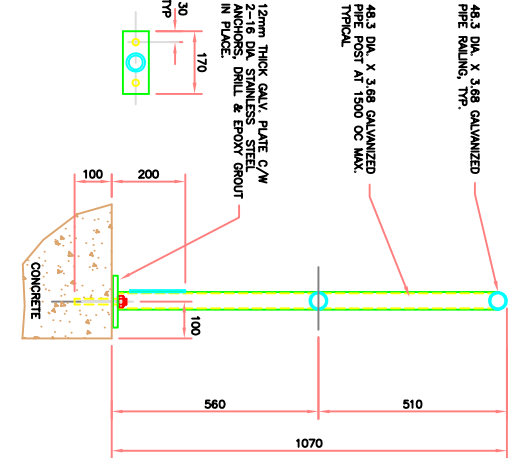
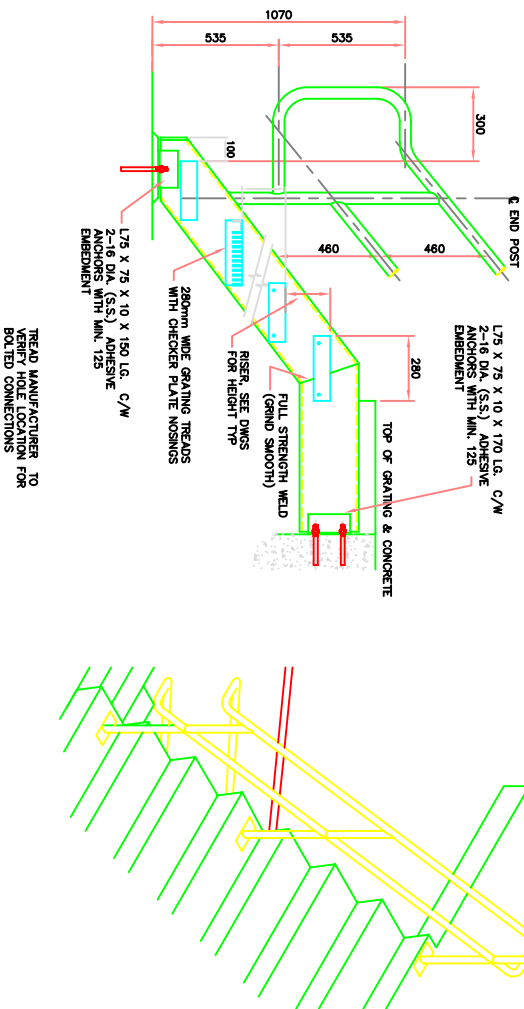
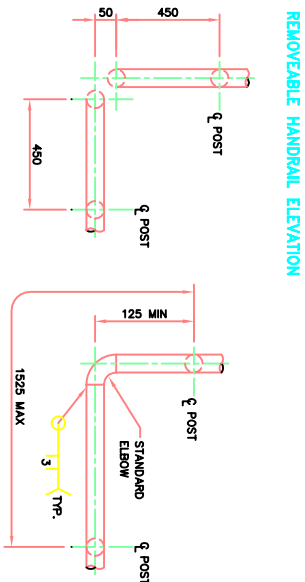
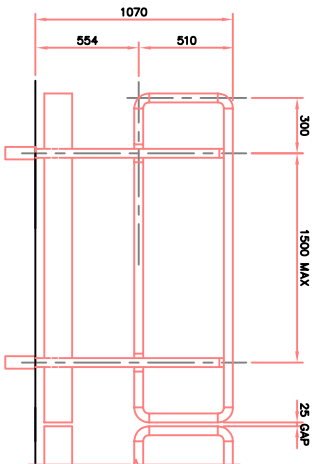
REVISIONS

**Iqaluit**  
CITY of IQALUIT,  
Nunavut

Design	RAG
Drawn	NV
Approved	
Checked	
Project Title	CITY of IQALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	STRUCTURAL STAIR AND HANDRAIL DETAILS
Scale	AS NOTED
Project No.	75360
Date	08.03.05
Drawing No.	S134
Revision	2



HANDRAIL DESIGNED TO THE FOLLOWING:  
1. 0.8 kN POINT LOAD APPLIED TO TOP RAIL AT ANY POINT AND IN ANY DIRECTION OR NOTE 2.  
2. 1.5 kN/m APPLIED VERTICALLY ON TOP RAIL



Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED HEREIN IS AS SUPPLIED BY:  
KIDUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 02/04	ISSUED FOR TENDER

REVISIONS

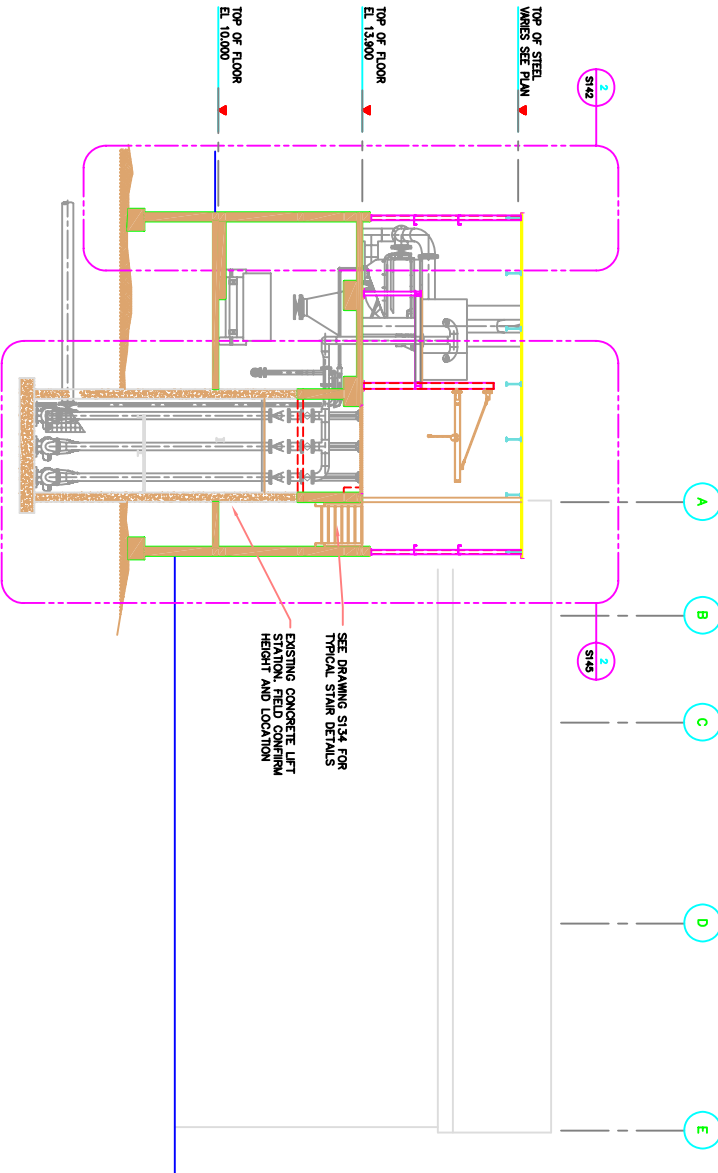
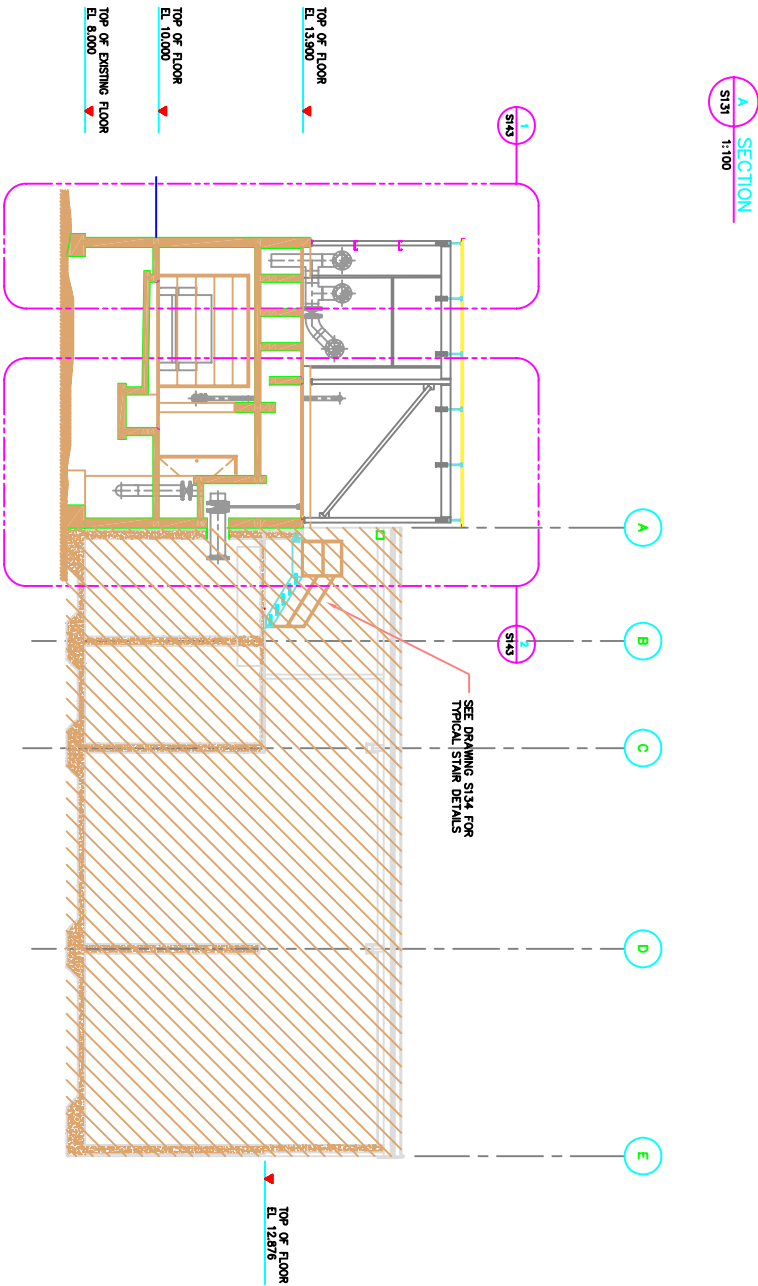
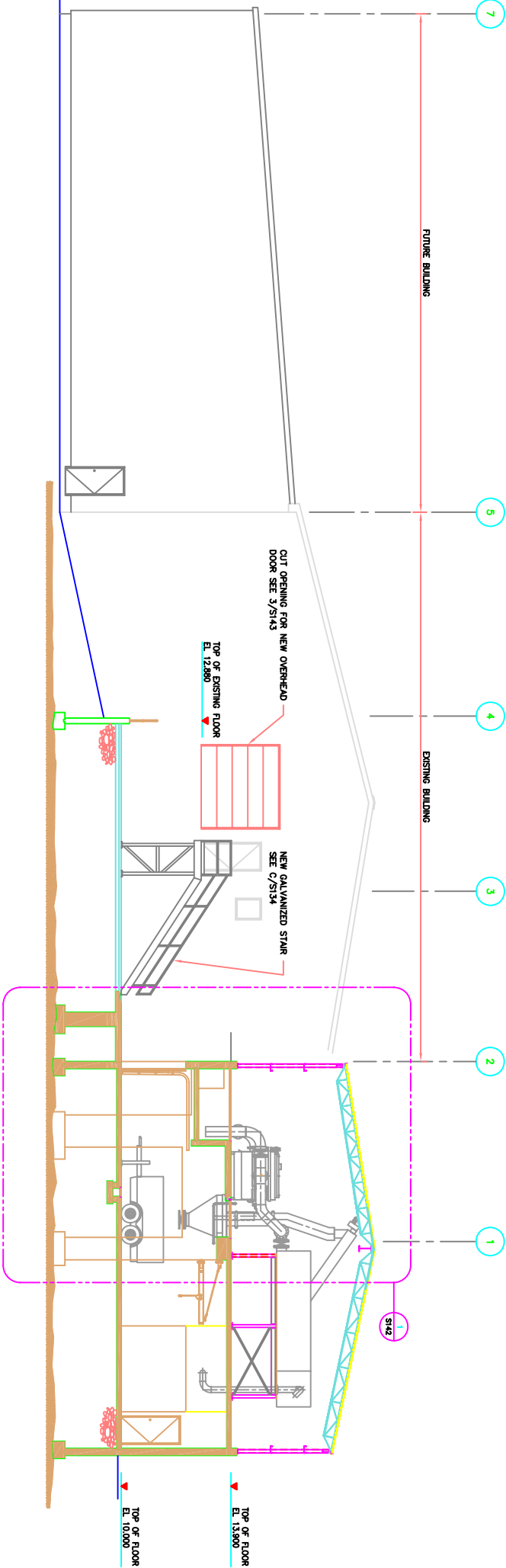
**Iqaluit**  
CITY of IQALUIT,  
Nunavut

Design	RAG
Drawn	NV
Approved	
Checked	

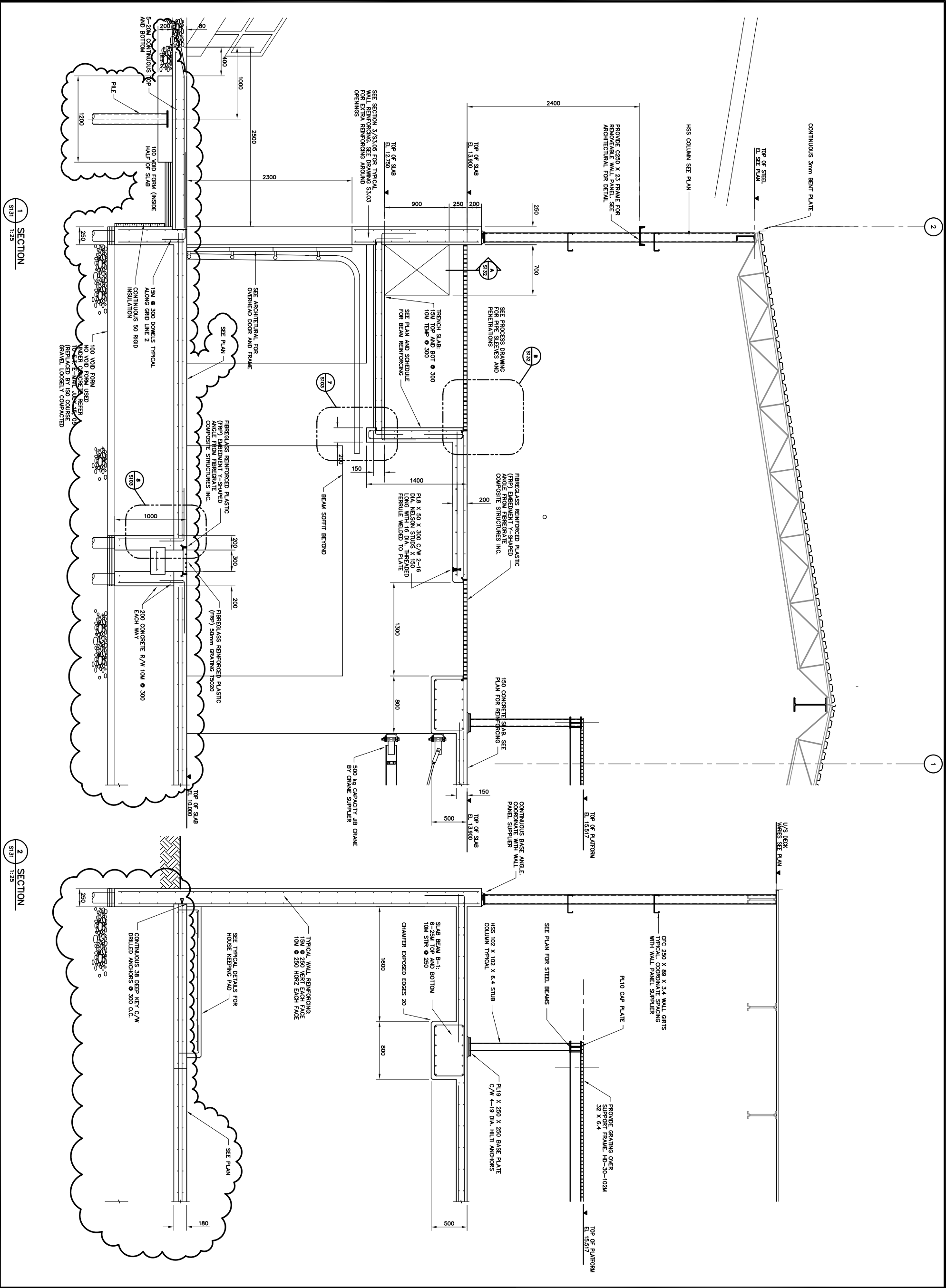
**Project Title**  
CITY of IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

**Drawing Title**  
STRUCTURAL  
BUILDING SECTIONS

Scale	AS NOTED
Project No.	75360
Date	08.03.05
Drawing No.	S141
Revision	2







**EarthTech**  
A 100% sustainable new life for buildings

17203-1034 Avenue  
EDMONTON, ALBERTA  
T5S 1A4 CANADA  
Tel. 780-488-6800  
Fax. 780-488-2121  
www.earthtech.ca

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED BY THE ACTUAL LOCATION BEFORE USE.

3	05/13	RECORD
2	07/15	REVISED FOUNDATION PLAN
1	06/14	ISSUED FOR CONSTRUCTION
0	03/04	ISSUED FOR TENDER
No.	Date	Description

REVISIONS

**Iqaluit**  
CITY OF IQALUIT,  
Nunavut

Design	RUG
Drawn	NV
Approved	
Checked	

Project Title  
CITY OF IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

Drawing Title  
STRUCTURAL  
SECTIONS AND  
DETAILS

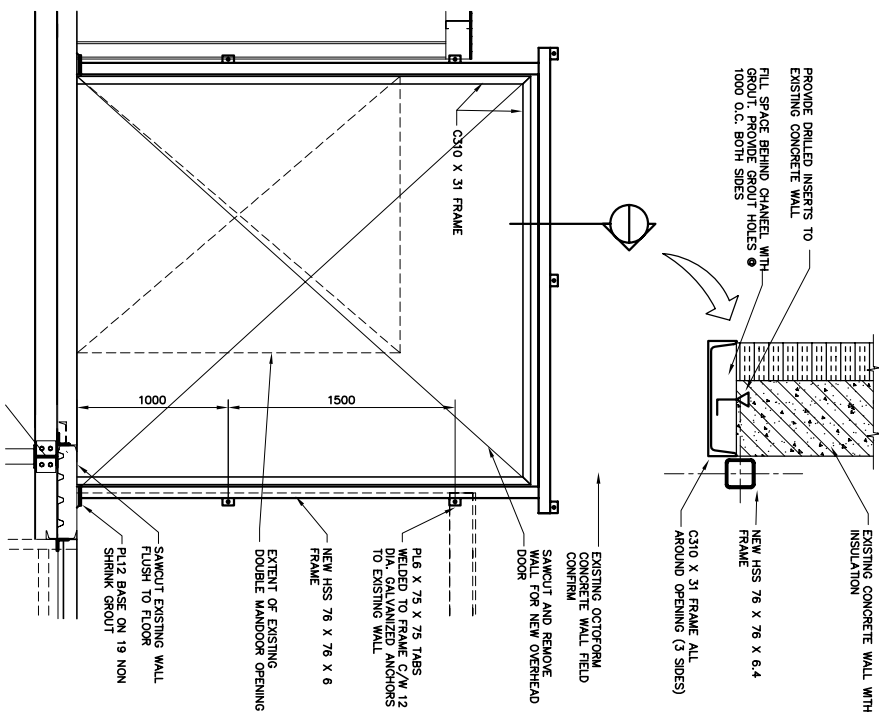
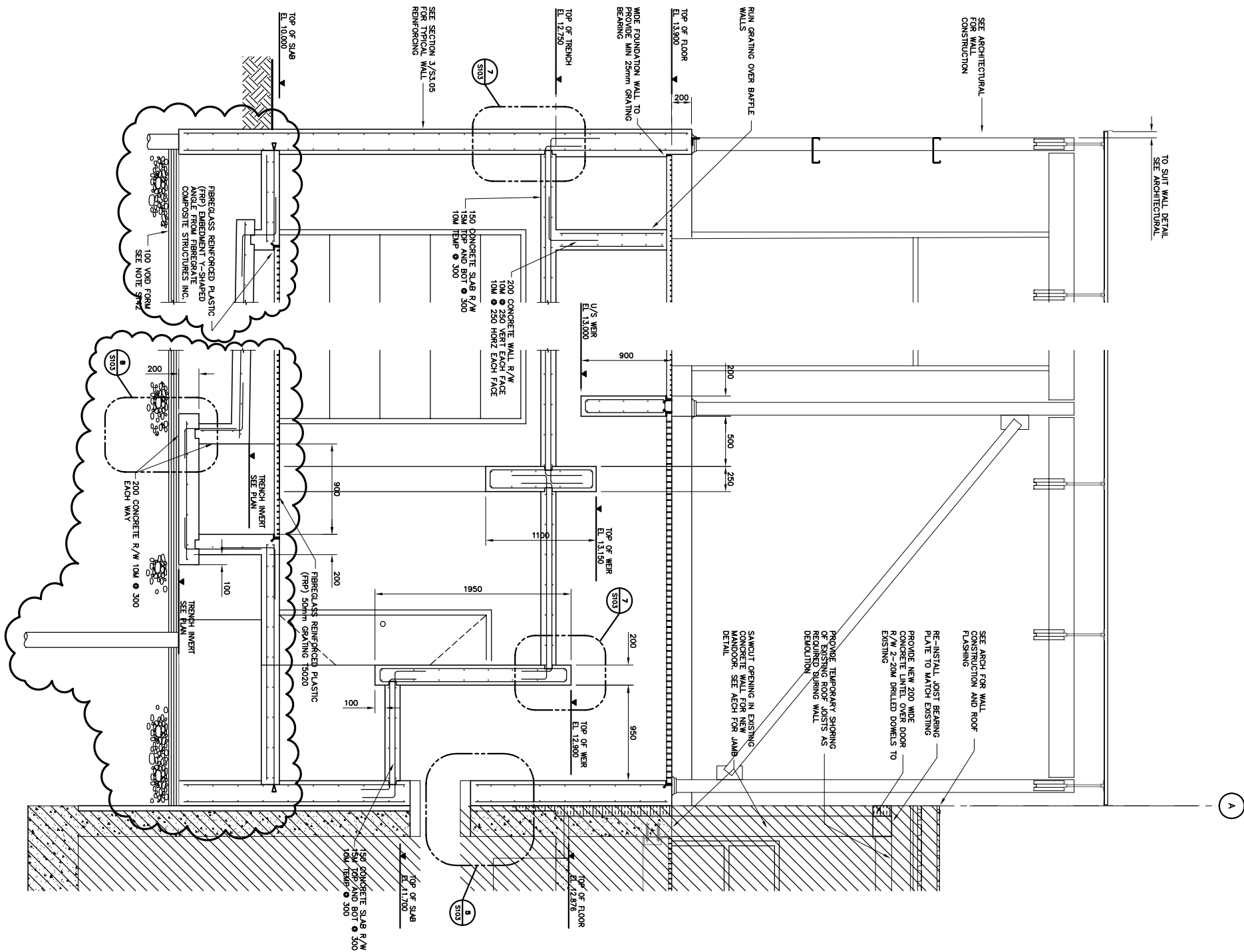
Scale  
AS NOTED

Project No.  
75360

Drawing No.  
S142

Date  
08.03.05

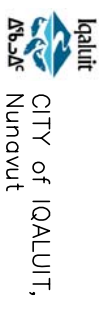
Revision  
3



**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KUDLIK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

3	2006 05/15	RECORD
2	2005 07/15	REVISED FOUNDATION PLAN
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/04	ISSUED FOR TENDER
No.	Date	Description

