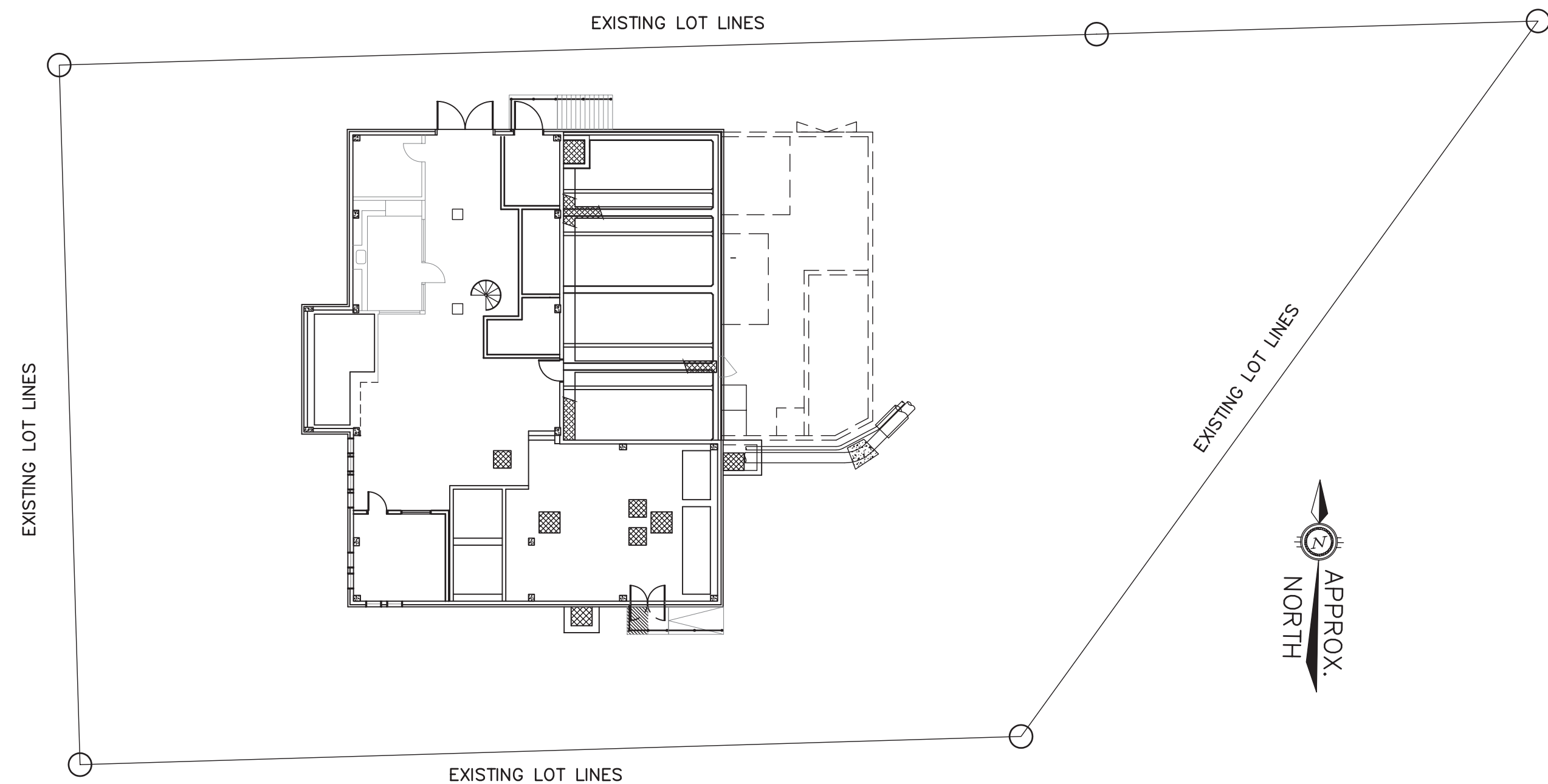
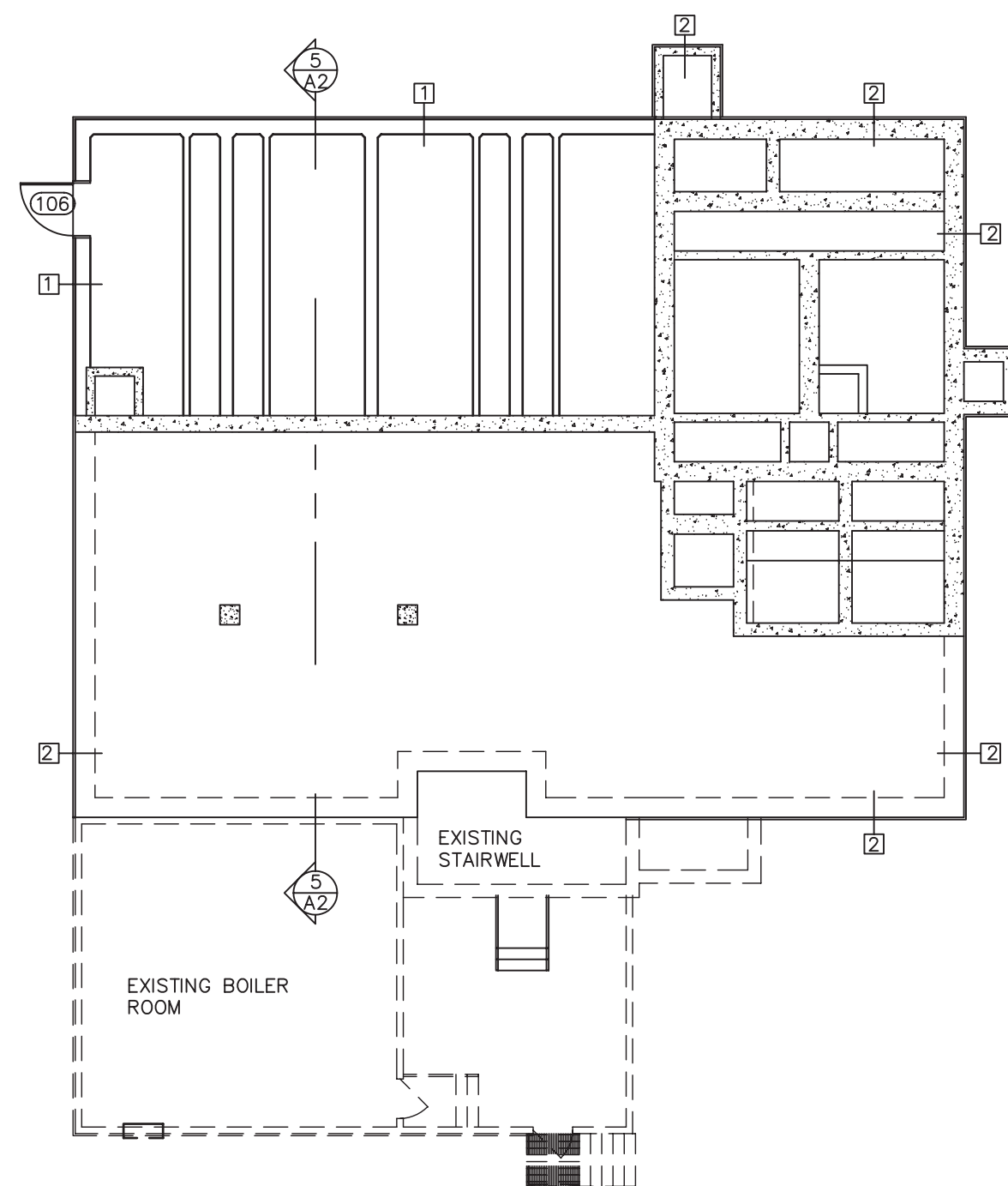
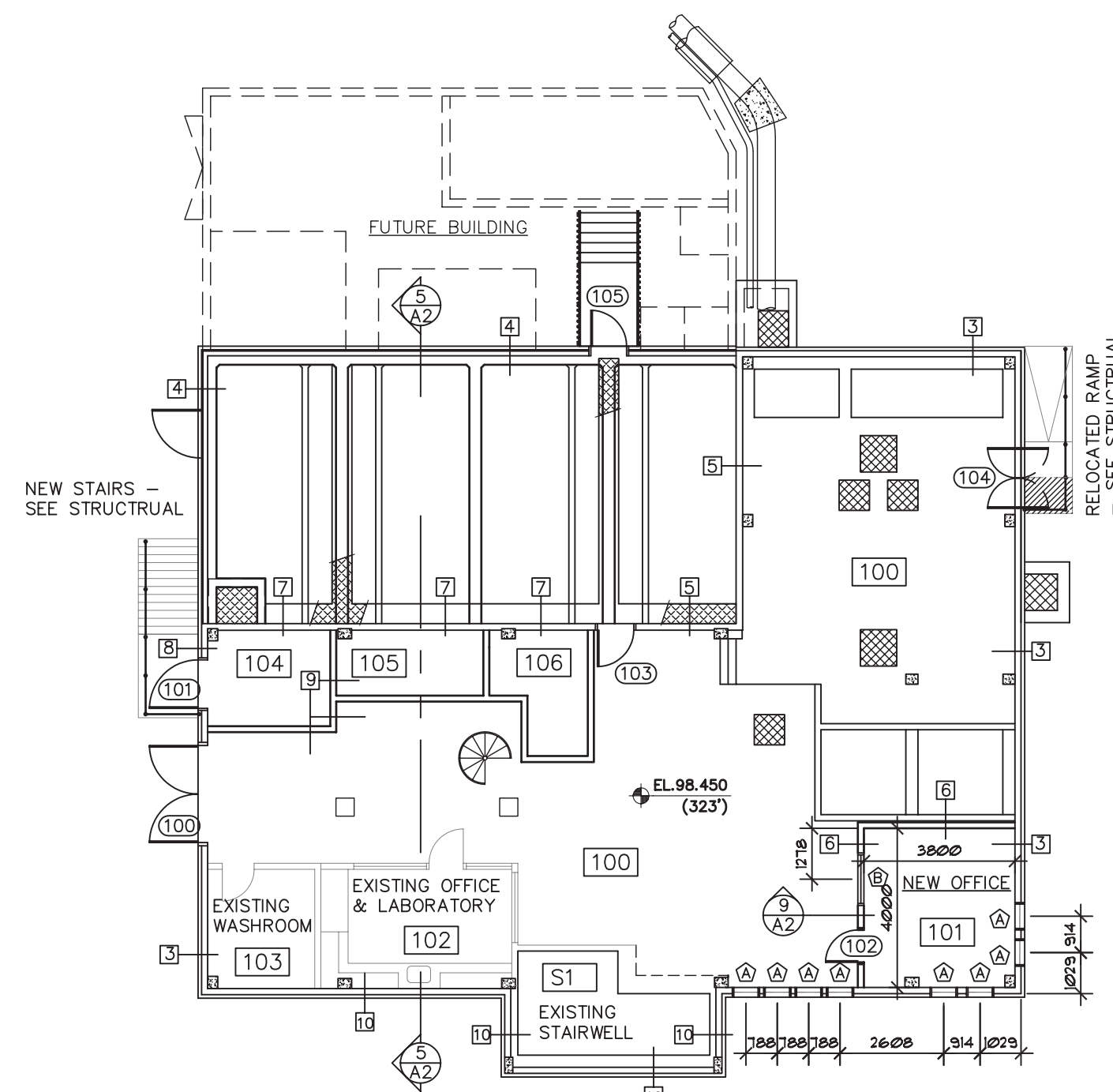




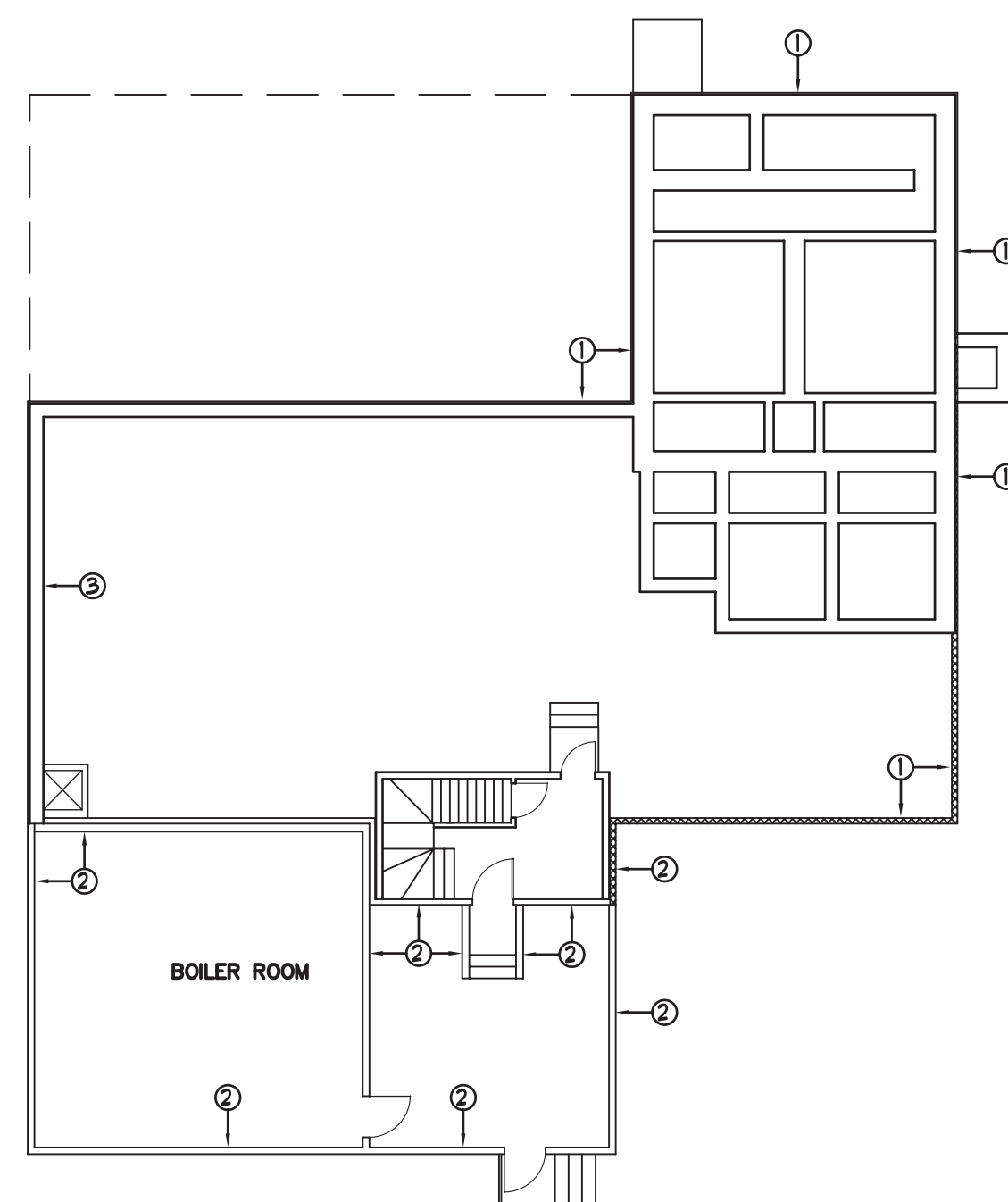
1 SITEPLAN
A1 SCALE: 1:200



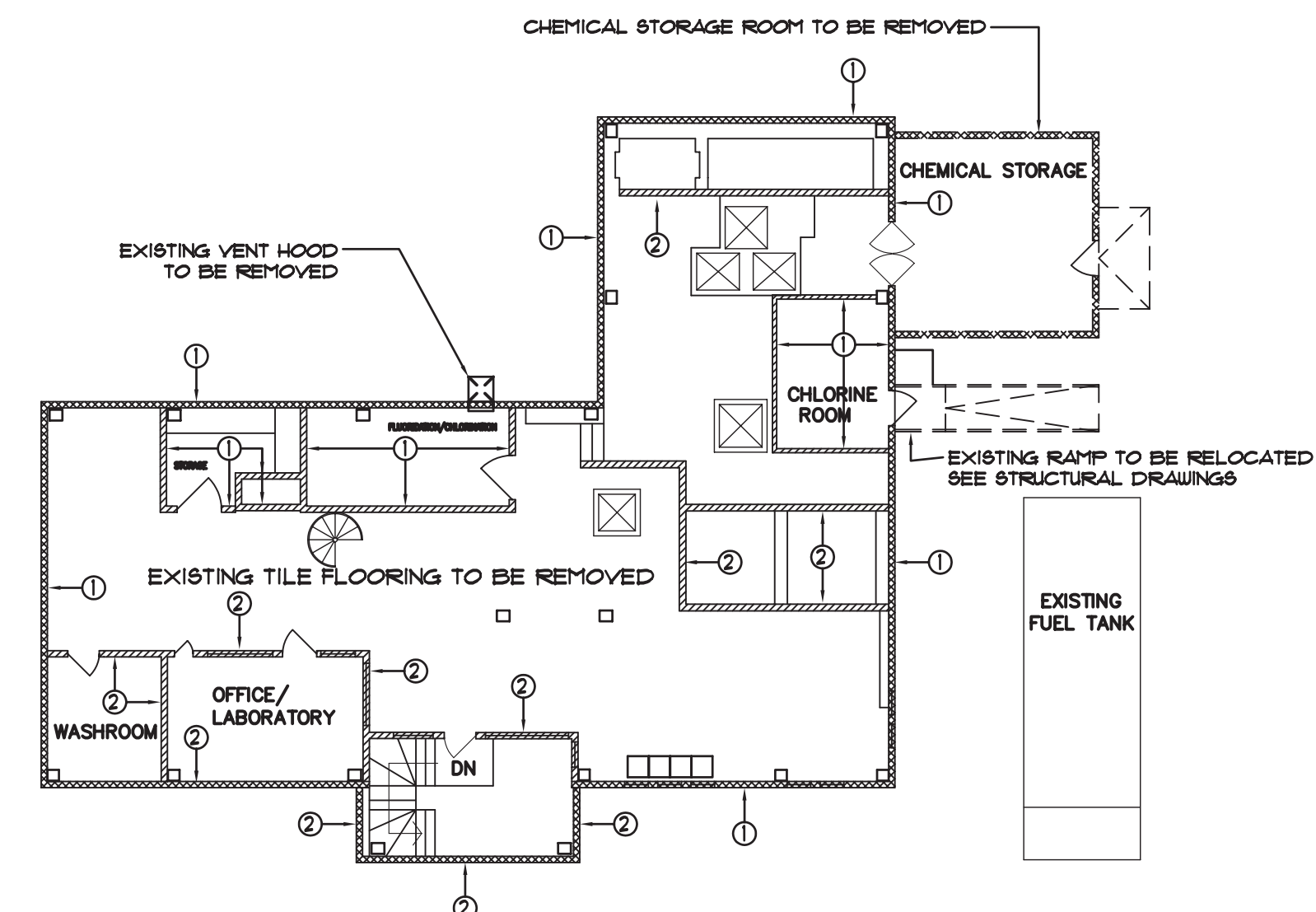
3 FLOOR PLAN - PUMPS LEVEL
A1 SCALE: 1:150



4 FLOOR PLAN - FILTER LEVEL
A1 SCALE: 1:150



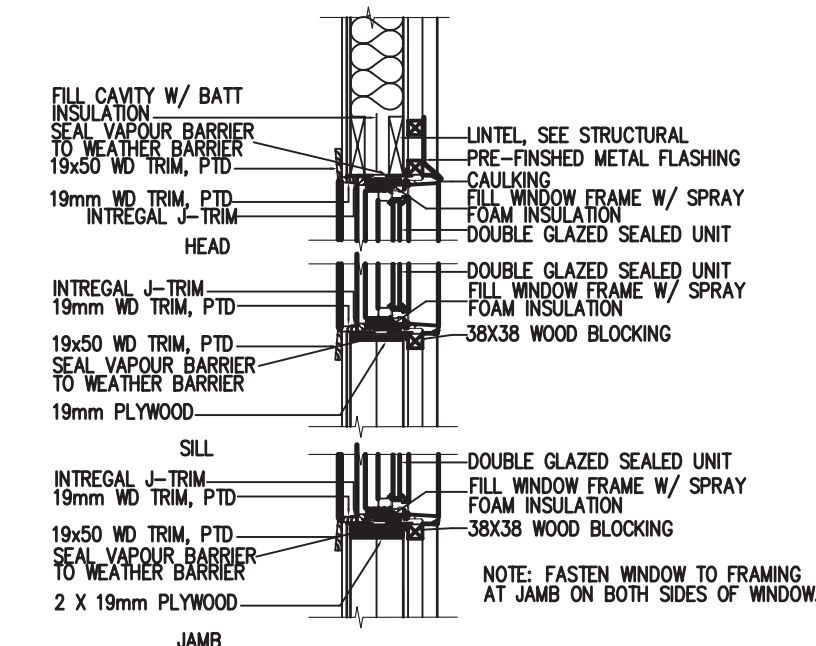
2 DEMOLITION PLANS
A1 SCALE: 1:150



- NOTES:
- EXISTING CONSTRUCTION TO BE REMOVED.
 - EXISTING CONSTRUCTION TO REMAIN.
 - REMOVE EXTERIOR WALL CONSTRUCTION TO OUTSIDE FACE OF CONCRETE WALL. EXISTING CONCRETE WALL TO REMAIN.

- NOTES:
- PAINT ALL EXISTING INTERIOR WALLS, CEILINGS, DOORS AND FRAMES AND CONCRETE FLOORS.

- WALL TYPES
- 15.9mm EXTERIOR GRADE PLYWOOD (PAINTED)(EXTEND TO FINISHED GRADE) 38mm RIGID INSULATION B/T 38mm HORZ. WOOD STRAPPING 400mm O.C. (EXTEND TO FINISHED GRADE) NEW CONCRETE WALL - SEE STRUCTURAL
 - 15.9mm EXTERIOR GRADE PLYWOOD (PAINTED)(EXTEND TO FINISHED GRADE) 38mm RIGID INSULATION B/T 38mm HORZ. WOOD STRAPPING 400mm O.C.(EXTEND TO FINISHED GRADE) EXISTING CONCRETE WALL
 - PREFINISHED VERT. METAL SIDING WEATHER BARRIER 38x64mm HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION IN BETWEEN 12.7mm PLYWOOD SHEATHING 38x140mm WOOD STUDS @ 600mm O.C. FILL STUD CAVITY W/ BATT INSULATION 9.5mm PLYWOOD SHEATHING 0.25mm POLY VAPOUR BARRIER 12.7mm GWB (PAINTED)
 - PREFINISHED VERT. METAL SIDING WEATHER BARRIER 38x64mm HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION IN BETWEEN 12.7mm PLYWOOD SHEATHING 38x140mm WOOD STUDS @ 600mm O.C. FILL STUD CAVITY W/ BATT INSULATION 9.5mm PLYWOOD SHEATHING 0.25mm POLY VAPOUR BARRIER 12.7mm MOISTURE RESISTANT GWB (PAINTED)
 - 12.7mm MOISTURE RESISTANT GWB (FILTER SIDE) 38x140mm WOOD STUDS @ 610mm O.C. 12.7mm GWB
 - 12.7mm GWB 38x89mm WOOD STUDS @ 610mm O.C. 12.7mm GWB
 - 12.7mm MOISTURE RESISTANT GWB (FILTER ROOM SIDE) 38x140mm WOOD STUDS @ 610mm O.C. 12.7mm PLYWOOD (PAINTED)
 - PREFINISHED VERT. METAL SIDING WEATHER BARRIER 38x64mm HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION IN BETWEEN 12.7mm PLYWOOD SHEATHING 38x140mm WOOD STUDS @ 600mm O.C. 9.5mm PLYWOOD SHEATHING 0.25mm POLY VAPOUR BARRIER 12.7mm PLYWOOD (PAINTED)
 - 12.7mm MOISTURE RESISTANT GWB (PTD) 0.25mm SEALED POLY VAPOUR BARRIER 9.5mm PLYWOOD BACKING 38x89 WOOD STUDS @ 609mm O.C. 9.5mm PLYWOOD SIDING 0.25mm SEALED POLY VAPOUR BARRIER 12.7mm MOISTURE RESISTANT GWB (PTD)
 - EXISTING WALL CONSTRUCTION 38x64 HORZ. WOOD STRAPPING @ 609mm O.C. W/ 38mm RIGID INSULATION BETWEEN WEATHER BARRIER NEW PREFINISHED VERTICAL METAL SIDING



5 WINDOW DETAILS
A1 SCALE: 1:20

- NOTE:
- VAPOUR BARRIER MUST BE CAULKED AT ALL SEAMS AND JOINTS AS WELL AS AT EACH STAPLE INTO THE PLYWOOD BACKING TO MAKE WATER TIGHT.

LIVINGSTONE
Architect
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NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
A	ISSUED FOIR FINAL REVIEW	FEB.3/03	