## REVISIONS

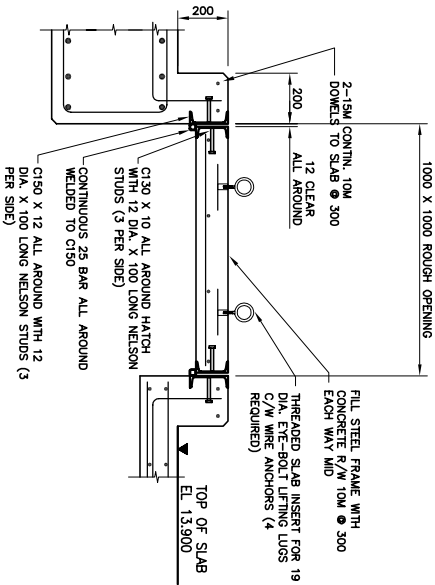
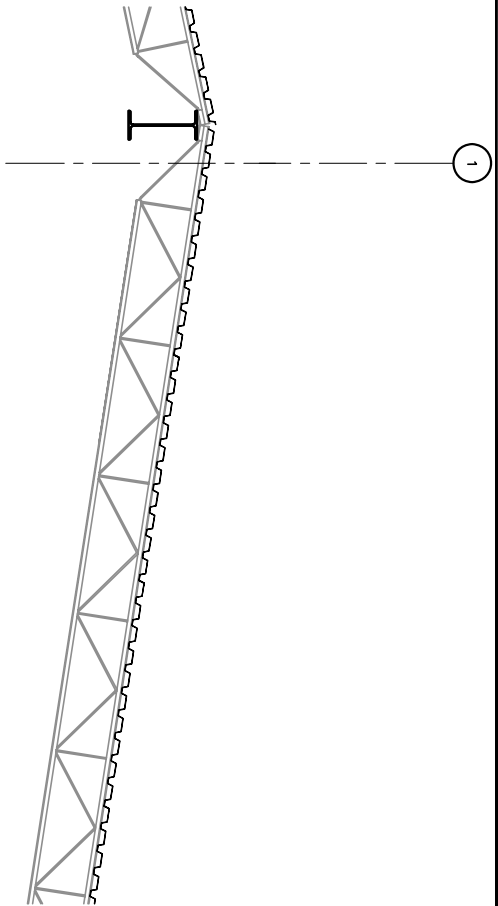
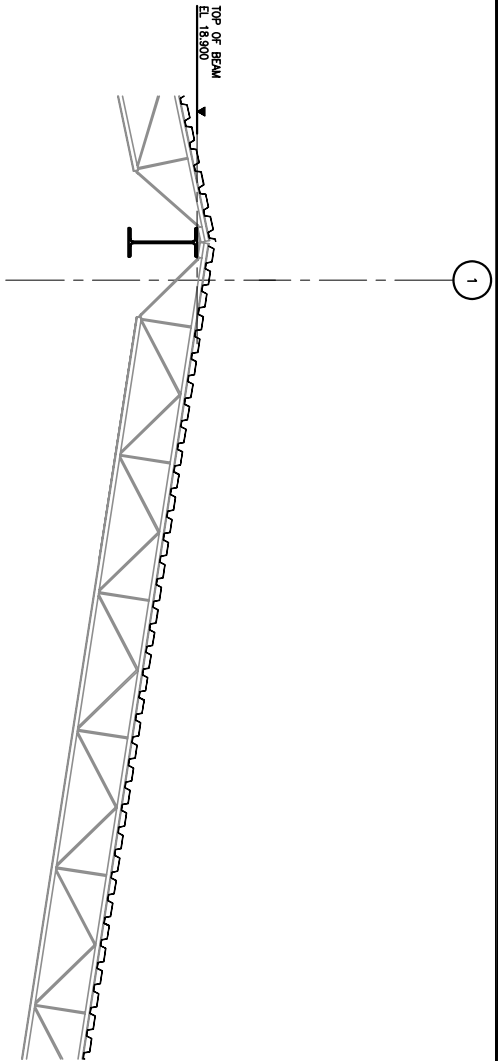


Design	RUG
Drawn	NV
Approved	

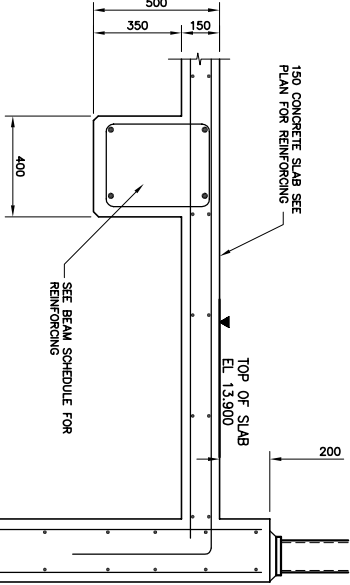
Project Title  
CITY OF IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

## STRUCTURAL SECTIONS AND DETAILS

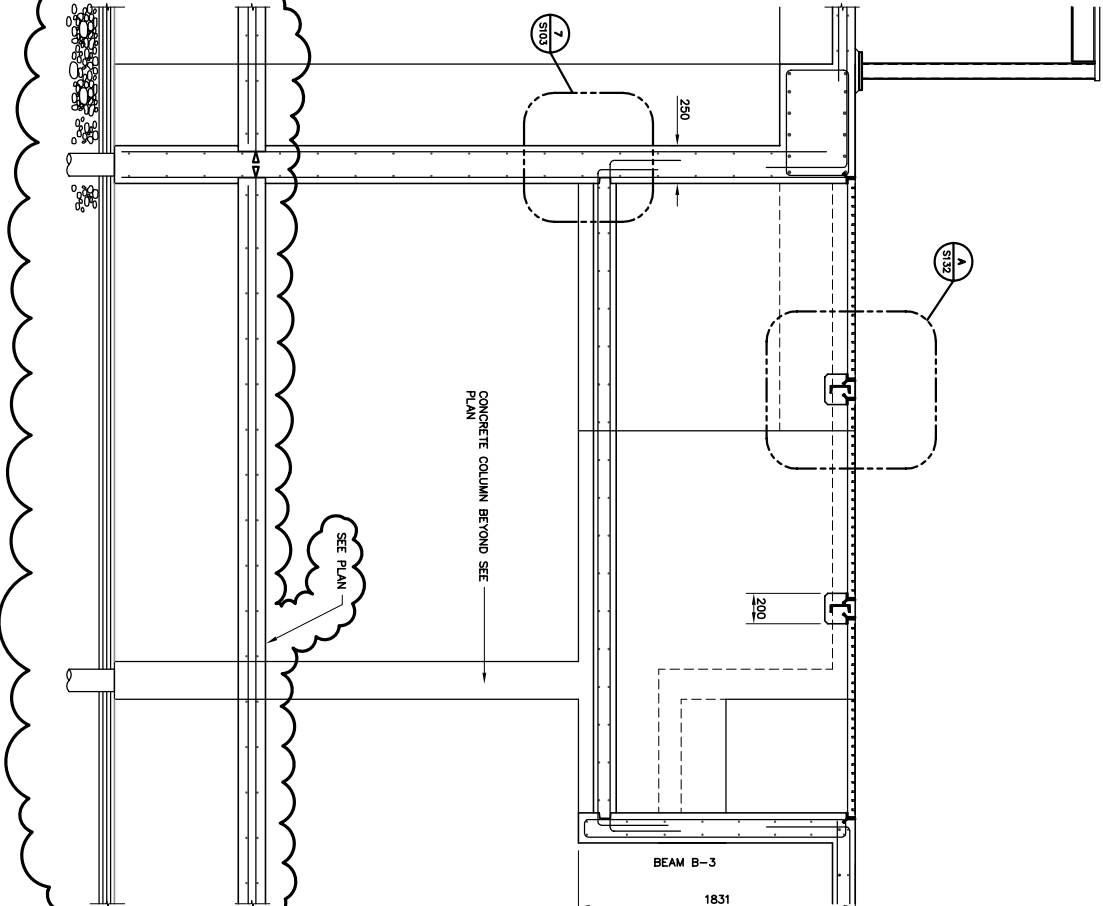
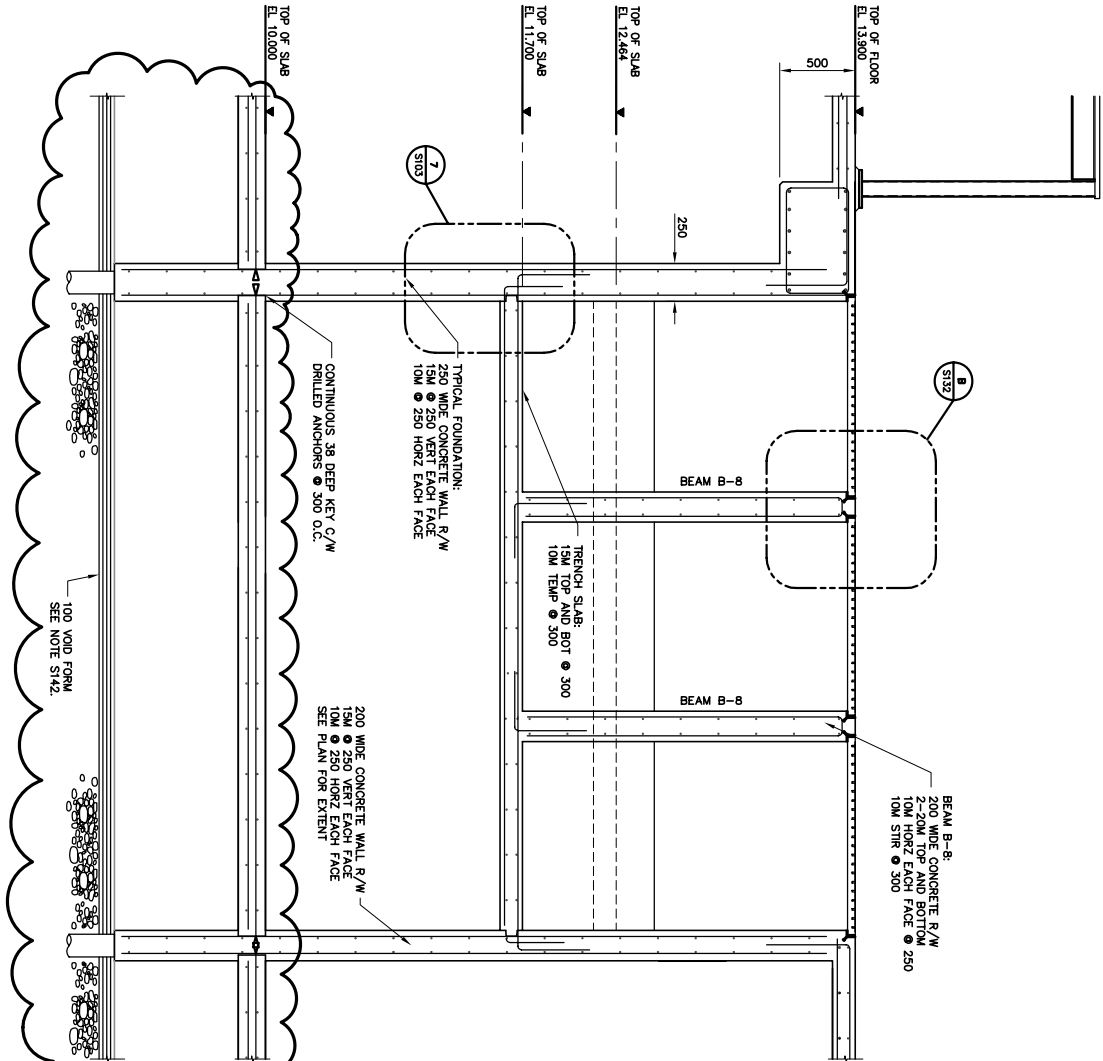
AS NOTED	Date
Project No.	08.03.05
75360	
Drawing No.	Revision
S143	3



SECTION 3  
1:15



SECTION 4  
1:15



SECTION 1  
1:25

SECTION 2  
1:25

RECORD DRAWING	
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: KUDLUK CONSTRUCTION LTD. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE CONFIRMED BY THE ACTUAL LOCATION BEFORE USE.	
No.	Description
3	2006 03/15 RECORD
2	2005 07/15 REVISED FOUNDATION PLAN
1	2005 06/14 ISSUED FOR CONSTRUCTION
0	2005 03/04 ISSUED FOR TENDER

REVISIONS	
No.	Description
3	2006 03/15 RECORD
2	2005 07/15 REVISED FOUNDATION PLAN
1	2005 06/14 ISSUED FOR CONSTRUCTION
0	2005 03/04 ISSUED FOR TENDER

Design	RIG
Drawn	NV
Approved	
Checked	
Project Title CITY OF Iqaluit WASTEWATER TREATMENT PLANT PHASE 1	
Drawing Title STRUCTURAL SECTIONS AND DETAILS	
Scale AS NOTED	Date
Project No. 75360	08.03.05
Drawing No. S144	Revision 3



Stamp

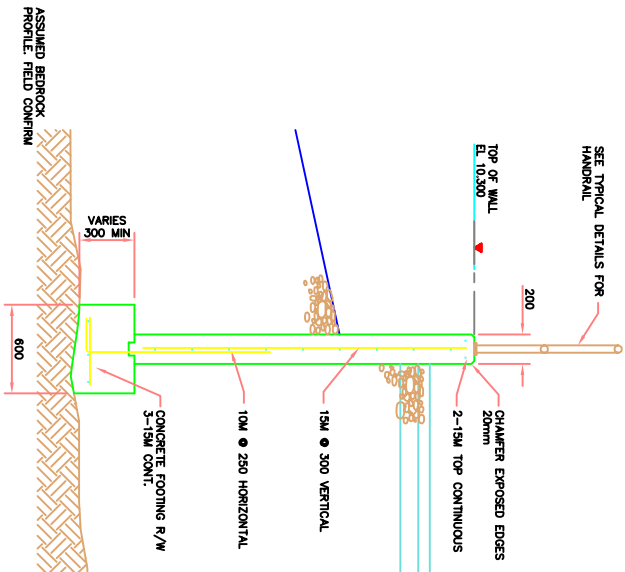
**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KIDUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 05/14	ISSUED FOR CONSTRUCTION
0	2005 02/04	ISSUED FOR TENDER

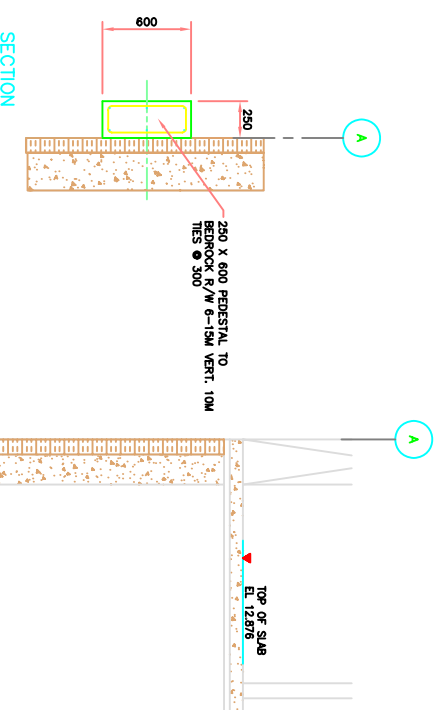
REVISIONS

CITY of IQUALUIT,  
Nunavut

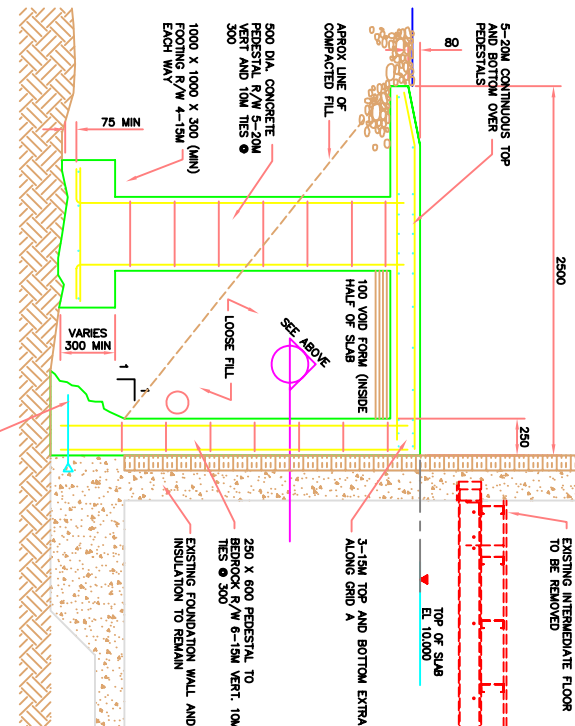
Design	RAG
Drawn	NV
Approved	
Checked	
Project Title	CITY of IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	STRUCTURAL SECTIONS AND DETAILS
Scale	AS NOTED
Project No.	75360
Date	08.03.05
Drawing No.	S145
Revision	2



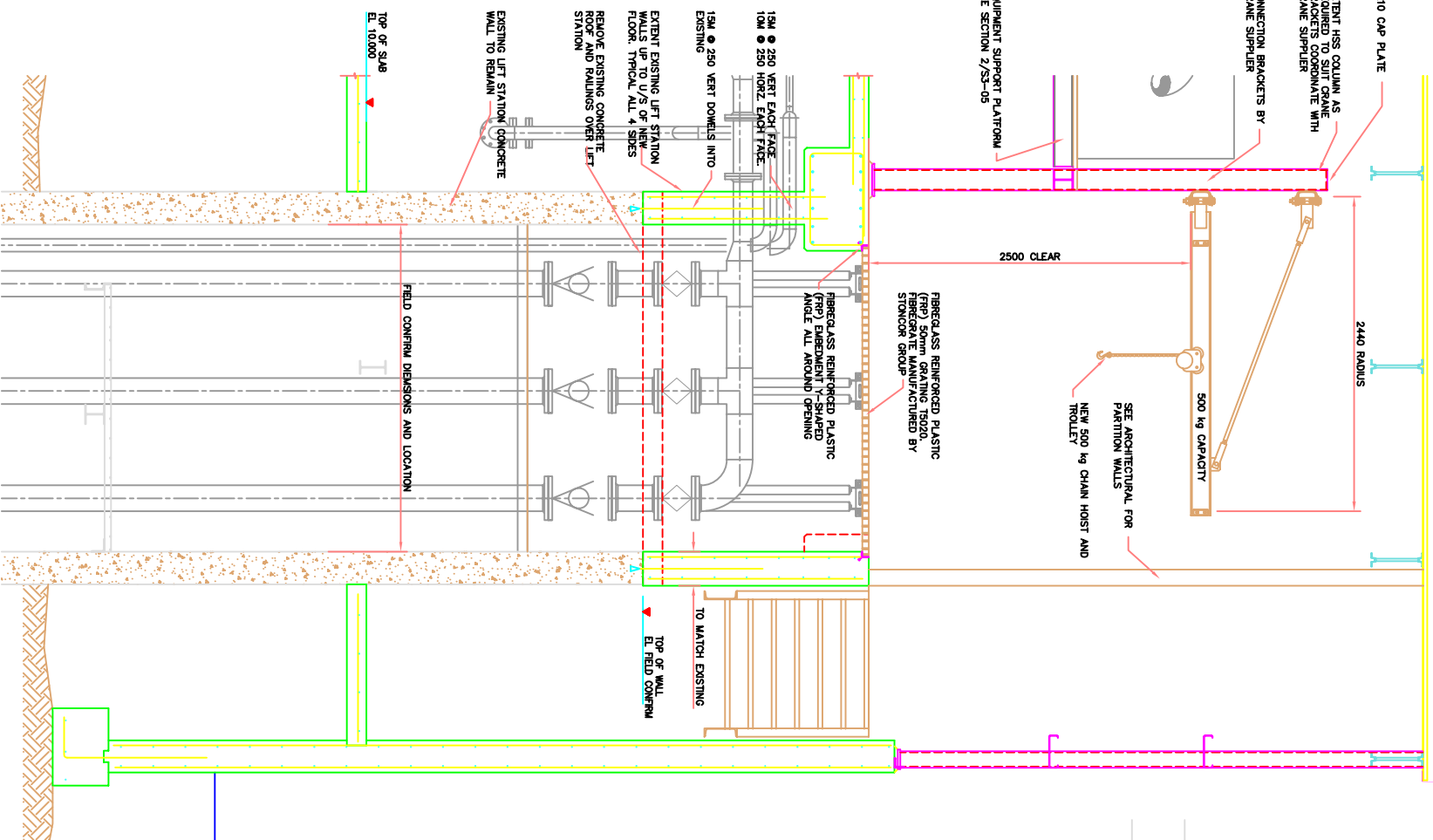
3 SECTION  
S131 1:25



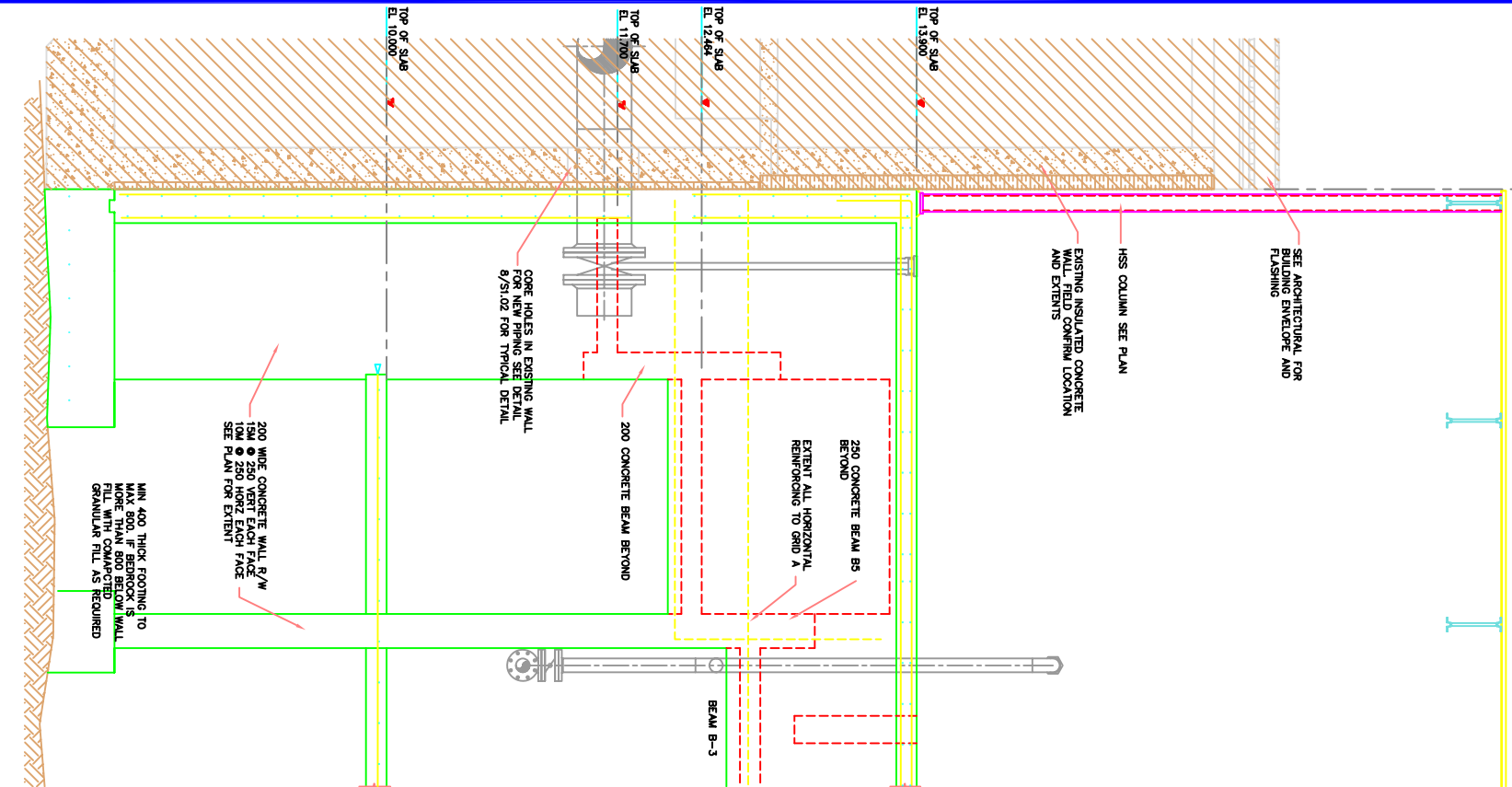
4 SECTION  
S131 1:25



2 SECTION  
S132 1:25



1 SECTION  
S132 1:25

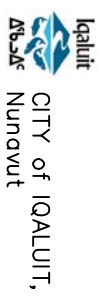




**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
**KUDLUK CONSTRUCTION LTD.**  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

No	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/04	ISSUED FOR TENDER

## REVISIONS



Design	S.D.K.
Dream	I.V.

Approved	Checked	Project Title

CITY OF IQUALUII  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

**AS INDICATED**

Project No.	Date
75360	08.03.05
Drawing No.	Revision
M111	2



**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KIDDLER CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

2	2006 06/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/04	ISSUED FOR TENDER
No.	Date	Description

## REVISIONS



Design	S.D.K.
Drawn	I.V.
Approved	
Checked	

**Project Title**  
**CITY OF IQUALUIT**  
**WASTEWATER**  
**TREATMENT PLANT**  
**PHASE 1**

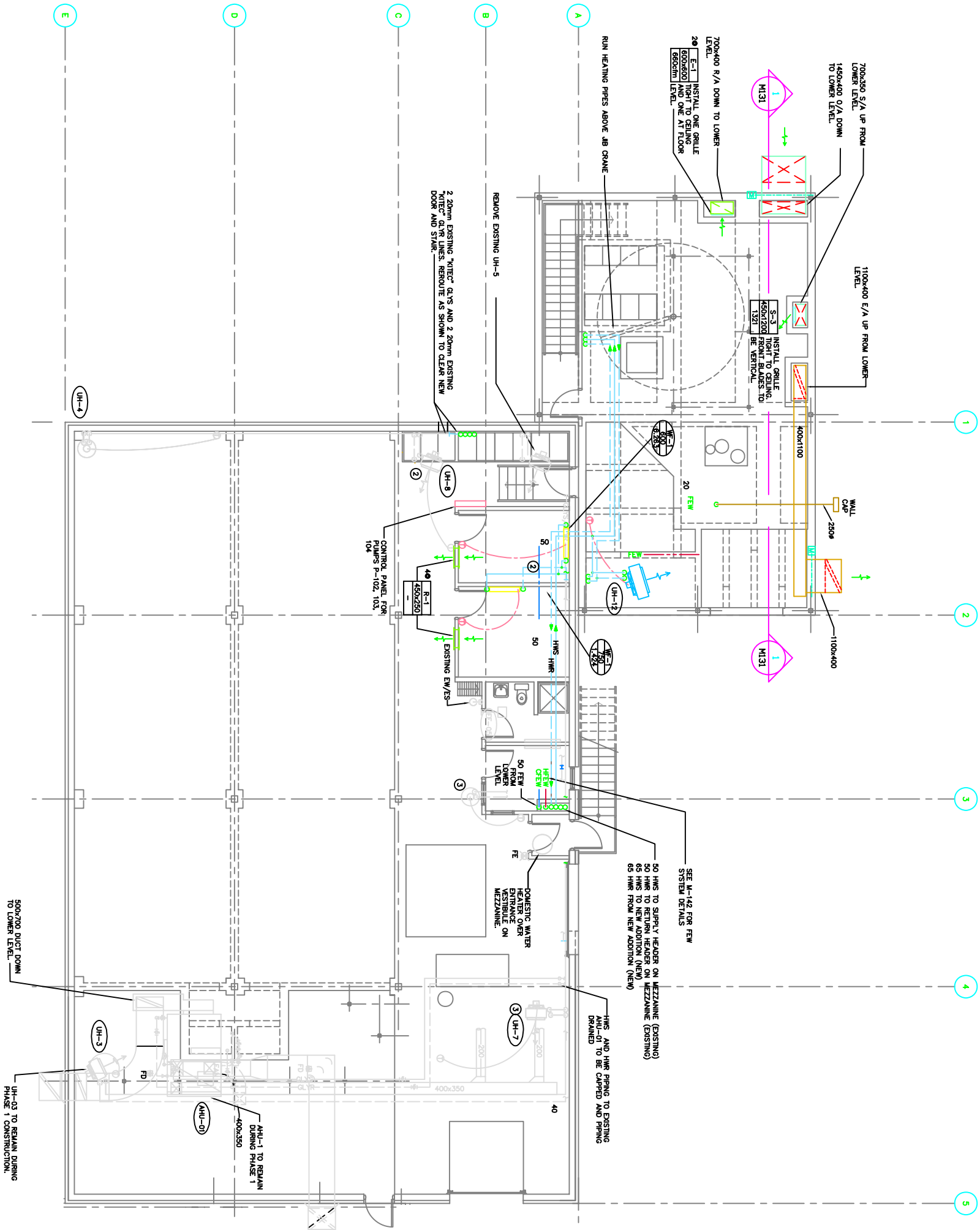
Drawing Title	MECHANICAL DEMOLITION LOWER LEVEL		
AS SHOWN			
Project No.	75360	Date	08.03.05
Drawing No.	M121	Revision	2







- NOTES:
- ② EXISTING 20mm Ø "KITEC" PIPING PRESENTLY SERVING EXISTING UNIT HEATER UH-5 IS TO BE REMOVED. SEE DWG M1-01. RUN NEW 20mm Ø SUPPLY AND RETURN PIPING FROM EXISTING "KITEC" SUPPLY AND RETURN PIPING TO NEW WALL FIN RADIATION IN THE LAB AND ELECTRONIC ROOMS AS SHOWN.
  - ③ EXISTING UNIT HEATER.



UPPER LEVEL – MECHANICAL PLAN  
SCALE 1:75

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KIDULK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

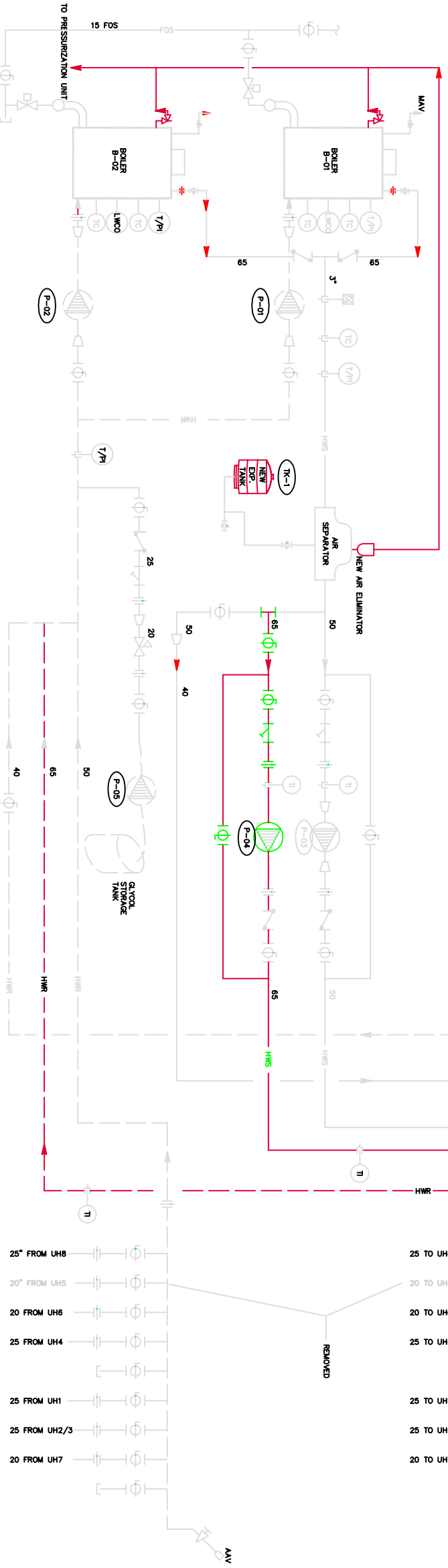
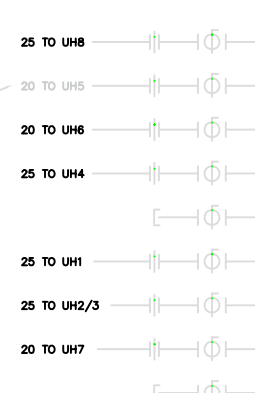
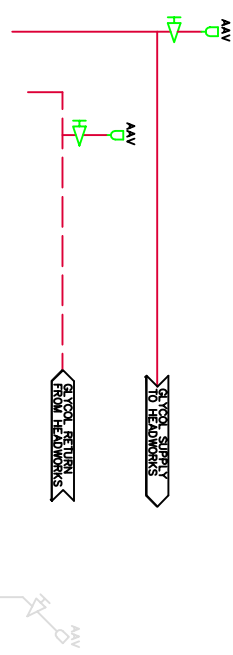
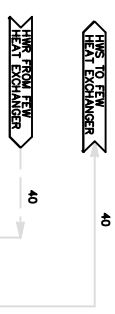
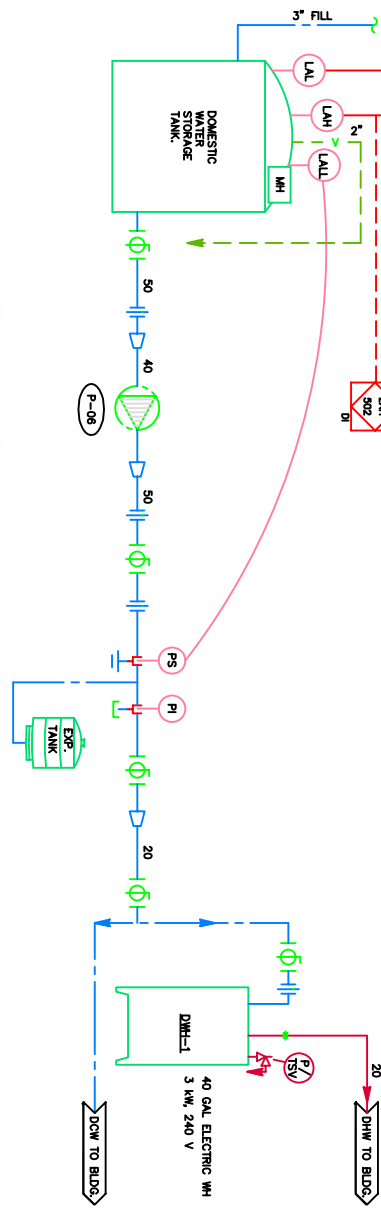
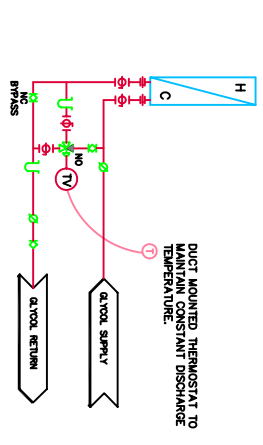
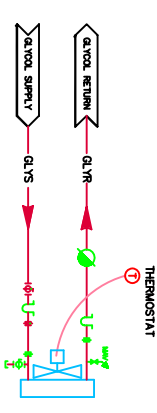
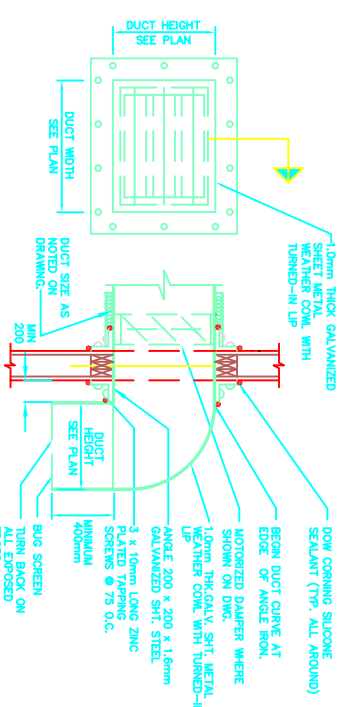
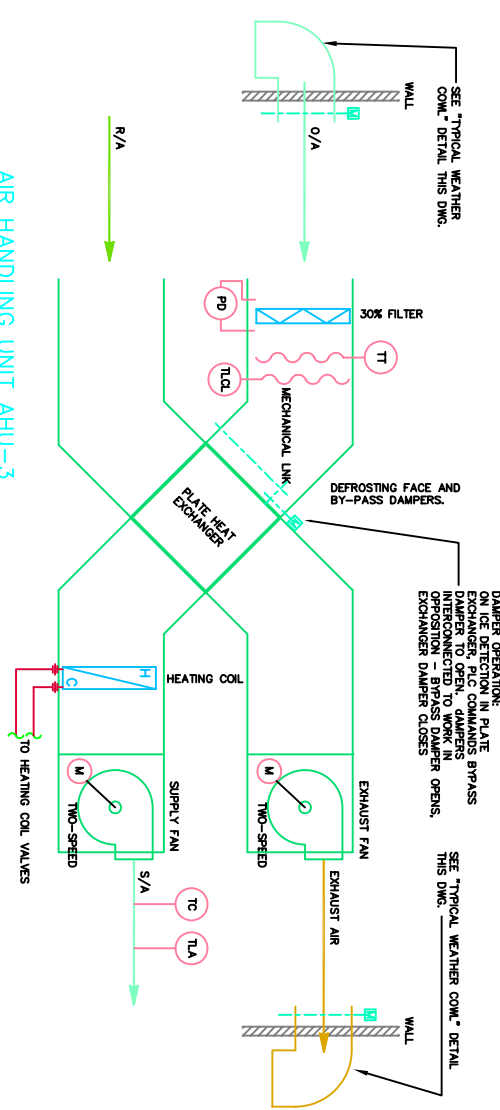
No.	Date	Description
2	2006 02/16	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 02/04	ISSUED FOR TENDER

REVISIONS

**Iqaluit**  
CITY of IQUALUIT,  
Nunavut



Design S.D.K.  
Drawn I.V.  
Approved  
Checked  
Project Title  
CITY of IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1  
Drawing Title  
UPPER LEVEL  
MECHANICAL PLAN

Scale AS SHOWN	Date
Project No. 75360	08.03.05
Drawing No. M132	Revision 2



**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY  
KUDAK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/09	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/04	ISSUED FOR TENDER



 CITY of IQALUIT,  
 Nunavut

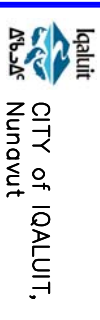
Design	S.D.K.
Drawn	
Approved	I.V.
Checked	
Project Title	CITY OF IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1
Transfer Title	

MECHANICAL SCHEMATICS	
Scale N.T.S.	Date
Project No.	08.03.05
Drawing No.	Revision
M141	2



**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KIDUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

REVISIONS		
No.	Date	Description
0	2006 05/09	RECORD DRAWING

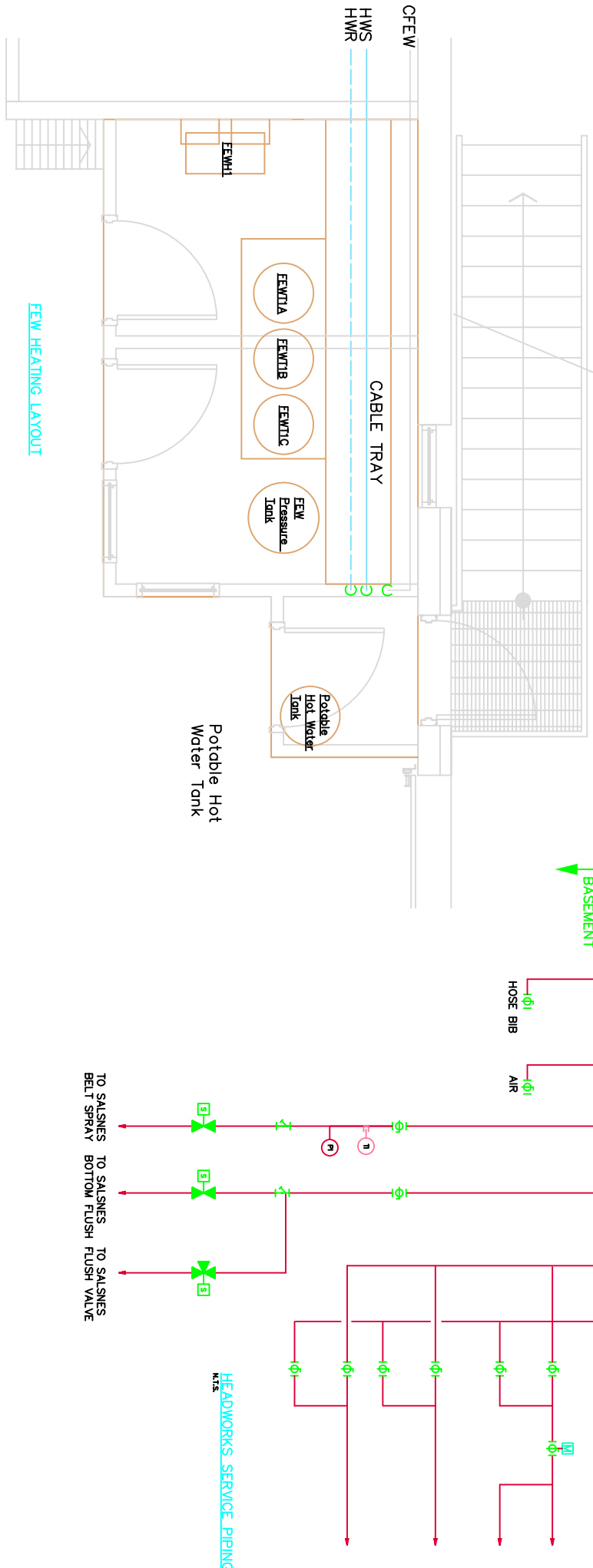
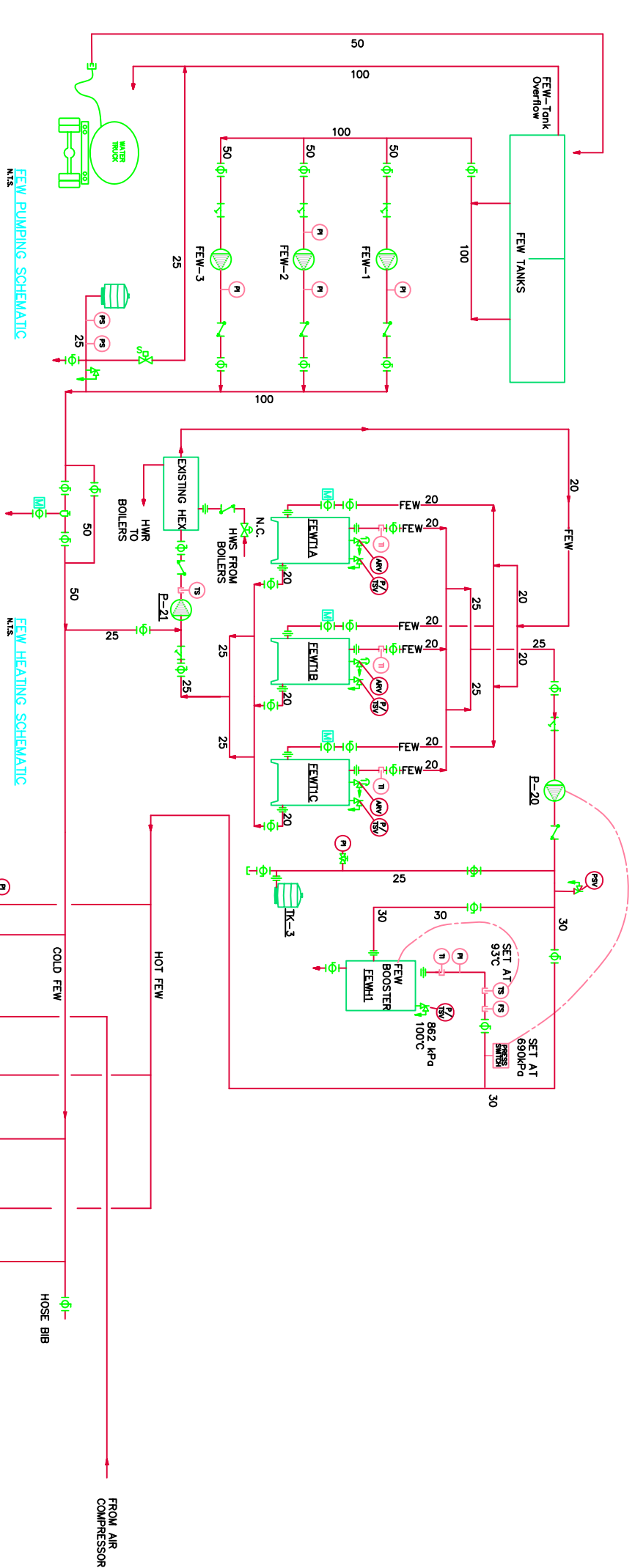


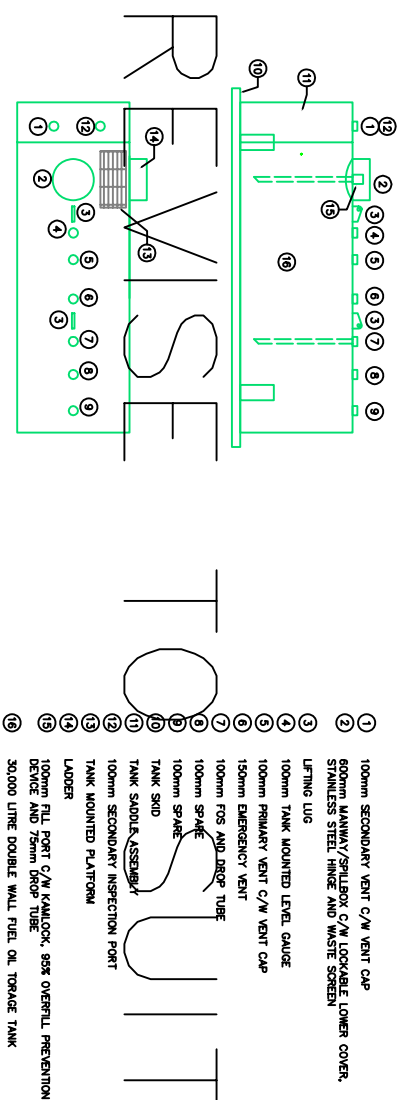
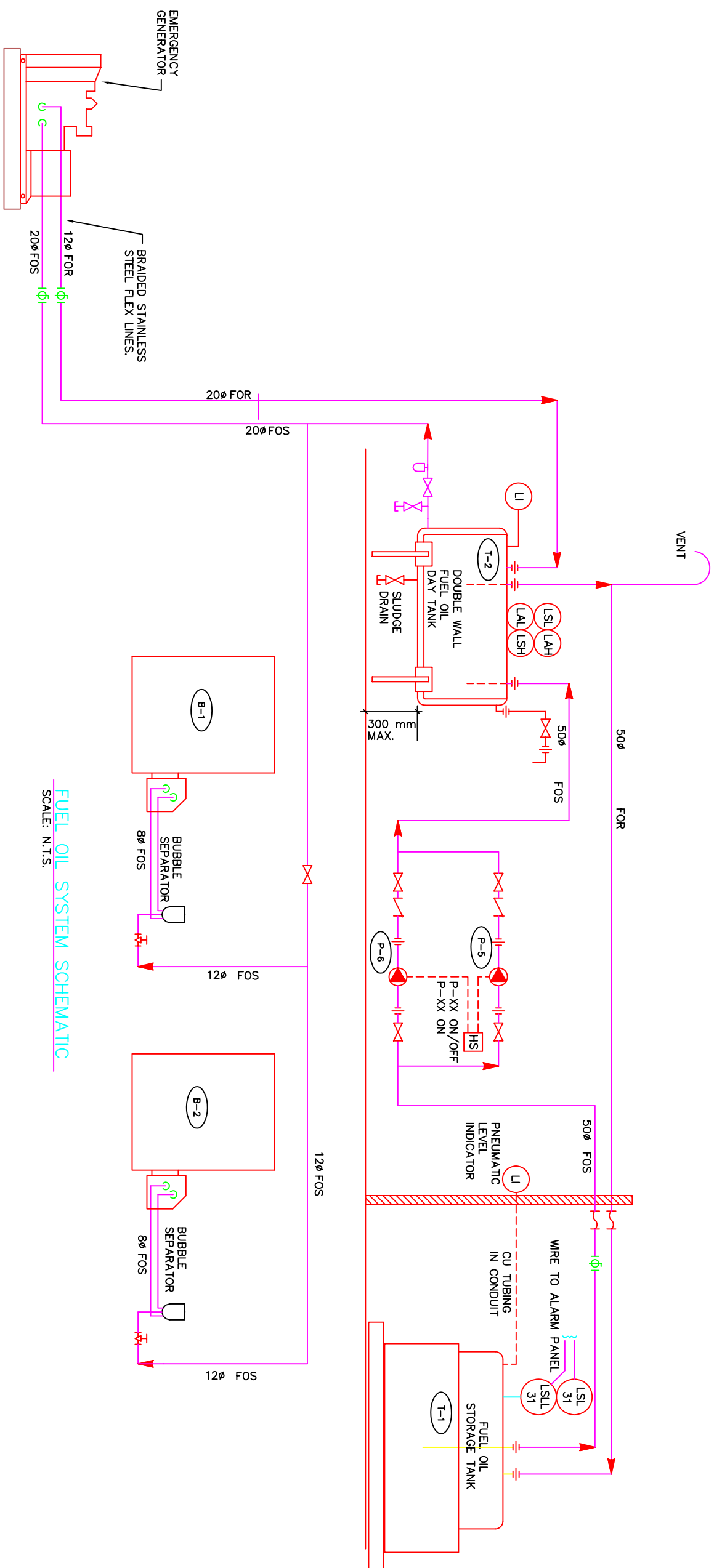
Design	S.D.K.
Dream	MCS
Approved	
Checked	
Drawn	