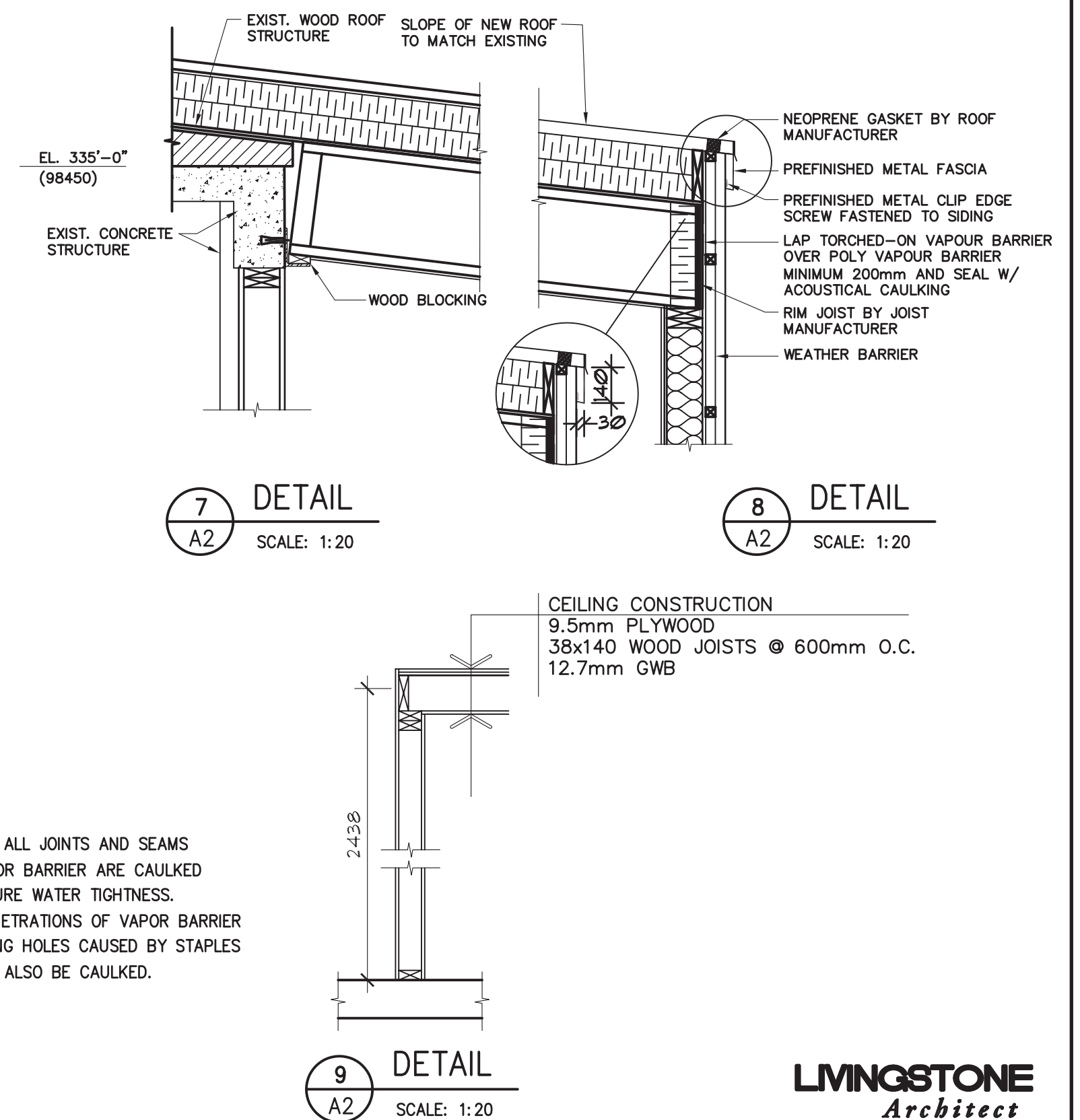
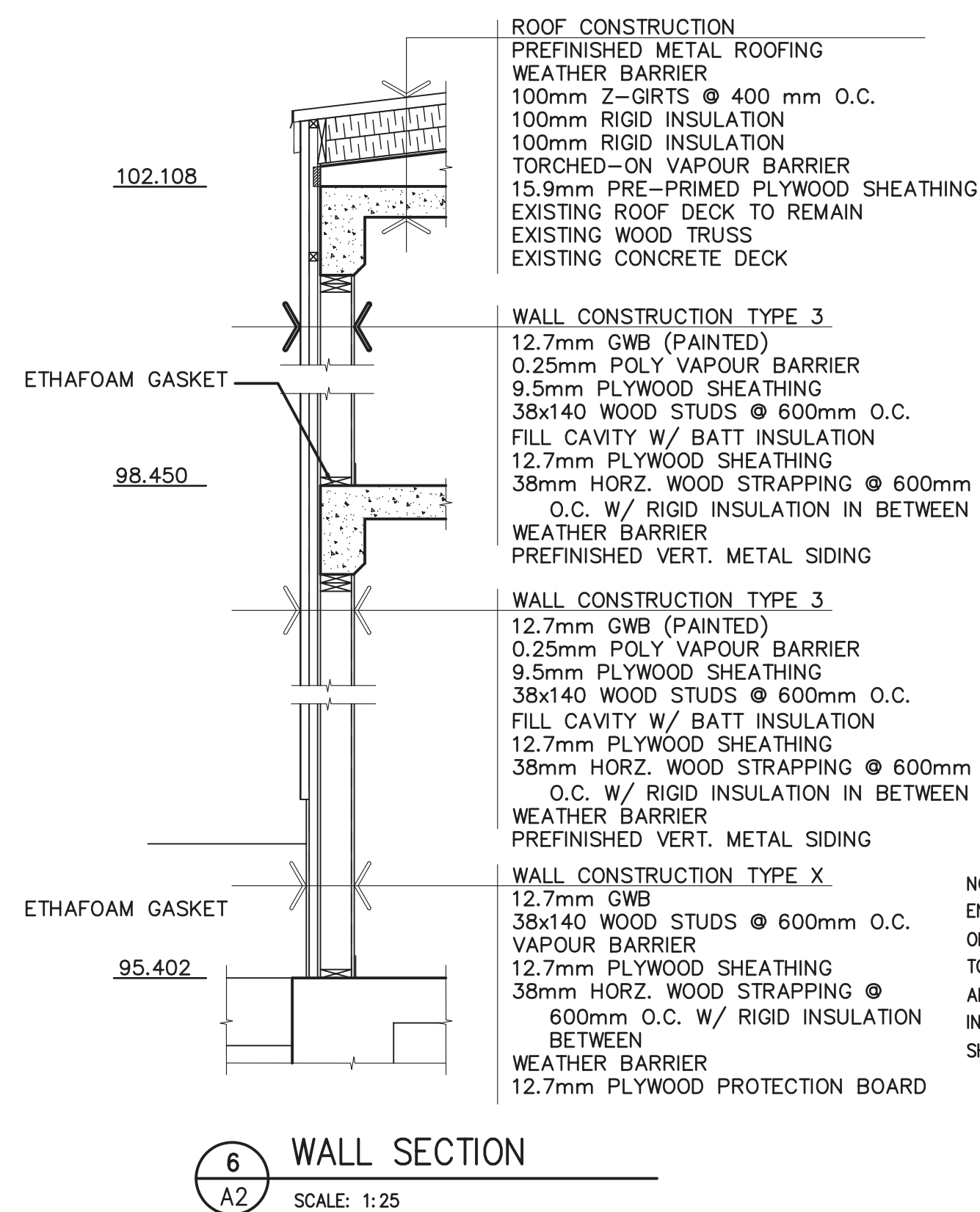
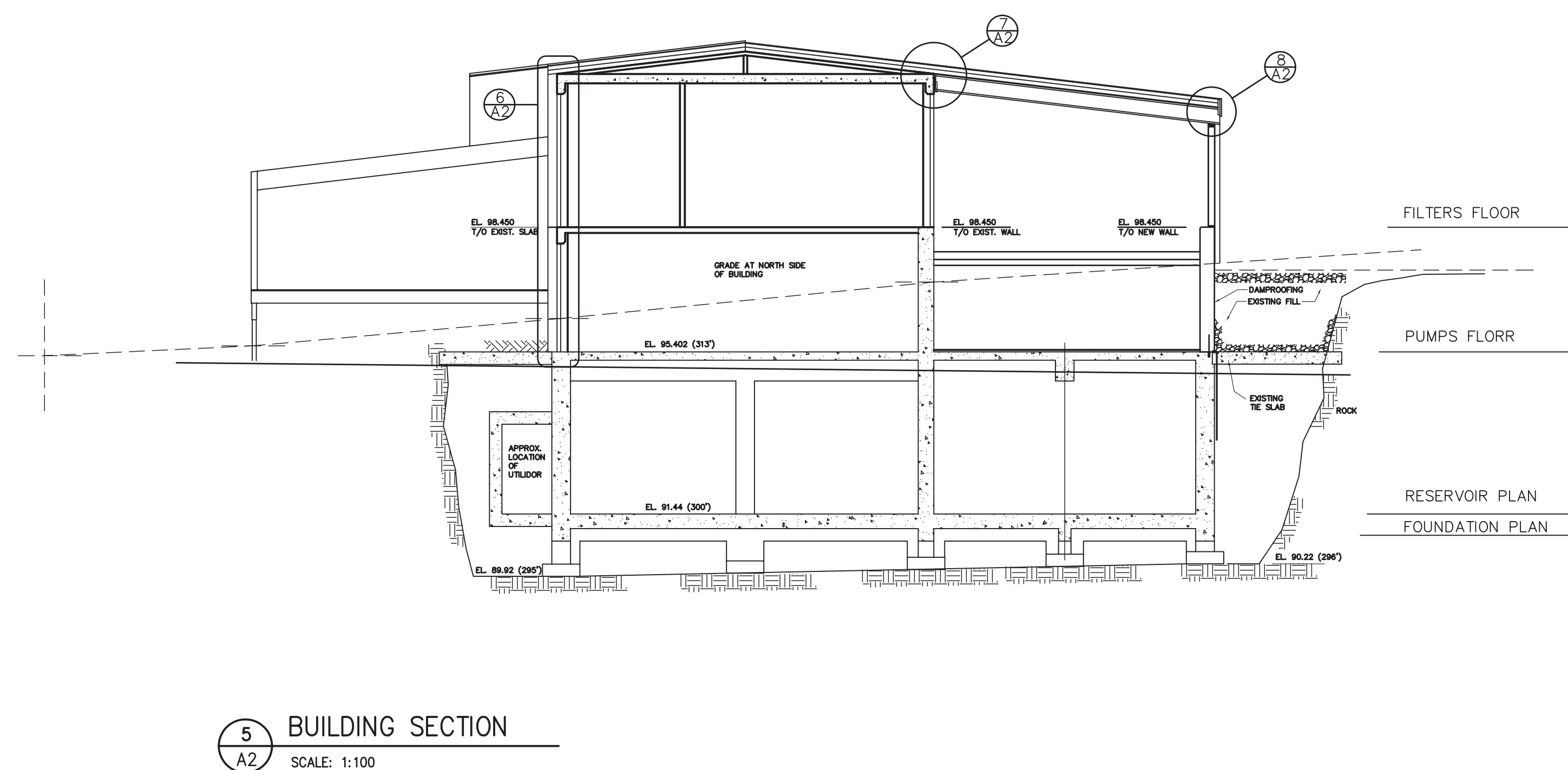
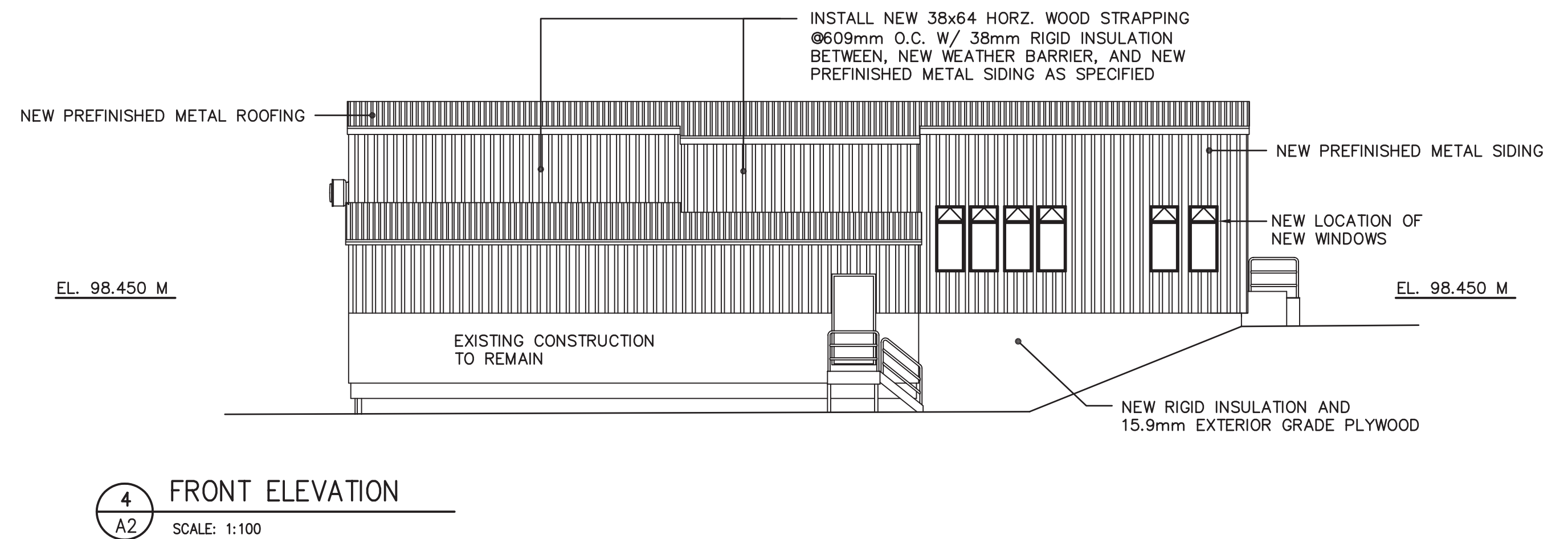
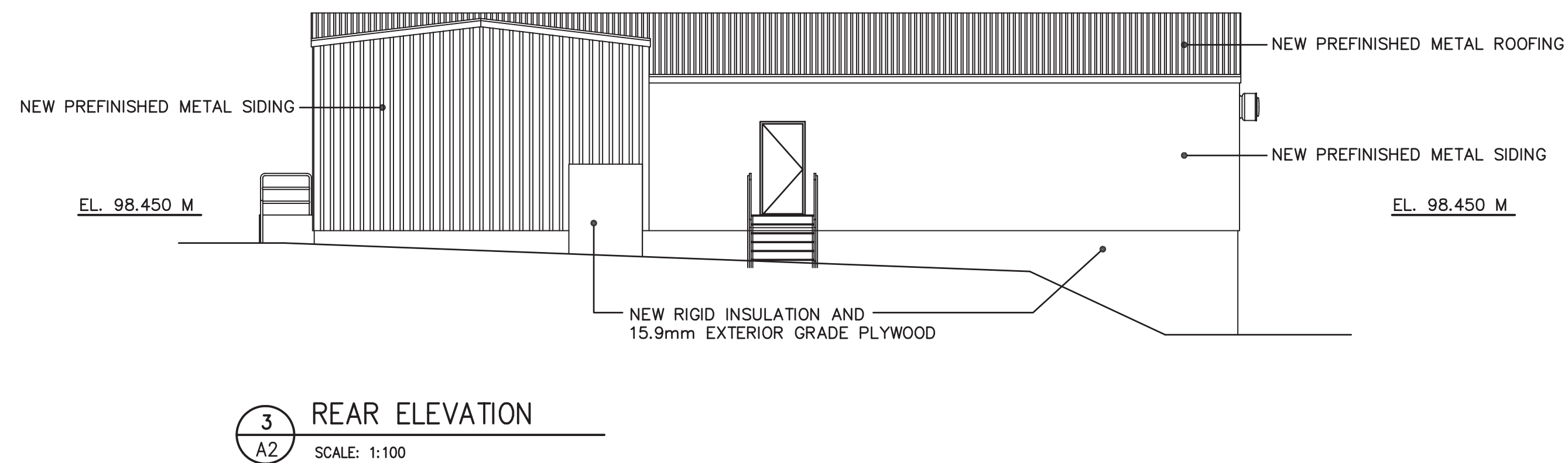
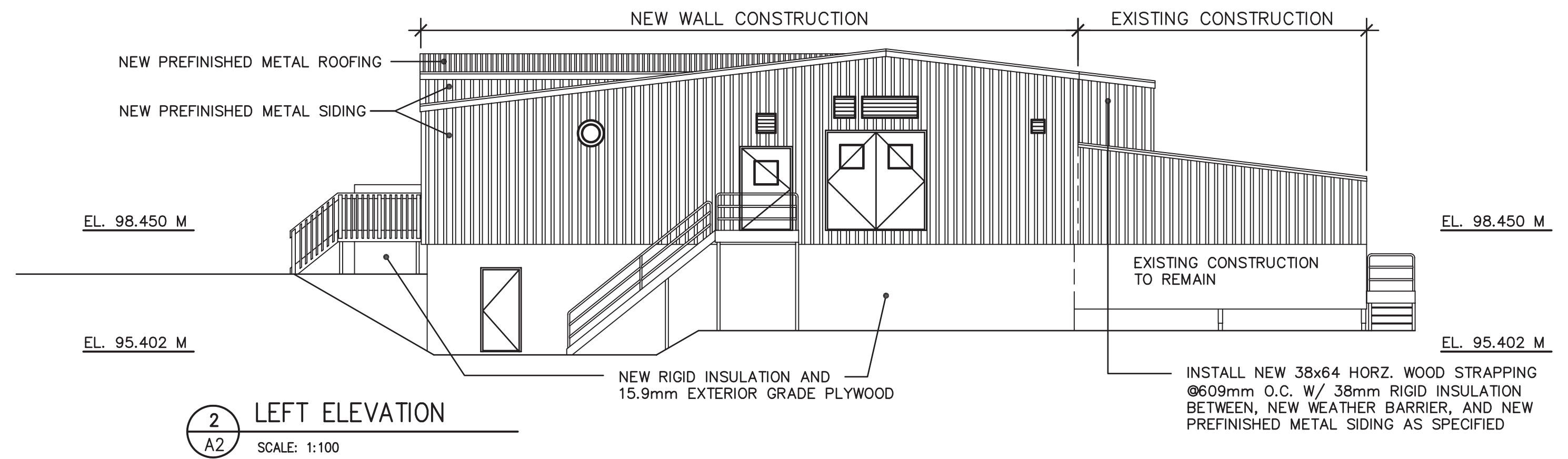
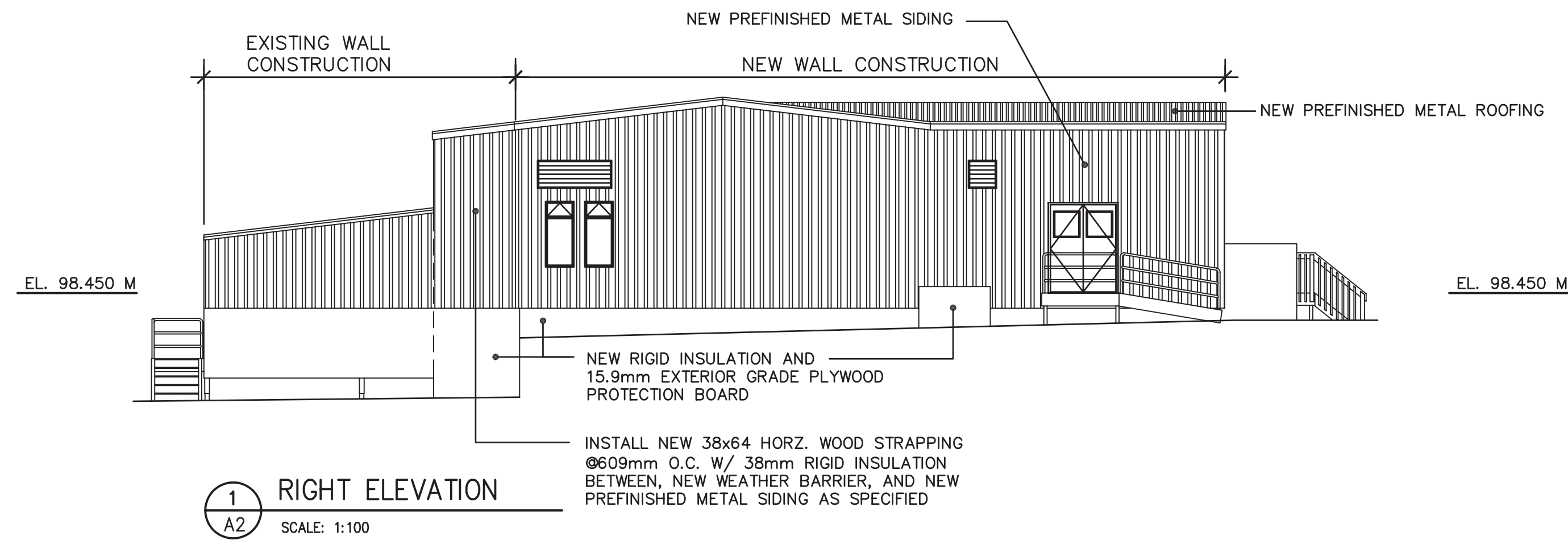
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DISCIPLINE
SITE PLAN & FLOOR PLANS



CITY OF IQUALUIT
IQUALUIT WATER TREATMENT PLANT

EARTH TECH	
Earth Tech (Canada) Inc. BRANCH	
DRAWN BY: G.R. CHECKED BY: A.L.	SCALE: AS NOTED DATE: FEB. 03, 2003 SHEET NO: A1
CADD SYSTEM AutoCAD	DWG NO. 55524-A1 REV. 1 CONTRACT 55524



2	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
A	ISSUED FOR FINAL REVIEW	FEB.3/03	
NO.	REVISION	DATE	INITIAL

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DISCIPLINE
SECTIONS AND DETAILS

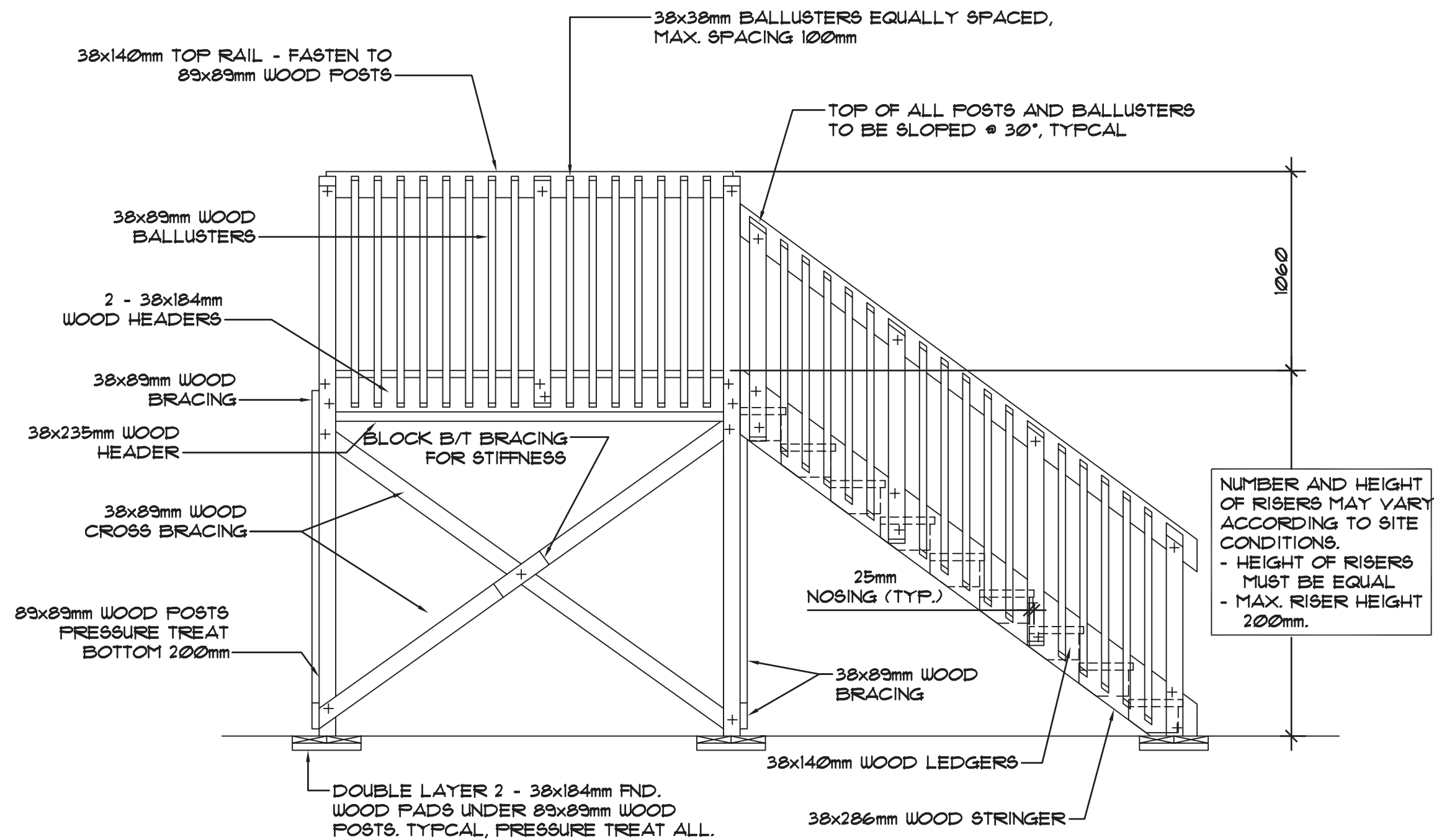
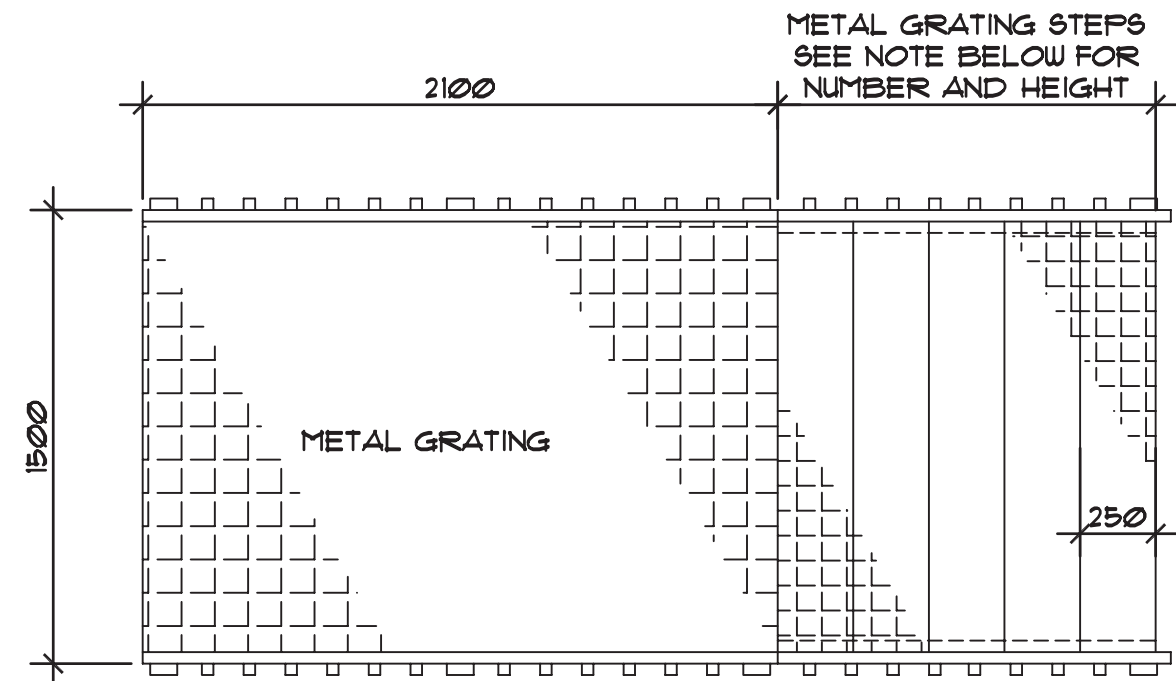


CITY of IQALUIT,
Nunavut

CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

EARTH TECH Earth Tech (Canada) Inc. BRANCH	
DRAWN BY: G.R. CHECKED BY: A.L.	SCALE: AS NOTED DATE: FEB. 03, 2003 SHEET NO. A2
CADD SYSTEM AutoCAD	DWG NO. 55524-A2 REV. 1 CONTRACT 55524

LIVINGSTONE Architect
P.O. BOX 1186 IQALUIT, NU X0A 0H0
PH (867) 979-1180 FAX (867) 979-3991



1
A3
EXTERIOR WOOD STAIRS
SCALE: 1:25

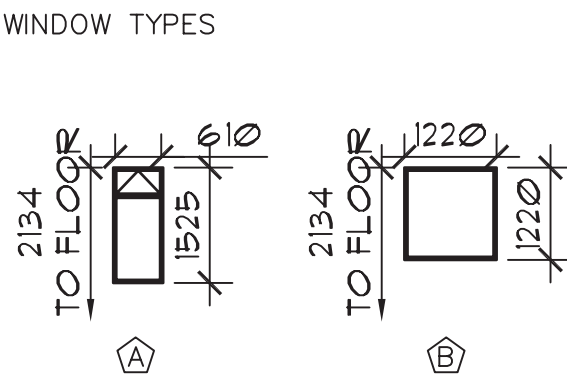
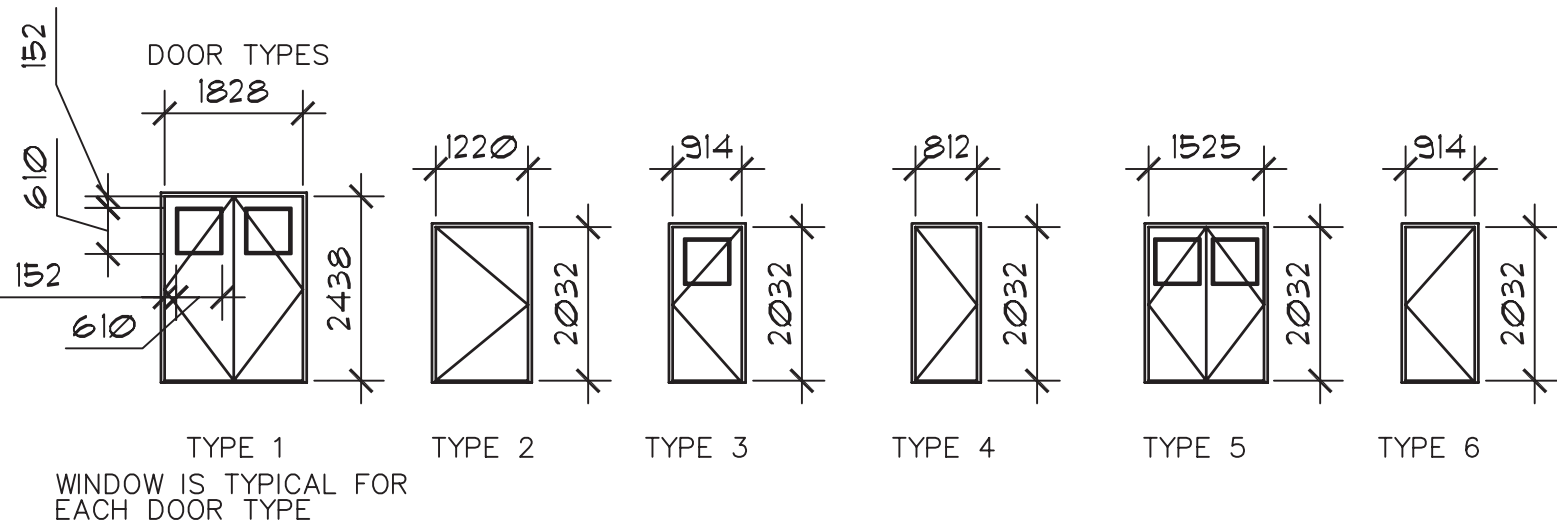
ROOM FINISH SCHEDULE

ROOM NAME	RM.NO.	FLOOR MATERIAL	BASE MATERIAL	WALLS MATERIAL	FINISH	CEILING MATERIAL	FINISH	HEIGHT	REMARKS
OPEN FLOOR AREA	100	NSRF	VINYL COVE	GYP SUM	PTD	EXISTING	—	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW OFFICE	101	RF	VINYL COVE	GYP SUM	PTD	GYP SUM	PTD	2438	
EXISTING OFFICE & LAB.	102	NSRF	VINYL COVE	GYP SUM	PTD	EXISTING	—	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
EXISTING WASHROOM	103	NSRF	VINYL COVE	GYP SUM	PTD	EXISTING	—	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW CHLORINE ROOM	104	NSRF	VINYL COVE	PLYWOOD/CONCRETE	PTD	EXISTING	—	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW CHEMICAL ROOM	105	RF	VINYL COVE	PLYWOOD	PTD	EXISTING	—	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW CHEMICAL ROOM	106	RF	VINYL COVE	PLYWOOD	PTD	EXISTING	—	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW
NEW FILTER AREA	107	CONC. PTD.	VINYL COVE	MRGWB	PTD	MRGWB	PTD	VARIES	
EXISTING PUMP FLOOR AREA	108	SEE NOTE 1	VINYL COVE	SEE NOTE 1	PTD	EXISTING	PTD	EXISTING	PAINT EXISTING WALLS & CEILING TO MATCH NEW

DOOR SCHEDULE

DOOR	ROOM NAME	RM.NO.	MARK	DOOR SIZE	WIDTH	HEIGHT	FACE	CONST.	MAT.	FINISH	TYPE	NUMBER	GLASS	FRAME	MAT.	FINISH	TYPE	NUMBER	FIRE RAT'S	REMARKS	HARD WARE GROUP
EXTERIOR/OPEN FLOOR AREA	---	100		2440	2438	2	HMI	M	PTD	1	GWG	HMI	PTD	1						6mm TEMPERED GLASS	
EXTERIOR/CHLORINE ROOM	---	101		1220	2032	1	HMI	M	PTD	2	GWG	HMI	PTD	2							
NEW OFFICE	101	102		812	2032	1	SCW	M	S&V	3		HM	PTD	3						6mm TEMPERED GLASS	
OPEN FLOOR AREA/FILTER AREA	100	103		914	2032	1	HM	M	PTD	4	GWG	HM	PTD	4							
EXTERIOR/OPEN FLOOR AREA	---	104		1525	2032	2	HMI	M	PTD	5	GWG	HMI	PTD	5						6mm TEMPERED GLASS	
EXTERIOR	---	105		914	2032	1	HMI	M	PTD	6	—	HMI	PTD	6							
EXTERIOR	---	106		914	2032	1	HMI	M	PTD	6	—	HMI	PTD	6							

NOTES:
1. PATCH AND REPAIR FLOOR TO RECEIVE EPOXY PAINT. PATCH AND REPAIR CONCRETE WALLS TO RECEIVE PAINT.