CITY OF IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

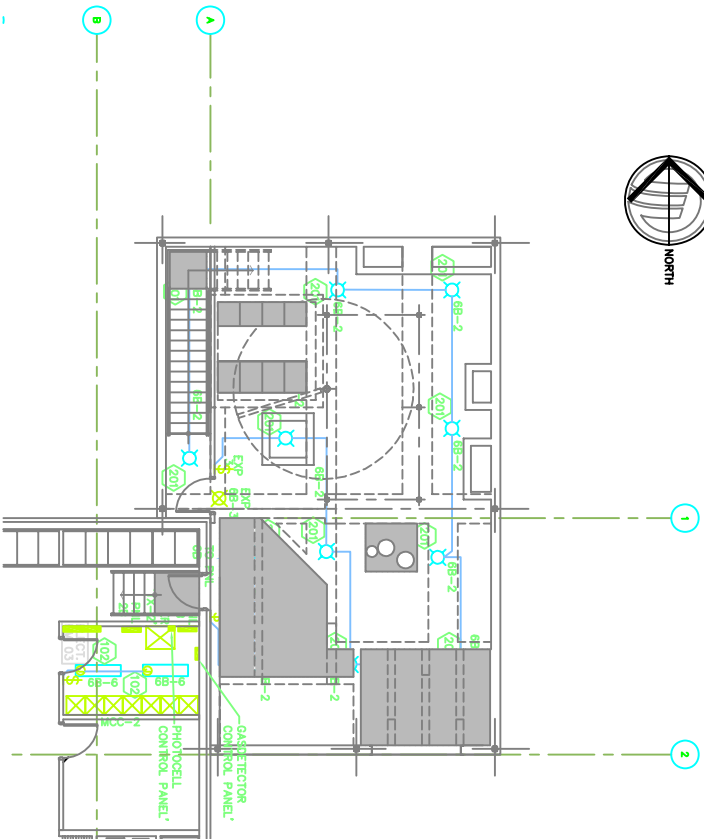
## HEADWORKS SERVICE PIPING DETAILS

Social	
N.T.S.	
Project No.	Date
75360	08.03.05
Drawing No.	Revision
M142	0

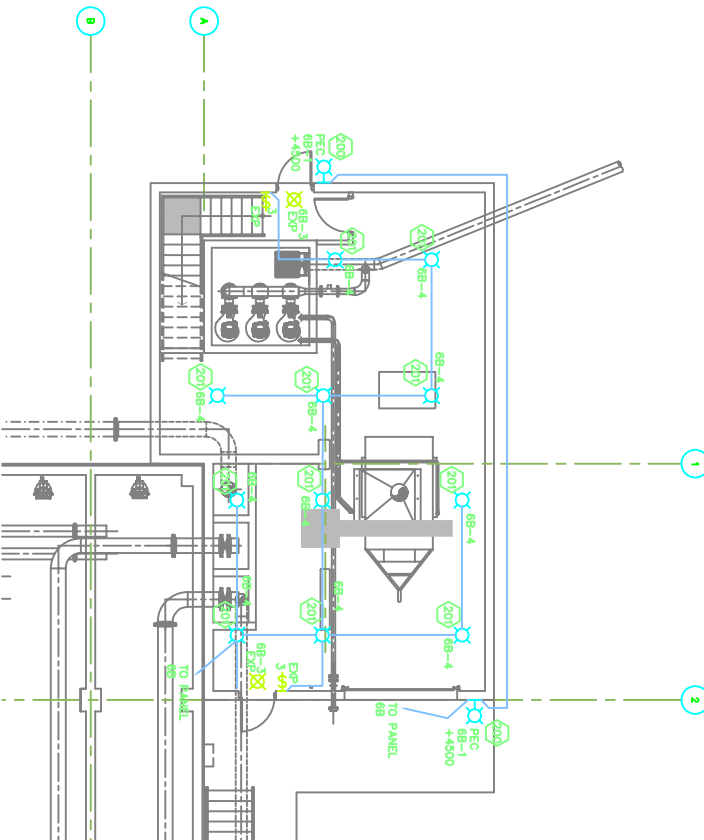




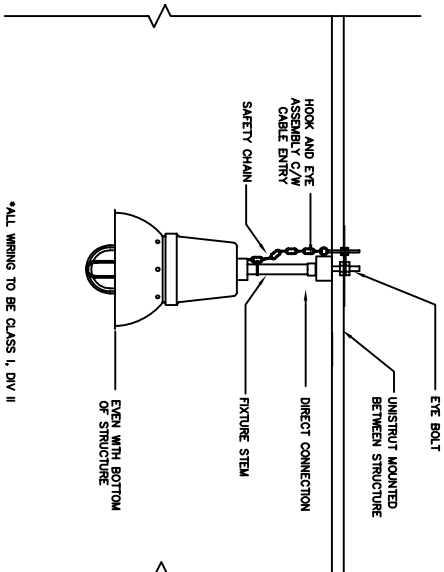
Stamp	
<b>RECORD DRAWING</b>	
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: KIDUK CONSTRUCTION LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED BY THE ACTUAL LOCATION BEFORE USE.	
0	2006 07/09
RECORD DRAWING	
No.	Date
Description	
REVISIONS	
Design S.D.K.	
Drawn M.C.S.	
Approved	
Checked	
Project file CITY OF IQALUIT WASTEWATER TREATMENT PLANT PHASE 1	
Drawing Title	
MECHANICAL SCHEMATICS FUEL OIL SYSTEM	
Scale N.T.S.	
Project No.	
Drawing No.	
Revision	
Drawing No.	
Revision	



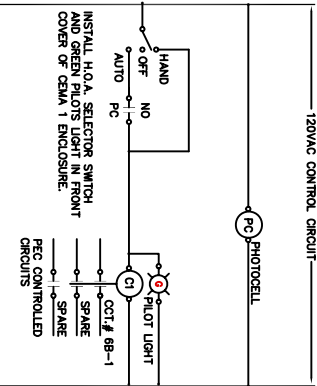
UPPER LEVEL – LIGHTING PLAN  
1:100



LOWER LEVEL – LIGHTING PLAN  
1:100



LUMINAIRE TYPE 201 – MOUNTING DETAIL  
N.T.S.



PEC EXTERIOR LIGHTING CONTROL SCHEMATIC  
N.T.S.

PANEL 6B						
DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
EXTERIOR LTG-HEADWORKS		1P15A	1	2	1P15A	LTG- UPPER HEADWORKS
EXT LIGHTING		1P15A	3	4	1P15A	LTG- LOWER HEADWORKS
	3P	5	6	1P15A	LIGHTING - ELEC RM 03	
FEW BOOSTER	60	7	8			
	100A	9	10			
		11	12			
		13	14			
		15	16			
		17	18			
		19	20			
		21	22			
		23	24			
		25	26			
		27	28			
	3P	29	30	1P15A	SPARE	
HVST		31	32	1P15A	SPARE	
	30A	33	34	1P15A	SPARE	
SPARE		1P15A	35	36	1P15A	SPARE
SPARE		1P15A	37	38	3P	
SPARE	1P15A	39	40		TRANSFORMER T02	
SPARE	1P15A	41	42	50A		
TOTAL						TOTAL
MAINS: 225A		VOLTS: 347/600V				
MOUNTING: SURFACE		LOCATION: ELEC RM. 03				
		FED FROM: EXISTING MDP				
		ENTER AT: TOP				

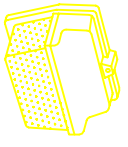
- ELECTRICAL LEGEND**
- HLD. LUMINAIRE – WALL MOUNTED
  - WALL MOUNTED EXT LIGHT – DIRECTIONAL ARROWS AS INDICATED
  - FLOUORESCENT LUMINAIRE – SURFACE MOUNTED OR SUSPENDED
  - PHOTO ELECTRIC CELL
  - LINE VOLTAGE SWITCH
  - LUMINAIRE TYPE
  - DUPLEX RECEPTACLE
  - ON DUPLEX RECEPTACLE
  - MOTOR
  - DISCONNECT SWITCH
  - MANUAL MOTOR STARTER C/W PILOT LIGHT
  - MAGNETIC MOTOR STARTER
  - THERMOSTAT
  - PANELLBOARD
  - COMBINATION VOCE/DATA OUTLET
  - WALL MOUNTED TELEPHONE OUTLET
  - EXPLOSION PROOF



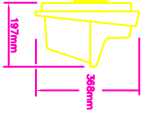
LAMP TYPE: 32 WATT, T-8, FLOURESCENT  
LAMP QTY: 2  
MOUNTING: SUSPENDED CEILING  
HOUSING: GOLD ROLLED STEEL  
REFLECTOR: SLOTTED – WHITE POWDER PAINT  
LENS: NONE  
SPECIAL REQUIREMENT:  
347 ELECTRONIC BALLAST



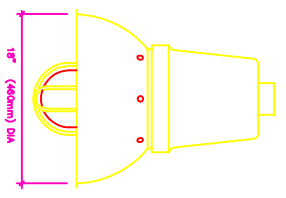
ACCEPTABLE PRODUCTS: PART No. \_\_\_\_\_  
MANUFACTURER: METALUX LITHONIA



LAMP TYPE: 150 WATT, HIGH PRESSURE SODIUM  
LAMP QTY: 1  
MOUNTING: SURFACE, WALL  
HOUSING: WEATHER RESISTANT DIE CAST ALUMINUM  
REFLECTOR: SPECULAR ALZAK ALUMINUM LENS: MOLDED PRISMATIC SHOCK RESISTANT GLASS  
SPECIAL REQUIREMENT:  
ACCEPTABLE PRODUCTS: PART No. \_\_\_\_\_  
MANUFACTURER: COOPER LITHONIA KENNE



LUMINAIRE SCHEDULE 200 TYPE No. \_\_\_\_\_



LAMP TYPE: 175 WATT, METAL HALIDE  
LAMP QTY: 1  
MOUNTING: ROD SUSPENDED, CEILING  
HOUSING: CAST FERROUS ALLOY, COATED  
REFLECTOR: ALUMINUM LENS: CLEAR HEAT RESISTANT GLOBE  
SPECIAL REQUIREMENT:  
C/W WIRE GUARD: CLASS I, DIV II  
OPTION: QUARTZ LAMP, RESTRIKE  
ACCEPTABLE PRODUCTS: PART No. \_\_\_\_\_  
MANUFACTURER: APFLETON CROUSE HINDS

LUMINAIRE SCHEDULE 201 TYPE No. \_\_\_\_\_

RECORD DRAWING	
INFORMATION FOR THESE DRAWINGS IS AS SUPPLIED BY: KUDLUK CONSTRUCTION LTD. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.	
2	2006 02/09 RECORD DRAWING
1	2005 05/14 ISSUED FOR CONSTRUCTION
0	2005 02/04 ISSUED FOR TENDER
No.	Date Description

REVISIONS	
No.	Date Description

Design	WA
Drawn	YLC
Approved	
Checked	
Project Title	
CITY of IQALUIT WASTEWATER TREATMENT PLANT PHASE 1	
Drawing Title	
ELECTRICAL LOWER LEVEL LTG & LUMINAIRE SCH.	
Scale	Date
AS SHOWN	08.03.05
Project No.	75360
Drawing No.	E131
Revision	2









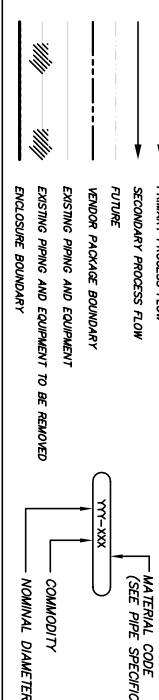








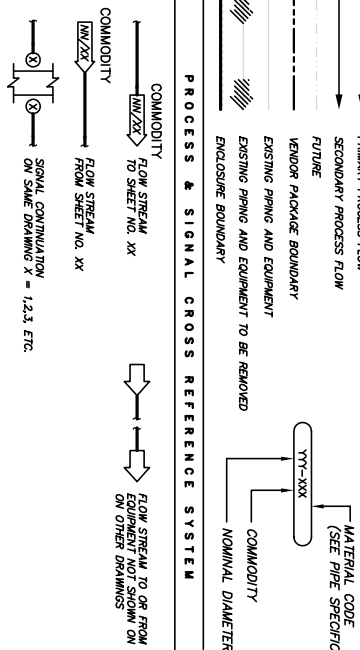












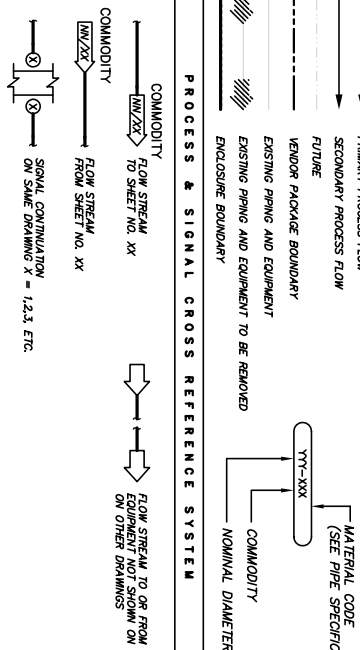












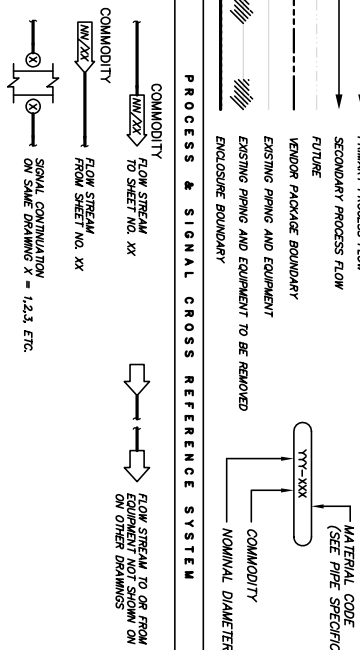












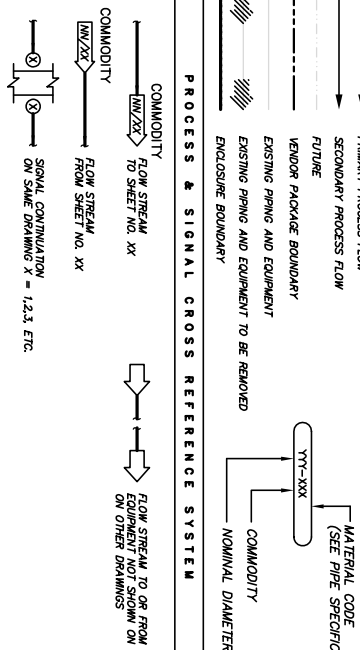












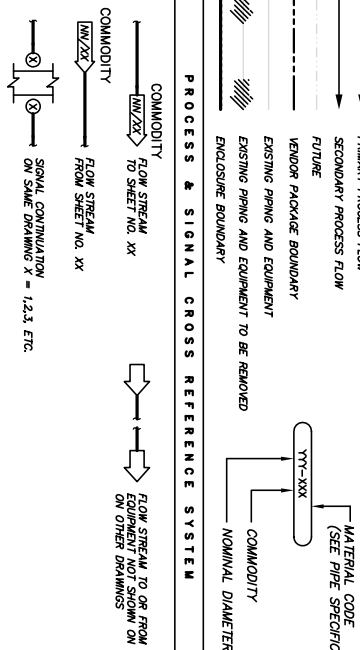








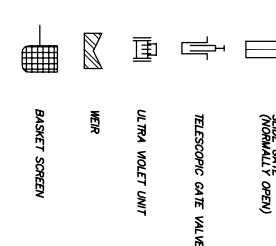
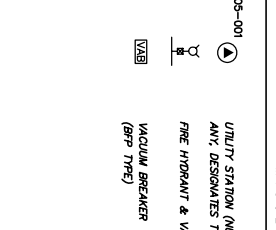
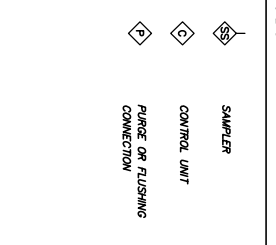
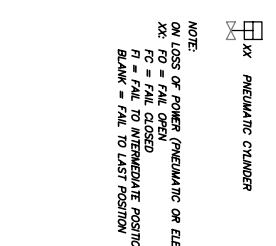
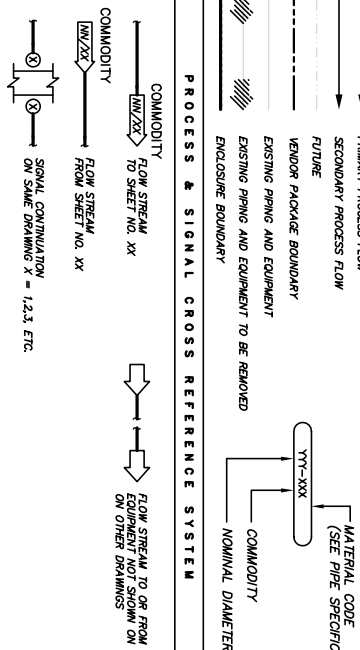



































A Type International Ltd. Company  
 Tel. 700-488-8800  
 Fax. 700-488-2121  
[www.aortech.ca](http://www.aortech.ca)

17203-103rd Avenue  
 Edmonton, Alberta  
 T5S 1L4 CANADA

Stamp

**RECORD DRAWING**  
 INFORMATION IS AS SUPPLIED BY:  
 KUDLUK CONSTRUCTION LTD.  
 THE COMPLETENESS AND ACCURACY OF THIS  
 RECORD DRAWING IS NOT GUARANTEED.  
 INFORMATION IS NOT TO BE USED FOR  
 CONSTRUCTION OF THE PROJECT.

EQUIPMENT		EQUIPMENT		PROCESS IDENTIFICATION		TAG & AREA LEGEND	
 ADJUSTABLE SPEED CONTROLLER (ELEC)	 ADJUSTABLE SPEED DRIVE (MECH)	 LEVEL CONTROL GATE	 MOTOR	 FLAP GATE	 RECEIVER OR PRESSURE VESSEL		
 BAR SCREEN, MECHANICAL	 INLINE SLUDGE SCREEN	 MAKER, HORIZONTAL SURFACE	 MAKER, INLINE STATIC	 SCREEN, ROTARY OVERFLOW	 TANK, DOUBLE WALLED		
PIPE LINE DEVICES				 INJECTOR	 AUTOMATIC AIR VENT		
 BLOWER OR CENTRIFUGAL FAN	 SLIDING VANE COMPRESSOR	 MOTOR	 PUMP, CENTRIFUGAL	 FLAME ARRESTER	 MANUAL AIR VENT		
 BOILER	 BURNER, WASTE GAS	 PUMP, PROPELLER	 TRAP	 FLAME CHECK	 STRAINER		
 CENTRIFUGE	 CHILLER	 PUMP, DIAPHRAGM OPERATED	 SEGMENT TRAP	 PRESSURE REDUCING ASSEMBLY	 FOOT VALVE		
 COMPRESSOR, ROTARY SCREW	 COMPRESSOR, PISTON	 PUMP, METERING	 GAS DRIP TRAP	 LIQUID SEPARATOR	 CALIBRATION CHAMBER		
 DIFFUSER HEADER	 ENGINE	 PUMP, PROGRESSIVE CAVITY	 PIPELINE FILTER	 RUPTURE DISK (VACUUM RELIEF)	 PULSATION DAMPER		
 EJECTOR, PNEUMATIC	 FILTER OR FILTER-SILENCER, INLET AIR	 PUMP, ROTARY LOBE	 AIR VENT	 AIR VENT	 SUCTION GUIDE STRAINER		
 FLOW METER	 RIGHT ANGLE GEAR	 PUMP, VERTICAL	 STEAM VENT	 QUICK CONNECTOR	 MOTORIZED CONTROL DAMPER		
 GRINDER	 HEAT EXCHANGER, SPIRAL TYPE	 SLUDGE GATE (NORMALLY CLOSED)	 CAP OR PLUG	 BLIND FLANGE	 BALANCING DAMPER		
 HEAT EXCHANGER, STRAIGHT TUBE TYPE	 HEAT EXCHANGER, U-TUBE TYPE	 TELESCOPIC GATE VALVE	 FLEXIBLE CONNECTION (SEE NOTE 5)	 AIR FILTER (HVAC)	 FIRE DAMPER		
 MANUAL SCREEN	 BASKET SCREEN						
PIPE LEGEND				 FLANGED	 SCREWED	 GROOVED	 WELDED
 90° ELBOW	 45° ELBOW	 TEE OUTLET DOWN	 TEE OUTLET UP	 REDUCER CONCENTRIC	 REDUCER ECCENTRIC	 FLANGE	 UNION
 LATERAL	 ELBOW TURNED DOWN	 CAP	 ORIFICE	 BELL AND SPIGOT JOINT	 FLANGE	 UNION	 ORIFICE
 ELBOW TURNED UP	 ELBOW SIDE OUTLET DOWN	 ELBOW SIDE OUTLET UP	 BELL AND SPIGOT JOINT	 FLANGE	 UNION	 ORIFICE	 ORIFICE
GENERAL NOTES				PIPE APPURTENANCES			
NOTES: 1. THIS DRAWING IS GENERAL IN NATURE. SOME SYMBOLS SHOWN HERE MAY NOT BE USED ON THE CONTRACT DRAWINGS. 2. SEE DRAWING 1111 FOR INSTRUMENTATION SYMBOLS. 3. SYMBOLS ARE ARRANGED ON DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY. SYMBOLS MAYBE USED ON ANY OF THE CONTRACT DRAWINGS. 4. N.O. INDICATES NORMALLY OPEN VALVE. 5. N.C. INDICATES NORMALLY CLOSED VALVE. 6. EXISTING EQUIPMENT, PIPE AND VALVES ARE SHOWN WITH FAINT LINES, AND NEW EQUIPMENT WITH SOLID DARK LINES. 7. PROCESS PIPING LARGER THAN 50mm DIA. IS SHOWN WITH DOUBLE LINE.				 FLEXIBLE HOSE CONNECTION	 EXPANSION JOINT	 INSULATED PIPE	 VACUUM BREAKER (BPP TYPE)
EQUIPMENT IDENTIFICATION				EQUIPMENT IDENTIFICATION			
DUTY BLOWER VFD 25HP B-215 EQUIPMENT NUMBER				DUTY BLOWER VFD 25HP B-215 EQUIPMENT NUMBER			
EQUIPMENT ABBREVIATION				EQUIPMENT ABBREVIATION			



17203-1034 Avenue Edmonton, Alberta T6S 1A4 CANADA Tel: 780-485-0900 Fax: 780-485-2121 www.earthtech.ca

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KIDULK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

2005 03/11 RECORD DRAWING  
2005 06/14 ISSUED FOR CONSTRUCTION  
2005 03/14 ISSUED FOR TENDER

REVISIONS

No.	Date	Description
1	2005 03/14	ISSUED FOR TENDER

Design SNO/RB  
Drawn DKB  
Checked  
Project Title  
CITY OF IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1  
Drawing Title  
PROCESS LEGENDS, SYMBOLS & NOTES  
Scale NO SCALE  
Project No. 75360  
Date 08.03.05  
Drawing No. P111  
Revision 2

# LIQUID PROCESS TRAIN

# RAW WASTEWATER PUMPING (3)

**FINE SCREENING (2)**

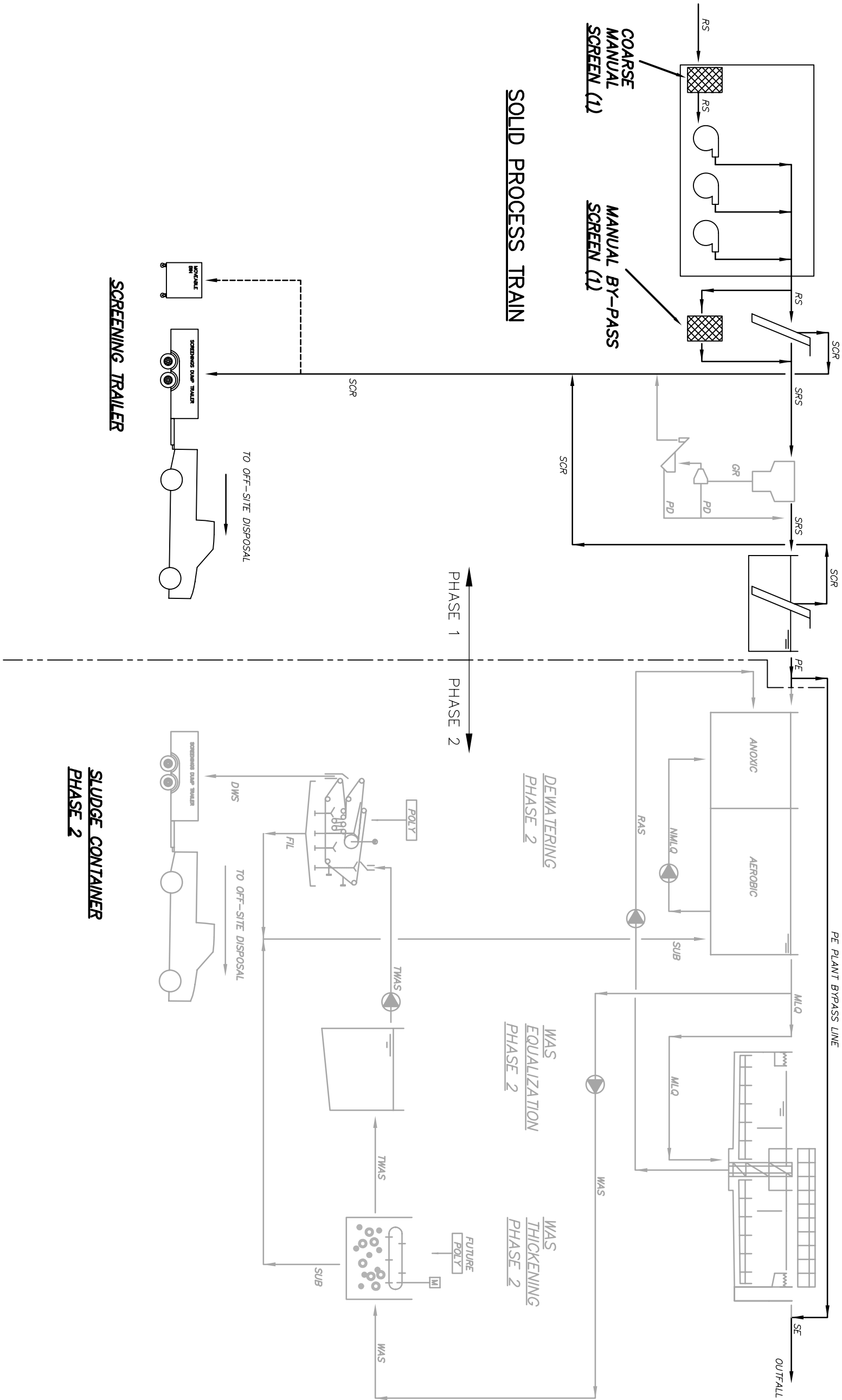
## POTENTIAL FUTURE GRIT REMOVAL (1)

**PRIMARY  
TREATMENT**

BIOLOGICAL  
PROCESS (2)  
PHASE 2

## SECONDARY CLARIFICATION (2)

### PHASE 2




**SLUDGE CONTAINER**  
**PHASE 2**

## PROCESS FLOW DIAGRAM

Project No.	Date
75360	08.03.05
Drawing No.	Revision
P112	2

REVISIONS		
No.	Date	Description
2	2006 06/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/14	ISSUED FOR TENDER

## REVISIONS

**Iqaluit**  
  
**CITY of IQALUIT,**  
**Nunavut**

Design  
SNO/RB

DKB

10

**Product Title**

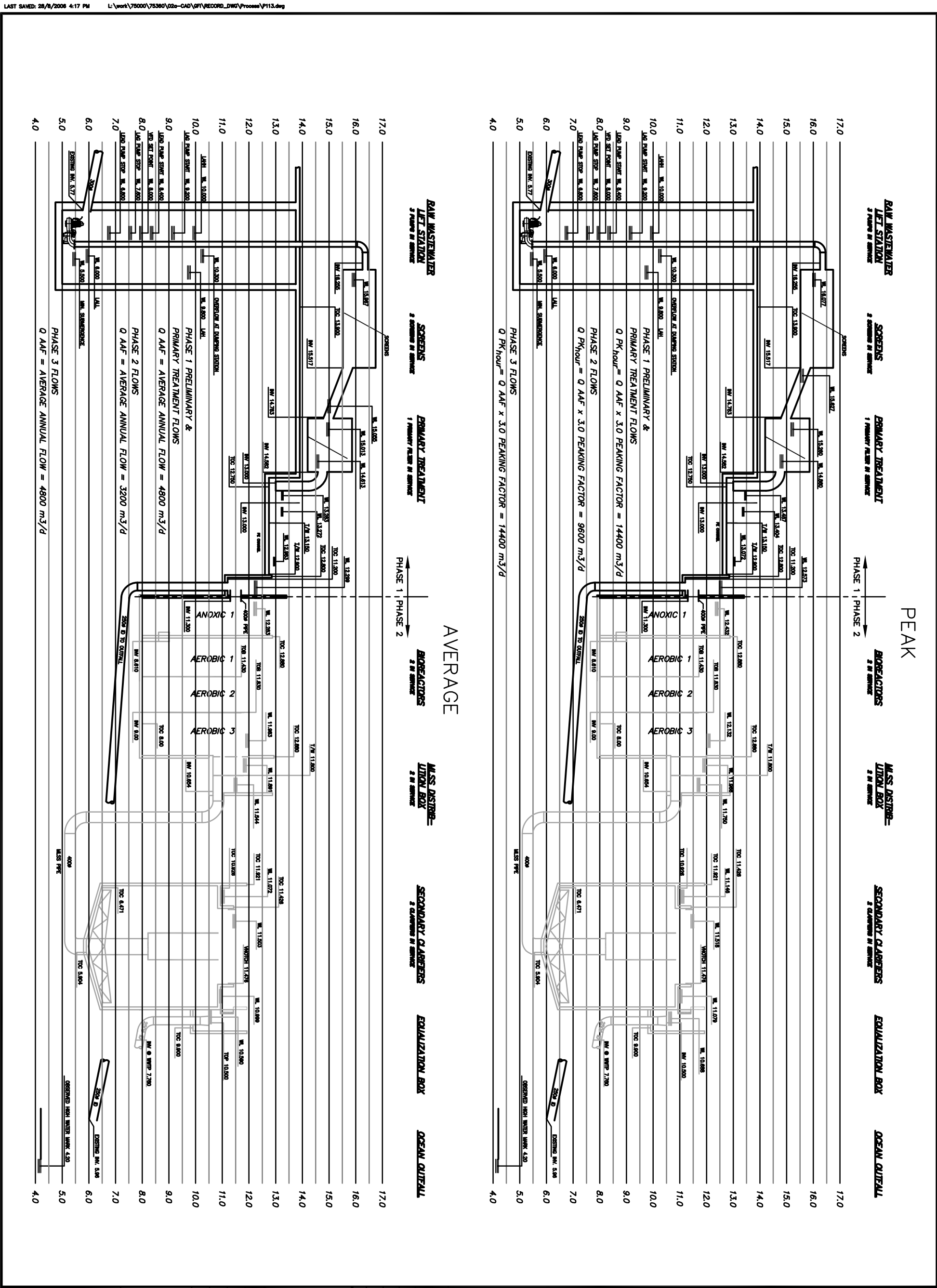
**Project Title**  
**CITY OF IQUALUIT**  
**WASTEWATER**  
**TREATMENT PLANT**  
**PHASE 1**

**Drawing Title**

Scale	
Project No.	Date
75360	08.03.05
Drawing No.	Revision
P112	2

No.	Date	Description
2	2006	RECORD DRAWING
1	2005	ISSUED FOR CONSTRUCTION
0	2005	ISSUED FOR TENDER
No.	Date	Description

Design	SMO/RB
Drawn	DKB
Approved	
Checked	







APPENDIX No. 1

Stamp

**RECORD DRAWING**  
INFORMATION FOR THE RECORD DRAWING IS AS SUPPLIED BY THE CLIENT. THE COMPLETION AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006/07/11	RECORD DRAWING
1	2005/05/14	ISSUED FOR CONSTRUCTION
0	2005/02/14	ISSUED FOR TENDER

REVISIONS

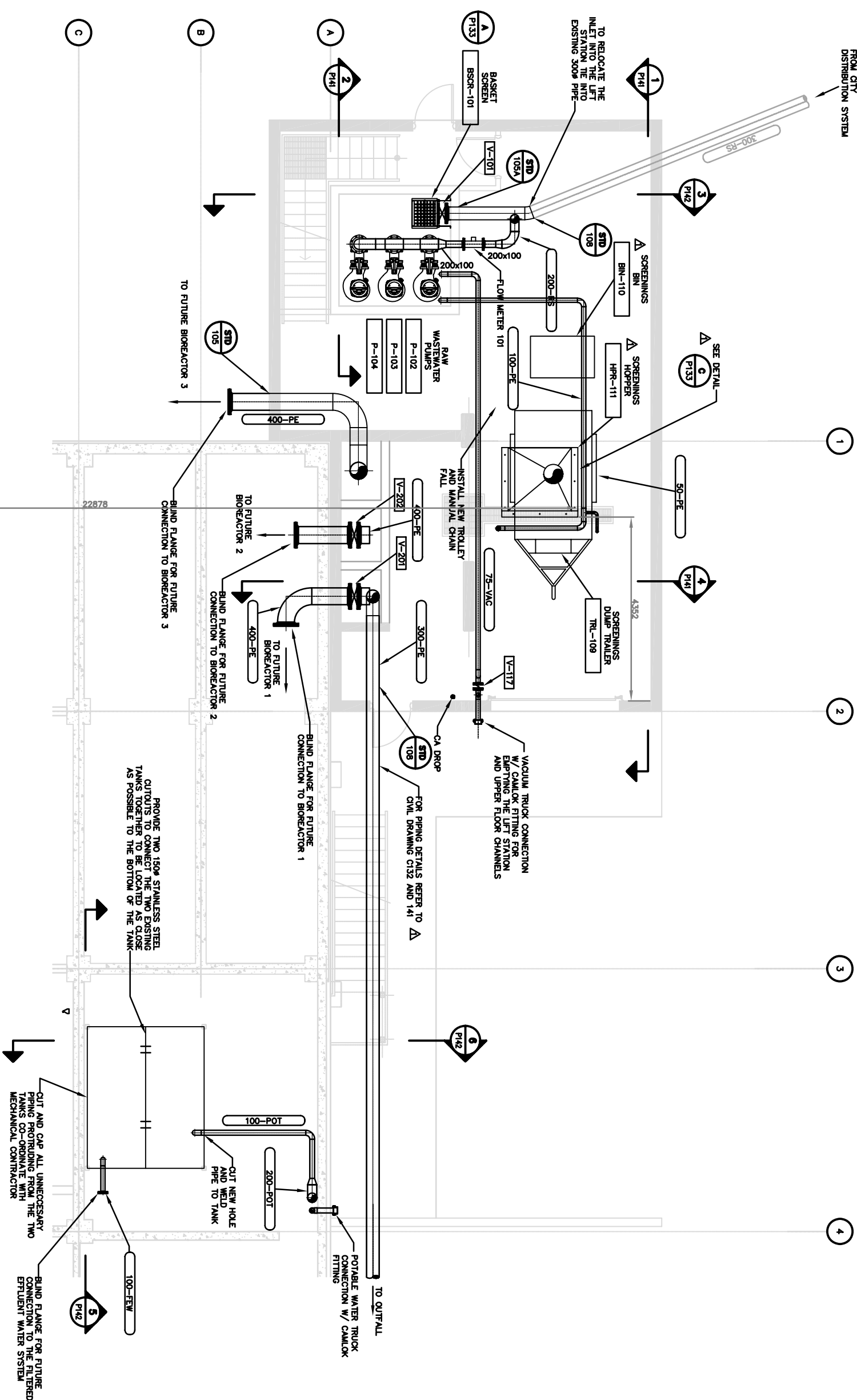
**Iqaluit**  
CITY of IQUALUIT,  
Nunavut

Design	SMO/RB
Drawn	DKB
Approved	
Checked	

**CITY of IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

**PROCESS  
LOWER FLOOR  
LAYOUT**

Scale	AS NOTED	Date
Project No.	75380	08.03.05
Drawing No.	P131	Revision 2



**LOWER PIPING LAYOUT**  
SCALE 1:50



NOTES:  
1. THE SCREW SCREENS ARE TO BE RELOCATED FROM THE EXISTING BUILDING AND OUTLETS ARE TO BE ADDED AS INDICATED ON THE DRAWINGS. SEE DEMOLITION DWG P121.

Stamp

**RECORD DRAWING**  
INFORMATION IS AS SUPPLIED BY THE CLIENT. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	05/11	RECORD DRAWING
1	05/14	ISSUED FOR CONSTRUCTION
0	05/14	ISSUED FOR TENDER

REVISIONS

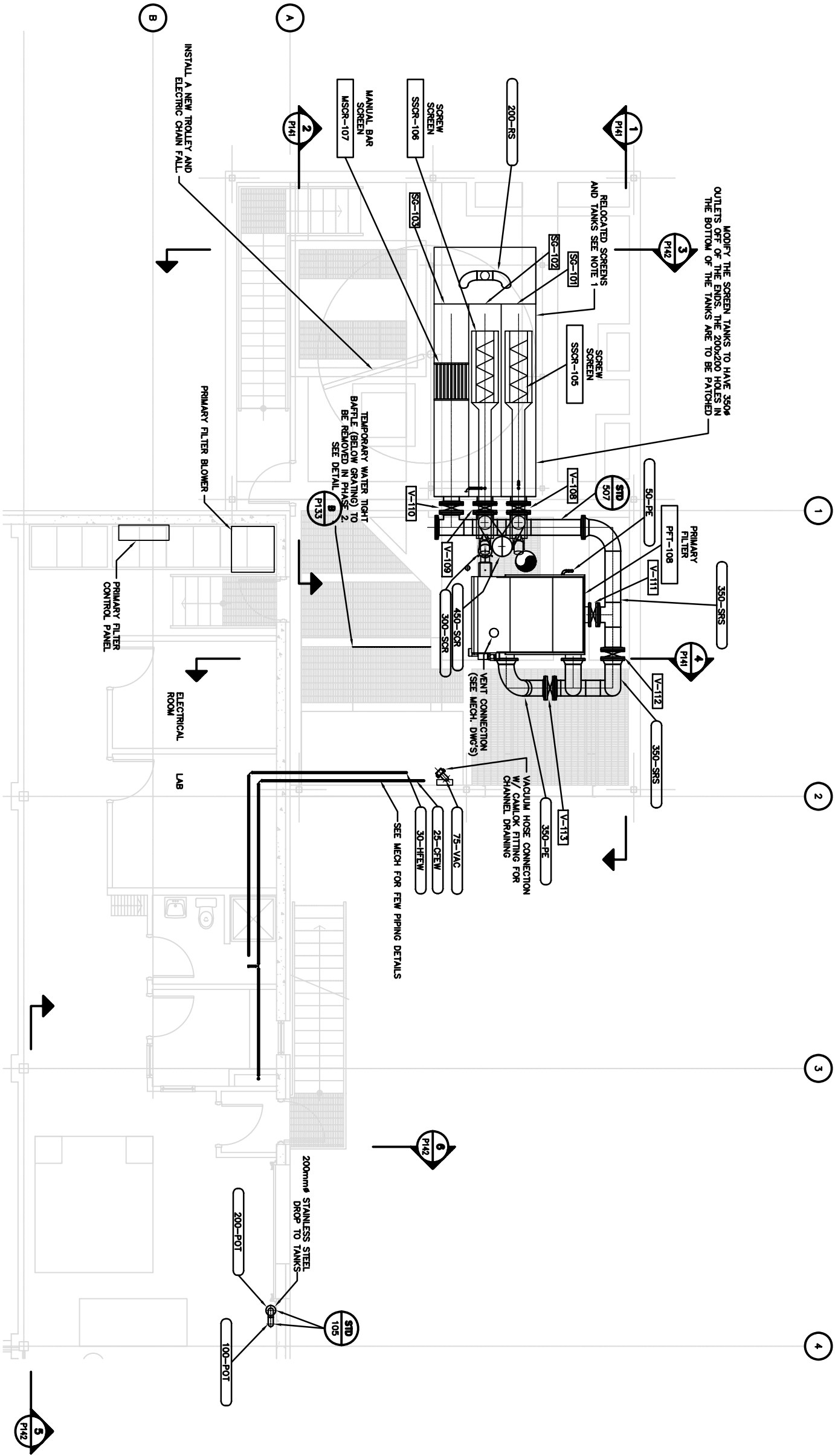
**Iqaluit**  
CITY OF IQALUIT,  
Nunavut

Design	SNO/RB
Drawn	DKB
Approved	
Checked	

**Project Title**  
CITY OF IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1

**Drawing Title**  
PROCESS  
UPPER FLOOR  
LAYOUT

Scale	AS NOTED
Project No.	75360
Date	08.03.05
Drawing No.	P132
Revision	2



No.	Date	Description
2	2006 06/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 02/14	ISSUED FOR TENDER

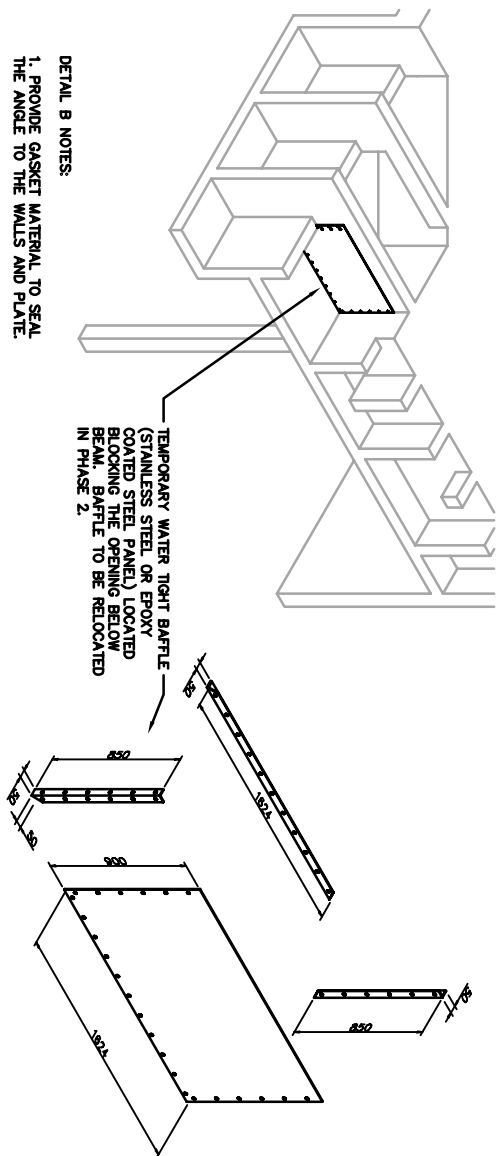
 Iqaluit  
CITY of IQALUIT,  
Nunavut

Design	SNO/RB
Drawn	DKB
Approved	
Checked	

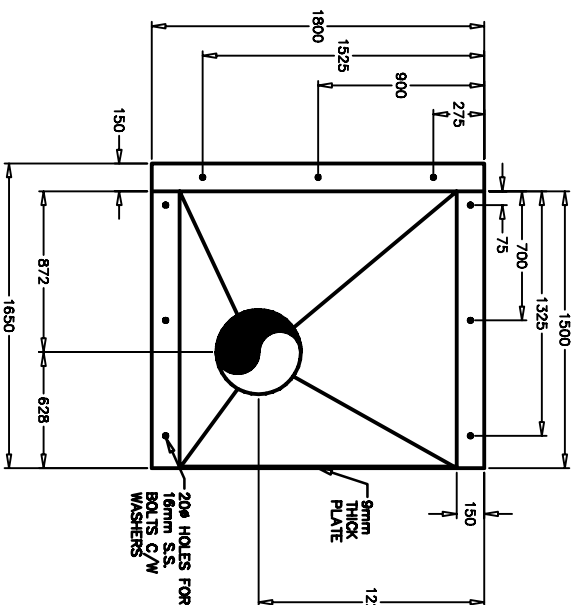
Project Title	CITY OF IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	

**PROCESS  
LAYOUT  
DETAILS**

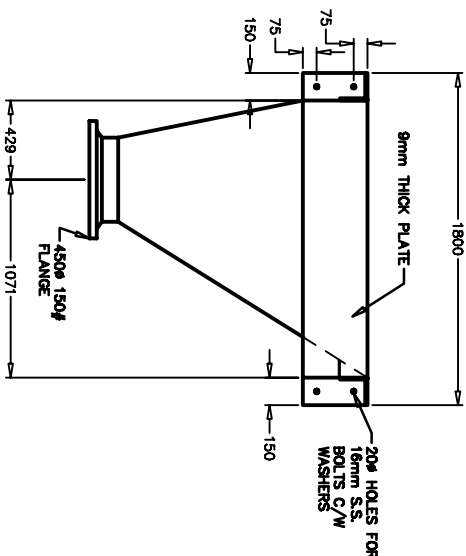
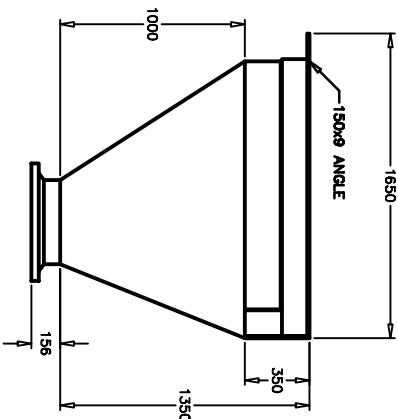
Project No.	Date
75360	08.03.05
Drawing No.	Revision
P133	2



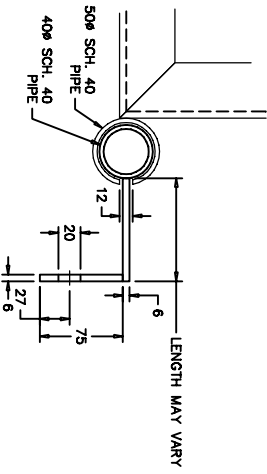
**B** DETAIL  
P132 N.T.S.



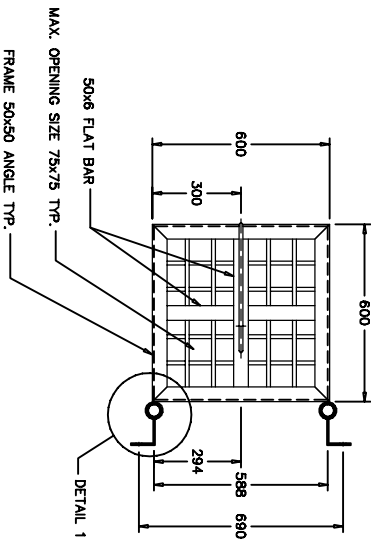
- NOTES:
1. HOPPER MATERIAL TO BE 6mm THICK PLAIN CARBON STEEL PLATE.
  2. INTERIOR COATED WITH AN ANTI-FRCTION COATING SEE SPECIFICATIONS FOR MORE DETAIL.
  3. PRIME COAT THE EXTERIOR AND FINISH COAT TO THE OWNERS CHOICE OF COLOUR.
  4. ALL WELDS ARE TO BE CONTINUOUS.
  5. PROVIDE INSERTS AND MOUNTING HARDWARE TO MOUNT THE HOPPER IN THE LOCATION SHOWN ON THE DRAWINGS.



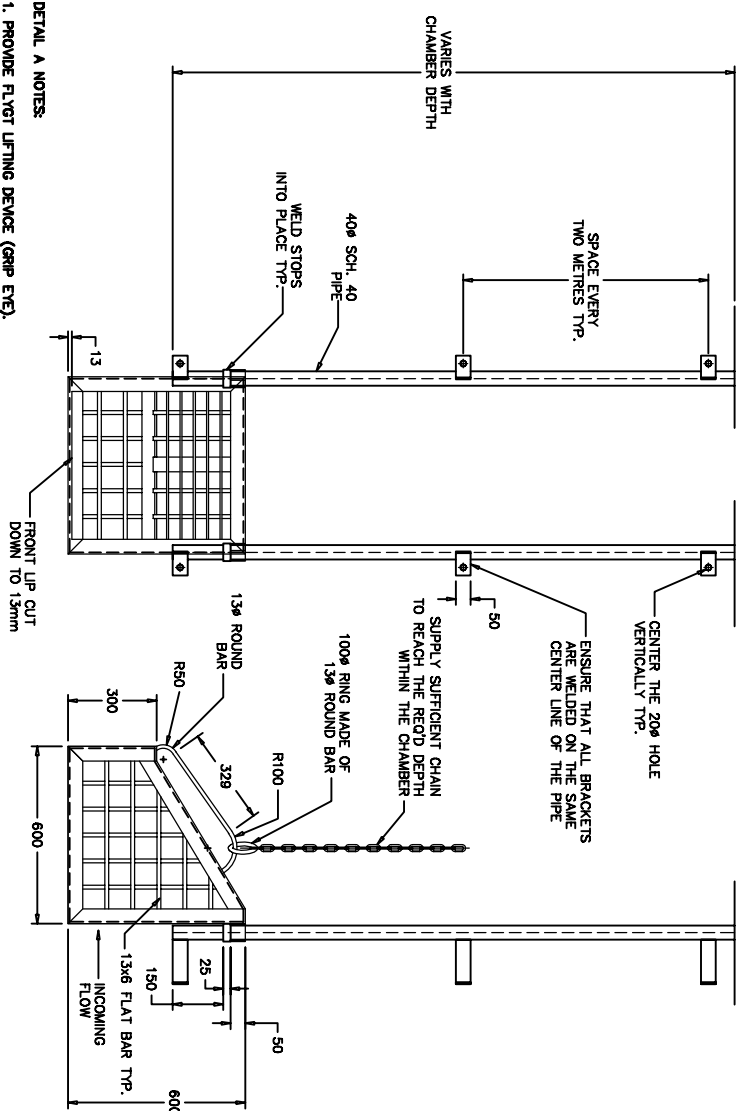
**C**  
PI32  
**DETAIL**  
SCALE 1:20



DETAIL 1



DETAIL 1



1. PROVIDE FLVGT LIFTING DEVICE (GRIP EYE).
2. ALL FABRICATED MATERIAL, TO BE HOT DIPPED GALVANIZED, NO WELDING OR DRILLING AFTER FABRICATION.
3. ENSURE THAT THE BASKET GUIDES SLIDE PAST THE GUIDE RAIL SUPPORTS.
4. USE APPROPRIATE STAINLESS STEEL FASTENERS TO ATTACH THE GUIDE RAILS TO THE CHAMBER WALLS.