LIST OF FINISHES:

- STEEL DOORS AND FRAMES: TO MATCH SICO 4145-63
- WALLS AND CEILINGS: TO MATCH SICO 4151-11
- EXTERIOR GRADE PLYWOOD: TO MATCH SICO 4151-11
- FLOORING:
- RESILIENT FLOORING: FORBO MARMOLEUM REAL 3160
 - NON-SLIP RESILIENT FLOORING: ALTRO DESIGNER SERIES DESERT D25522
 - RESILEINT BASE: JOHNSONITE #85 BURGENDY

2

RECORD DRAWING

23/04/04

1

ISSUED FOR CONSTRUCTION

22/04/03

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ISSUED FOIR FINAL REVIEW

FEB.3/03

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DISCIPLINE

ROOM & DOOR SCHEDULES

CITY of IQALUIT, Nunavut

CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

LIVINGSTONE Architect

P.O. BOX 1185 IQALUIT, NU X0A 0N0 PH (867) 979-4180 FAX (867) 979-3991

EARTH TECH

Earth Tech (Canada) Inc. BRANCH

DRAWN BY: G.R.

CHECKED BY: A.L.

CADD SYSTEM AutoCAD

SCALE: AS NOTED

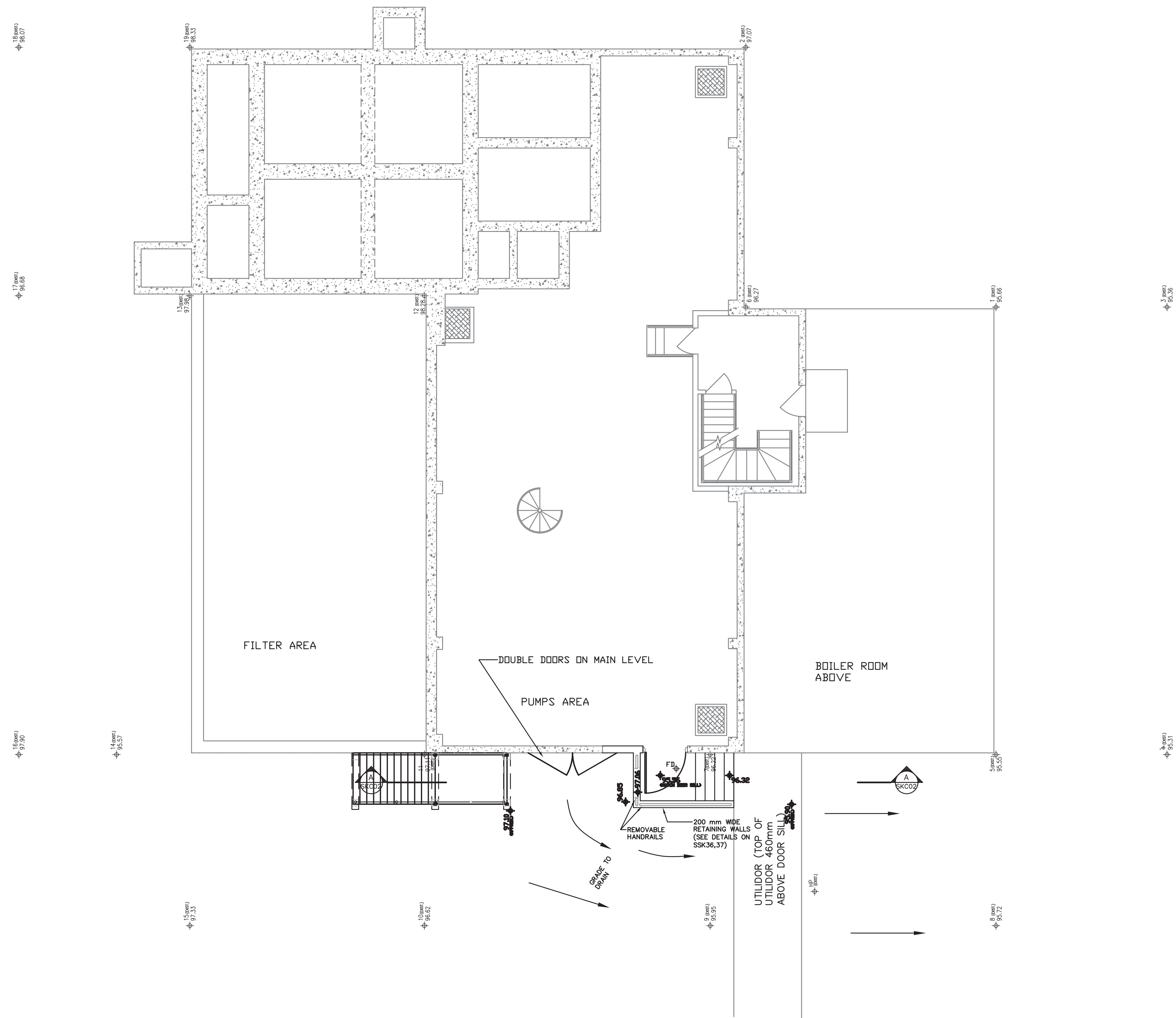
DATE: FEB. 03, 2003

DWG NO. 55524-A3

SHEET NO. A3

REV. 1

CONTRACT 55524



NO.	REVISION	DATE	INITIAL
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Company Permit

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CIVIL

SITE GRADING
SHOWING PUMPS FLOOR

**CITY of IQALUIT,
Nunavut**

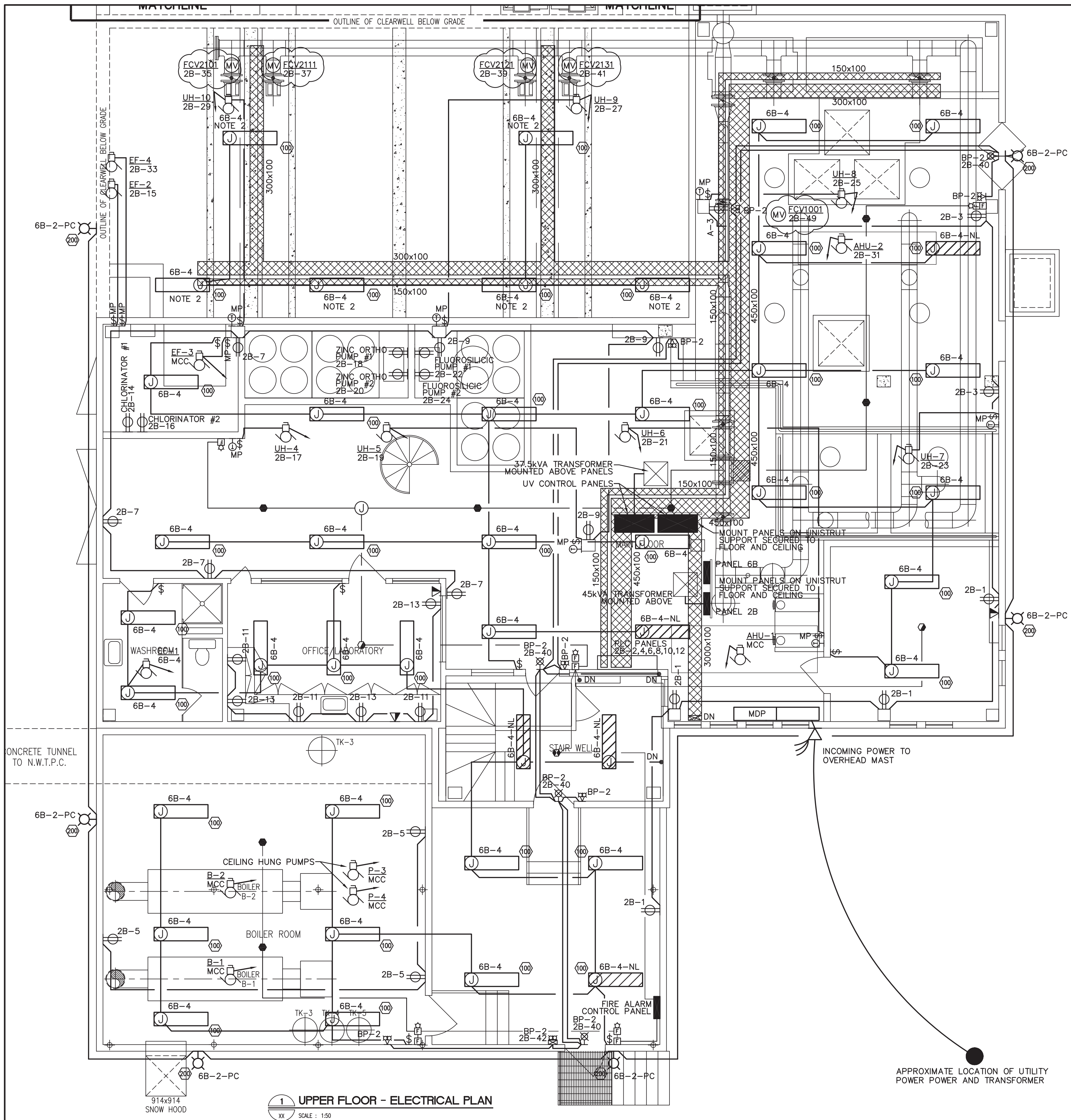
CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

EARTH TECH

Earth Tech (Canada) Inc.

DRAWN BY: DKB	SCALE: 1:30	DATE: MAY 2004	SHEET NO.
CHECKED BY: GAP			
CADD SYSTEM AutoCAD	DWG NO. C-1	REV. 0	CONTRACT 55524



ELECTRICAL LEGEND

- COMPACT FLUORESCENT OR H.I.D. LUMINAIRE - WALL MOUNTED
- WALL MOUNTED EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED
- FLUORESCENT LUMINAIRE - SURFACE MOUNTED OR SUSPENDED
- INDICATES NIGHT LIGHT
- PHOTO ELECTRIC CELL
- BATTERY PACK C/W HEADS AS INDICATED
- EMERGENCY REMOTE HEADS
- SINGLE POLE SWITCH
- LUMINAIRE TYPE
- DUPLEX RECEPTACLE
- MOTOR
- MOTORIZED VALVE
- DISCONNECT SWITCH
- MANUAL MOTOR STARTER C/W PILOT LIGHT
- MAGNETIC MOTOR STARTER
- THERMOSTAT
- PANELBOARD
- MANUAL BREAKGLASS STATION
- FIRE ALARM HORN C/W VISUAL ALARM STROBE
- SMOKE DETECTOR
- THERMAL DETECTOR - RATE OF RISE
- THERMAL DETECTOR - HIGH TEMPERATURE FIXED
- COMBINATION VOICE/DATA OUTLET BOX AND JACKS

NOTES

- REFER TO MOTOR SCHEDULE FOR CONDUIT AND WIRE SIZES
- CENTER LIGHT FIXTURE OVER CATWALK

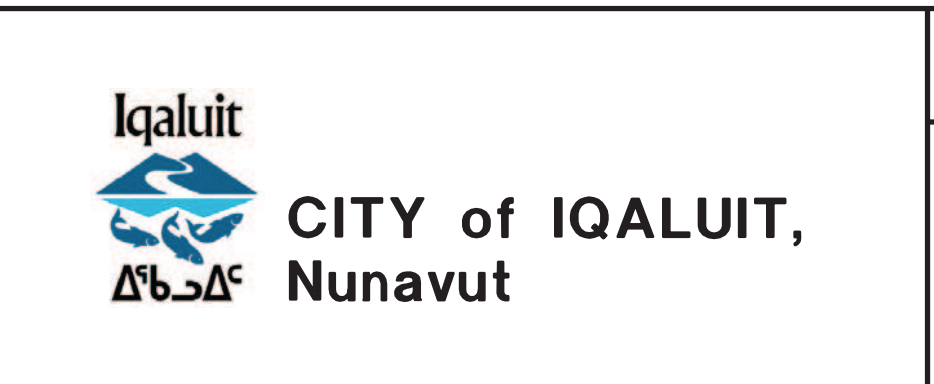
PANEL 2B					
DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW
RECEPTACLES PLANT/FOYER		1P15A	1	2	1P15A
RECEPTACLES PLANT		1P15A	3	4	1P15A
RECEPTACLES MECH ROOM		1P15A	5	6	1P15A
RECEPTACLES PLANT		1P15A	7	8	1P15A
RECEPTACLES PLANT		1P15A	9	10	1P15A
RECEPTACLES OFFICE/LAB		1P15A	11	12	1P15A
RECEPTACLES OFFICE/LAB		1P15A	13	14	1P15A
EXHAUST FAN EF-2		1P15A	15	16	1P15A
UNIT HEATER UH-4		1P15A	17	18	1P15A
UNIT HEATER UH-5		1P15A	19	20	1P15A
UNIT HEATER UH-6		1P15A	21	22	1P15A
UNIT HEATER UH-7		1P20A	23	24	1P15A
UNIT HEATER UH-8		1P15A	25	26	1P15A
UNIT HEATER UH-9		1P15A	27	28	1P15A
UNIT HEATER UH-10		1P15A	29	30	1P15A
HVAC CONTROL		1P15A	31	32	1P15A
EXHAUST FAN EF-4		1P15A	33	34	1P15A
MOTORIZED VALVE FCV 2101		1P15A	35	36	1P15A
MOTORIZED VALVE FCV 2111		1P15A	37	38	1P15A
MOTORIZED VALVE FCV 2121		1P15A	39	40	1P15A
MOTORIZED VALVE FCV 2131		1P15A	41	42	1P15A
MOTORIZED VALVE FCV 4011		1P15A	43	44	1P15A
MOTORIZED VALVE FCV 4021		1P15A	45	46	1P15A
MOTORIZED VALVE FCV 2501		1P15A	47	48	1P15A
MOTORIZED VALVE FCV 1001		1P15A	49	50	1P15A
			51	52	
			53	54	
			55	56	
			57	58	
			59	60	
TOTAL					TOTAL
MAINS: 225A					VOLTS: 120/208 VOLTS
MOUNTING: SURFACE					LOCATION: UPPER FLOOR
ENCLOSURE TO BE SINGLE TUB					FED FROM: MDP
					ENTER AT: TOP

PANEL 6B					
DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW
AIR HANDLING UNIT AHU-2		1P15A	1	2	1P15A
AIR HANDLING UNIT AHU-2		1P15A	3	4	1P15A
AIR HANDLING UNIT AHU-2		1P15A	5	6	1P15A
SPARE		1P15A	7	8	1P15A
SPARE		1P15A	9	10	
			11	12	
			13	14	
			15	16	
			17	18	
			19	20	
			21	22	
			23	24	
TOTAL					TOTAL
MAINS: 225A					VOLTS: 347/600 VOLTS
MOUNTING: SURFACE					LOCATION: UPPER FLOOR
					FED FROM: MDP
					ENTER AT: TOP

NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
0	ISSUED FOR TENDER	19/02/03	

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ELECTRICAL
UPPER FLOOR
ELECTRICAL PLAN
AND SCHEDULES



CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

EARTH TECH
Earth Tech (Canada) Inc.
DRAWN BY: FF
CHECKED BY: WA
SCALE: AS NOTED
DATE: FEB. 03, 2003
SHEET NO.:
CADD SYSTEM AutoCAD
DWG NO.: E-1
REV. 1
CONTRACT 55524

1. REFER TO MOTOR SCHEDULE FOR CONDUIT AND WIRE SIZES FOR ALL MOTORS.
2. MOTORIZED VALVE LOCATED ON CLEARWELL FLOOR LEVEL. CONFIRM EXACT LOCATION PRIOR TO ROUGHIN.
3. PUMPS LOCATED ON CLEARWELL FLOOR LEVEL. CONFIRM EXACT LOCATION PRIOR TO ROUGHIN.
4. SUPPLY CIRCUIT (2A-13 FOR LIGHTING AND 2A-15 FOR POWER AND FRACTIONAL MOTORS) TO EXISTING LIGHTING LOCATED ON CLO. LIGHT PANEL. PROVIDE ALL REQUIREMENTS ASSOCIATED WITH MAKING POWER AND LIGHTING CONNECTIONS.



PANEL			2A			
DESCRIPTION	KW	BKR.	CIRCUIT NO.	BKR.	KW	DESCRIPTION
RECEPTACLES LOWER LEVEL		1P15A	1 — 2	1P15A		PLC PANELS
RECEPTACLES LOWER LEVEL		1P15A	3 — 4	1P15A		PLC PANELS
UNIT HEATER UH-1		1P15A	5 — 6	1P15A		PLC PANELS
UNIT HEATER UH-2		1P15A	7 — 8	1P15A		PLC PANELS
UNIT HEATER UH-3		1P15A	9 — 10	1P15A		PLC PANELS
FORCE FLOW FF-1 RECEPTACLES-STAIRS		1P15A	11 — 12	1P15A		PLC PANELS
LIGHTING CLEARWELL LEVEL		1P15A	13 — 14	1P60A	14	PANEL
RECEPT./TRAC. MOTORS CLEARWELL LEVEL		1P15A	15 — 16	1P60A	16	MECHANICAL ROOM
SODIUM HYPOCHLORITE #1		1P15A	17 — 18	1P15A		SPARE
SODIUM HYPOCHLORITE #2		1P15A	19 — 20	1P15A		MOTORIZED VALVE LCV 2103
MOTORIZED VALVE LCV 2113		1P15A	21 — 22	1P15A		MOTORIZED VALVE LCV 2104
MOTORIZED VALVE LCV 2114		1P15A	23 — 24	1P15A		MOTORIZED VALVE FCV 2105
MOTORIZED VALVE FCV 2115		1P15A	25 — 26	1P15A		MOTORIZED VALVE FCV 2106
MOTORIZED VALVE FCV 2116		1P15A	27 — 28	1P15A		MOTORIZED VALVE FCV 2107
MOTORIZED VALVE FCV 2117		1P15A	29 — 30	1P15A		MOTORIZED VALVE FCV 2123
MOTORIZED VALVE FCV 2133		1P15A	31 — 32	1P15A		MOTORIZED VALVE FCV 2124
MOTORIZED VALVE FCV 2134		1P15A	33 — 34	1P15A		MOTORIZED VALVE FCV 2125
MOTORIZED VALVE FCV 2135		1P15A	35 — 36	1P15A		MOTORIZED VALVE FCV 2126
MOTORIZED VALVE FCV 2136		1P15A	37 — 38	1P15A		MOTORIZED VALVE FCV 2127
MOTORIZED VALVE FCV 2137		1P15A	39 — 40	1P15A		SPARE
EXISTING CCT 1 TUNNEL LIGHTS		1P15A	41 — 42	1P15A		BATTERY PACK BP-1
EXISTING CCT 6 TUNNEL LIGHTS		1P15A	43 — 44	2P		RECIRC. PUMPS TO DAM
EXISTING CCT 8 TUNNEL RECEPTACLES		1P15A	45 — 46			
EXISTING CCT 10 EXT. LIGHTS RESERVOIR		1P15A	47 — 48	1P15A		SPARE
TEMPORARY BSMT. HEATER			49 — 50			
			51 — 52	2P		TUNNEL HEATER
EXISTING CCT 2 TUNNEL LIGHTS	1P15A		53 — 54	30A		
			55 — 56			DAMPER MOTORS EF3
			57 — 58			
			59 — 60			
TOTAL						TOTAL
MAINS: 225A		VOLTS: 120/208 VOLTS				
MOUNTING: SURFACE		LOCATION: LOWER LEVEL				
ENCLOSURE TO BE SINGLE TUB		FED FROM: MDP				
		ENTER AT: TOP				

2	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
0	ISSUED FOR TENDER	19/02/03	
NO.	REVISION	DATE	INITIAL

Company Permit	Engineer Seal
----------------	---------------

Engineer Seal

RECORD DRAWING

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS:

IS AS SUPPLIED BY:
KRT ELECTRIC

THE COMPLETENESS AND ACCURACY OF THIS
RECORD DRAWING IS NOT GUARANTEED.

RECORD DRAWING IS NOT GUARANTEED.
INFORMATION SHOULD BE VERIFIED AT THE

ACTUAL LOCATION BEFORE USE.

LOWER FLOOR ELECTRICAL PLAN AND SCHEDULES



**CITY of IQALUIT,
Nunavut**

IQALUIT WATER TREATMENT PLANT



Earth Tech (Canada) Inc.

DRAWN BY: FF	SCALE: 1" = 1'-0"	DATE: 11-11-11	SHEET NO. 1
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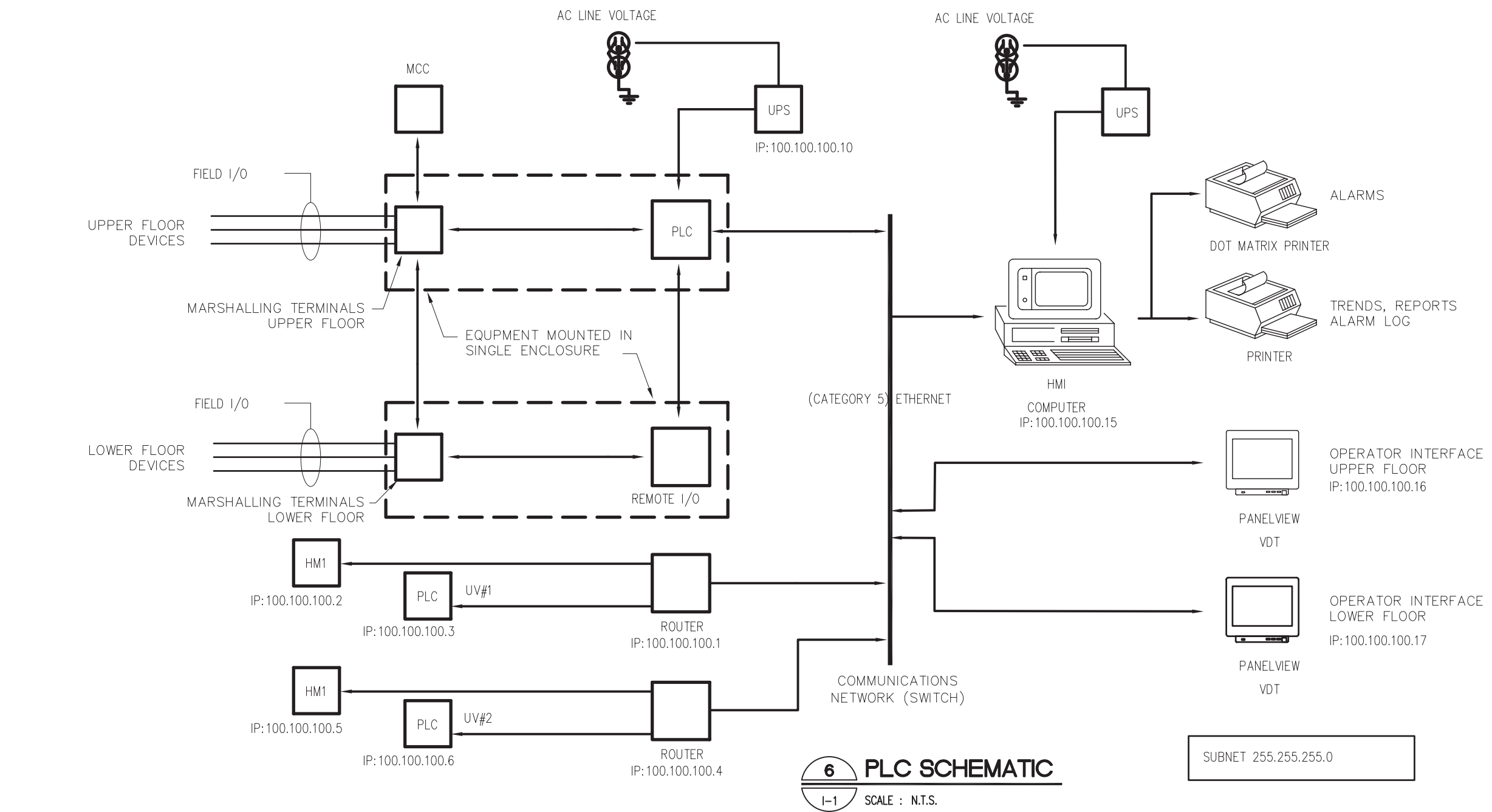
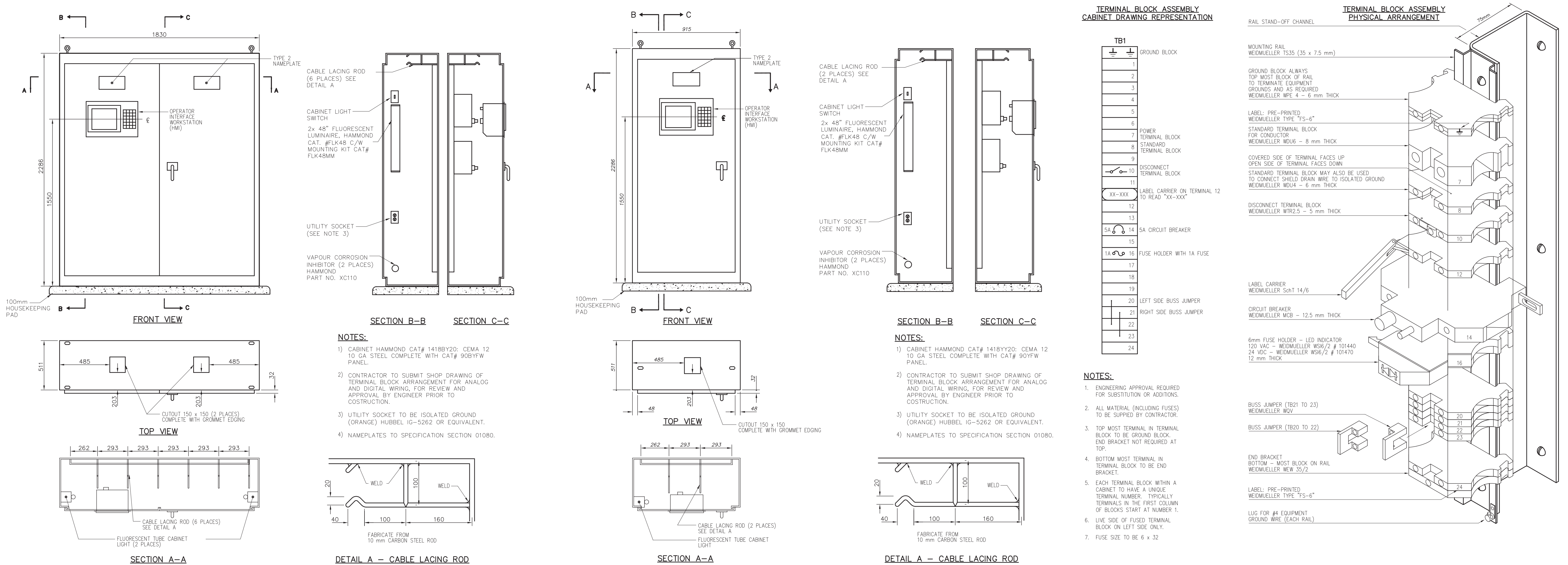
CHECKED BY: WA	AS NOTED	FEB. 03, 2003
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CADD SYSTEM AutoCAD	DWG NO.	E-2	REV. 1	CONTRACT 55524
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[illegible]