**DETAIL**  
N.T.S.



Δ ADDENDUM No. 1

Stamp

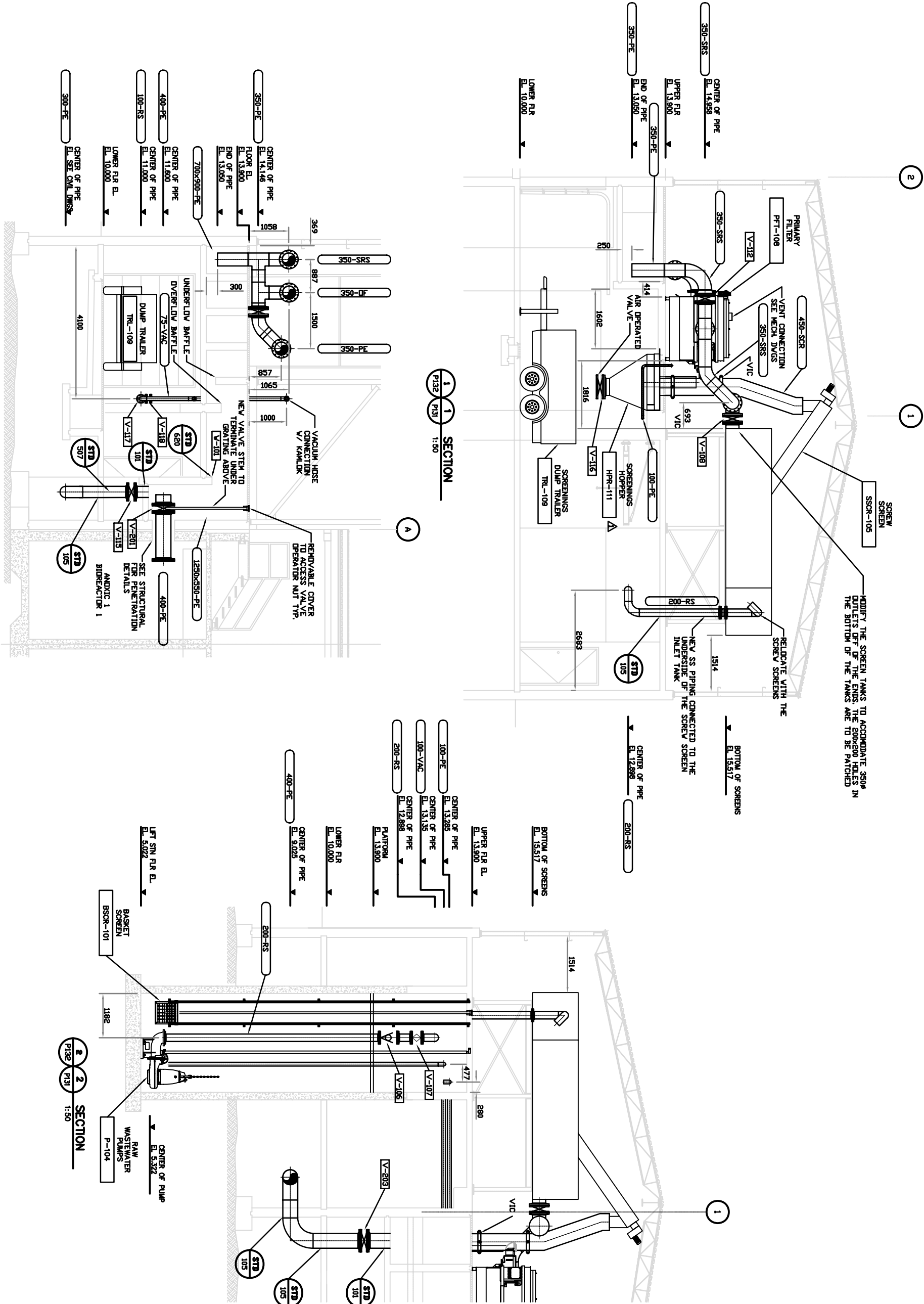
**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
**KULAK CONSTRUCTION LTD.**  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

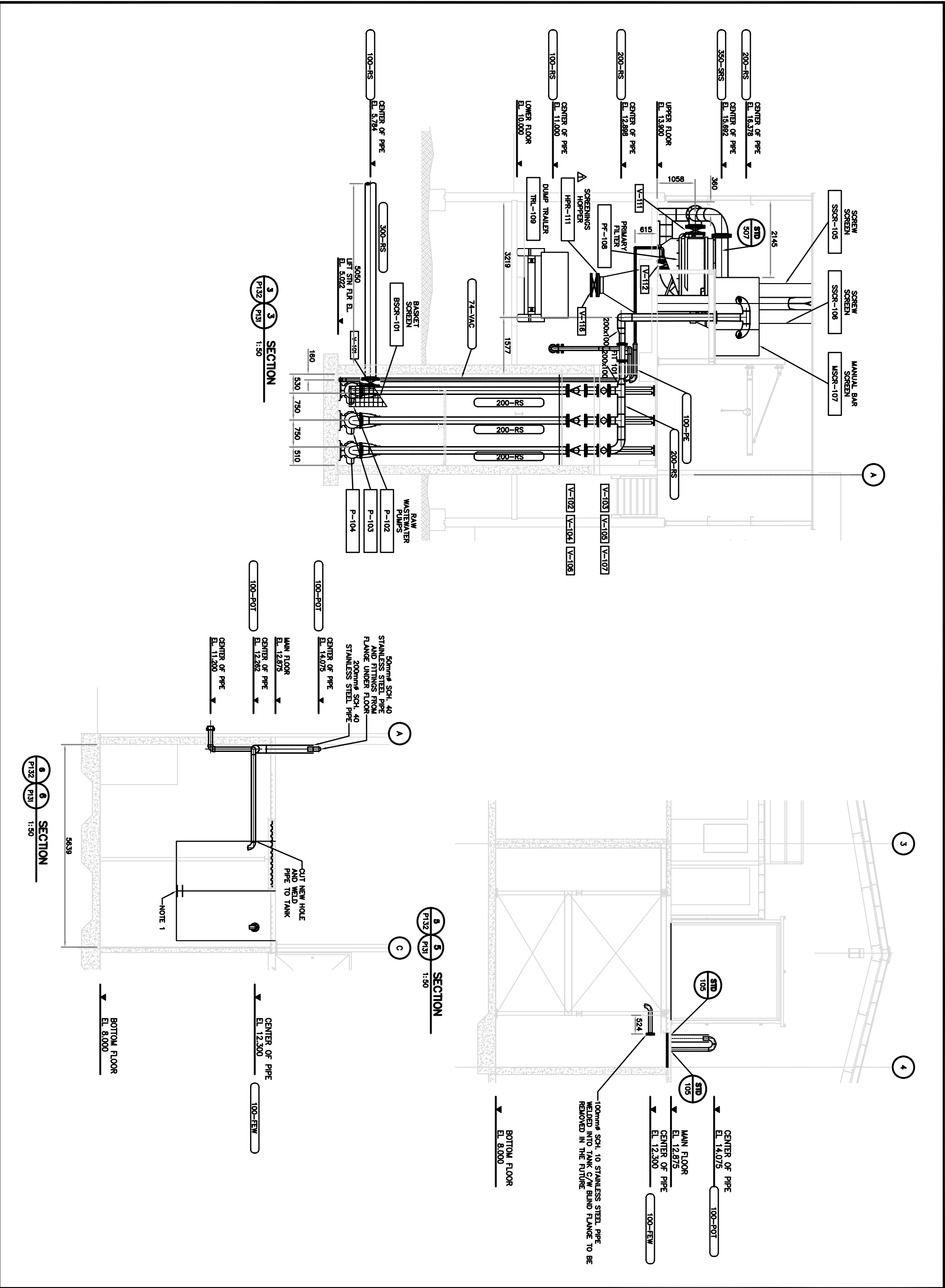
2	2006	02/11	RECORD DRAWING
1	2005	06/14	ISSUED FOR CONSTRUCTION
0	2005	02/14	ISSUED FOR TENDER
No.	Date		Description
REVISIONS			

**Iqaluit**  
CITY of IQUALUIT,  
Nunavut

Design	SNO/RB
Drawn	DKB
Approved	
Checked	
Project Title	CITY of IQUALUIT WASTEWATER TREATMENT PLANT PHASE 1
Drawing Title	PROCESS SECTIONS 1, 2 & 4

Scale	
Project No.	75360
Date	08.03.05
Drawing No.	P141
Revision	2





EarthTech  
A Division of The City of Iqaluit

1800-467-4667  
1800-467-4667  
1800-467-4667

**NOTES:**

1. PROVIDE TWO 150mm<sup>4</sup> HOLES IN THE MAIN FLOOR STAINLESS STEEL TANKS TO BE CUT THROUGH THE WALL ON THE INSIDE OF THE TANK AS CLOSE TO THE BOTTOM OF THE TANK AS POSSIBLE.

**APPENDIX No. 1**

**RECORD DRAWING**

INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY KULAK CONSTRUCTION LTD. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006/07/11	RECORD DRAWING
1	2005/05/14	ISSUED FOR CONSTRUCTION
0	2005/02/14	ISSUED FOR TENDER

No.	Date	Description
REVISIONS		

Stamp

CITY of IQALUIT,  
ᐃᖅᓂᓐᓂᓐ  
Nunavut

Design: SMO/RB

Drawn: DKB

Approved:

Checked:

**Project Title**

**CITY of IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

**Drawing Title**

**PROCESS  
SECTIONS  
3, 5, 6**

**Scale**

**AS NOTED**

**Project No.**

**75360**

**Drawing No.**

**P142**

**Date**

**08.03.05**

**Revision**

**2**

Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
KIDUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION CONTAINED HEREIN IS THE  
ACTUAL LOCATION BEFORE USE.

2	2006 06/11 RECORD DRAWING
1	2005 06/14 ISSUED FOR CONSTRUCTION
0	2005 02/14 ISSUED FOR TENDER
No.	Date
REVISIONS	

**Iqaluit**  
CITY of IQUALUIT,  
ᐃᑭᐱᑦ  
Nunavut

Design	SMO/RB
Drawn	DKB
Approved	
Checked	

Project Title  
**CITY of IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

Drawing Title  
**PROCESS  
STANDARD  
DETAILS**

Scale N.T.S.	Date
Project No. 75380	08.03.05
Drawing No. P151	Revision 2

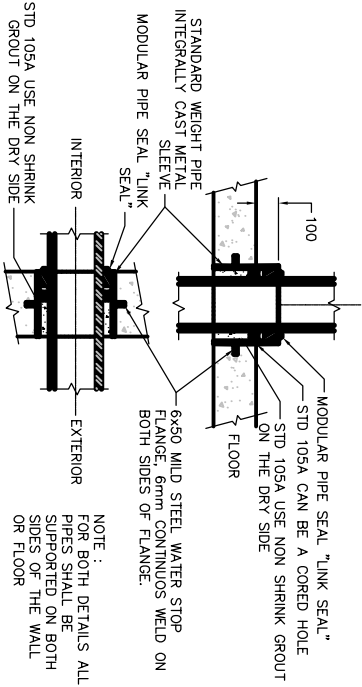
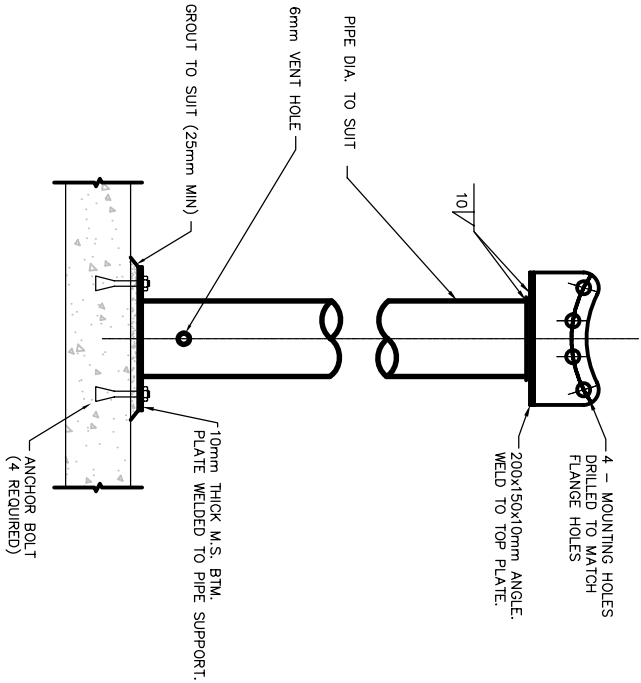
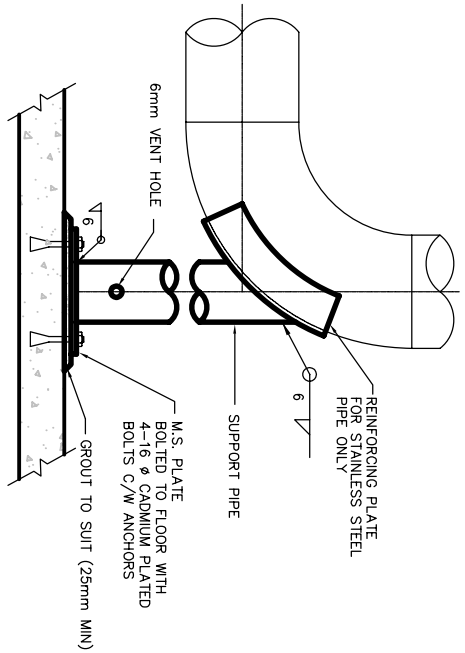


TABLE OF "LINK-SEAL" SERIES FOR STEEL PIPE – FOR OTHER SIZES SEE SUPPLIER'S TABLES									
PIPE	STEEL PIPE	LINK-SEAL	STEEL PIPE						
SIZE	ACTUAL	LINKS/ SEAL	SIZE						
13	21.3	52.5	250						
20	26.7	62.7	300						
25	33.4	62.7	350						
32	42.2	77.9	400						
36	46.3	90.1	450						
42	50.8	102.3	500						
48	57.1	114.3	550						
54	63.5	126.7	600						
60	69.9	139.1	650						
66	76.2	151.4	700						
72	82.5	163.7	750						
78	88.9	176.0	800						
84	95.2	188.3	850						
90	101.6	200.6	900						
96	107.9	212.9	950						
102	114.3	225.2	1000						
108	120.6	237.5	1050						
114	126.9	249.8	1100						
120	133.2	262.1	1150						
126	139.5	274.4	1200						
132	145.8	286.7	1250						
138	152.1	299.0	1300						
144	158.4	311.3	1350						
150	164.7	323.6	1400						
156	171.0	335.9	1450						
162	177.3	348.2	1500						
168	183.6	360.5	1550						
174	189.9	372.8	1600						
180	196.2	385.1	1650						
186	202.5	397.4	1700						
192	208.8	409.7	1750						
198	215.1	422.0	1800						
204	221.4	434.3	1850						
210	227.7	446.6	1900						
216	234.0	458.9	1950						
222	240.3	471.2	2000						
228	246.6	483.5	2050						
234	252.9	495.8	2100						
240	259.2	508.1	2150						
246	265.5	520.4	2200						
252	271.8	532.7	2250						
258	278.1	545.0	2300						
264	284.4	557.3	2350						
270	290.7	569.6	2400						
276	297.0	581.9	2450						
282	303.3	594.2	2500						
288	309.6	606.5	2550						
294	315.9	618.8	2600						
300	322.2	631.1	2650						
306	328.5	643.4	2700						
312	334.8	655.7	2750						
318	341.1	668.0	2800						
324	347.4	680.3	2850						
330	353.7	692.6	2900						
336	360.0	704.9	2950						
342	366.3	717.2	3000						
348	372.6	729.5	3050						
354	378.9	741.8	3100						
360	385.2	754.1	3150						
366	391.5	766.4	3200						
372	397.8	778.7	3250						
378	404.1	791.0	3300						
384	410.4	803.3	3350						
390	416.7	815.6	3400						
396	423.0	827.9	3450						
402	429.3	840.2	3500						
408	435.6	852.5	3550						
414	441.9	864.8	3600						
420	448.2	877.1	3650						
426	454.5	889.4	3700						
432	460.8	901.7	3750						
438	467.1	914.0	3800						
444	473.4	926.3	3850						
450	479.7	938.6	3900						
456	486.0	950.9	3950						
462	492.3	963.2	4000						
468	498.6	975.5	4050						
474	504.9	987.8	4100						
480	511.2	1000.1	4150						
486	517.5	1012.4	4200						
492	523.8	1024.7	4250						
498	530.1	1037.0	4300						
504	536.4	1049.3	4350						
510	542.7	1061.6	4400						
516	549.0	1073.9	4450						
522	555.3	1086.2	4500						
528	561.6	1098.5	4550						
534	567.9	1110.8	4600						
540	574.2	1123.1	4650						
546	580.5	1135.4	4700						
552	586.8	1147.7	4750						
558	593.1	1160.0	4800						
564	599.4	1172.3	4850						
570	605.7	1184.6	4900						
576	612.0	1196.9	4950						
582	618.3	1209.2	5000						
588	624.6	1221.5	5050						
594	630.9	1233.8	5100						
600	637.2	1246.1	5150						
606	643.5	1258.4	5200						
612	649.8	1270.7	5250						
618	656.1	1283.0	5300						
624	662.4	1295.3	5350						
630	668.7	1307.6	5400						
636	675.0	1319.9	5450						
642	681.3	1332.2	5500						
648	687.6	1344.5	5550						
654	693.9	1356.8	5600						
660	700.2	1369.1	5650						
666	706.5	1381.4	5700						
672	712.8	1393.7	5750						
678	719.1	1406.0	5800						
684	725.4	1418.3	5850						
690	731.7	1430.6	5900						
696	738.0	1442.9	5950						
702	744.3	1455.2	6000						
708	750.6	1467.5	6050						
714	756.9	1479.8	6100						
720	763.2	1492.1	6150						
726	769.5	1504.4	6200						
732	775.8	1516.7	6250						
738	782.1	1529.0	6300						
744	788.4	1541.3	6350						
750	794.7	1553.6	6400						
756	801.0	1565.9	6450						
762	807.3	1578.2	6500						
768	813.6	1590.5	6550						
774	819.9	1602.8	6600						
780	826.2	1615.1	6650						
786	832.5	1627.4	6700						
792	838.8	1639.7	6750						
798	845.1	1652.0	6800						
804	851.4	1664.3	6850						
810	857.7	1676.6	6900						
816	864.0	1688.9	6950						
822	870.3	1701.2	7000						
828	876.6	1713.5	7050						
834	882.9	1725.8	7100						
840	889.2	1738.1	7150						
846	895.5	1750.4	7200						
852	901.8	1762.7	7250						
858	908.1	1775.0	7300						
864	914.4	1787.3	7350						
870	920.7	1799.6	7400						
876	927.0	1811.9	7450						
882	933.3	1824.2	7500						
888	939.6	1836.5	7550						
894	945.9	1848.8	7600						
900	952.2	1861.1	7650						
906	958.5	1873.4	7700						
912	964.8	1885.7	7750						
918	971.1	1898.0	7800						
924	977.4	1910.3	7850						
930	983.7	1922.6	7900						
936	990.0	1934.9	7950						
942	996.3	1947.2	8000						
948	1002.6	1959.5	8050						
954	1008.9	1971.8	8100						
960	1015.2	1984.1	8150						
966	1021.5	1996.4	8200						
972	1027.8	2008.7	8250						
978	1034.1	2021.0	8300						
984	1040.4	2033.3	8350						
990	1046.7	2045.6	8400						
996	1053.0	2057.9	8450						
1002	1059.3	2070.2	8500						
1008	1065.6	2082.5	8550						
1014	1071.9	2094.8	8600						
1020	1078.2	2107.1	8650						
1026	1084.5	2119.4	8700						
1032	1090.8	2131.7	8750						
1038	1097.1	2144.0	8800						
1044	1103.4	2156.3	8850						
1050	1109.7	2168.6	8900						
1056	1116.0	2180.9	8950						
1062	1122.3	2193.2	9000						
1068	1128.6	2205.5	9050						
1074	1134.9	2217.8	9100						
1080	1141.2	2230.1	9150						
1086	1147.5	2242.4	9200						
1092	1153.8	2254.7	9250						
1098	1160.1	2267.0	9300						
1104	1166.4	2279.3	9350						
1110	1172.7	2291.6	9400						
1116	1179.0	2303.9	9450						
1122	1185.3	2316.2	9500						
1128	1191.6	2328.5	9550						
1134	1197.9	2340.8	9600						
1140	1204.2	2353.1	9650						
1146	1210.5	2365.4	9700						
1152	1216.8	2377.7	9750						
1158	1223.1	2390.0	9800						
1164	1229.4	2402.3	9850						
1170	1235.7	2414.6	9900						
1176	1242.0	2426.9	9950						
1182	1248.3	2439.2	10000						
1188	1254.6	2451.5	10050						
1194	1260.9	2463.8	10100						
1200	1267.2	2476.1	10150						
1206	1273.5	2488.4	10200						
1212	1279.8	2500.7	10250						
1218	1286.1	2513.0	10300						
1224	1292.4	2525.3	10350						
1230	1298.7	2537.6	10400						
1236	1305.0	2549.9	10450						
1242	1311.3	2562.2	10500						
1248	1317.6	2574.5	10550						
1254	1323.9	2586.8	10600						
1260	1330.2	2599.1	10650						
1266	1336.5	2611.4	10700						
1272	1342.8	2623.7	10750						
1278	1349.1	2636.0	10800						
1284	1355.4	2648.3	10850						
1290	1361.7	2660.6	10900						
1296	1368.0	2672.9	10950						
1302	1374.3	2685.2	11000						
1308	1380.6	2697.5	11050						
1314	1386.9	2709.8	11100						
1320	1393.2	2722.1	11150						
1326	1399.5	2734.4	11200						
1332	1405.8	2746.7	11250						
1338	1412.1	2759.0	11300						
1344	1418.4	2771.3	11350						
1350	1424.7	2783.6	11400						
1356	1431.0	2795.9	11450						
1362	1437.3	2808.2	11500						
1368	1443.6	2820.5	11550						
1374	1449.9	2832.8	11600						
1380	1456.2	2845.1	11650						
1386	1462.5	2857.4	11700						
1392	1468.8	2869.7	11750						
1398	1475.1	2882.0	11800						
1404	1481.4	2894.3	11850						
1410	1487.7	2906.6	11900						
1416	1494.0	2918.9	11950						
1422	1500.3	2931.2	12000						
1428	1506.6	2943.5	12050						
1434	1512.9	2955.8	12100						
1440	1519.2	2968.1	12150						
1446	1525.5	2980.4	12200						
1452	1531.8	2992.7	12250						
1458	1538.1	3005.0	12300						
1464	1544.4	3017.3	12350						
1470	1550.7	3029.6	12400						
1476	1557.0	3041.9	12450						
1482	1563.3	3054.2	12500						
1488	1569.6	3066.5	12550						
1494	1575.9	3078.8	12600						
1500	1582.2	3091.1	12650						
1506	1588.5	3103.4	12700						
1512	1594.8	3115.7	12750						
1518	1601.1	3128.0	12800						
1524	1607.4	3140.3	12850						
1530	1613.7	3152.6	12900						
1536	1620.0	3164.9	12950						
1542	1626.3	3177.2	13000						
1548	1632.6	3189.5	13050						
1554	1638.9	3201.8	13100						
1560	1645.2	3214.1	13150						
1566	1651.5	3226.4	13200						
1572	1657.8	3238.7	13250						
1578	1664.1	3251.0	13300						
1584	1670.4	3263.3	13350						
1590	1676.7	3275.6	13400						
1596	1683.0	3287.9	13450						
1602	1689.3	3299.2	13500						
1608	1695.6	3311.5	13550						
1614	1701.9	3323.8	13600						
1620	1708.2	3336.1	13650						
1626	1714.5	3348.4	13700						
1632	1720.8	3360.7	13750						
1638	1727.1	3373.0	13800						
1644	1733.4	3385.3	13850						
1650	1739.7	3397.6	13900						
1656	1746.0	3409.9	13950						
1662	1752.3	3422.2	14000						
1668	1758.6	3434.5	14050						
1674	1764.9	3446.8	14100						
1680	1771.2	3459.1	14150						
1686	1777.5	3471.4	14200						
1692	1783.8	3483.7	14250						
1698	1790.1	3496.0	14300						
1704	1796.4	3508.3	14350						
1710	1802.7	3520.6	14400						
1716	1809.0	3532.9	14450						
1722	1815.3	3545.2	14500						
1728	1821.6	3557.5	14550						
1									