MOTOR STARTER AND CONTROL SCHEDULE																																																																																																																																																																																																																																																																																																																																																														
E - DIVISION 16 M - DIVISION 15 U - USERS EQUIPMENT X - PROVIDE			1 - STOP-START 2 - ON-OFF 3 - HAND-OFF-AUTO 4 - PILOT LIGHT 5 - CONTROL RELAY			6 - TIMING RELAY 7 - DOUBLE VOLTAGE RELAY 8 - THERMISTORS 9 - ELECTRO PNEUMATIC SWITCH 10 - PNEUMATIC ELECTRO SWITCH			11 - SOLENOID 12 - MOTORIZED DAMPER 13 - FLOAT SWITCH 14 - PRESSURE SWITCH 15 - FLOW SWITCH			16 - SAIL SWITCH 17 - CONTROL TRANSFORMER 18 - THERMOSTAT 19 - INTEGRAL CONTROL PANEL 20 - FIRE ALARM SHUT DOWN			21 - FREEZE PROTECTION 22 - FIRE PROTECTION 23 - HIGH LIMIT 24 - LOW LIMIT 25 - CURRENT TRANSFORMER			26 - L.V. THERMOSTAT 27 - C.O. DETECTOR 28 - VARIABLE SPEED SW. 29 - LOW LIMIT 30 - CURRENT TRANSFORMER																																																																																																																																																																																																																																																																																																																																												
EQUIPMENT No.	LOCATION	EQUIPMENT	SUPPLIED UNDER INSTALLED UNDER	SE KW	EQUIP'T RATING HP	VOLTAGE	PHASE	PANEL AND CIRCUIT No.	MAGNETIC STARTER										LOCATE AT MOTOR					REMOTE CONTROL					NO. INTERLOCK WITH EQUIP.	FEEDER DETAILS																																																																																																																																																																																																																																																																																																																																
									IN COVER					IN COVER					CSA ENCLOSURE TYPE	NOTES	SUPPLIED UNDER INSTALLED UNDER	DISCONNECT SWITCH	JUNCTION BOX	RECEPTACLE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE			LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEGEND ABOVE	LEG

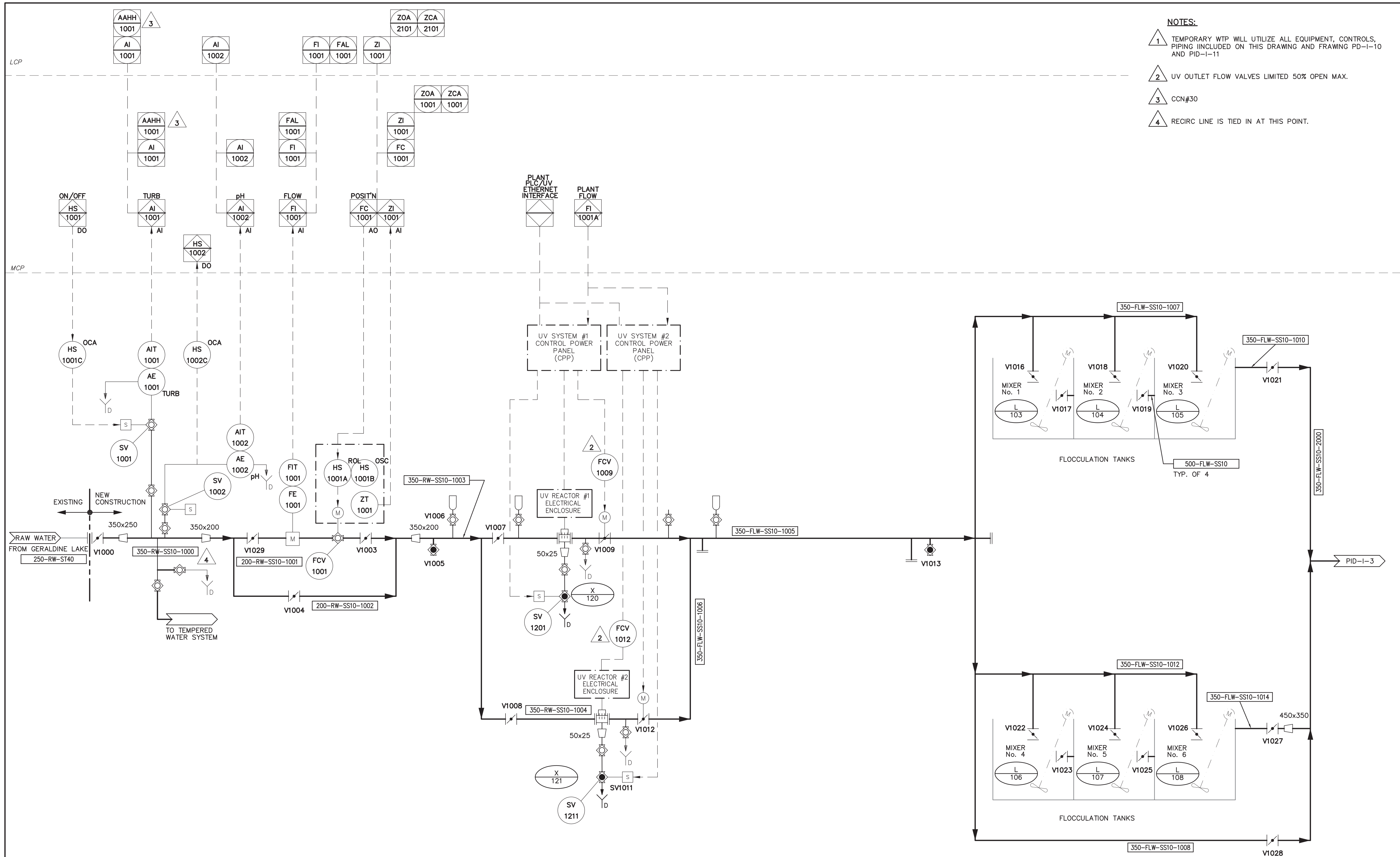
L:\WORK\55500\55524\02A-CAD\WAT.DWG\DESIGN INSTR\I-1



Company Permit				Engineer Seal			
RECORD DRAWING				INSTRUMENTATION			
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCENDEL MECHANICAL CONTRACTING LTD. & VECTOR ELECTRIC & CONTROLS. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED ON LOCATION BEFORE USE.				PLC SYSTEM			
2				CITY of IQUALUIT, Nunavut			
1				CITY OF IQUALUIT			
0				IQUALUIT WATER TREATMENT PLANT			
NO.				Earth Tech (Canada) Inc.			
REVISION				DRAWN BY: TDC			
DATE				CHECKED BY: MES			
INITIAL				SCALE: AS NOTED			
				DATE: FEB. 03, 2003			
				SHEET NO.			
				CADD SYSTEM AutoCAD			
				DWG NO.			
				REV.			
				CONTRACT 55524			

NOTES:

- 1 TEMPORARY WTP WILL UTILIZE ALL EQUIPMENT, CONTROLS, PIPING INCLUDED ON THIS DRAWING AND FRAWING PD-1-10 AND PID-1-11
- 2 UV OUTLET FLOW VALVES LIMITED 50% OPEN MAX.
- 3 CCN#30
- 4 RECIRC LINE IS TIED IN AT THIS POINT.



FCV 1001
1.2 ML/day - 10ML/day
MODULATING CONTROL
Head Loss Across Valve,
5.8m-0.5m

FCV 1009
1.2 ML/day - 10ML/day
ON/OFF CONTROL

FCV 1012
1.2 ML/day - 10ML/day
ON/OFF CONTROL

NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	19/07/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
0	ISSUED FOR TENDER	19/02/03	

Company Permit
Engineer Seal

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHENDEL MECHANICAL CONTRACTING LTD. & VECTOR ELECTRIC & CONTROLS. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED ON LOCATION BEFORE USE.

PROCESS & INSTRUMENTATION

P & ID - PRE-TREATMENT



CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

EARTH TECH		Earth Tech (Canada) Inc.		Edmonton, Alberta 780.488.6800	
DRAWN BY: CKW	CHECKED BY: CKW/JVH	SCALE: AS NOTED	DATE: FEB. 02/02/03	SHEET NO.	
CADD SYSTEM AutoCAD	DWG NO.	1-2	REV. 2	CONTRACT 55524	

LCP

NOTES:

1

LINES ARE CONNECTED TO MAIN SEWAGE LINE C/W ORIFICE PLATE.

MCP

PID-I-3
BACKWASH WASTE TO
WASTE STORAGE TANK
TYP. FOR F-211,212,213

400-BWW-SS10-2003

BACKWASH WASTE STORAGE TANK

PID-I-3
FILTERED TO WASTE
TO SURGE TANK

200-FTW-SS10-2007

FILTER TO WASTE TANK (OLD SURGE TANK)

FCV 4001
0.0 - 50 M³/hour
MODULATING CONTROL
Head Loss Across Valve,
0.3M - 3.0m

FCV 4011
0.0 - 20 M³/hour
MODULATING CONTROL
Head Loss Across Valve,
0.3M - 3.0m

NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	19/07/04	LL
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW
0	ISSUED FOR TENDER	19/02/03	CKW

Company Permit
Engineer Seal

RECORD DRAWING
INFORMATION CONTAINED IN THESE DRAWINGS IS
AS SUPPLIED BY: SCHENDEL MECHANICAL
CONTRACTING LTD. & VECTOR ELECTRIC &
CONTROLS. THE COMPLETENESS AND ACCURACY
OF THIS RECORD DRAWING IS NOT GUARANTEED.
INFORMATION SHOULD BE VERIFIED ON LOCATION
BEFORE USE.

PROCESS & INSTRUMENTATION

P & ID - FLUORIDE &
ORTHOPHOSPHATE SUPPLY



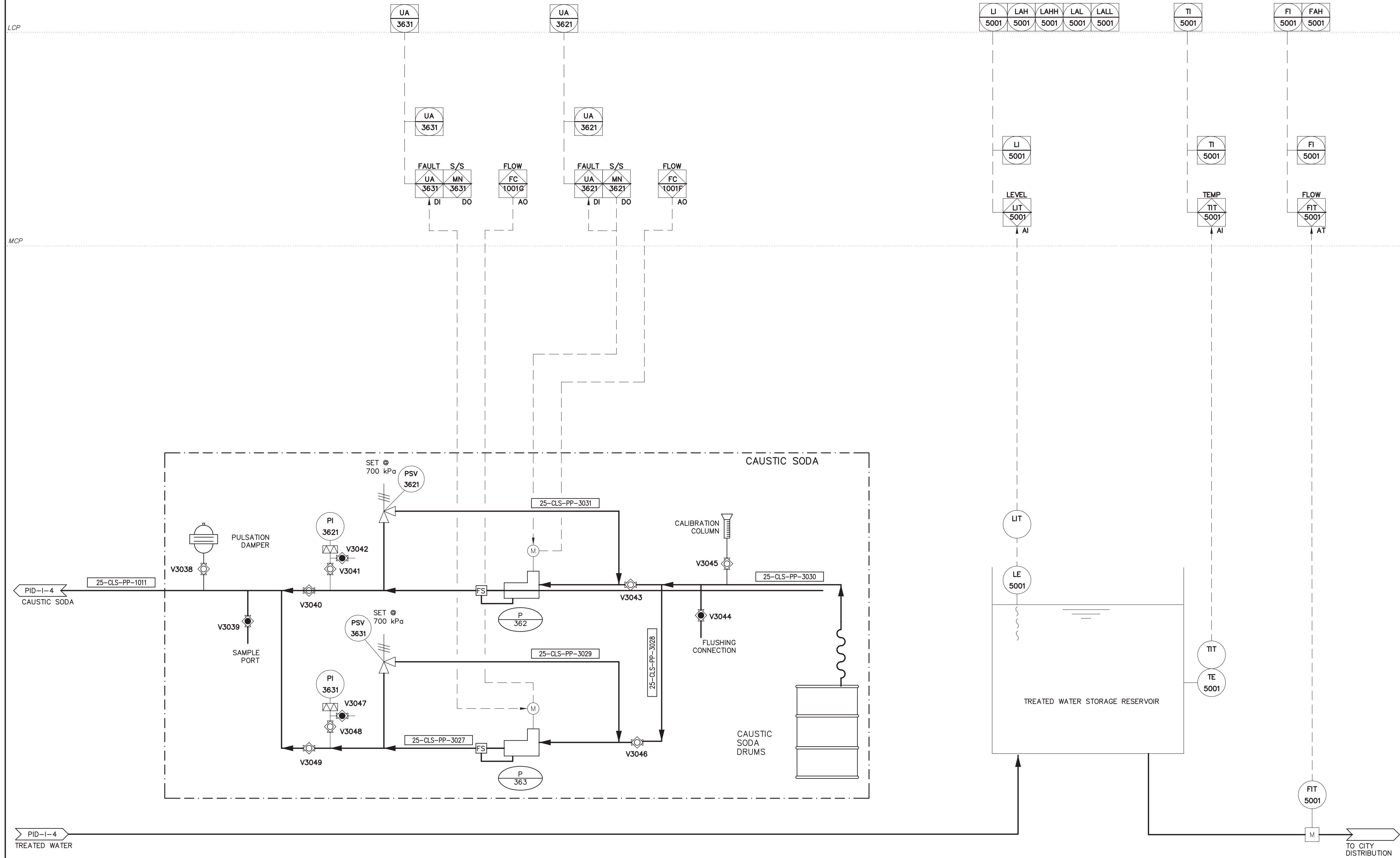
CITY of IQALUIT,
Nunavut

CITY OF IQALUIT

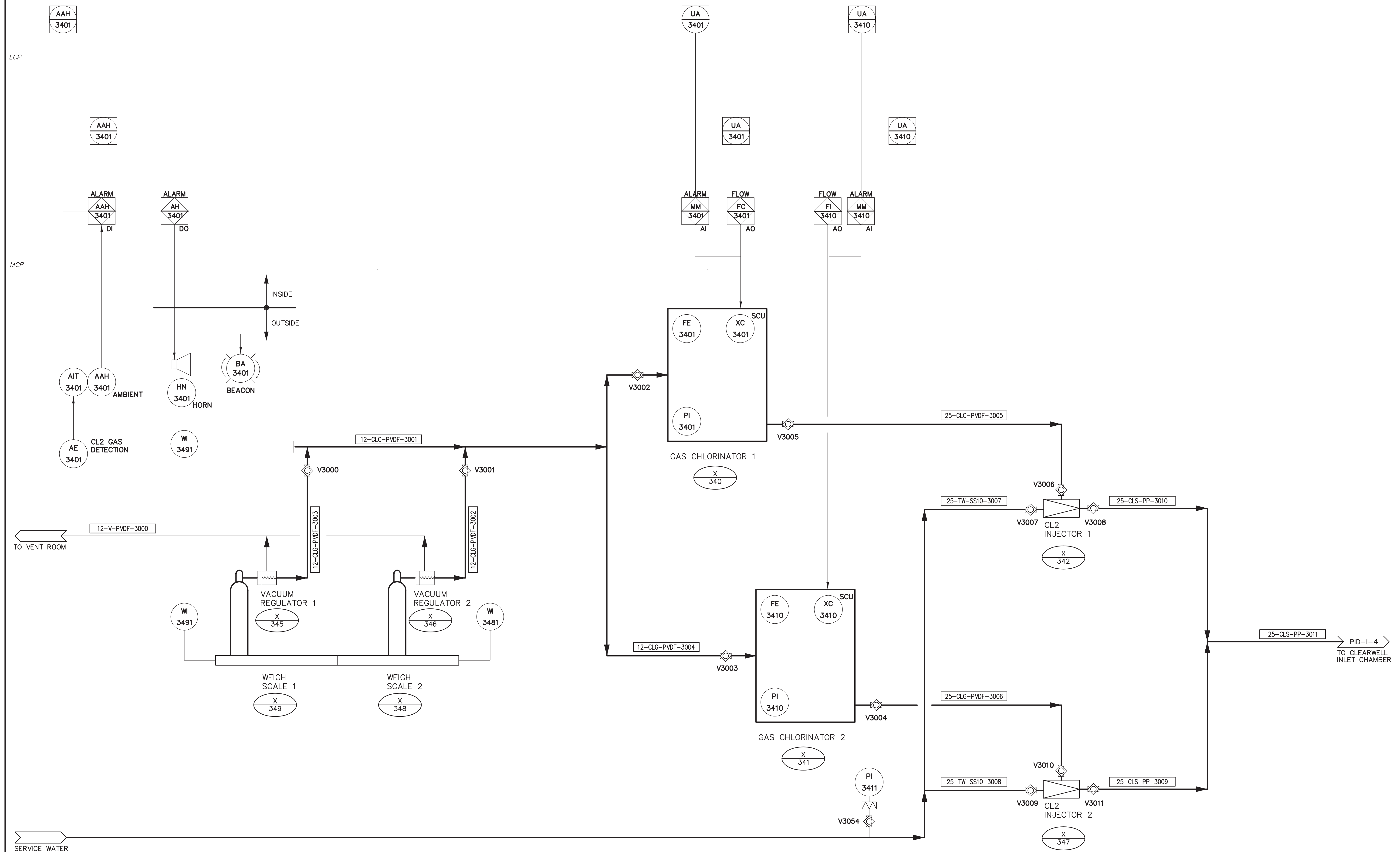
IQALUIT WATER TREATMENT PLANT



Earth Tech (Canada) Inc.			
DRAWN BY: CKW	SCALE: NOTED	DATE: FEB. 02/02/03	SHEET NO.
CHECKED BY: CKW/JVH	DWG NO.	REV. 2	CONTRACT 55524
CADD SYSTEM AutoCAD	1-5		



				Company Permit	Engineer Seal	PROCESS & INSTRUMENTATION	 CITY of IQALUIT, Nunavut	CITY OF IQALUIT	 EARTHTECH Earth Tech (Canada) Inc. <table><tr><td>DRAWN BY: KWM</td><td>SCALE: N.T.S.</td><td>DATE: OCT. 2002</td><td>SHEET NO.</td></tr><tr><td>CHECKED BY: CKW/JVH</td><td></td><td></td><td></td></tr><tr><td>CADD SYSTEM AutoCAD</td><td>DWG NO. 1-7</td><td>REV. 2</td><td>CONTRACT 55524</td></tr></table>	DRAWN BY: KWM	SCALE: N.T.S.	DATE: OCT. 2002	SHEET NO.	CHECKED BY: CKW/JVH				CADD SYSTEM AutoCAD	DWG NO. 1-7	REV. 2	CONTRACT 55524
DRAWN BY: KWM	SCALE: N.T.S.	DATE: OCT. 2002	SHEET NO.																		
CHECKED BY: CKW/JVH																					
CADD SYSTEM AutoCAD	DWG NO. 1-7	REV. 2	CONTRACT 55524																		
2	RECORD DRAWINGS	11/05/04	LL																		
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW																		
0	ISSUED FOR TENDER	19/02/03	CKW																		
NO.	REVISION	DATE	INITIAL	RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHENDEL MECHANICAL CONTRACTING LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.		P & ID – TEMPORARY CHLORINATION PLANT		IQALUIT WATER TREATMENT PLANT													



2	RECORD DRAWING	19/07/04	LL
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW
0	ISSUED FOR TENDER	19/02/03	CKW
NO.	REVISION	DATE	INITIAL

Company Permit _____ Engineer Seal _____

RECORD DRAWING
 INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHENDEL MECHANICAL CONTRACTING LTD. & VECTOR ELECTRIC & CONTROLS. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED ON LOCATION BEFORE USE.

PROCESS & INSTRUMENTATION

**P & ID
CHLORINE SUPPLY**

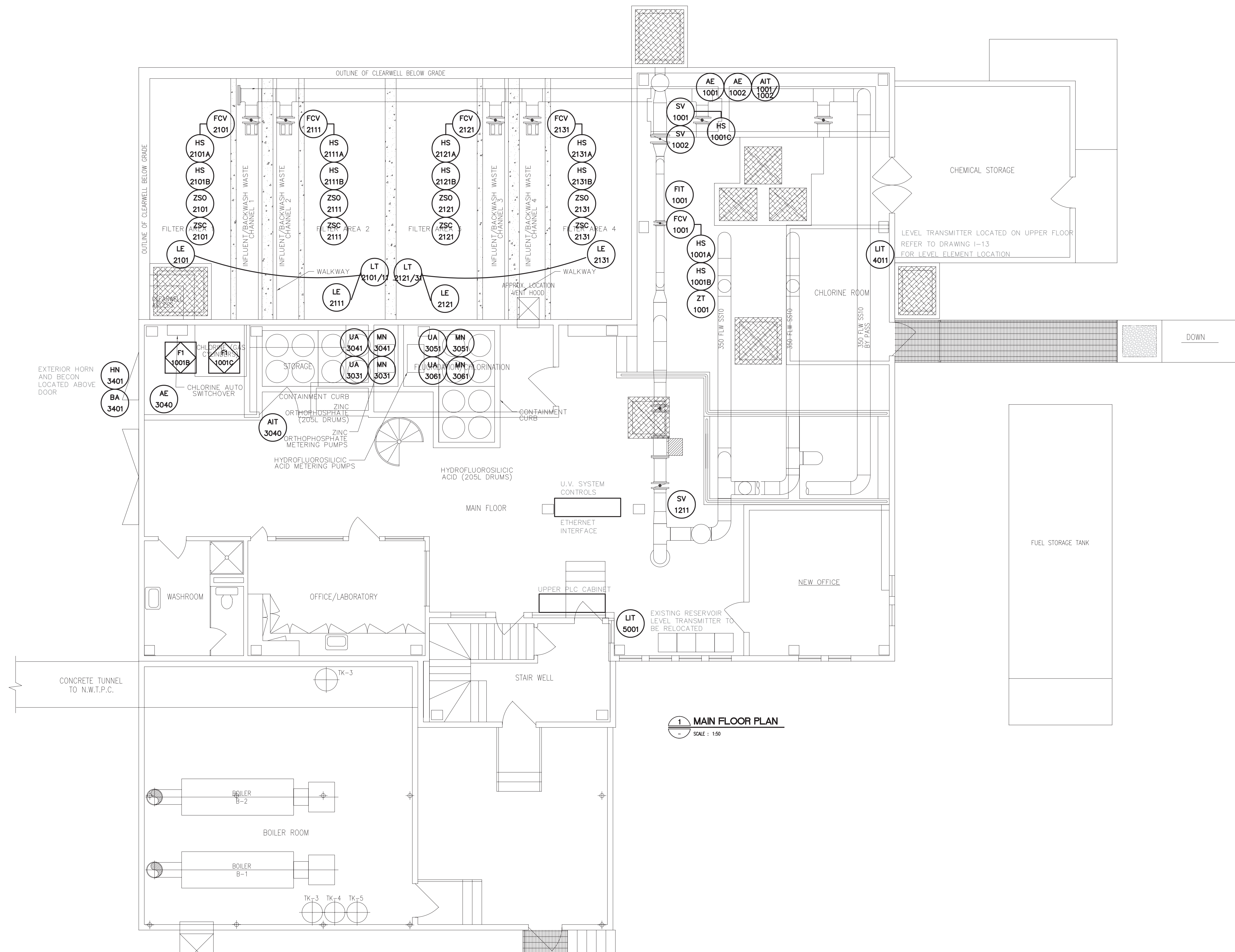


CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

Earth Tech (Canada) Inc.			
DRAWN BY: CKW	SCALE: AS NOTED	DATE: FEB. 02/02/03	SHEET NO.
CHECKED BY: CKW/JVH			
CADD SYSTEM: AutoCAD	DWG. NO. 1-8	REV. 2	CONTRACT 55524

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NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	14/09/04	YLC
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW
0	ISSUED FOR TENDER	19/02/03	CKW

Company Permit

Engineer Seal

RECORD DRAWING
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CONTRACTING LTD. & VECTOR ELECTRIC &
CONTROLS. THE COMPLETENESS AND ACCURACY
OF THIS RECORD DRAWING IS NOT GUARANTEED.
INFORMATION SHOULD BE VERIFIED ON LOCATION
BEFORE USE.

INSTRUMENTATION

FILTERS FLOOR
DEVICE
LOCATIONS



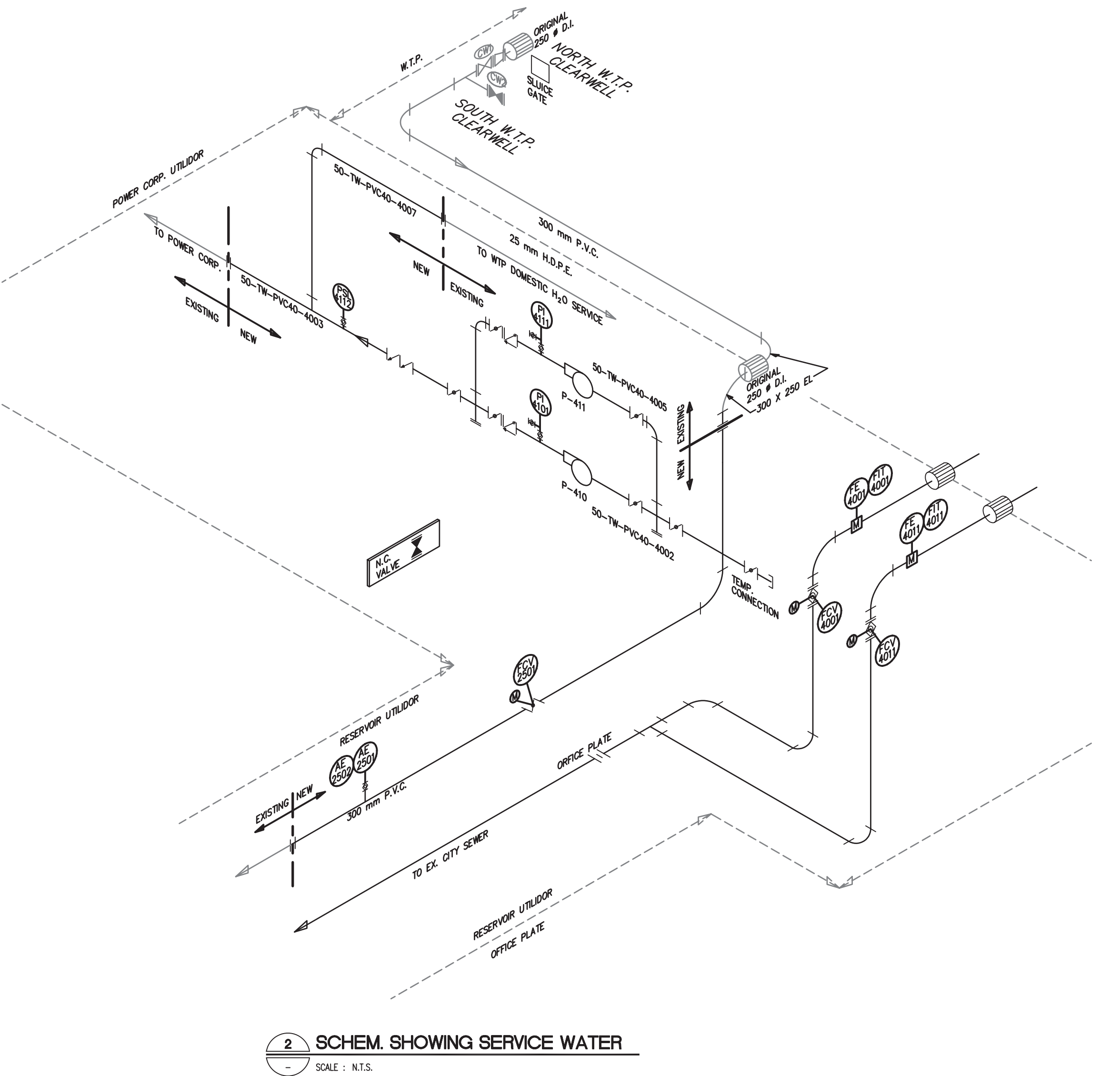
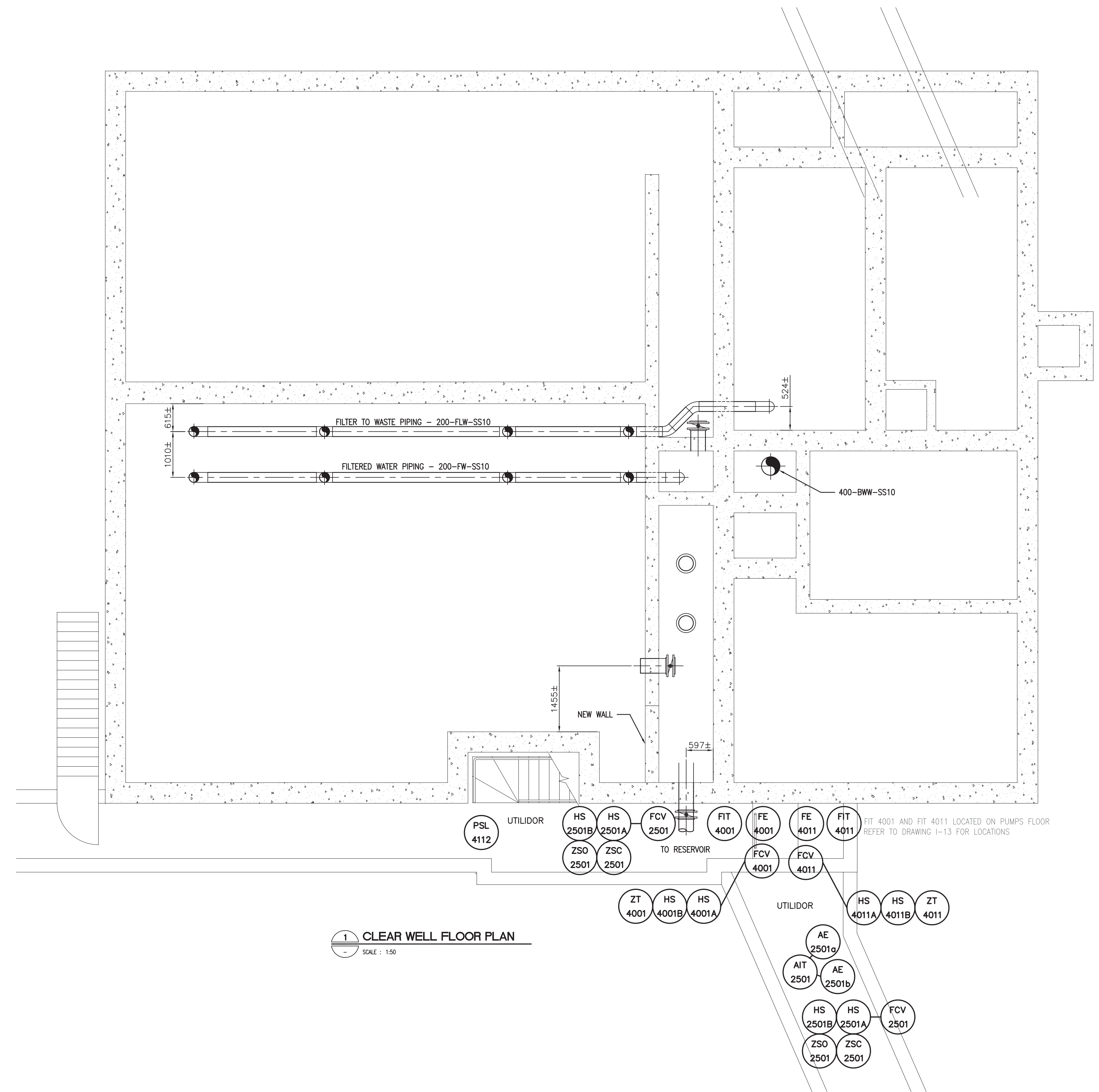
CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

Earth Tech (Canada) Inc.