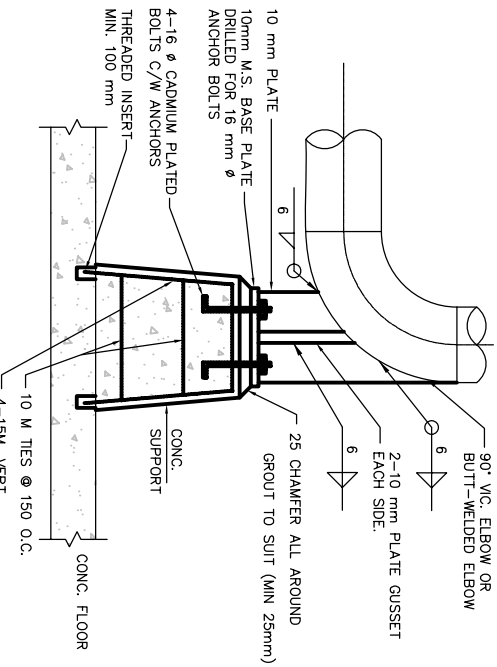


**STD 207**  
FLANGED PIPE SUPPORT



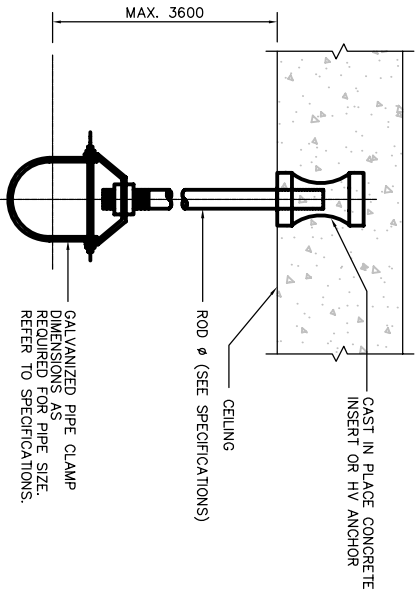
PIPE SIZE (mm)	SUPPORT PIPE (mm)	PLATE SIZE (mm)	MAXIMUM SUPPORT PIPE LENGTH (mm)
100	50 SCH 40	200 X 200 X 6	1525
150	50 SCH 40	200 X 200 X 6	1525
200	100 SCH 40	250 X 250 X 6	1825
250	100 SCH 40	250 X 250 X 6	1825
300	150 SCH 40	300 X 300 X 10	1830
350	150 SCH 40	300 X 300 X 10	1830
400	200 SCH 40	350 X 350 X 10	1830
500	200 SCH 40	350 X 350 X 10	1830
600	250 SCH 40	400 X 400 X 10	1830
750	250 SCH 40	400 X 400 X 10	1830
900	300 SCH 40	450 X 450 X 10	1830

**STD 206**  
TYPE 1 BASE ELBOW SUPPORT FOR STEEL PIPE



PIPE SIZE (mm)	PLATE SIZE (mm)
100	100 X 100 X 6
150	125 X 125 X 6
200	150 X 150 X 6
250	150 X 150 X 6
300	200 X 200 X 10
350	200 X 200 X 10
400	250 X 250 X 10
500	250 X 250 X 10
600	300 X 300 X 10
	350 X 350 X 10

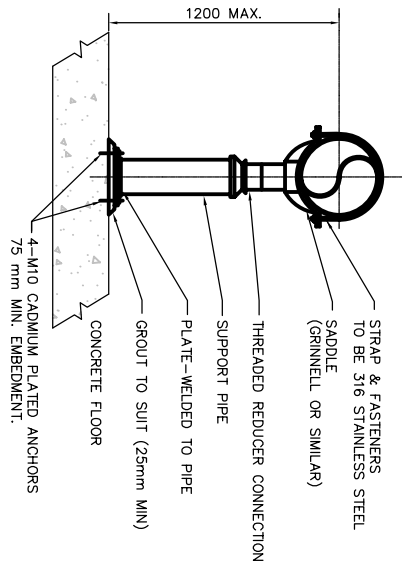
**STD 206**  
TYPE 2 BASE ELBOW SUPPORT FOR STEEL PIPE



PIPE SIZE (mm)	ROD SIZE (mm)	MAX LOAD (kg)
25	9.4	280
50	9.4	280
75	12.0	480
100	12.0	800
150	20.0	1230
200	22.0	1710
250	25.0	2250
300	25.0	2250
350	25.0	2250
400	25.0	2250
450	25.0	2250
500	32.0	3630
600	32.0	3630

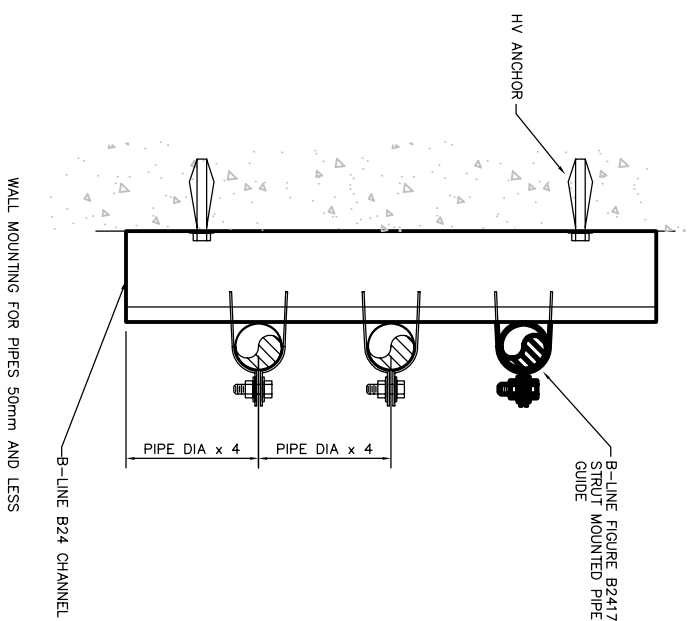
SAFETY FACTOR = 5

**STD 208**  
SINGLE PIPE HANGER



PIPE SIZE (mm)	SUPPORT PIPE (mm)	PLATE SIZE (mm)
50	38	150 X 150 X 9.5
75	50	250 X 250 X 9.5
100	75	250 X 250 X 9.5
150	100	250 X 250 X 9.5
200	150	250 X 250 X 9.5
250	200	300 X 300 X 9.5

**STD 213**  
ADJUSTABLE PIPE SUPPORT



**STD 214**  
SMALL PIPING WALL MOUNTED SUPPORT

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
KIDUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 05/14	ISSUED FOR CONSTRUCTION
0	2005 02/14	ISSUED FOR TENDER

REVISIONS

**Iqaluit**  
CITY of IQALUIT,  
Nunavut

Design SMQ/RB

Drawn DK8

Approved

Checked

Project Title  
**CITY of IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

PROCESS  
STANDARD  
DETAILS

Scale N.T.S.	Date
Project No. 75380	08.03.05
Drawing No. P152	Revision 2



Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
**KIDUK CONSTRUCTION LTD.**  
THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

2	2006 02/11 RECORD DRAWING
1	2005 06/14 ISSUED FOR CONSTRUCTION
0	2005 02/14 ISSUED FOR TENDER
No.	Description
REVISIONS	

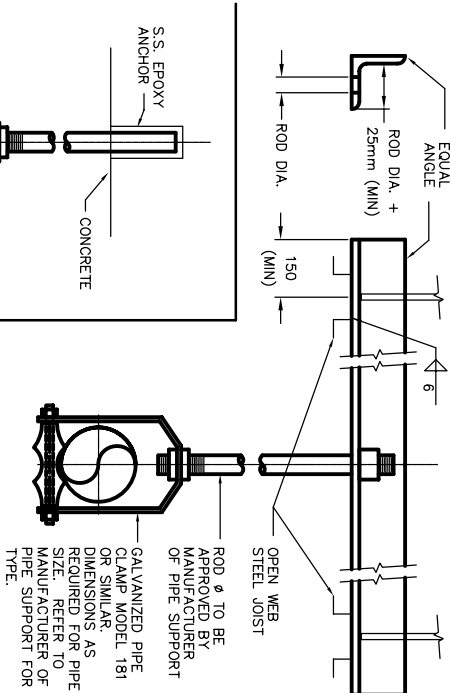
**Iqaluit**  
CITY of Iqaluit,  
ᐃᑭᓄᓐᑦ  
Nunavut

Design	SMO/RB
Drawn	DKB
Approved	
Checked	

Project Title  
**CITY of Iqaluit  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

PROCESS  
STANDARD  
DETAILS

Scale N.T.S.	Date
Project No. 75380	08.03.05
Drawing No. P153	Revision 2

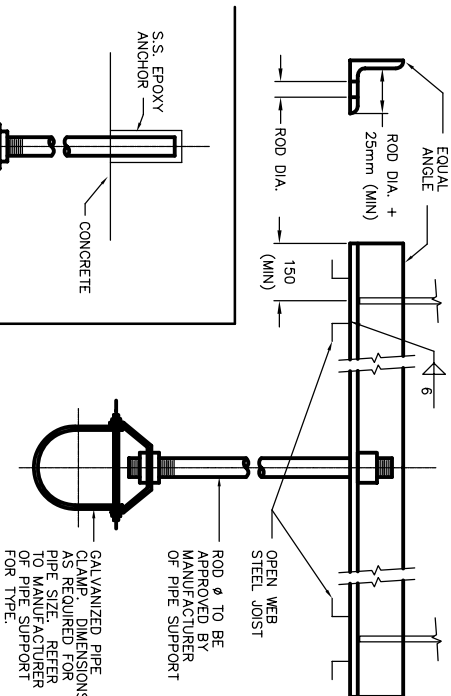


NOM. PIPE DIA. (mm)	ROD DIA. (mm)	MAX LOAD (kg)
25	9.4	280
50	12.0	280
75	14.0	510
100	16.0	510
150	20.0	1230
200	22.0	1710
250	25.0	2250
300	25.0	2250
350	25.0	2250
450	25.0	2250
500	32.0	3630
600	32.0	3630

NOTE:  
ALL PIPE HANGER MATERIAL  
IN WET LOCATIONS TO BE 316 SS  
PROVIDE PIPE SUPPORT WITH SAFETY FACTOR = 5  
GRINNELL OR SIMILAR

#### PIPE HANGER

STD  
219

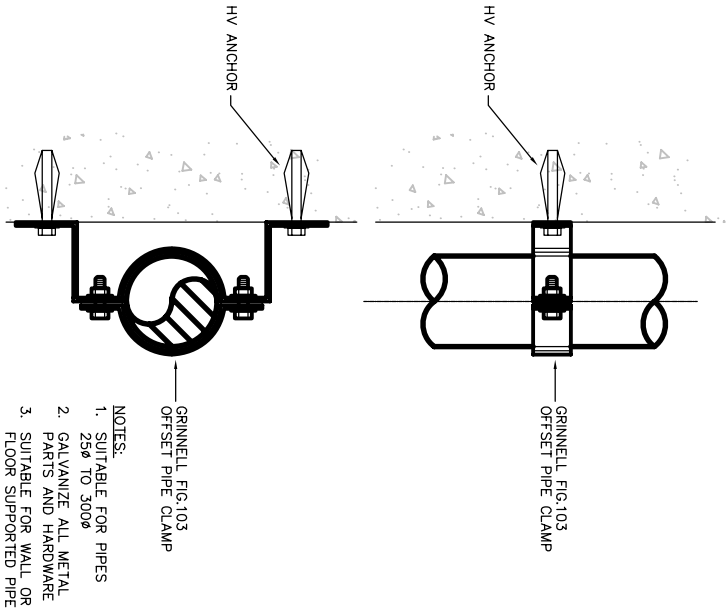


NOM. PIPE DIA. (mm)	ROD DIA. (mm)	MAX LOAD (kg)
25	9.4	280
50	12.0	280
75	14.0	510
100	16.0	510
150	20.0	1230
200	22.0	1710
250	25.0	2250
300	25.0	2250
350	25.0	2250
450	25.0	2250
500	32.0	3630
600	32.0	3630

NOTE:  
ALL PIPE HANGER MATERIAL  
IN WET LOCATIONS TO BE 316 SS  
PROVIDE PIPE SUPPORT WITH SAFETY FACTOR = 5  
GRINNELL OR SIMILAR

#### PIPE HANGER

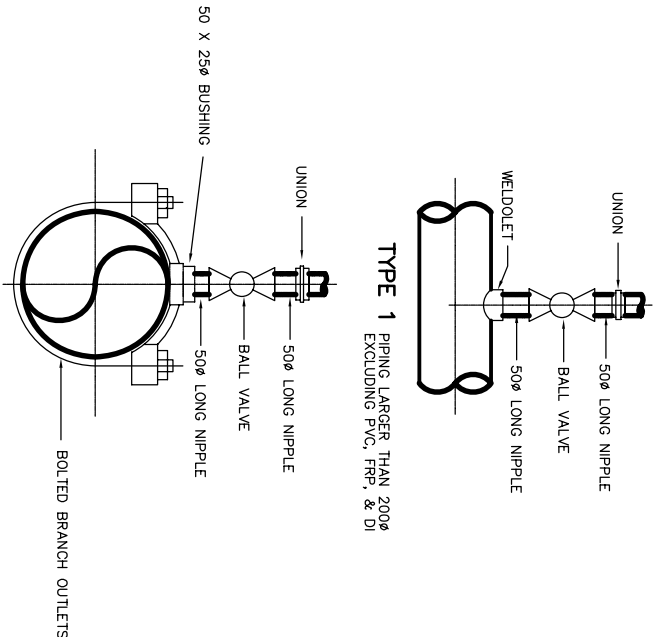
STD  
217



NOTES:  
1. SUITABLE FOR PIPES  
250 TO 3000  
2. GALVANIZE ALL METAL  
PARTS AND HARDWARE  
3. SUITABLE FOR WALL OR  
FLOOR SUPPORTED PIPE

#### OFFSET PIPE SUPPORT

STD  
216



TYPE 2  
SERVICE SADDLE FOR ALL PVC, S.S.,  
FRP, DI & STEEL LINES 2000 AND LESS.

#### TYPE 1 AND 2 TAPPINGS

STD  
203

**Stamp**

# RECORD DRAWING

IS AS SUPPLIED BY:  
KUDLUK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

2	2006 02/11	RECORD DRAINING
1	2005 06/14	ISSUED FOR CONSTRUCTION*
0	2005 03/14	ISSUED FOR TENDER
No.	Date	Description

## REVISIONS



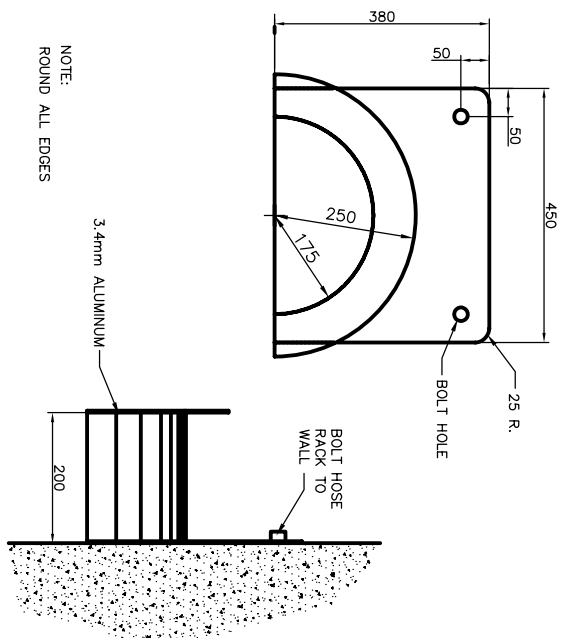
 CITY of IQALUIT,  
Nunavut

Design	SNO/RB
Drawn	DKB
Approved	
Checked	

**CITY OF IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

## PROCESS STANDARD DETAILS

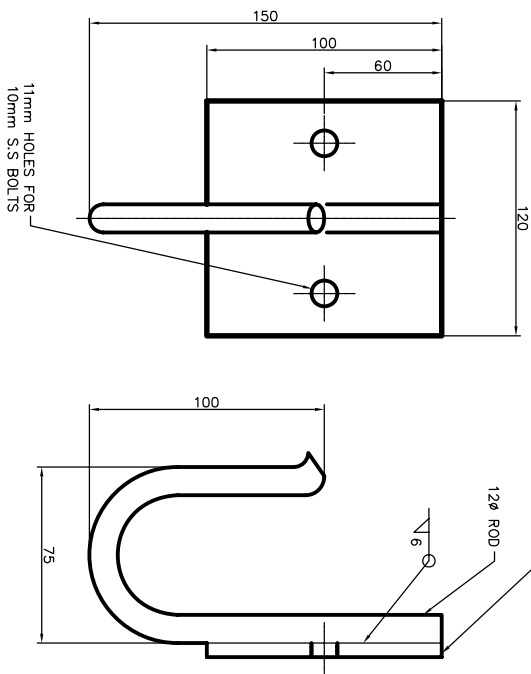
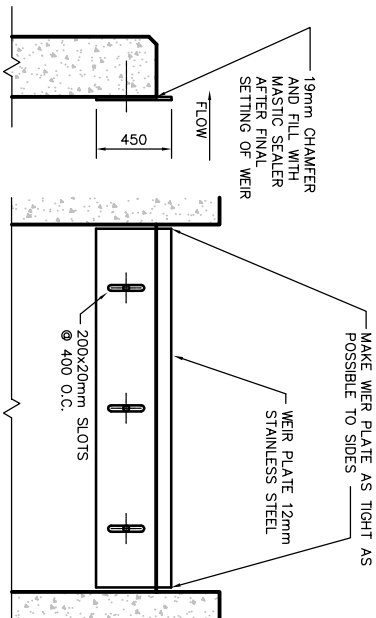
Scale N.T.S.	Project No.	Date
	75360	08.03.05
Drawing No.		Revision
P154		2



NOTE:  
ROUND ALL EDGES

3.4mm ALUMINUM—

200



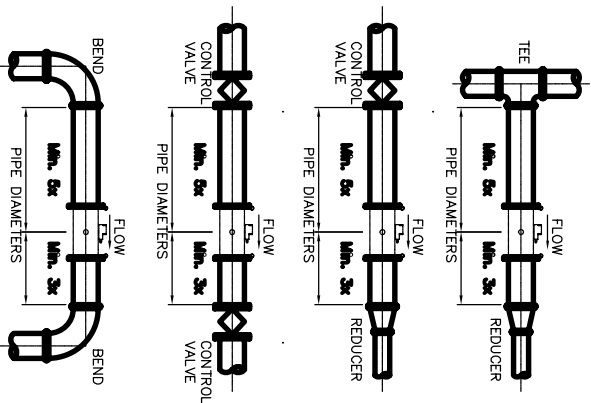
6mm THICK PLATE

NOTE:  
GALVANIZE ALL PARTS

## TYPE 1 HOSE RACK

## WEIR PLATE DETAIL

## CHAIN HOOK




NOTES:

1. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH THESE INSTALLATION RECOMMENDATIONS.
2. WHERE SPECIFIC INSTALLATION CONFLICTS ARISE THAT MIGHT PREVENT THESE INSTALLATION RECOMMENDATIONS FROM BEING COMPLIED WITH, CONSULT THE ENGINEER BEFORE PROCEEDING WITH THE INSTALLATION.
3. WHERE THE DRAWINGS INDICATE DIMENSIONS THAT DIFFER FROM THESE DETAILS, THE DRAWINGS SHALL TAKE PRIORITY.

**MAGNETIC FLOWMETER  
INSTALLATION CONFIGURATIONS**

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
**KUDLICK CONSTRUCTION LTD.**  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/07	ISSUED FOR TENDER

**Iqaluit**  
  
**ᐱᐅᐅᐱᐅ**

**CITY of IQUALUIT,**  
**Nunavut**

Design	TDC
Draught	CFC
Approved	
Checked	
Project Title	
CITY OF IQALUIT WASTEWATER TREATMENT PLANT PHASE 1	
Drawing Title	

## P&ID SYMBOLS AND IDENTIFICATION

[illegible]





Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY:  
**KODUK CONSTRUCTION LTD.**  
THE RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

No.	Date	Description
2	2006 05/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 02/04	ISSUED FOR TENDER

REVISIONS

**Iqaluit**  
CITY of IQALUIT,  
Nunavut

Design	TDC
Drawn	TDC
Approved	
Checked	

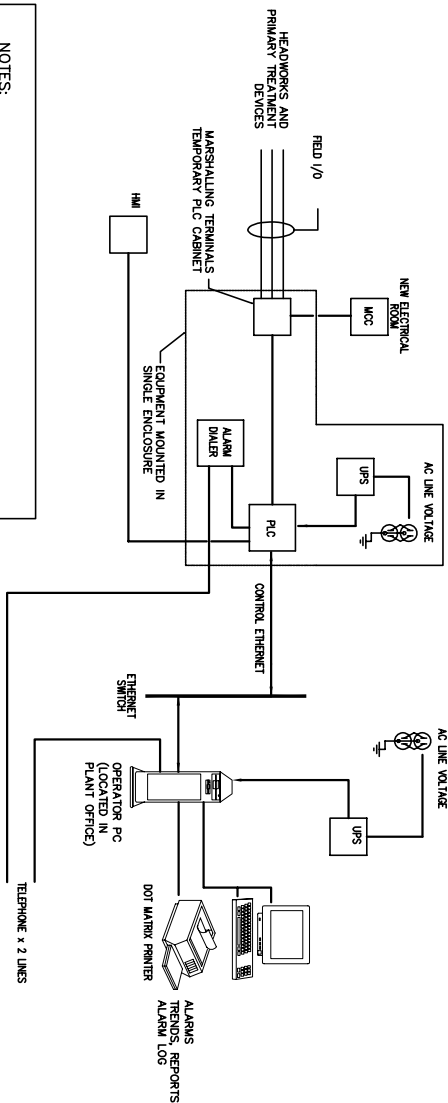
Project Title  
**CITY of IQALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

Drawing Title  
**CONTROL SYSTEM  
SCHEMATICS AND  
DETAILS**

Scale	Date
N.T.S.	
Project No.	75360
Drawing No.	1113
Revision	2

SLOT	0	1	2	3	4	5	6	7	8	9	10	11	12	SLOT	13	14	15	16
POWER SUPPLY 1746-P2												POWER SUPPLY 1746-P2						
CPU 1747-L551												1746-NO4I						
1746-IB16												1746-NI8						
1746-IB16												BLANK						
1746-0X8												BLANK						
1746-0X8																		
1746-NI8																		
1746-NO4I																		
174-IA16																		
174-IA16																		
1746-0X8																		
1746-0X8																		
1746-NT8																		
1746-OW16																		

**3** PLC SYSTEM RACK LAYOUT  
N.T.S.



- NOTES:
- 1) TEMPORARY PLC CABINET TO INCLUDE THE I/O MARSHALING TERMINALS, PLC UPS, 24 VOLT POWER SUPPLY, PLC AND INTERPOSING RELAYS AS REQUIRED
  - 2) DIVISION 17 RESPONSIBLE FOR THE SUPPLYING, INSTALLATION, PROGRAMMING, AND COMMISSIONING OF ALL COMPONENTS INDICATED ON THE DRAWINGS AND AS DEFINED IN THE PROJECT SPECIFICATIONS

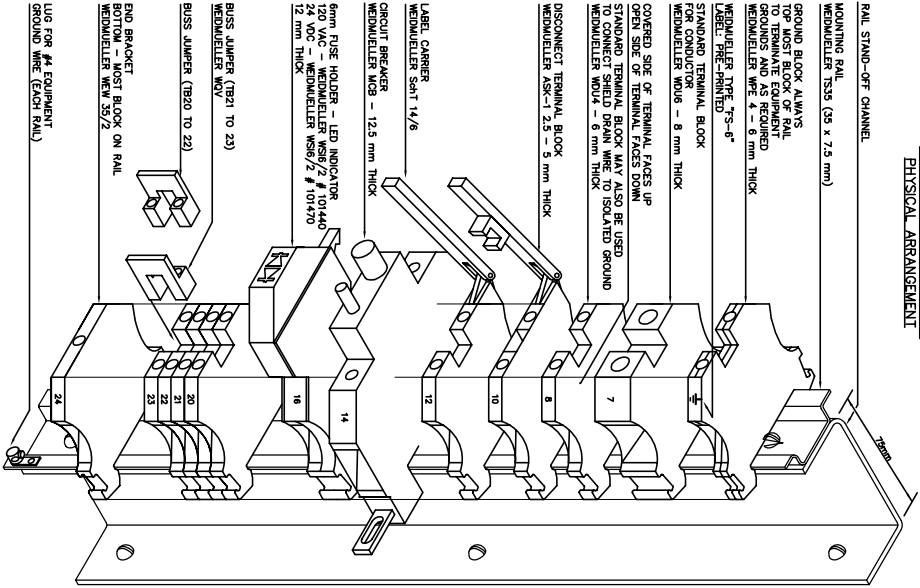
**1** PLC CONTROL SYSTEM SCHEMATIC DIAGRAM  
N.T.S.