DRAWN BY: TDC	SCALE: AS NOTED	DATE: OCT. 2002	SHEET NO.
CHECKED BY: CKW			
CADD SYSTEM AutoCAD	DWG NO.	REV. 1	CONTRACT 55524

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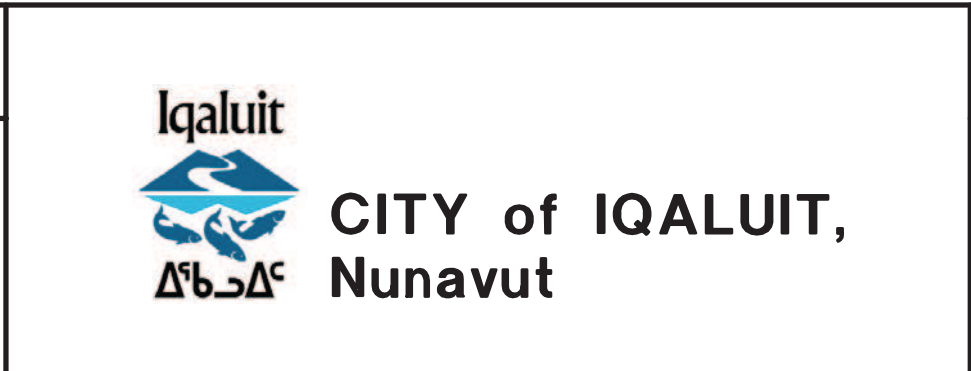
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0	ISSUED FOR TENDER	19/02/03	CKW
NO.	REVISION	DATE	INITIAL

Company Permit

Engineer Seal

RECORD DRAWING
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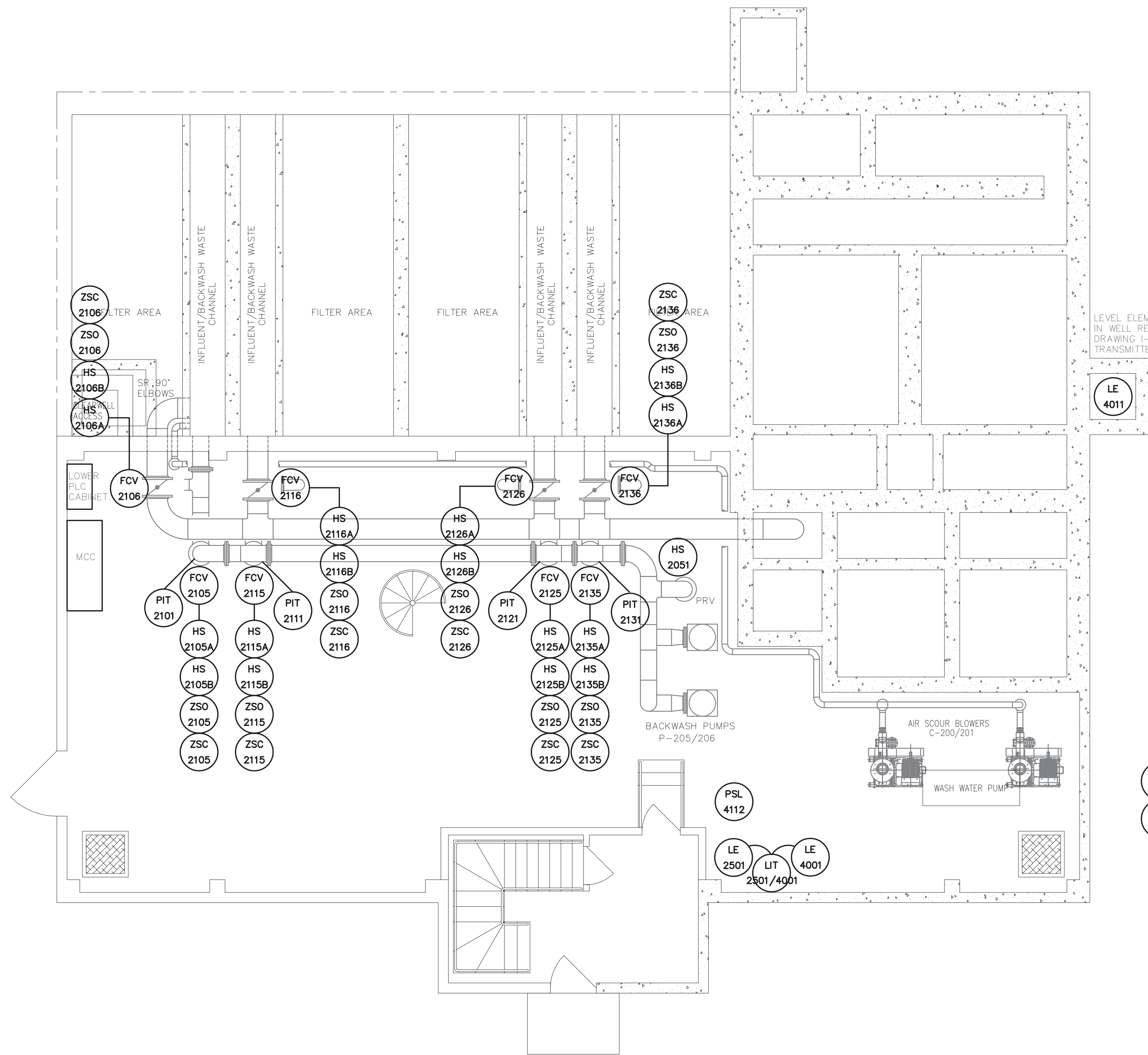
INSTRUMENTATION
CLEARWELL FLOOR
DEVICE
LOCATIONS



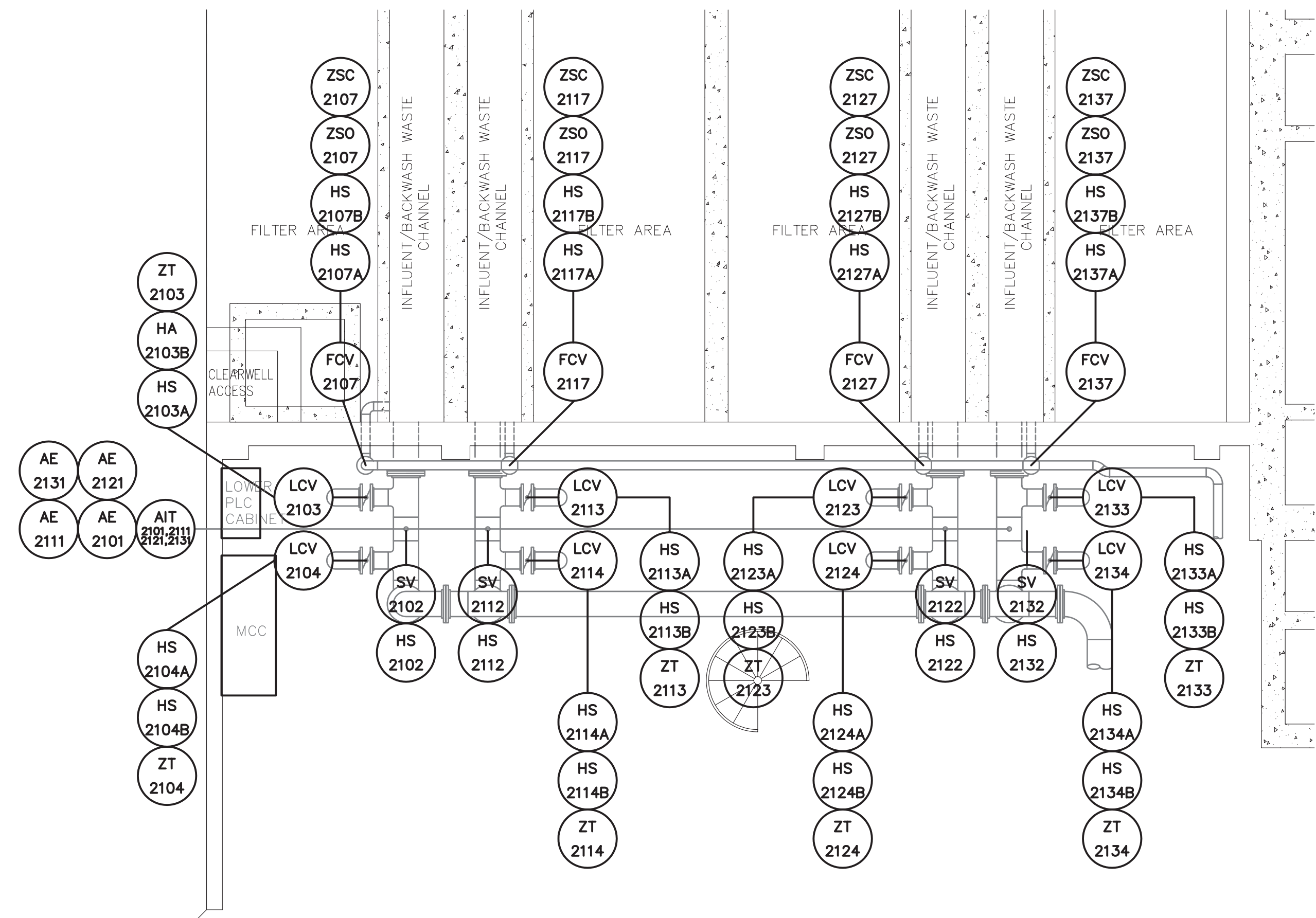
CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

Earth Tech (Canada) Inc.

DRAWN BY: TDC	SCALE: AS NOTED	DATE: OCT. 2002	SHEET NO.
CHECKED BY: CKW	DWG NO.	REV. 1	CONTRACT 55524
CADD SYSTEM AutoCAD	I-11		



1 PUMPS FLOOR PLAN
SCALE : 150



2 PARTIAL PUMPS FLOOR PLAN
SCALE : 150

NO.	REVISION	DATE	INITIAL
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW
0	ISSUED FOR TENDER	19/02/03	CKW

Company Permit	Engineer Seal
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INSTRUMENTATION
PUMPS FLOOR DEVICE LOCATIONS

 CITY of IQALUIT, Nunavut

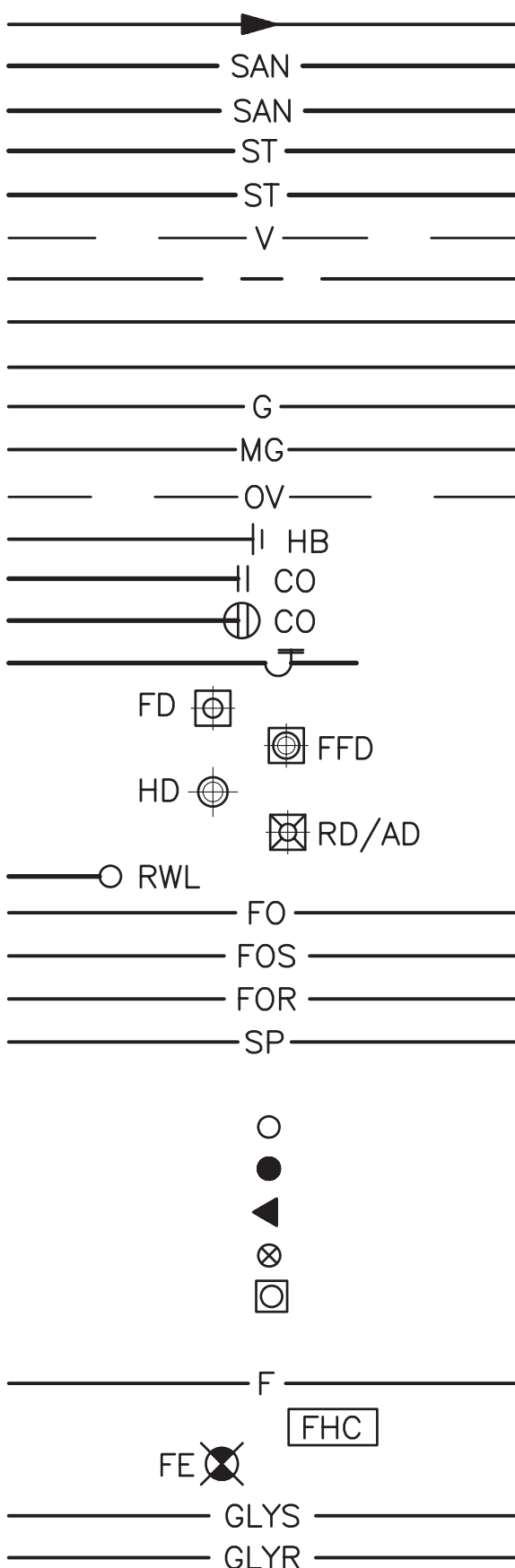
CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

EARTH TECH Earth Tech (Canada) Inc.			
DRAWN BY: TDC	SCALE: AS NOTED	DATE: OCT. 2002	SHEET NO.
CHECKED BY: CKW	DWG. NO.	REV. 1	CONTRACT 55524
CADD SYSTEM AutoCAD	I-10		

ET:55524/Cadd FileA1-PROJ-SHT.dwg/Last Edit: 2004-04-06 (17:00)/Plot Scale: 1:1 (A1)

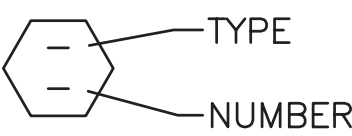
PLUMBING

DIRECTION OF FLOW
SANITARY ABOVE SLAB
STORM ABOVE SLAB
VENT
DOMESTIC COLD WATER
DOMESTIC HOT WATER
DOMESTIC HOT WATER RECIRC.
LOW PRESSURE NATURAL GAS
MEDIUM PRESSURE NATURAL GAS
OIL VENT
HOSE BIBB
CLEANOUT PLUG
FLOOR
RUNNING TRAP
FLOOR DRAIN
FUNNEL FLOOR DRAIN
HUB DRAIN
ROOF/AREA DRAIN
RAIN WATER LEADER
FUEL OIL FILL
FUEL OIL SUPPLY
RETURN
SPRINKLER LINE
SPRINKLER HEAD UPRIGHT
PENDANT
SIDEWALL
DRY
FLUSH
FIRE LINE
FIRE HOSE CABINET
FIRE EXTINGUISHER
GLYCOL SUPPLY
RETURN



PLUMBING FIXTURE TAG

WATER CLOSET WC
LAVATORY L
URINAL U
SINK SK
MOP/JANITOR SINK MS



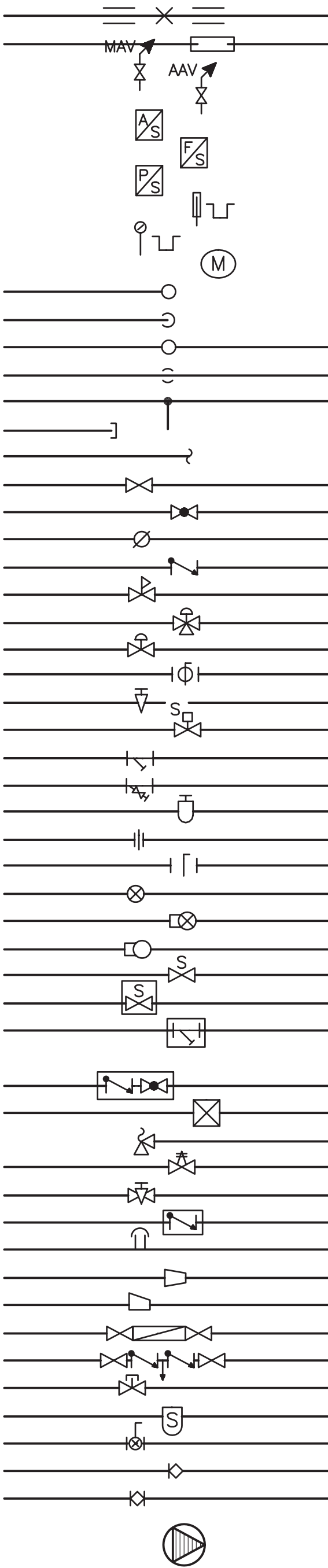
EQUIPMENT FIXTURE TAG

FANS SUPPLY SF
RETURN RF
EXHAUST EF
PREHEAT COILS PHC
REHEAT COILS RHC
COOLING COILS CC
HEATING COILS HC
UNIT HEATER UH
PUMP P
TANK TK
HEAT EXCHANGER HE
DOMESTIC WATER HEATER DWH
BOILER B
AIR CONDITIONER UNIT ACU
AIR HANDLING UNIT AHU
CABINET UNIT HEATER CUH



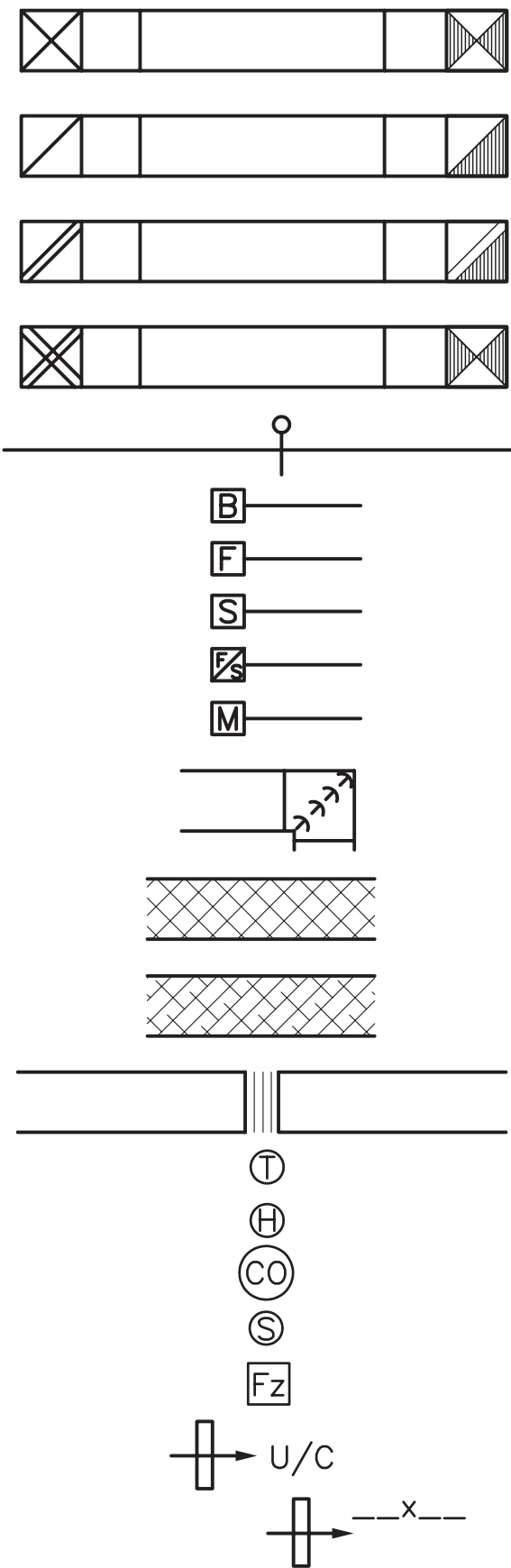
PIPE FITTINGS

PIPE ANCHOR & GUIDES
EXPANSION JOINT
AIR VENT MANUAL
AUTOMATIC
AQUA-STAT
FLOW SWITCH
PRESSURE SWITCH
THERMOMETER & WELL
PRESSURE GAUGE & TAP
FLOW METER
PIPE RISE
PIPE DROP
PIPE TOP TAKE-OFF
PIPE BOTTOM TAKE-OFF
SIMPLE CONNECTION
PIPE CAP
PIPE CONTINUATION
GATE VALVE
GLOBE VALVE
BALANCING VALVE
CHECK VALVE
PRESSURE REDUCING VALVE
3-WAY CONTROL VALVE
2-WAY CONTROL VALVE
BALL VALVE
GAS COCK
SOLENOID VALVE
STRAINER (IN-LINE)
STRAINER (BLOW-OFF)
BUCKET STRAINER
UNION
BUTTERFLY VALVE
FLOAT & THERMOSTATIC TRAP
BUCKET TRAP
THERMODYNAMIC TRAP
SUPERVISED ISOLATION VALVE
SUPERVISED ZONE VALVE
COMBINATION STRAINER/
SUCTION GUIDE
FLOTREX CHECK/SHUT-OFF VALVE
FLOW CONTROL REGULATOR
RELIEF VALVE
O.S. & Y VALVE
NEEDLE VALVE
BACKWATER VALVE
VACUUM BREAKER
CONCENTRIC REDUCER
ECCENTRIC REDUCER
DOUBLE CHECK BACKFLOW PREVENTOR
REDUCED PRESSURE BFP
LOCKSHIELD VALVE
SUCTION DIFFUSER
CIRCUIT BALANCING VALVE
ALARM CHECK VALVE
ECCENTRIC PLUG VALVE (BALANCING VALVE)
PUMP (SCHEMATIC)



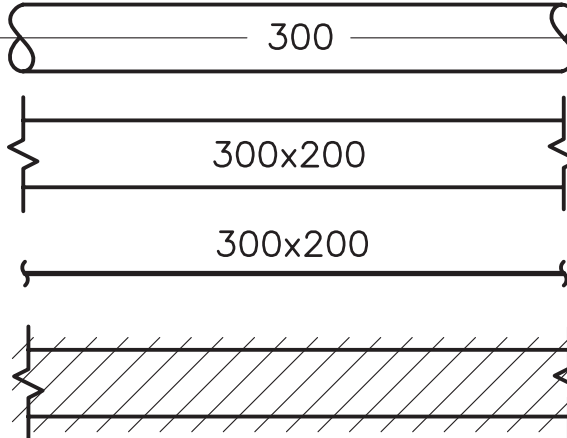
AIR DISTRIBUTION

SUPPLY AIR (S/A)
RETURN AIR (R/A)
EXHAUST AIR (E/A)
OUTSIDE AIR (O/A)
BALANCING DAMPER
BACKDRAFT DAMPER
FIRE DAMPER
SMOKE DAMPER
FIRE/SMOKE DAMPER
MOTORIZED DAMPER
TURNING VANES
ACCOUSTIC LINED DUCTWORK
EXTERNAL INSULATION
FLEXIBLE DUCTWORK
THERMOSTAT
HUMIDISTAT
CARBON DIOXIDE DETECTOR
DIFFERENTIAL PRESSURE SENSOR
FREEZE STAT
DOOR UNDERCUT
DOOR GRILLE c/w SIZE



DUCT DIMENSIONING

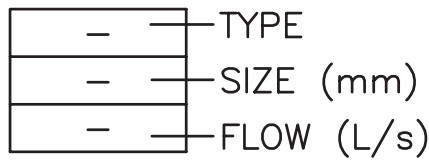
ROUND DUCT
RECTANGULAR DUCT
SINGLE LINE DUCT REPRESENTATION
DUCTWORK TO BE REMOVED



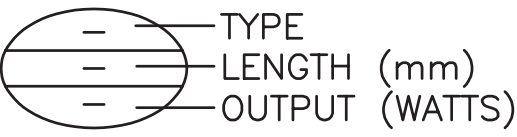
NOTE:
WHERE '300' IS THE
VISIBLE DIMENSION