TERMINAL BLOCK ASSEMBLY  
CABINET DRAWING REPRESENTATION

TB1	GROUND BLOCK
1	
6	POWER
7	TERMINAL BLOCK
8	TERMINAL BLOCK
9	TERMINAL BLOCK
10	DISCONNECT
11	TERMINAL BLOCK
12	LABEL CARRIER ON TERMINAL 12 TO FIELD 105-1056
13	
14	5A CIRCUIT BREAKER
15	
16	FUSE HOLDER WITH 1A FUSE
17	
18	
19	
20	LEFT SIDE BUSS JUMPER
21	RIGHT SIDE BUSS JUMPER
22	
23	
24	

NOTES:

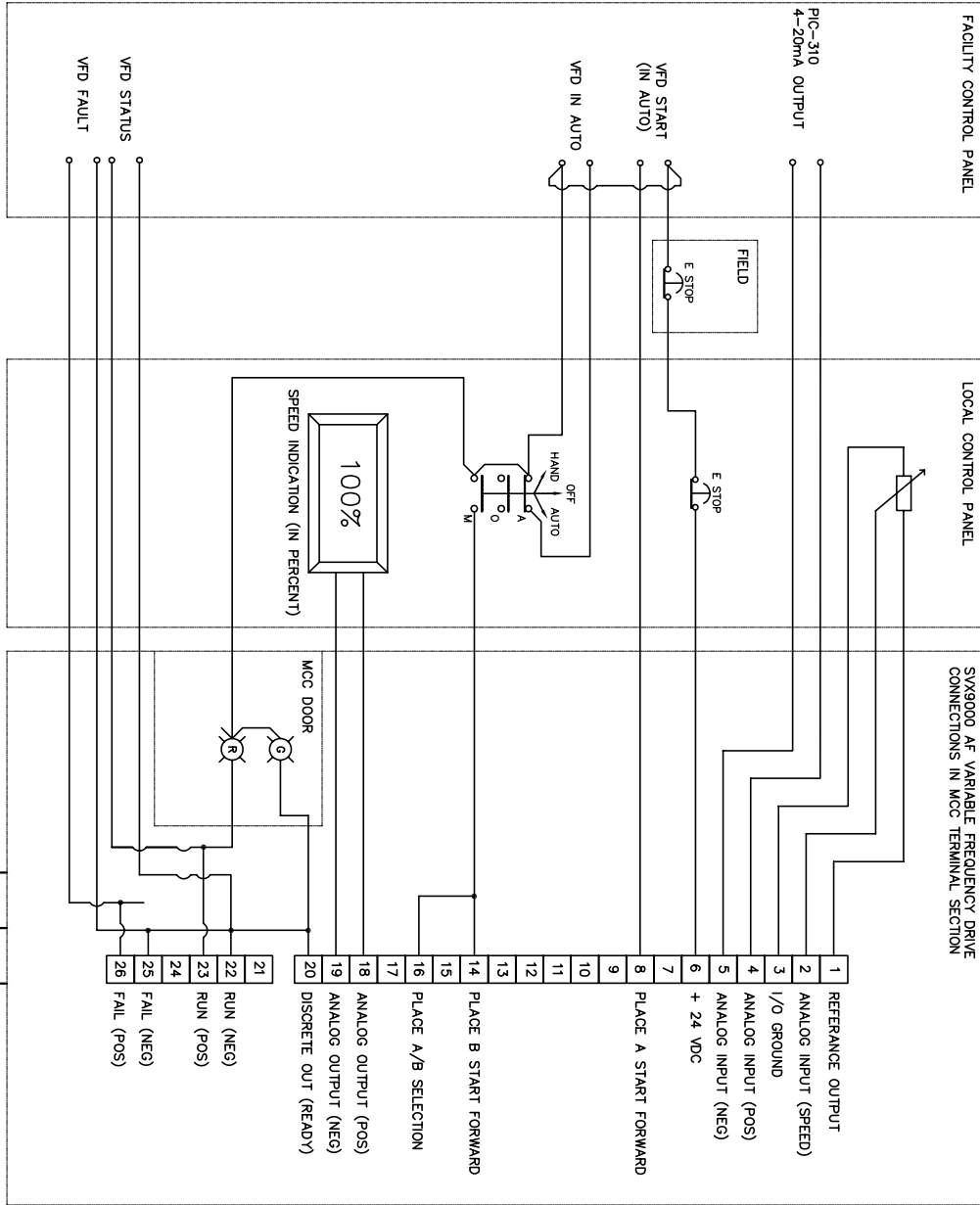
1. ENGINEERING APPROVAL REQUIRED FOR SUBSTITUTION OR ADDITIONS.
2. ALL MATERIAL (INCLUDING FUSES) TO BE SUPPLIED BY CONTRACTOR.
3. TOP MOST TERMINAL IN TERMINAL BLOCK TO BE GROUND BLOCK. END BRACKET NOT REQUIRED AT TOP.
4. BOTTOM MOST TERMINAL IN TERMINAL BLOCK TO BE END BRACKET.
5. EACH TERMINAL BLOCK WITHIN A CABINET TO HAVE A UNIQUE TERMINAL NUMBER. TYPICALLY OF BLOCKS START AT NUMBER 1.
6. BUSS SIZE OF PUSED TERMINAL BLOCK ON LEFT OR TOP SIDE ONLY.
7. FUSE SIZE TO BE 6 x 32



FACILITY CONTROL PANEL

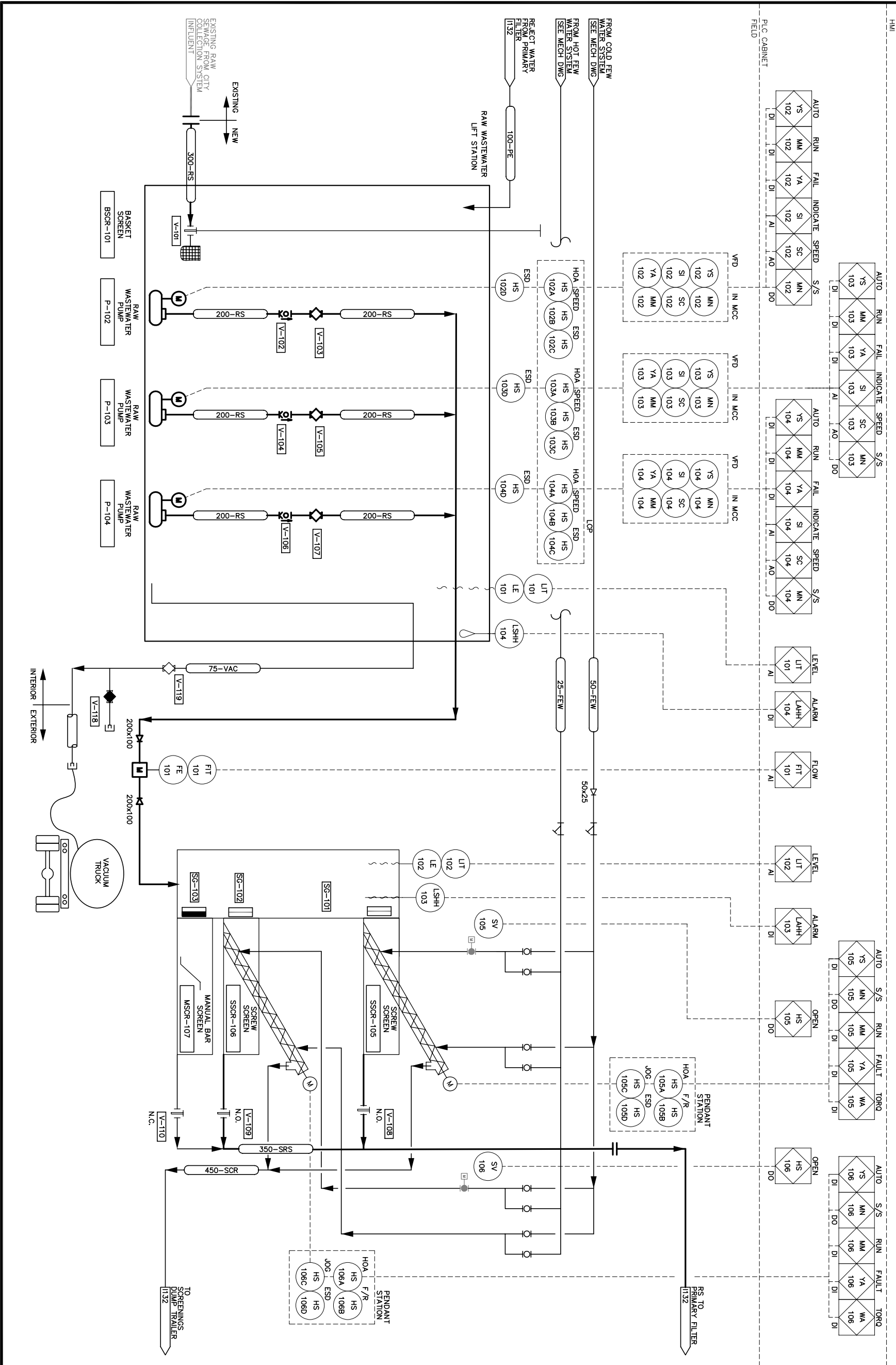
LOCAL CONTROL PANEL

SY9000 AF VARIABLE FREQUENCY DRIVE CONNECTIONS IN MCC TERMINAL SECTION



**2** MARSHALING TERMINAL COMPONENTS  
N.T.S.

**4** MOTOR STARTER SCHEMATIC PUMPS P-102, P-103, & P-104  
N.T.S.



**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS  
IS AS SUPPLIED BY:  
KUDLIK CONSTRUCTION, LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

REVISIONS		
No.	Date	Description
2	2006 05/09	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 03/14	ISSUED FOR TENDER

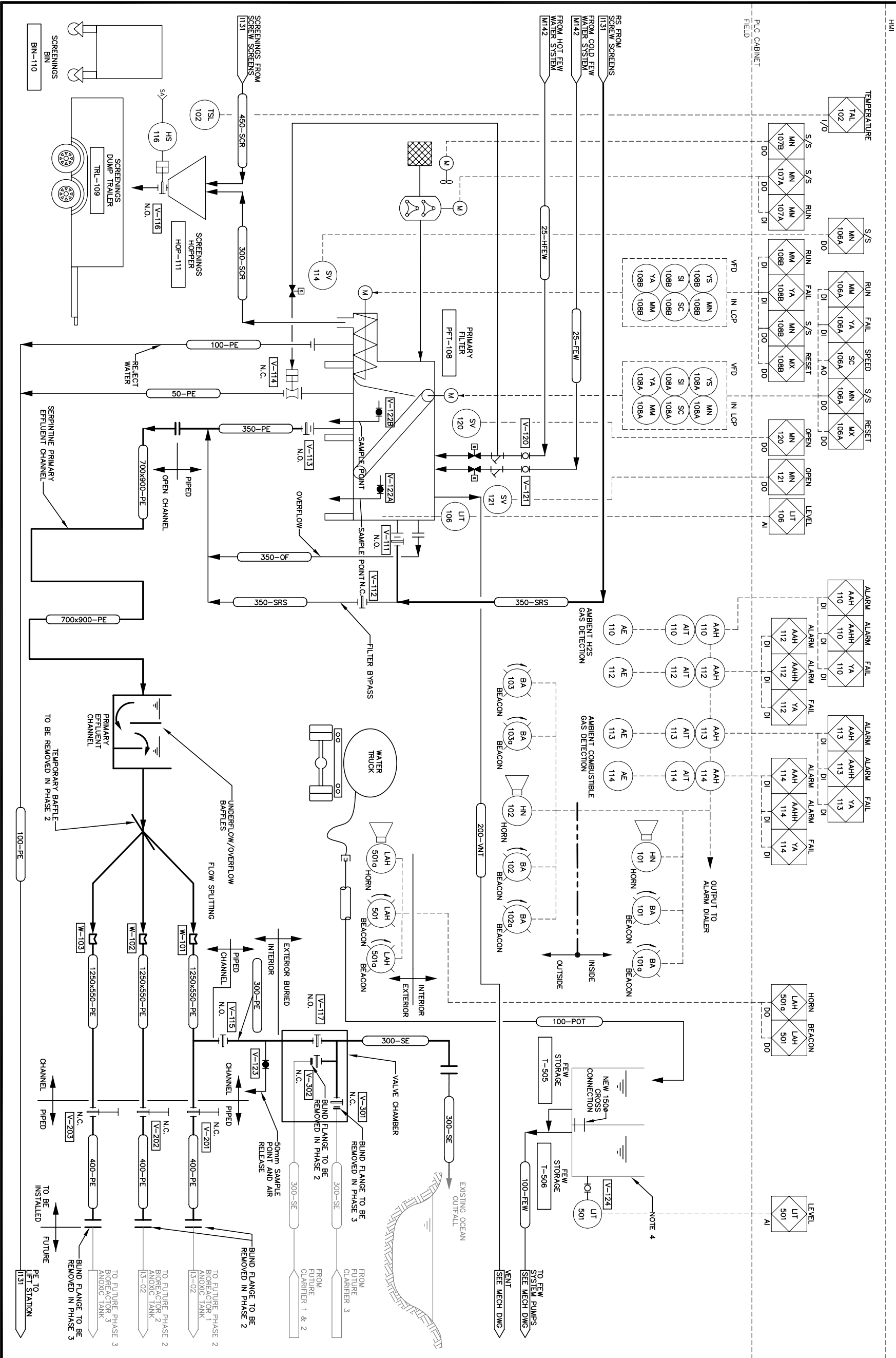
**Iqaluit**  
  
CITY of IQALUIT,  
Nunavut

Design	SNS/TDC/MJW
Drawn	DKB
Approved	
Checked	

**CITY OF IQUALUIT  
WASTEWATER  
TREATMENT PLANT  
PHASE 1**

PUMPING & PRELIMINARY SCREENING P&ID	
Scale N.T.S.	Date
Project No.	08.03.05
75360	
Drawing No.	Revision
1131	2

FOR HMI REQUIREMENTS REFER TO SPECIFICATIONS



EarthTech  
A New Water Care Ltd. Company  
17703-1354 Avenue  
Edmonton, Alberta  
T5S 1A4 CANADA  
Tel: 780-488-8000  
Fax: 780-488-8101  
www.earthtech.ca

Stamp

**RECORD DRAWING**  
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY THE CLIENT. THE COMPLETENESS AND ACCURACY OF THIS INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.

2	2006	02/09	RECORD DRAWING
1	2005	06/14	ISSUED FOR CONSTRUCTION
0	2005	02/14	ISSUED FOR TENDER
No.	Date	Description	

Design: SMS/TDC/MAW

Drawn: DMB

Approved:

Checked:

Project Title: CITY OF IQALUIT WASTEWATER TREATMENT PLANT PHASE 1

Drawing Title: SOLIDS HANDLING, PRIMARY FILTERING & OUTFALL P&ID

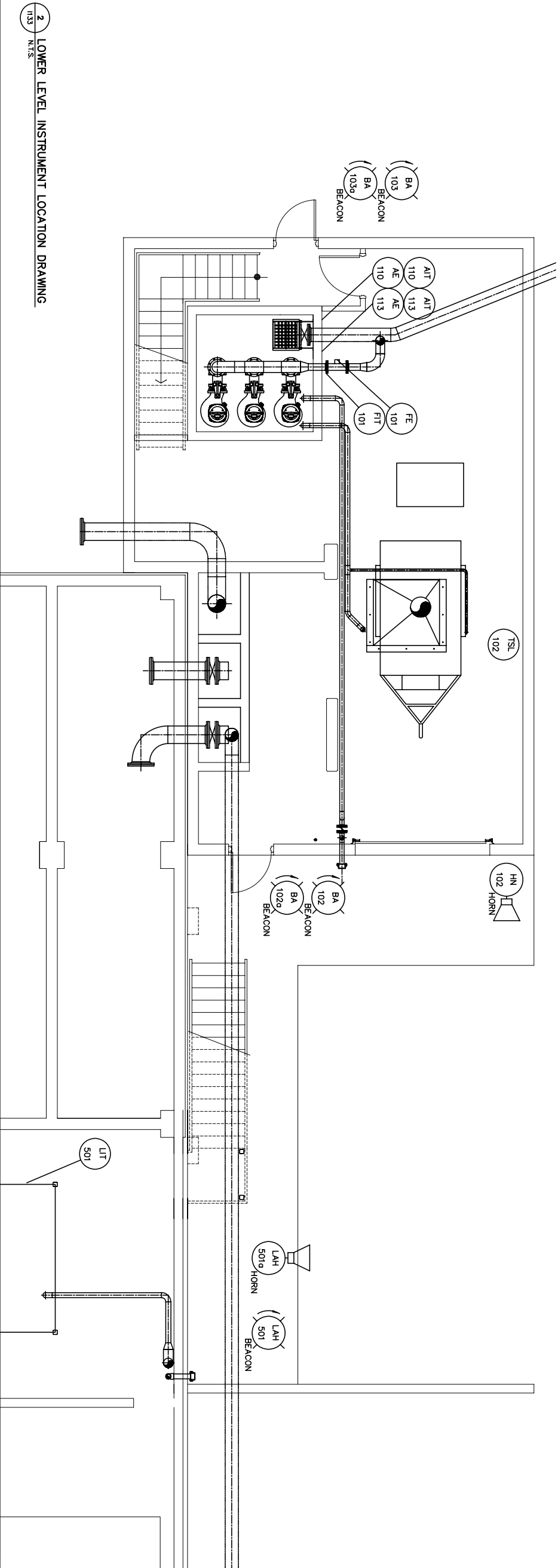
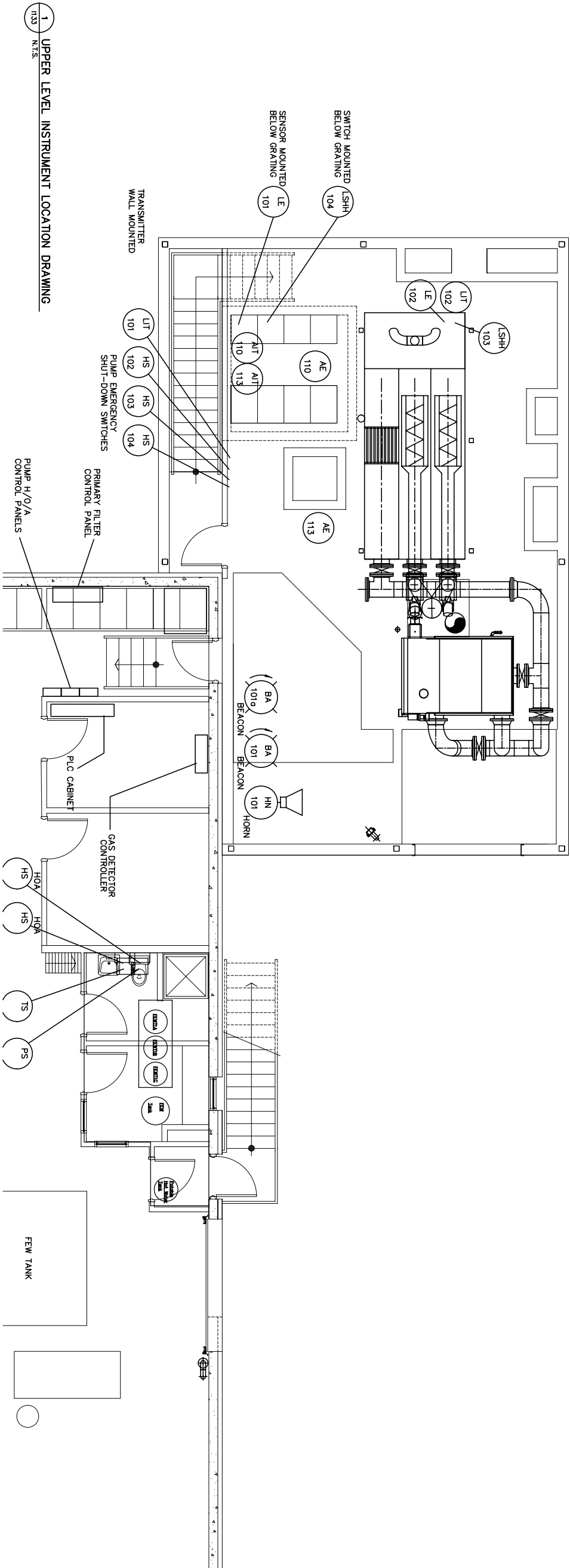
Scale: N.T.S.

Project No.: 75360

Date: 08.03.05

Drawing No.: 1132

Revision: 2



2	2006	05/10	RECORD DRAWING
1	2005	05/14	ISSUED FOR CONSTRUCTION
0	2005	02/14	ISSUED FOR TENDER
No.	Date	Description	
REVISIONS			



Stamp

## RECORD DRAWING

IS AS SUPPLIED BY:  
KUDLIK CONSTRUCTION LTD.  
THE COMPLETENESS AND ACCURACY OF THIS  
RECORD DRAWING IS NOT GUARANTEED.  
INFORMATION SHOULD BE VERIFIED AT THE  
ACTUAL LOCATION BEFORE USE.

2	2006 05/11	RECORD DRAWING
1	2005 06/14	ISSUED FOR CONSTRUCTION
0	2005 02/14	ISSUED FOR TENDER
No.	Date	Description

## REVISIONS

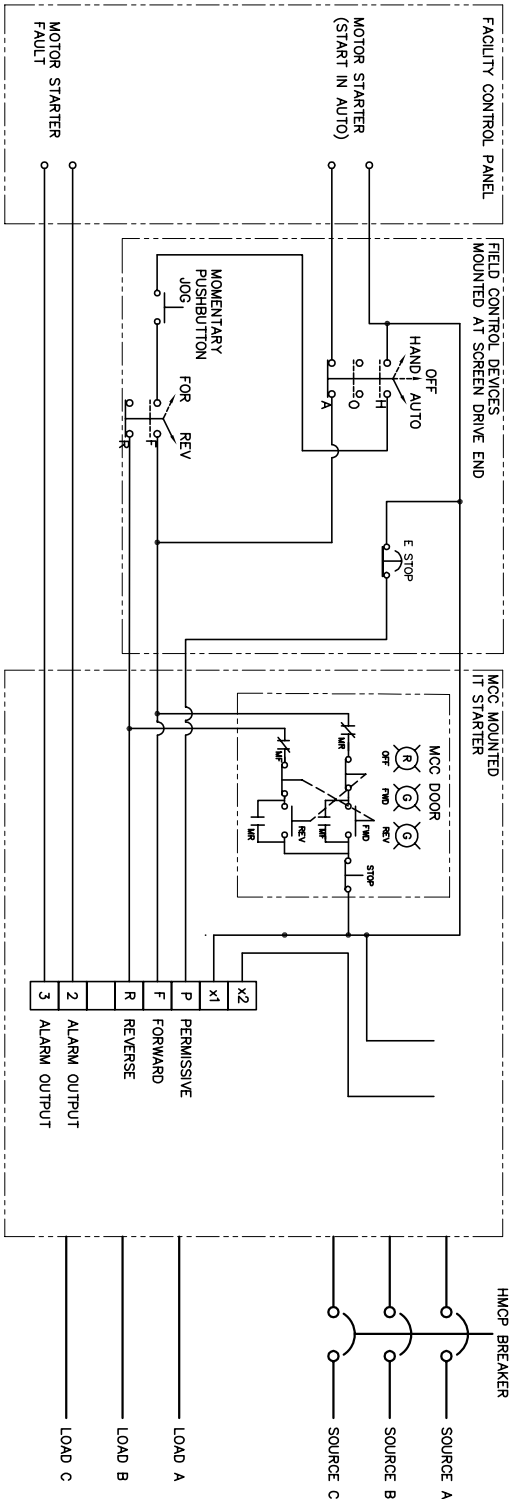


**Project Title**  
**CITY OF IQUALUIT**  
**WASTEWATER**  
**TREATMENT PLANT**  
**PHASE 1**

### Drawing Title

# DRIVE CONTROL & GAS DETECTION LOOP DIAGRAM

Scale N.T.S.	Date
Project No. 75360	08.03.05
Drawing No. 1134	Revision 2

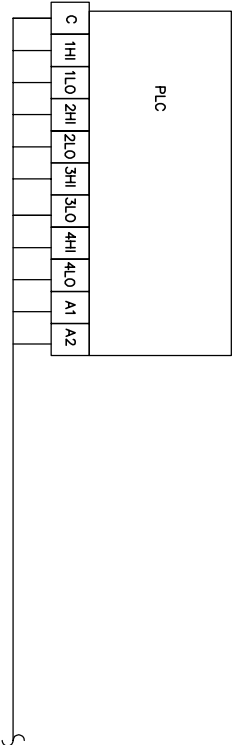


1 SCREEN DRIVE MOTOR CONTROL SCHEMATIC

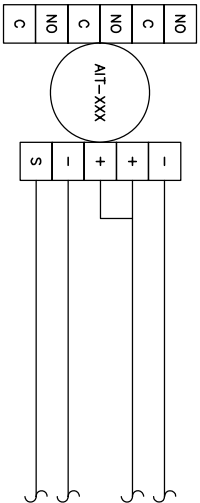
1134	N.T.S.
------	--------

### GENERIC GAS DETECTOR LOOP DIAGRAM

## BIOREACTOR ROOM



## FIELD



## GAS DETECTION LOOP DIAGRAM

1134	N.T.S.
------	--------