AIR OUTLET TAG

SUPPLY S
RETURN R
EXHAUST E
TRANSFER T
LOUVRE L



RADIATION /
RADIANT PANEL TAG

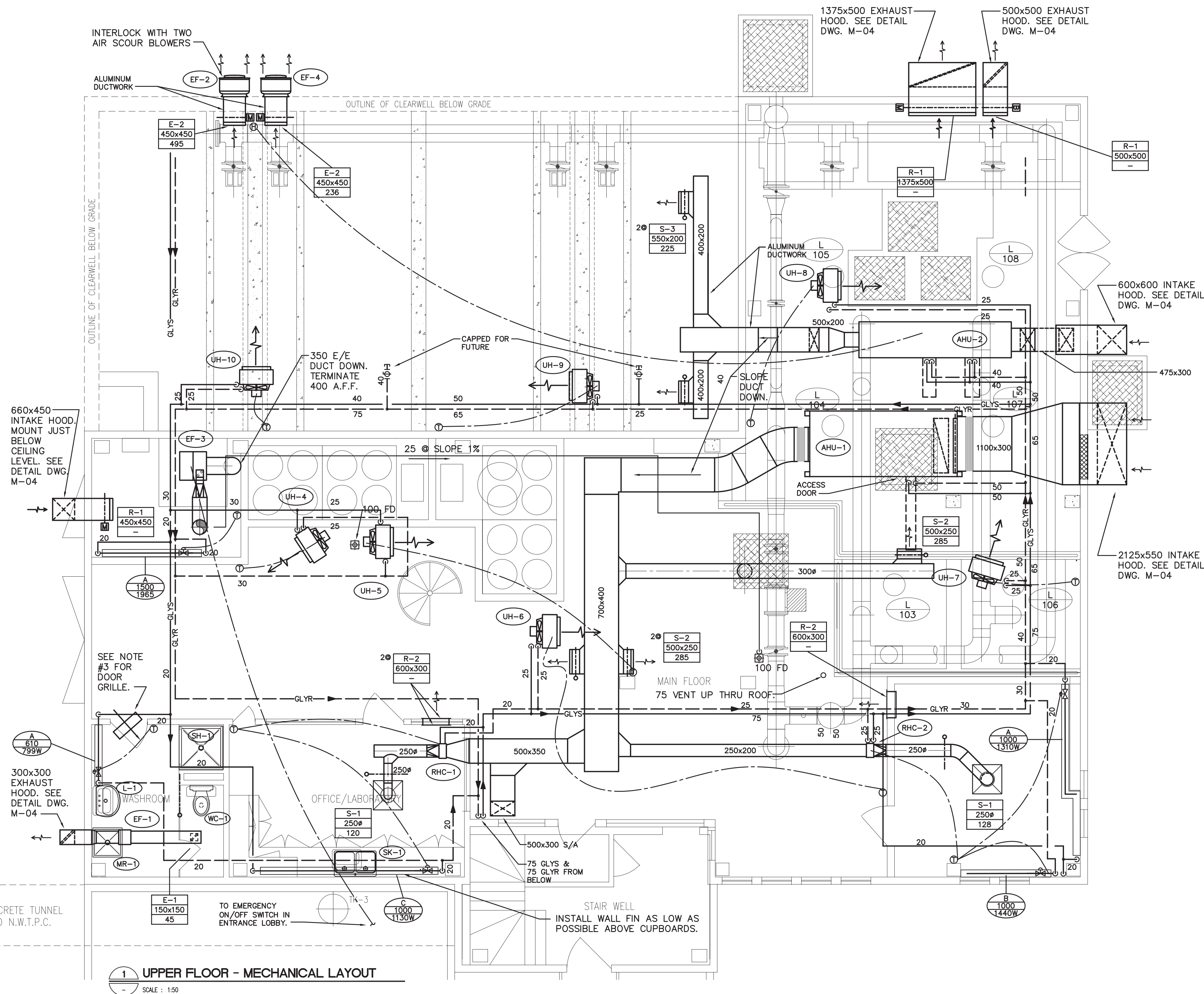


REVISION TAG

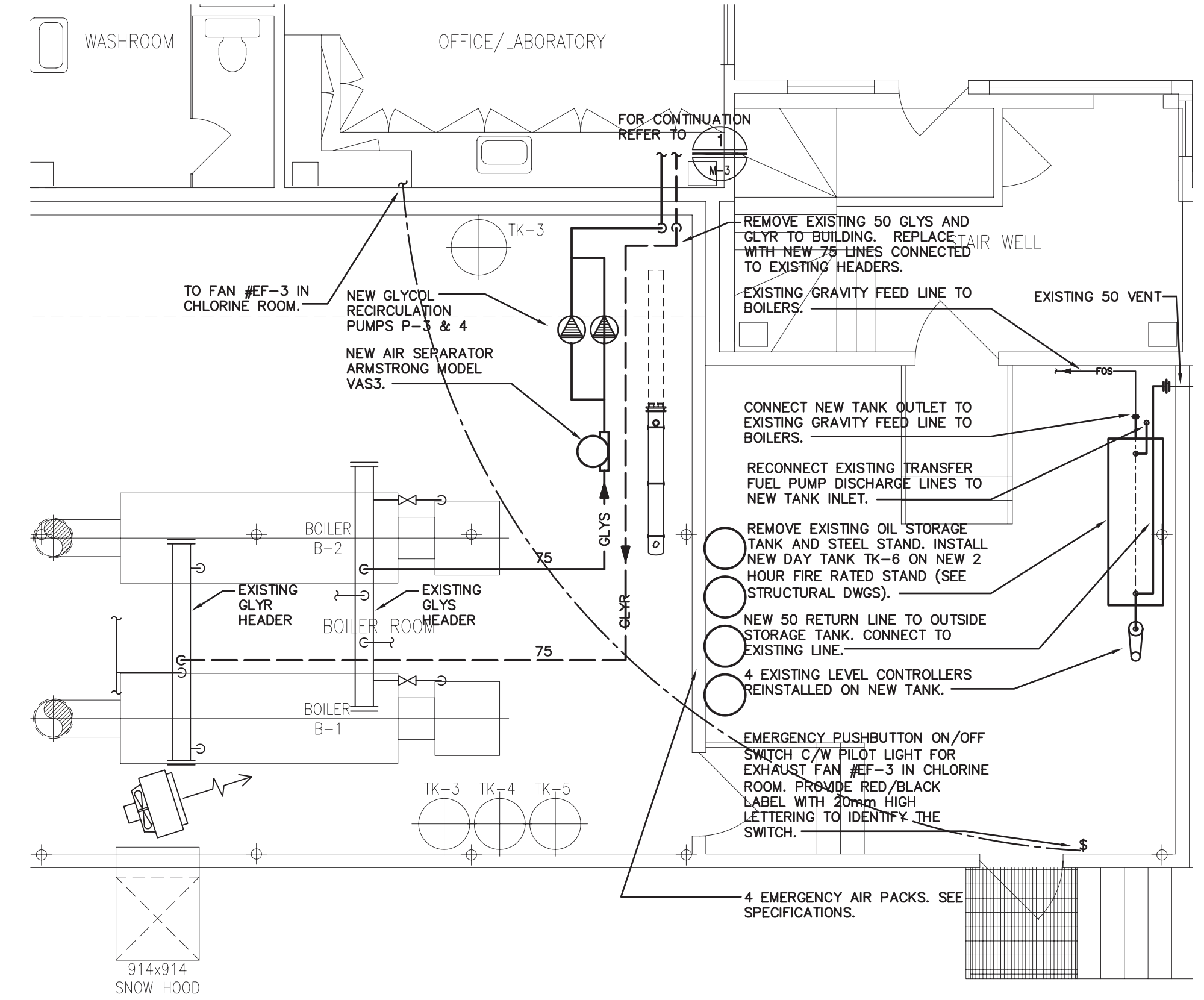


1 MECHANICAL LEGEND
SCALE : N.T.S.

				Company Permit	Engineer Seal	MECHANICAL		CITY OF IQALUIT	CITY OF IQALUIT IQALUIT WATER TREATMENT PLANT	 Earth Tech (Canada) Inc.			
2	RECORD DRAWING	23/04/04	IV	RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY SHENDEL MECHANICAL CONTRACTING LTD. DATE: <u>MAY 03, 2004</u>	LEGEND					DRAWN BY: CWN CHECKED BY: DBF CADD SYSTEM AutoCAD	SCALE: AS NOTED DWG NO. M-1	DATE: FEB. 03, 2003	SHEET NO.
1	ISSUED FOR CONSTRUCTION	22/04/03	DBF										
0	ISSUED FOR TENDER	19/02/03	DBF										
NO.	REVISION	DATE	INITIAL										



1 UPPER FLOOR - MECHANICAL LAYOUT
SCALE: 1:50



2 BOILER ROOM - MECHANICAL
SCALE: 1:50

- NOTE:
1. FIELD RUN NEW HEATING PIPES TO PREVENT INTERFERENCE WITH NEW PROCESS PIPING.
 2. INSTALL ALL THERMOSTATS ON BRACKETS MIN. 50 CLEAR OF THE WALL.
 3. 400x250 DOOR GRILLE. E.H. PRICE SERIES "ATGH", BORDER STYLE "BF", FINISH "B15".

ET:55524/Cadd FileA1-PROJ-SHT.dwg/Last Edit: 2004-04-06 (17:00)/Plot Scale: 1:1 (A1)

NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	23/04/04	IV
1	ISSUED FOR CONSTRUCTION	22/04/03	DBF
0	ISSUED FOR TENDER	19/02/03	DBF

Company Permit	Engineer Seal
RECORD DRAWING	
INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY SHENDEL MECHANICAL CONTRACTING LTD.	
DATE: MAY 03, 2004	

MECHANICAL
UPPER FLOOR
MECHANICAL LAYOUT

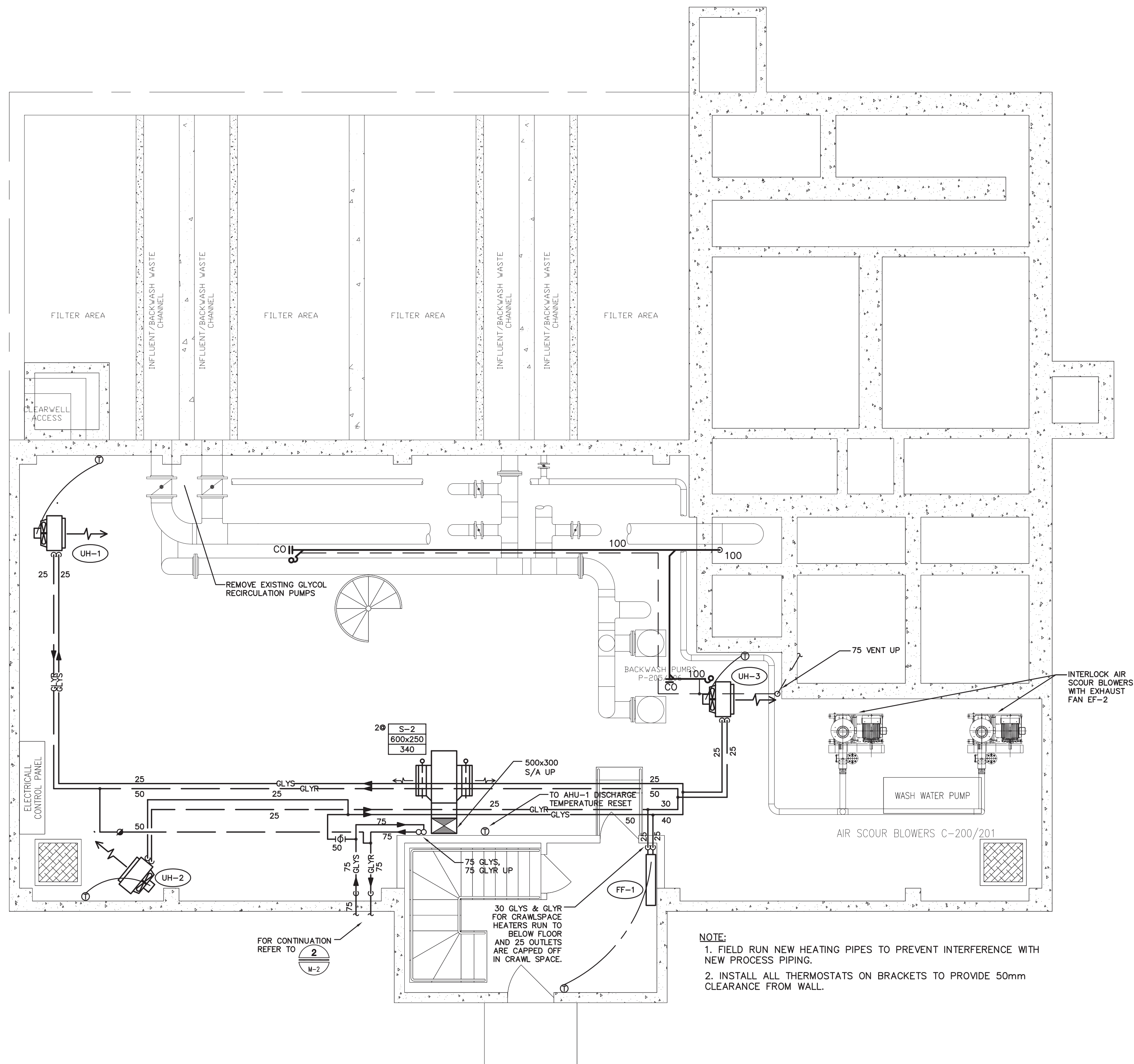


CITY of IQALUIT,
Nunavut

CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

Earth Tech (Canada) Inc.			
DRAWN BY: E.J.L.	SCALE: AS NOTED	DATE: FEB. 03, 2003	SHEET NO.
CHECKED BY: DBF	DWG. NO. M-2	REV. 1	CONTRACT 55524

ET:55524/Cadd FileA1-PROJ-SHT.dwg/Last Edit: 2004-04-06 (17:00)/Plot Scale: 1:1 (A1)



1 LOWER FLOOR - MECHANICAL PLAN
SCALE: 1:50

NO.	REVISION	DATE	INITIAL
2	RECORD DRAIING	23/04/04	IV
1	ISSUED FOR CONSTRUCTION	22/04/03	DBF
0	ISSUED FOR TENDER	19/02/03	DBF

Company Permit	Engineer Seal
RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY SHENDEL MECHANICAL CONTRACTING LTD. DATE: MAY 03, 2004	

MECHANICAL
LOWER FLOOR
MECHANICAL LAYOUT



CITY of IQALUIT,
Nunavut

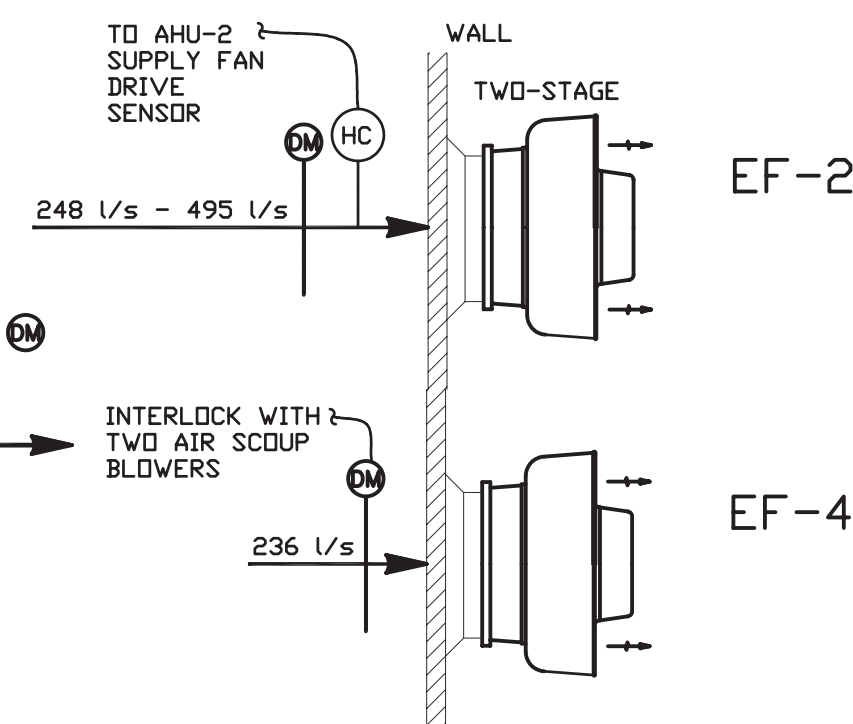
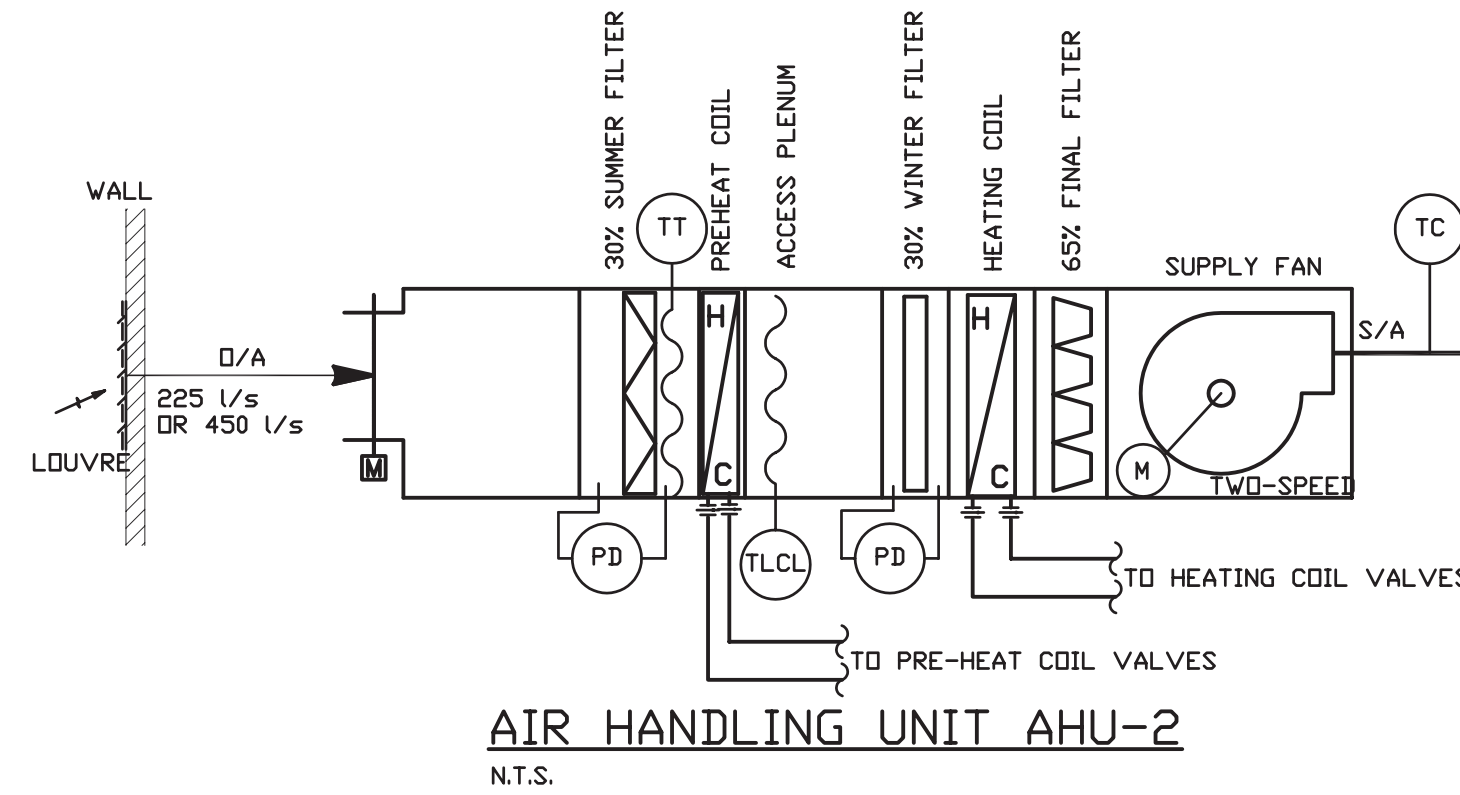
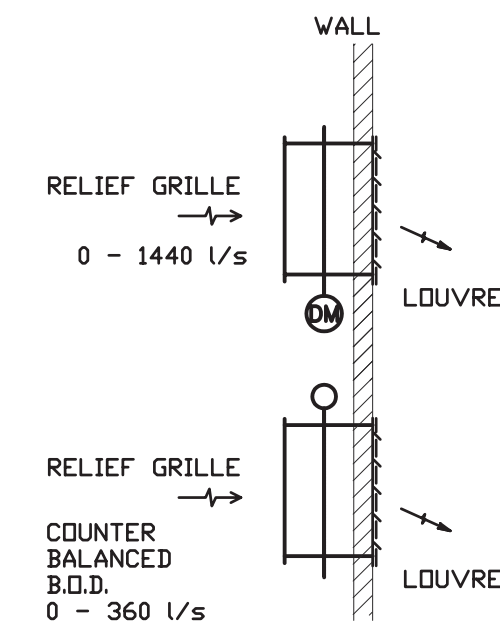
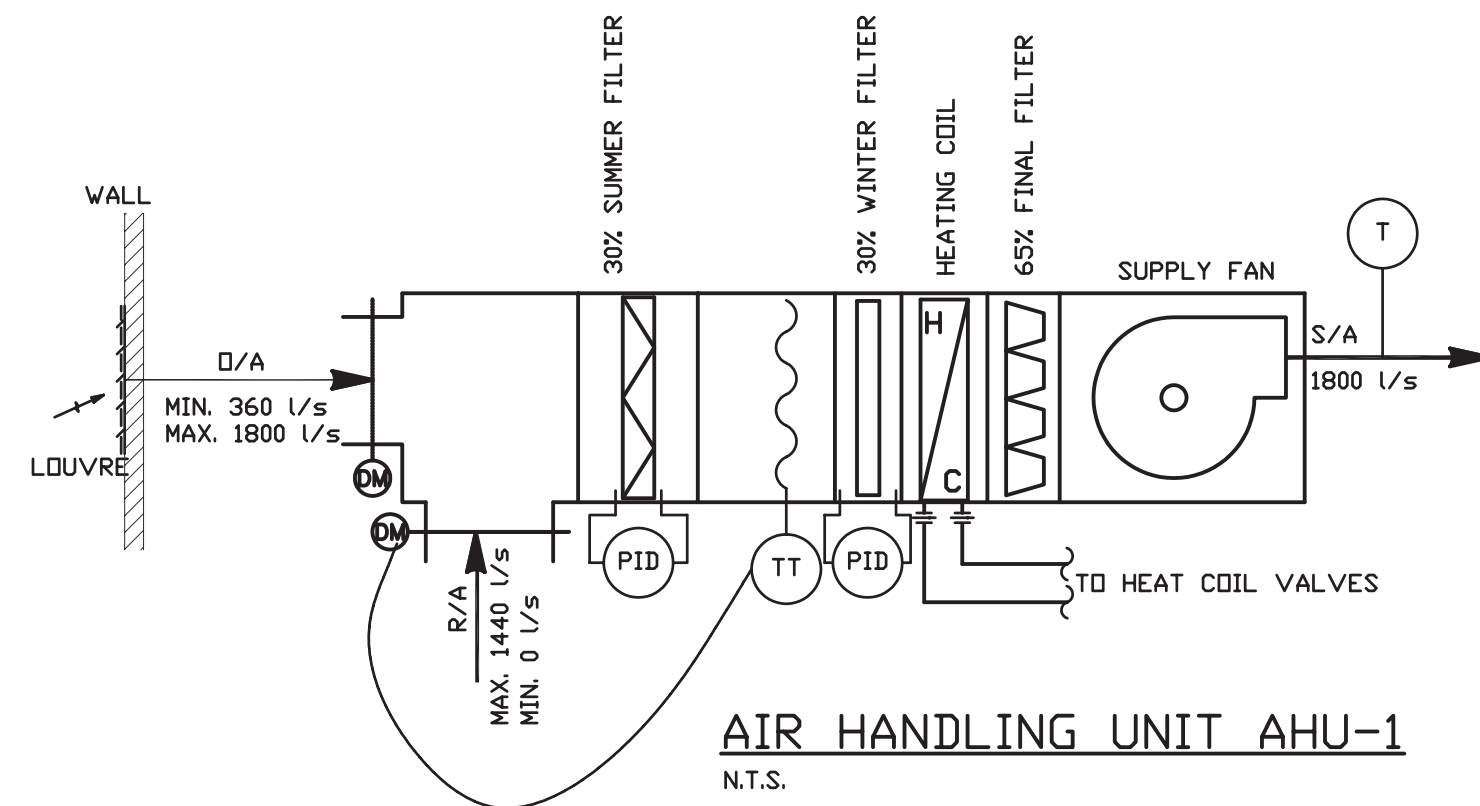
CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

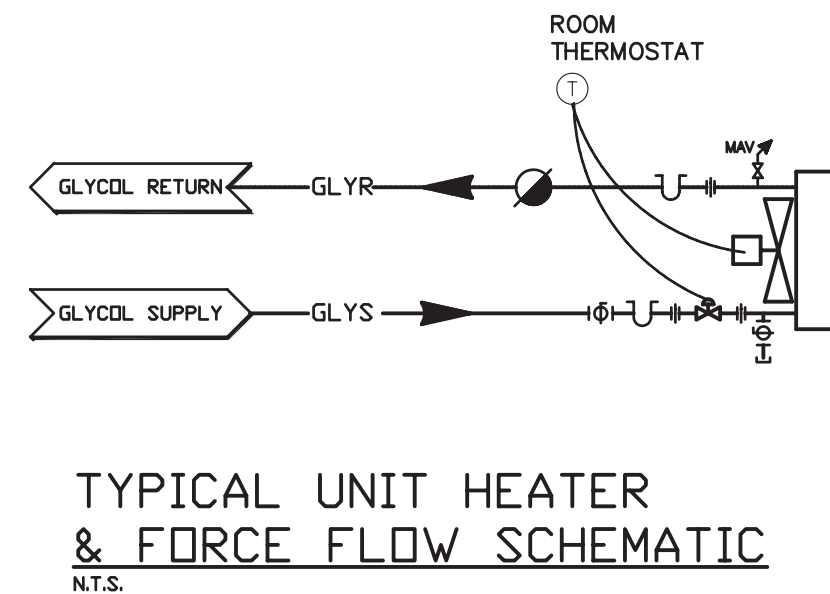


Earth Tech (Canada) Inc.

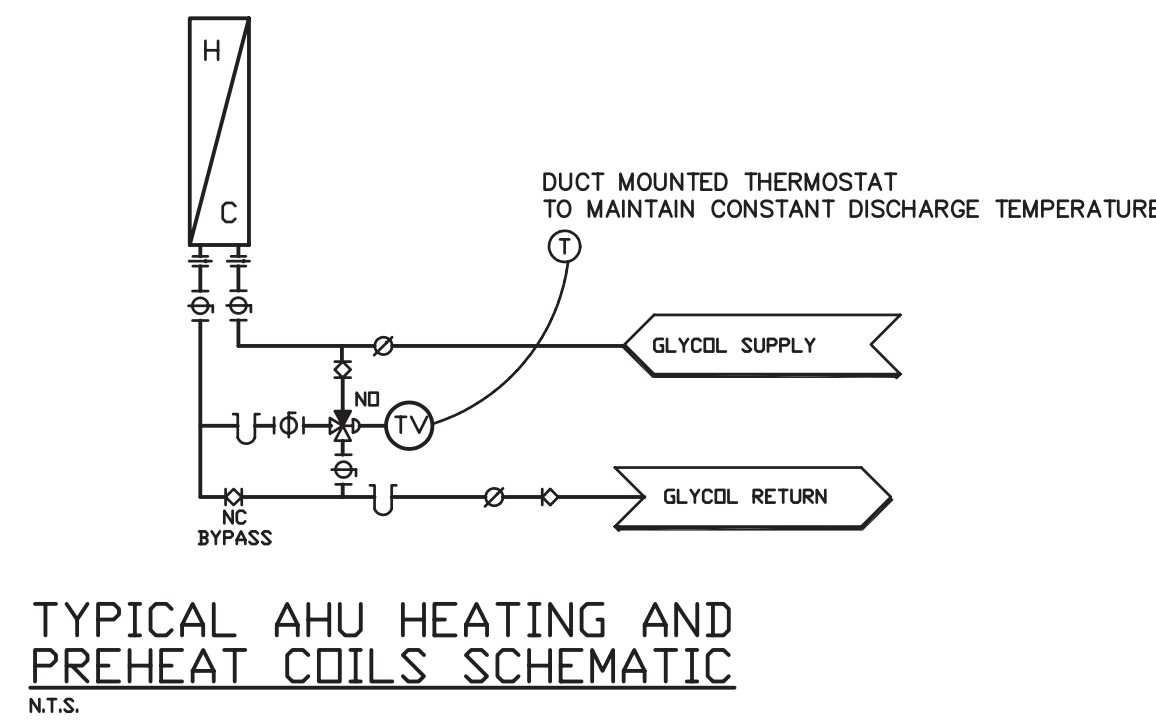
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CHECKED BY: DBF			
CADD SYSTEM AutoCAD	DWG NO. M-3	REV. 1	CONTRACT 55524



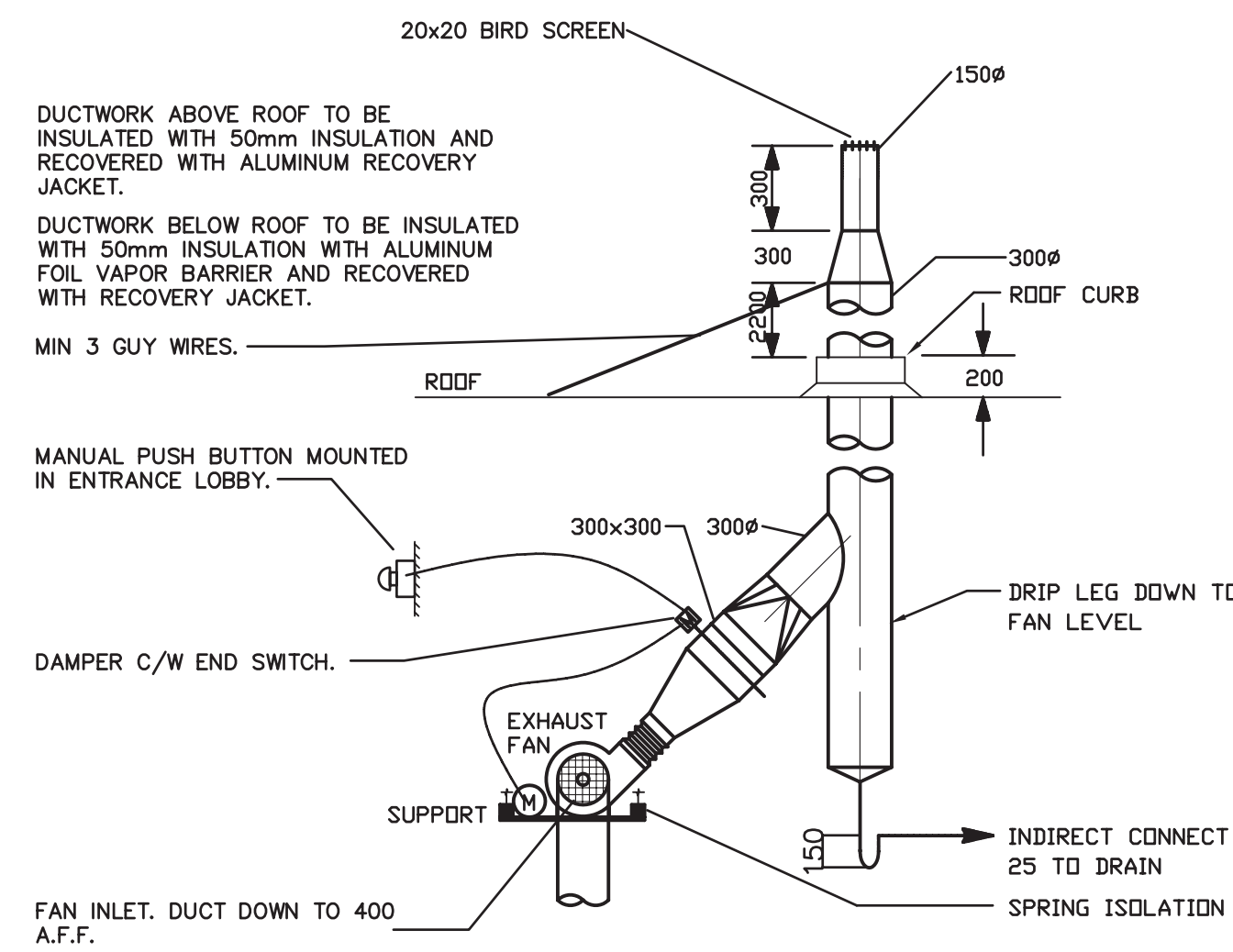
EXHAUST FANS EF-2/4
N.T.S.



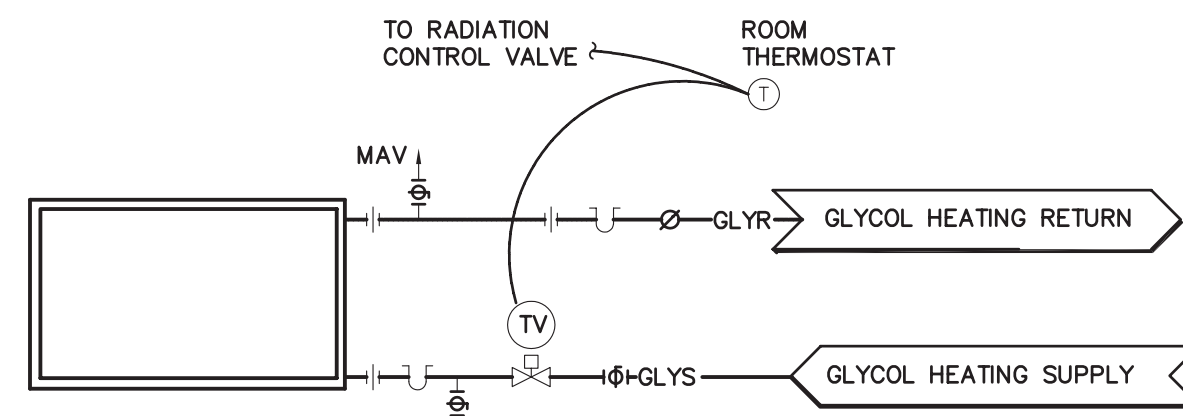
TYPICAL UNIT HEATER & FORCE FLOW SCHEMATIC
N.T.S.



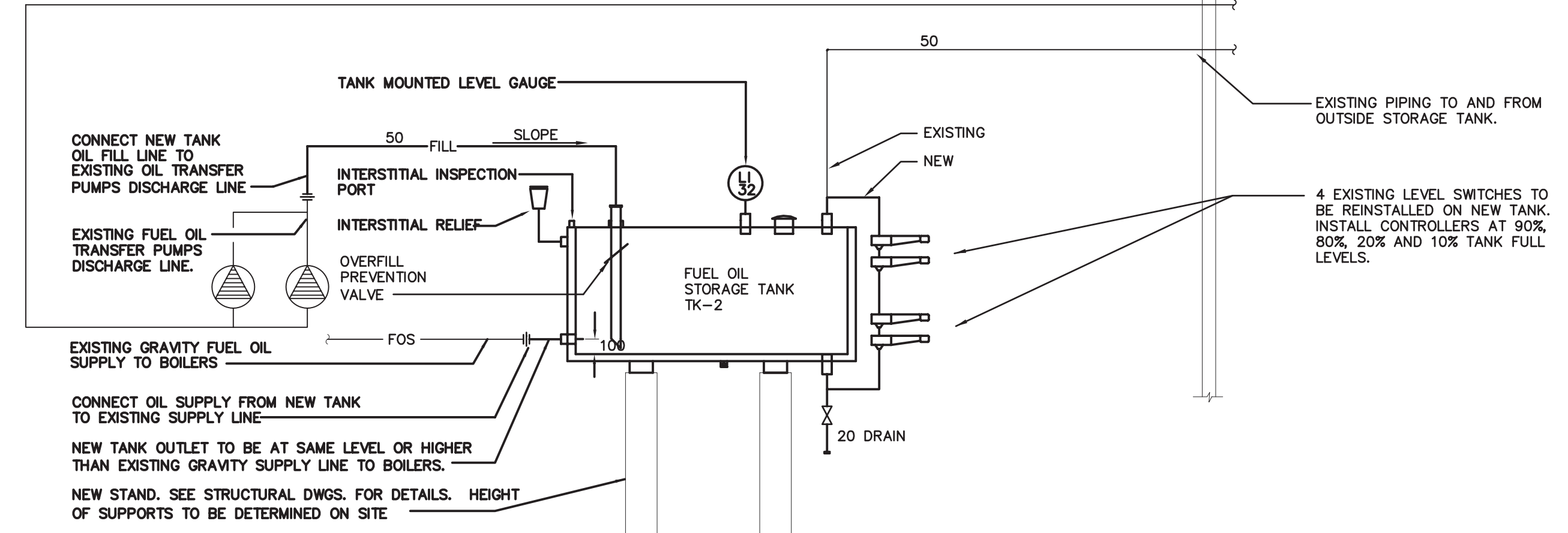
TYPICAL AHU HEATING AND PREHEAT COILS SCHEMATIC
N.T.S.



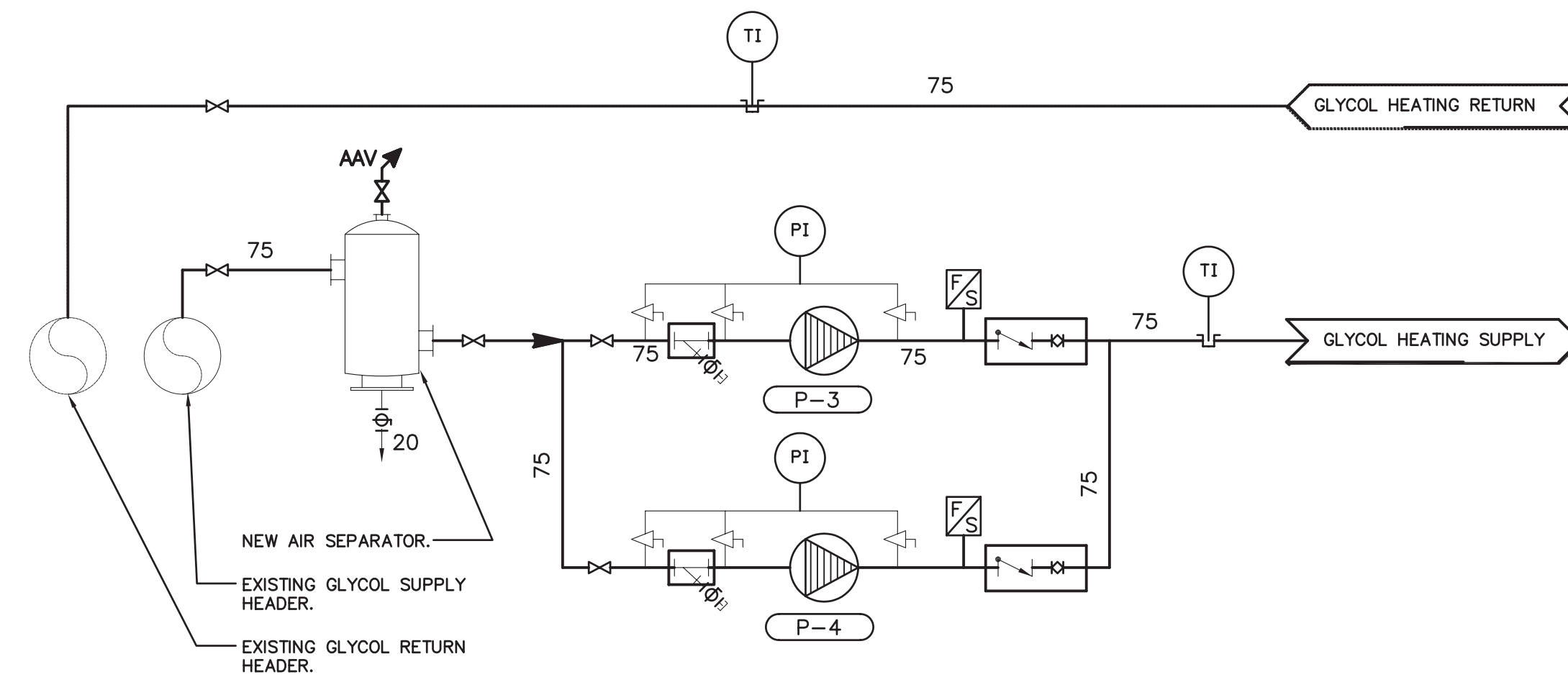
EXHAUST FAN EF-3
N.T.S.



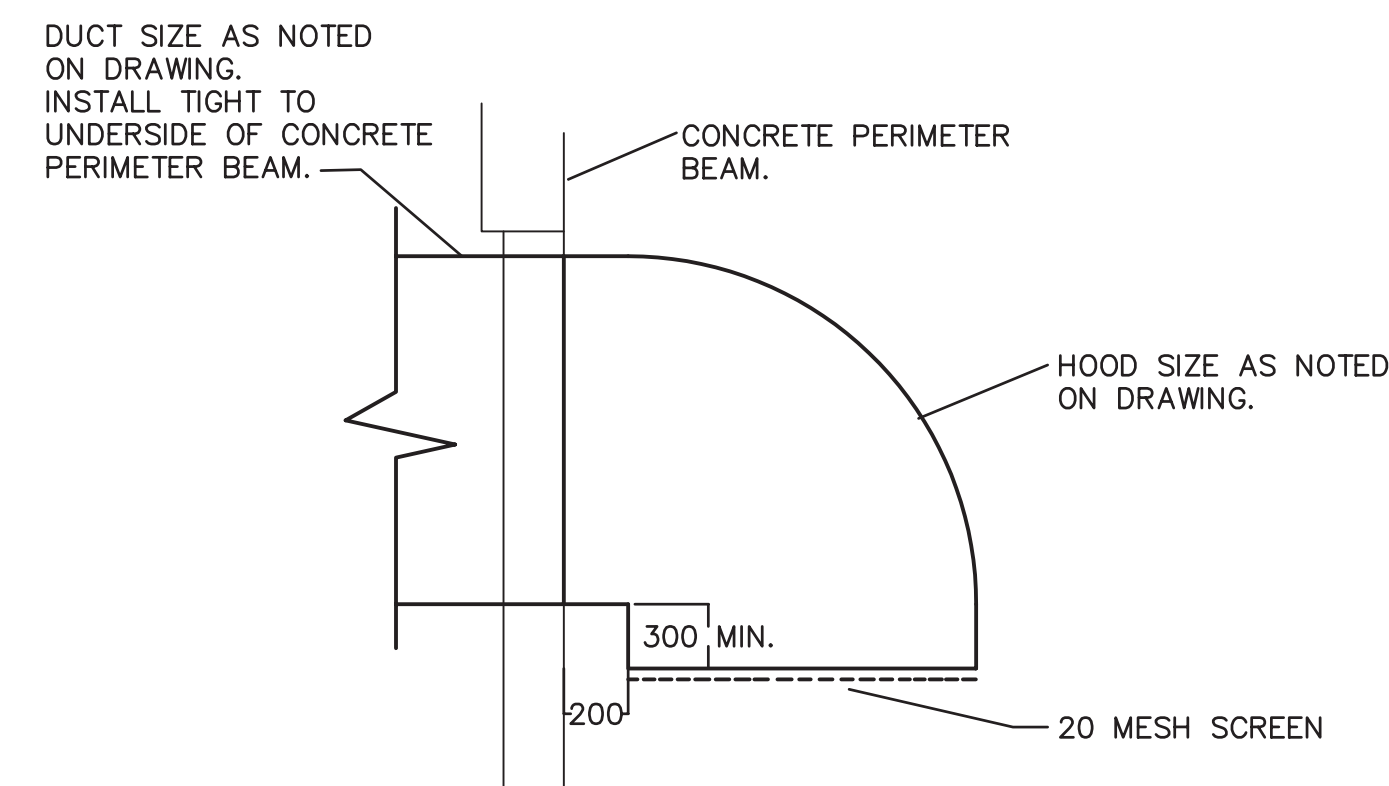
REHEAT COIL



NEW FUEL OIL DAY TANK
N.T.S.



NEW HEATING PUMPS SCHEMATIC
N.T.S.



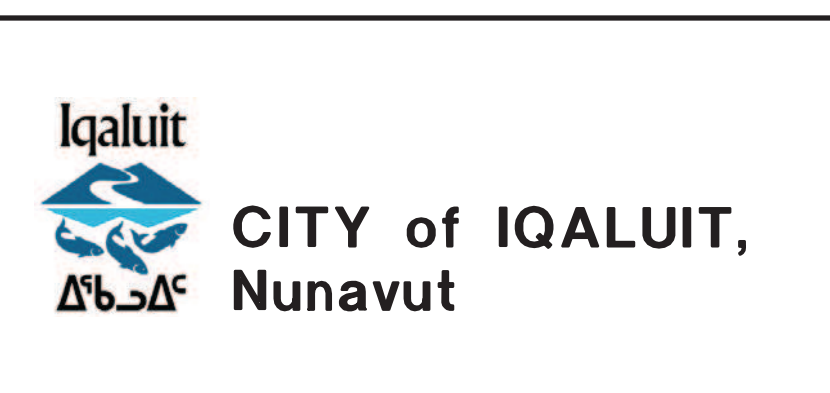
TYPICAL INLET HOOD
N.T.S.

ET:55524/Cadd File:AI-PROJ-SHT.dwg/Last Edit: 2004-04-06 (17:00)/Plot Scale: 1:1 (A1)

NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	23/04/04	IV
1	ISSUED FOR CONSTRUCTION	22/04/03	DBF
0	ISSUED FOR TENDER	19/02/03	DBF

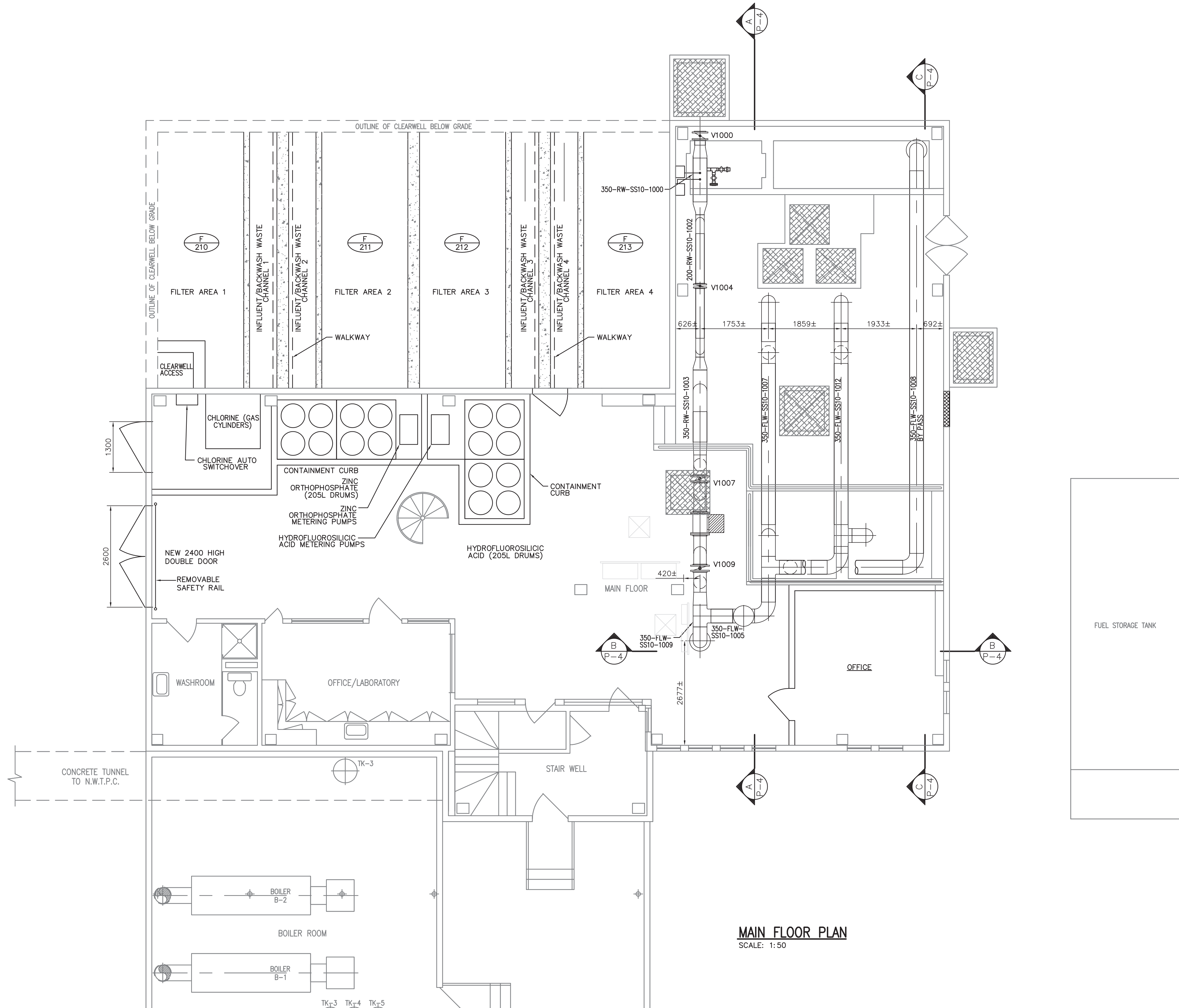
Company Permit	Engineer Seal
RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY SHENDEL MECHANICAL CONTRACTING LTD. DATE: MAY 03, 2004	

MECHANICAL
SCHEMATICS AND DETAILS



CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

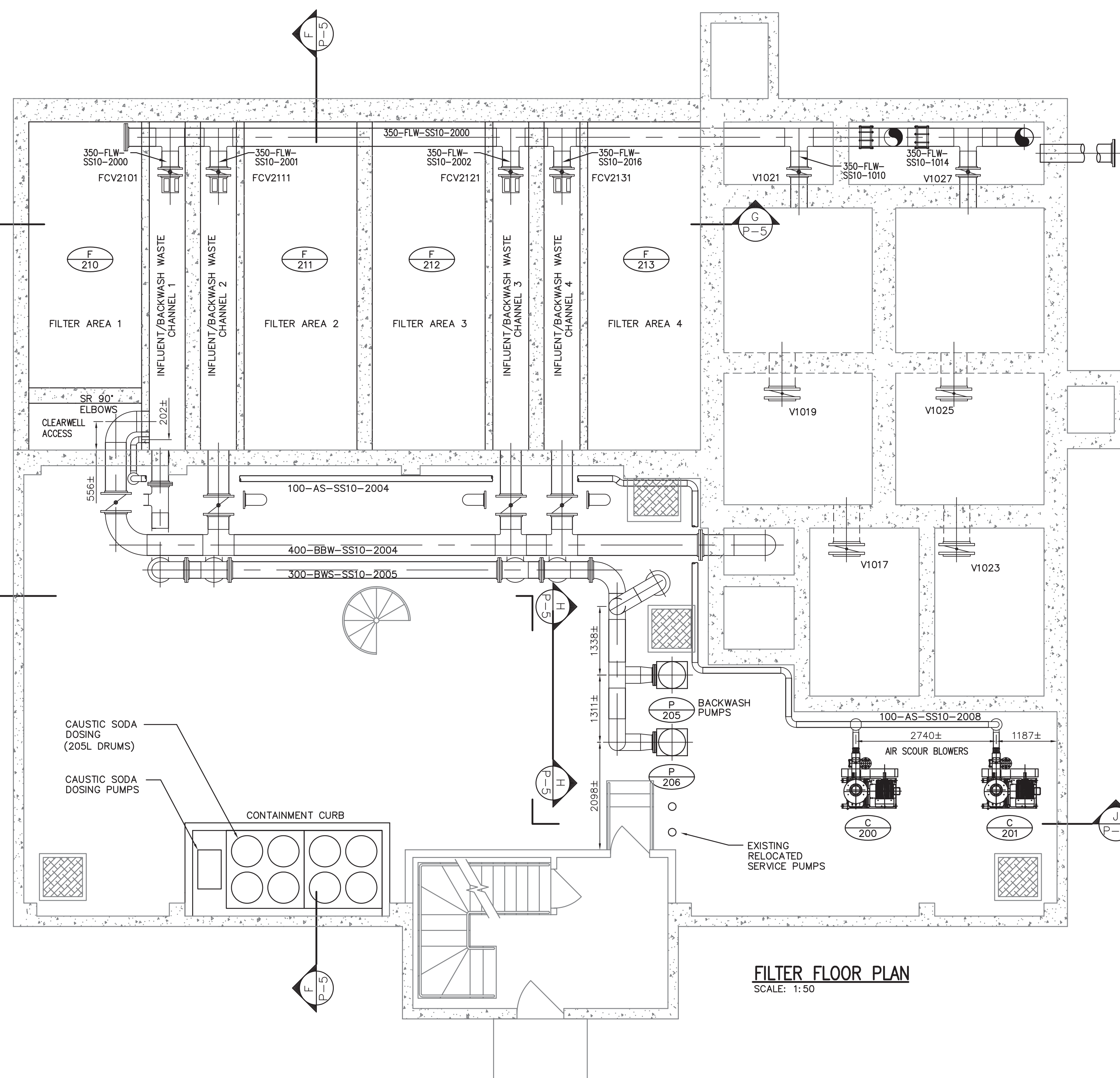
EARTH TECH Earth Tech (Canada) Inc.			
DRAWN BY: E.J.L.	SCALE: AS NOTED	DATE: FEB. 03, 2003	SHEET NO.
CHECKED BY: DBF	DWG NO. M-4	REV. 1	CONTRACT 55524



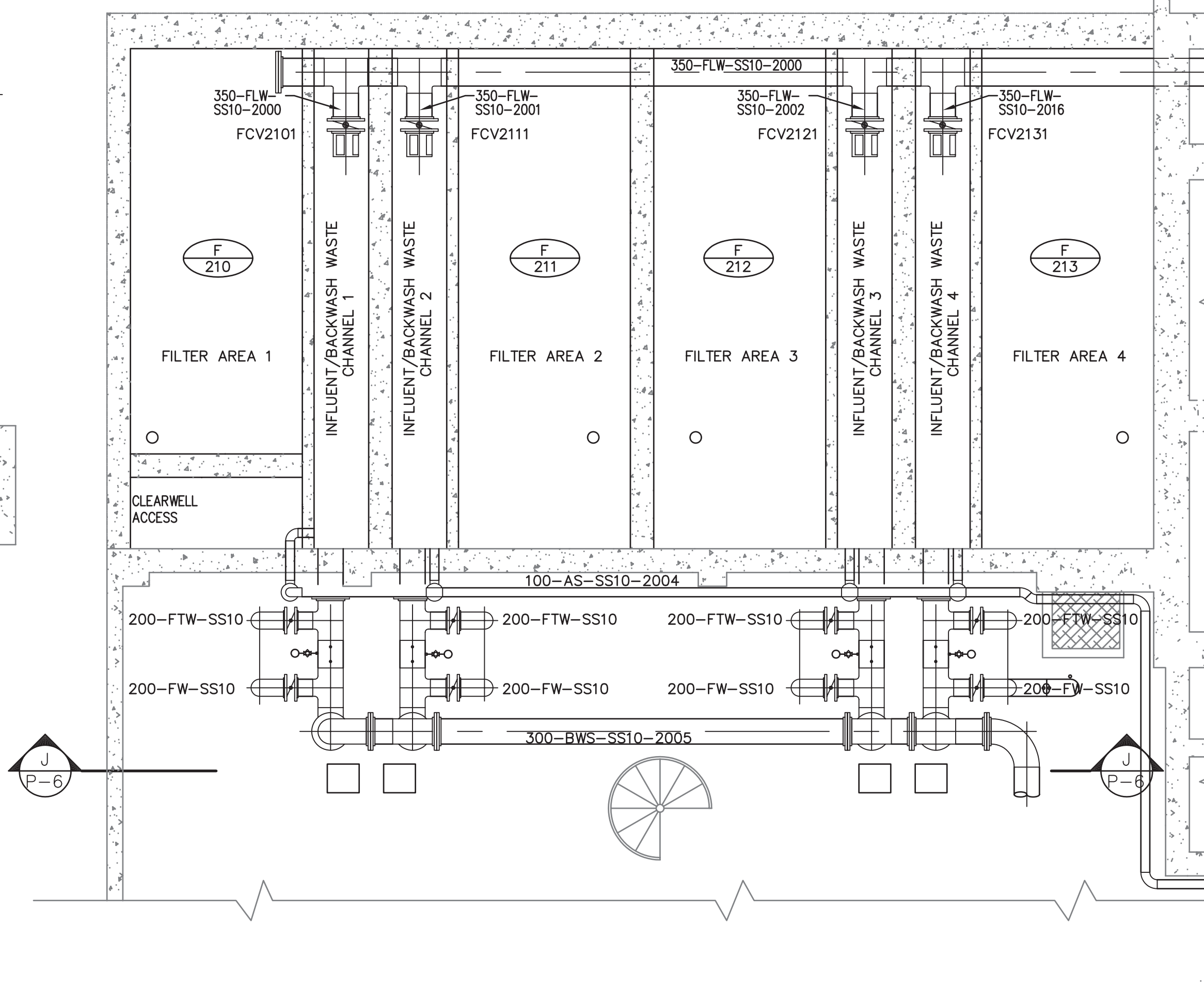
MAIN FLOOR PLAN
SCALE: 1:50

NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

				Company Permit		Engineer Seal		PROCESS		 CITY of IQALUIT, Nunavut		CITY OF IQALUIT		 E A R T H T E C H			
								UPPER FLOOR LAYOUT				IQALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.			
2	RECORD DRAWING	23/04/04	DKB	RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHENDEL MECHANICAL CONTRACTING LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.								DRAWN BY: CKW/KWM CHECKED BY: CKW		SCALE: 1:50	DATE: OCT. 2002	SHEET NO.	
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW									CADD SYSTEM AutoCAD		DWG NO. P-1	REV. 1	CONTRACT 55524	
0	ISSUED FOR TENDER	19/02/03	CKW														
NO.		REVISION		DATE		INITIAL											



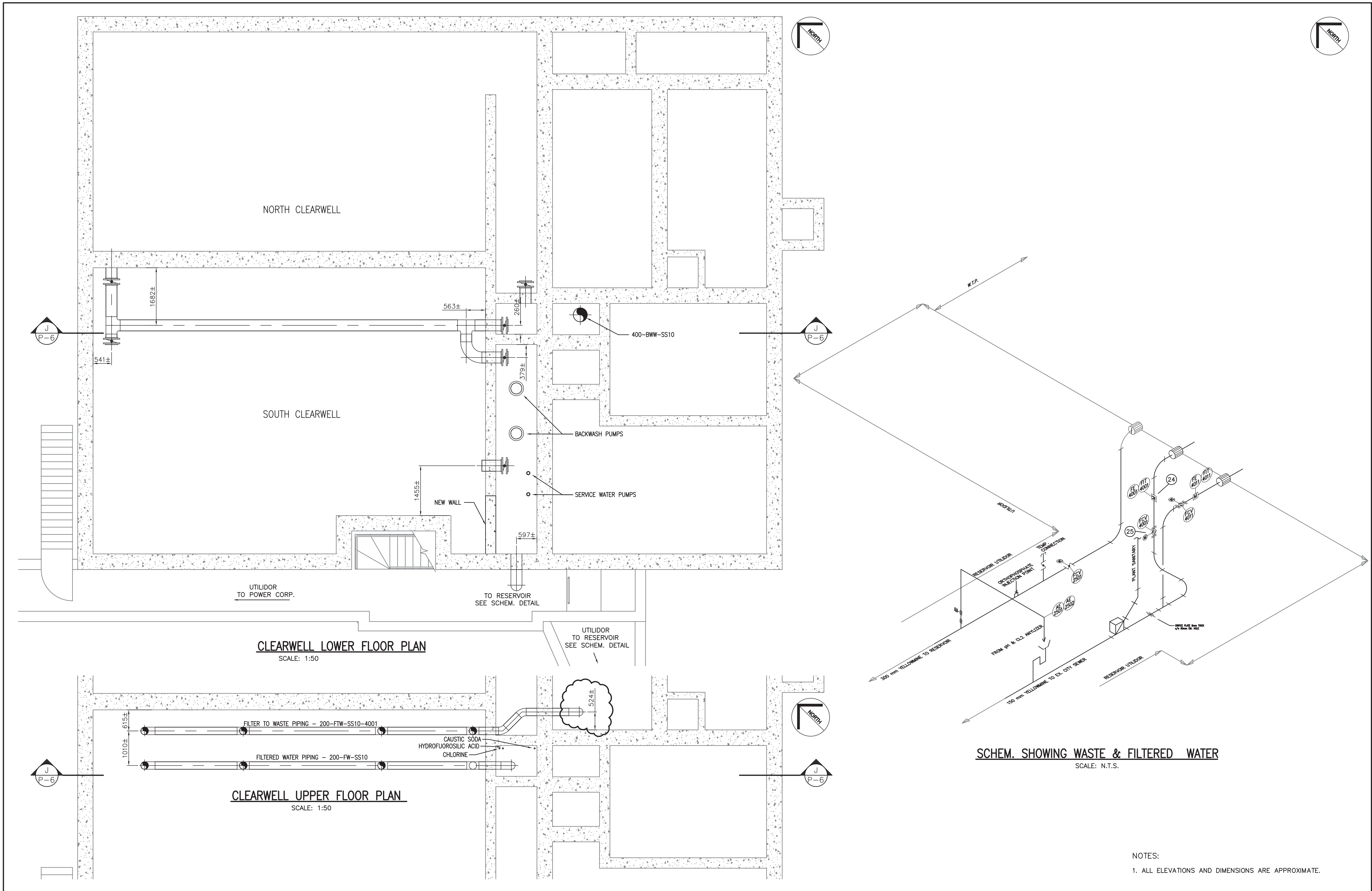
FILTER FLOOR PLAN
SCALE: 1:50



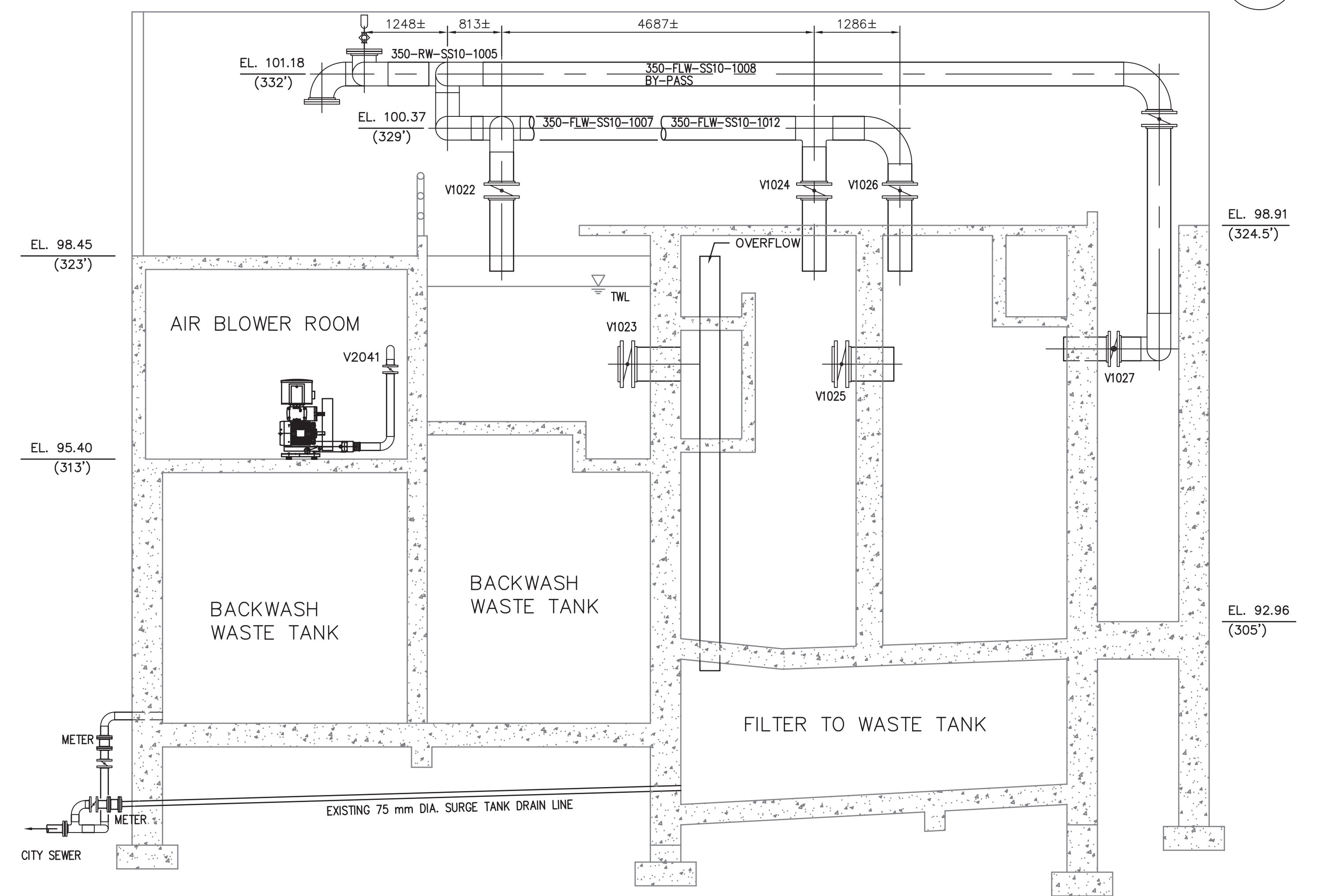
LOWER FILTER FLOOR PLAN
SCALE: 1:50

- NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

				Company Permit	Engineer Seal																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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				Company Permit		Engineer Seal		PROCESS		CITY OF IQALUIT		EARTH TECH			
								CLEARWELL LEVEL		IQALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.			
								LAYOUT				DRAWN BY: CKW/KWM			
												CHECKED BY: CKW			
												CADD SYSTEM			
												AutoCAD			
												P-3			
												REV. 1			
												CONTRACT 55524			



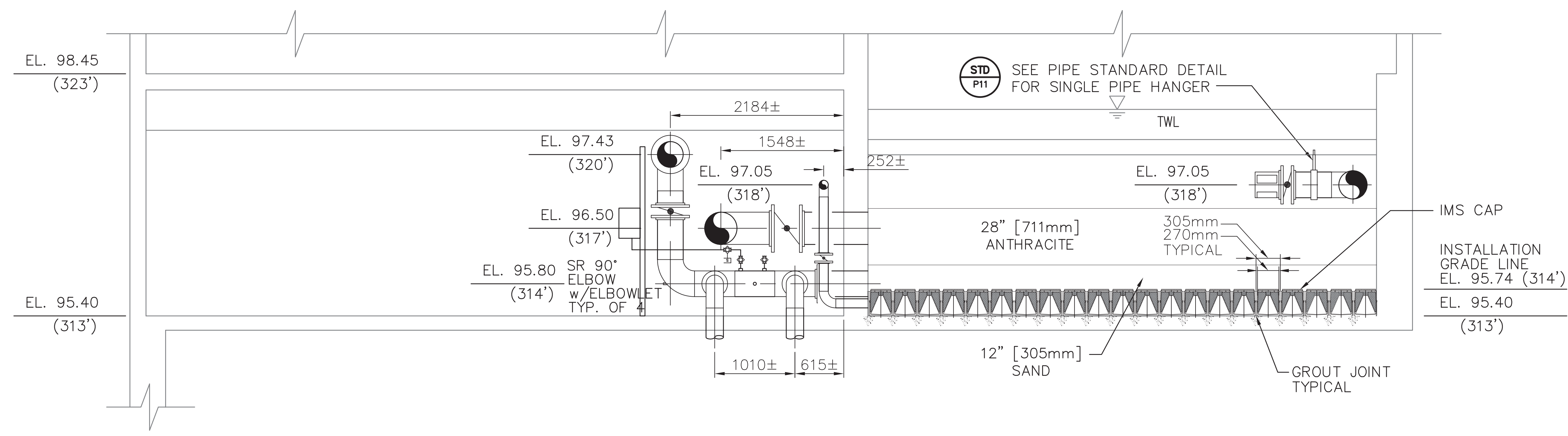
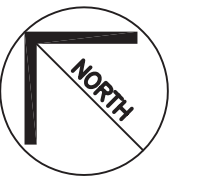
SECTION C
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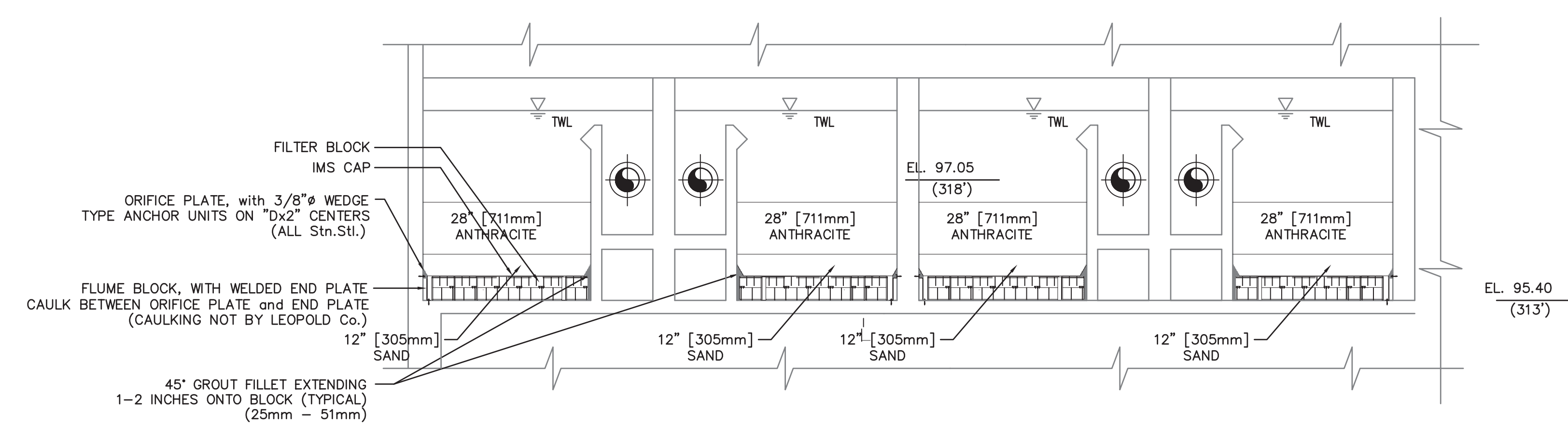
NOTES:

1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

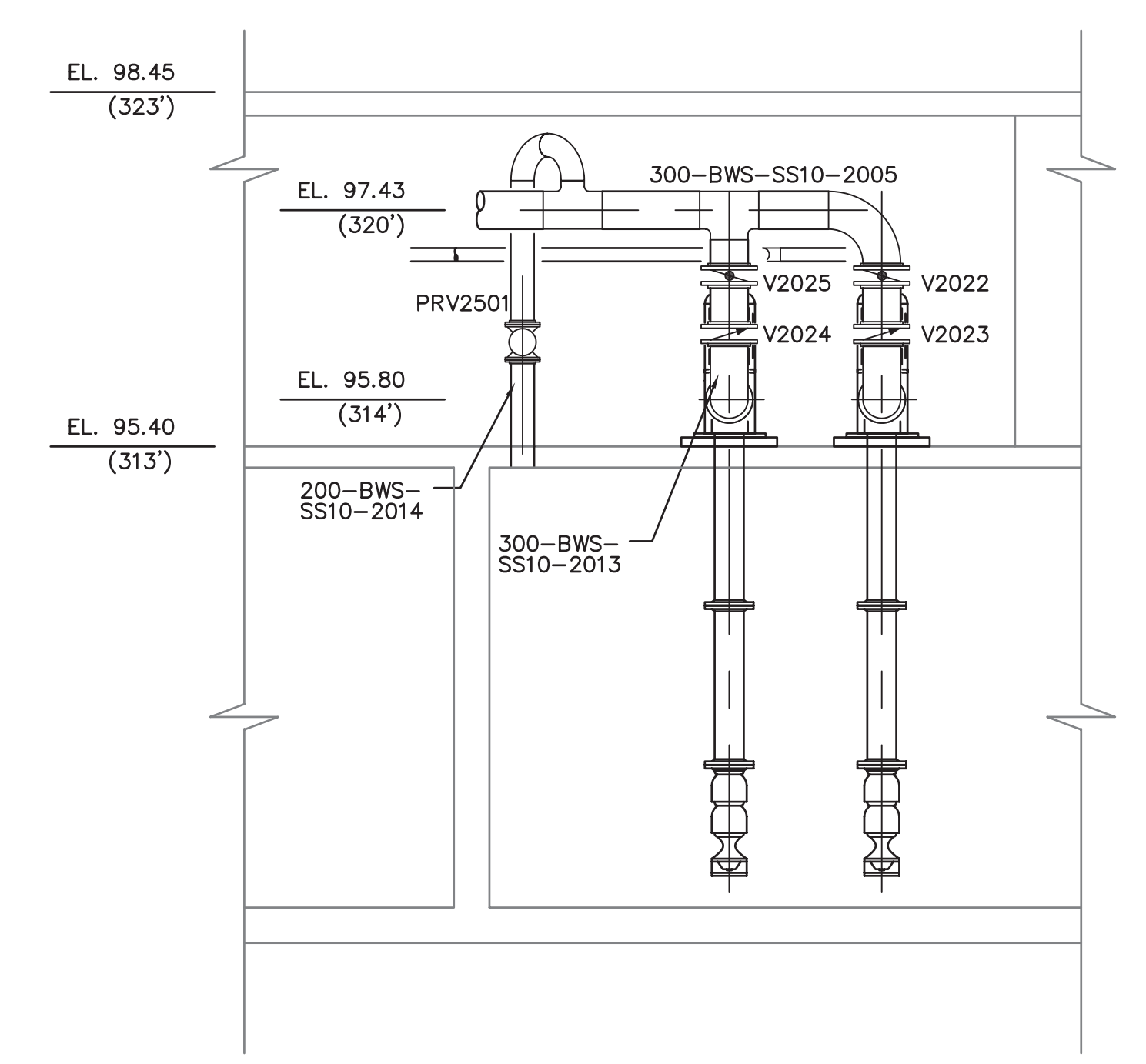
				Company Permit	Engineer Seal	PROCESS		 CITY of IQALUIT, Nunavut	CITY OF IQALUIT		 EARTH TECH					
				RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHENDEL MECHANICAL CONTRACTING LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.		UPPER FLOOR SECTIONS A,B & C			IQALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.					
2	RECORD DRAWING	23/04/04	DKB									DRAWN BY: CKW/KWM CHECKED BY: CKW		SCALE: AS NOTED	DATE: OCT. 2002	SHEET NO.
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW									CADD SYSTEM AutoCAD		DWG NO. P-4	REV. 1	CONTRACT 55524
0	ISSUED FOR TENDER	19/02/03	CKW													
NO.	REVISION	DATE	INITIAL													



SECTION F
SCALE: 1:30



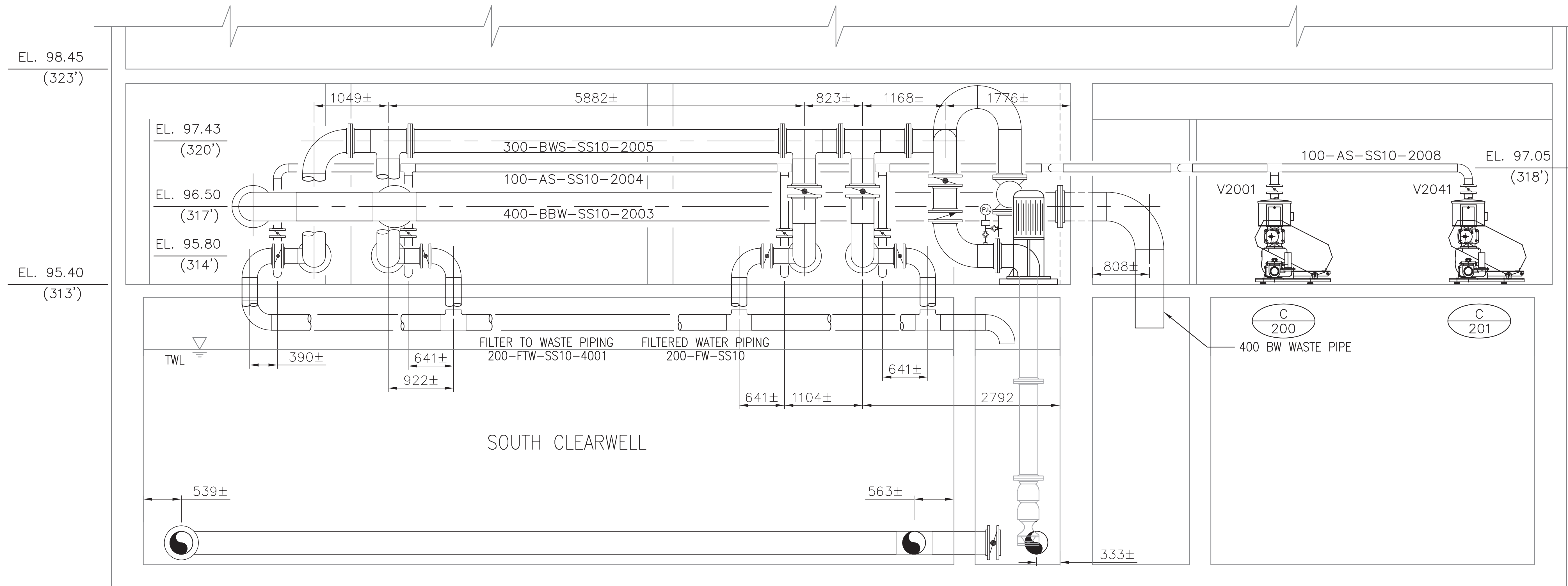
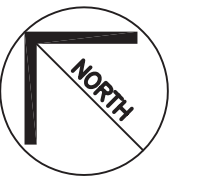
SECTION G
SCALE: 1:50



SECTION H
SCALE: 1:50

NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

Company Permit				Engineer Seal		PROCESS		CITY OF IQALUIT		EARTH TECH			
RECORD DRAWING				23/04/04		DKB		CITY of IQALUIT, Nunavut		Earth Tech (Canada) Inc.			
ISSUED FOR CONSTRUCTION				22/04/03		CKW		DRAWN BY: CKW/KWM		SCALE: AS NOTED		DATE: OCT. 2002	
ISSUED FOR TENDER				19/02/03		CKW		CHECKED BY: CKW		DWG NO. P-5		REV. 1	
NO.				REVISION		DATE		INITIAL		CADD SYSTEM AutoCAD		CONTRACT 55524	

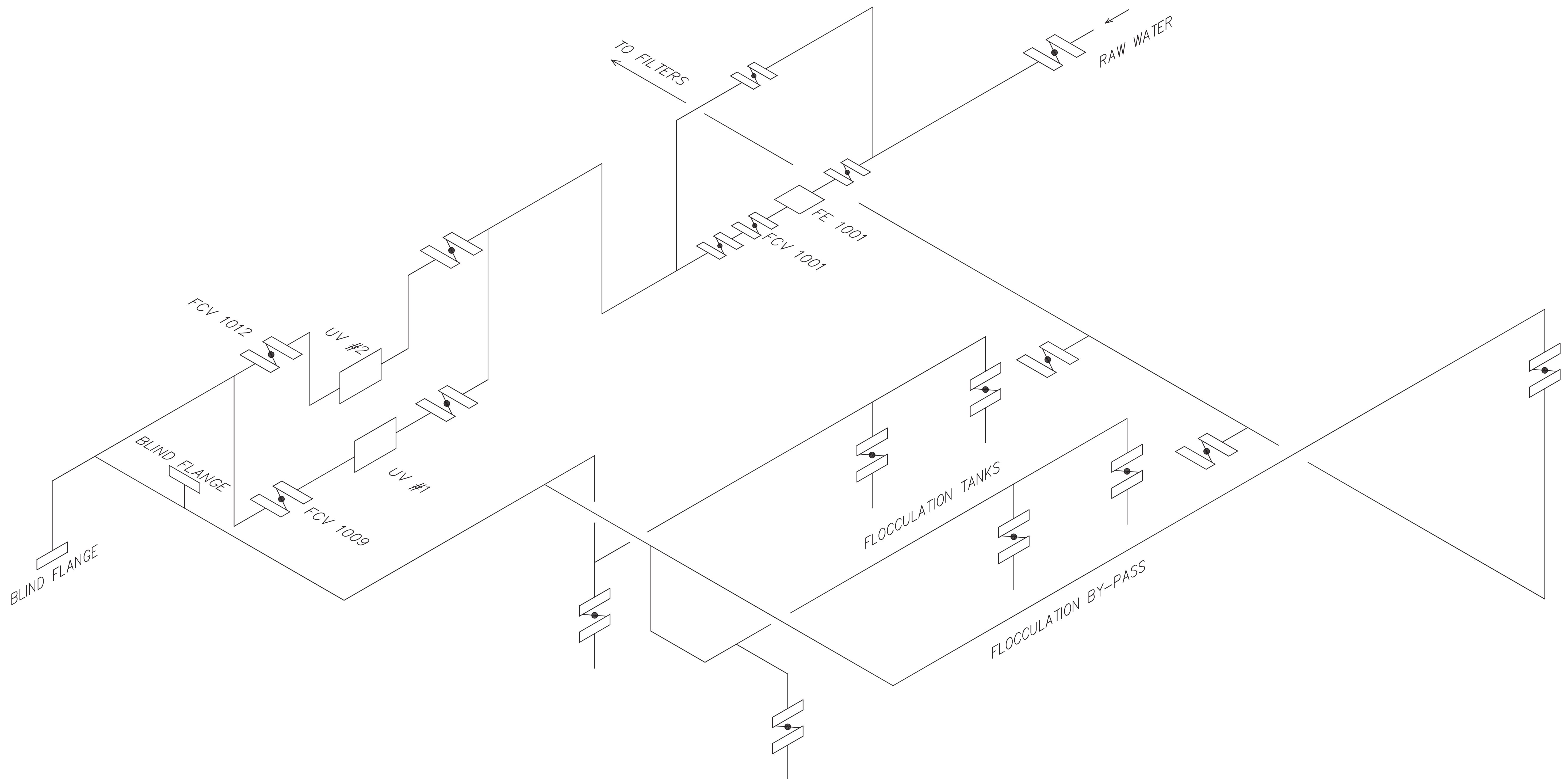


SECTION
SCALE: 1:30

J	J
P-2	P-3

NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

				Company Permit		Engineer Seal		PROCESS		CITY OF IQALUIT		EARTHTECH			
				RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: SCHENDEL MECHANICAL CONTRACTING LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.				FILTER FLOOR SECTION J		 CITY of IQALUIT, Nunavut		IQALUIT WATER TREATMENT PLANT		Earth Tech (Canada) Inc.	
DRAWN BY: CKW/KWM		SCALE: AS NOTED	DATE: OCT. 2002											SHEET NO.	
CHECKED BY: CKW															
CADD SYSTEM AutoCAD		DWG NO. P-6	REV. 1											CONTRACT 55524	
2	RECORD DRAWING	23/04/04	DKB												
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW												
0	ISSUED FOR TENDER	19/02/03	CKW												
NO.	REVISION	DATE	INITIAL												



NOTES:
1. ALL ELEVATIONS AND DIMENSIONS ARE APPROXIMATE.

2	RECORD DRAWING	23/04/04	DKB
1	ISSUED FOR CONSTRUCTION	22/04/03	CKW
0	ISSUED FOR TENDER	19/02/03	CKW
NO.	REVISION	DATE	INITIAL

Company Permit

Engineer Seal

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

PROCESS

UPPER FLOOR
PIPING SCHEMATIC



CITY of IQALUIT,
Nunavut

CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

EARTHTECH

Earth Tech (Canada) Inc.

DRAWN BY: DKB	SCALE: N.T.S.	DATE: APR. 29 2004	SHEET NO.
CADD SYSTEM: AutoCAD	DWG NO. P-7	REV. 1	CONTRACT 55524

ET:55524/Cadd File: 55524-S01.dwg/Last Edit: 2003-04-22 (17:00)/Plot Scale: 1:1 (A1)

GENERAL NOTES

- GENERAL
1. READ THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER CONTRACT DRAWINGS AND DOCUMENTS.
 2. ALL DIMENSIONS ON THE DRAWINGS ARE IN MILLIMETRES (mm), UNLESS NOTED OTHERWISE.
 3. BEFORE PROCEEDING WITH THE WORK, CHECK ALL DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER CONTRACT DRAWINGS INCLUDING THE PROCESS, PROCESS & INSTRUMENTATION, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT AND AWAIT INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.
 4. REFER TO THE PROCESS, PROCESS & INSTRUMENTATION, MECHANICAL, ELECTRICAL AND ARCHITECTURAL DRAWINGS FOR LOCATIONS AND DIMENSIONS OF PIPES, OPENINGS, SLEEVES, PITS, EQUIPMENT BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMBERS AND SLABS NOT SHOWN ON THE STRUCTURAL DRAWINGS. REPORT ANY DISCREPANCIES TO THE CONSULTANT AND AWAIT INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.
 5. CONTRACTOR TO CONFIRM WITH ALL EQUIPMENT SUPPLIERS, PIT LOCATIONS, SHAFT SIZES, OPENING SIZES, CURB SIZES, AND ALL OTHER CRITICAL DETAILS PRIOR TO CONSTRUCTION. REPORT TO THE CONSULTANT ANY DIFFERENCES BETWEEN DETAILS OR SUPPLIED EQUIPMENT COMPARED TO INFORMATION SPECIFIED AND OBTAIN APPROVAL PRIOR TO PROCEEDING.
 6. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF WORKERS AND THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS TABULATED IN THE DESIGN NOTES.
 7. MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL BUILDING CODE (NBC) AND THE SPECIFIED MATERIALS STANDARDS UNLESS OTHERWISE NOTED.

DESIGN NOTES

1. CODES, STANDARDS & REFERENCES
 1. NATIONAL BUILDING CODE OF CANADA (NBC) (LATEST EDITION).
 2. CSA CAN3-A23.3 (LATEST EDITION).
 3. CSA CAN3-S16.1 (LATEST EDITION).
 4. CSA CAN3-S157 (LATEST EDITION).
 5. CAN/CSA-086.1 (LATEST EDITION).
 6. PCA 'RECTANGULAR CONCRETE TANKS' 5th EDITION
 7. ACI 350 'ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES' (LATEST EDITION)
2. DESIGN LOADS

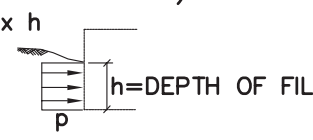
THE FOLLOWING UNIFORM SERVICE LEVEL LOADS APPLY. ADDITIONAL LOADS HAVE BEEN CONSIDERED IN LOCATIONS WHERE HEAVY BUILDING COMPONENTS SUCH AS BRICK PANELS, BLOCK WALLS, EQUIPMENT, ETC., ARE SUSPENDED FROM OR SUPPORTED ON THE STRUCTURE.

UNIFORM DEAD LOAD (BASIC) (NOT INCLUDING STRUCTURE SELF WT)	1.0 kPa
STRUCTURE SELF WEIGHT	AS PER DRAWINGS
GROUND SNOW (LIVE) LOAD	Sa 2.7 kPa
ASSOCIATED RAIN (LIVE) LOAD	Sr 0.2 kPa
BASIC SNOW LOAD COEFFICIENT (SNOW LOAD DRIFT AND SLIDING COEFFICIENTS AS PER NATIONAL BUILDING CODE SUPPLEMENT (NBCS - LATEST EDITION)	0.8
ROOF WIND COEFFICIENT	0.75
MINIMUM ROOF SNOW & RAIN(LIVE LOAD)	1.82 kPa
q30 WIND (AS PER NBC COMMENTARY)	0.55 kPa
- 2.2 FLOOR

USE AND OCCUPANCY - LIVE LOADS

GENERAL (INCL. FLOOR GRATINGS)	4.8 kN/m ²
EQUIPMENT	6.0 kN/m ² OR EQUIPMENT WEIGHT
STRUCTURE SELF WEIGHT	AS PER DRAWINGS
WATER LOAD	DEPTH OF WATER x 9.8 kN/m ³
- 2.3 TANK WALLS - LATERAL LOADS

WATER PRESSURE	9.8 x h (h=WATER DEPTH)
FILTER SAND	16.8 x h (h=DEPTH OF SAND)
FILTER COAL	3.0 x h (h=DEPTH OF COAL)
BACKFILL PRESSURE	p = 20 x h


- 2.4 SEISMIC LOAD CONSIDERATIONS

Za = 1
Zv = 0
v = 0.05

FOUNDATION NOTES

1. GENERAL

THE FOUNDATION HAS BEEN DESIGNED BASED ON KNOWLEDGE OF EXISTING SITE CONDITIONS. REFER TO PLANS.
 2. COMPACTION DENSITIES AND FILL MATERIALS (U.N.O.)

LOCATION	FILL MATERIAL	*STANDARD PROCTOR DENSITY
BENEATH STRUCTURAL SLAB-ON-GRADE	150 mm (MIN.) THICK CRUSHED OR PIT RUN GRAVEL	100%
AGAINST FOUNDATION WALLS AND GRADE BEAMS	SAND, PIT RUN GRAVEL OR CRUSHED GRAVEL FULL DEPTH EXCEPT FOR UPPERMOST 300 mm OF FILL AGAINST WALLS AND BEAMS WHICH EXTEND TO SURFACE. THIS 300 mm LAYER OF MATERIAL SHALL CONSIST OF CLAY.	97%
WITHIN UTILITY TRENCHES LOCATED BENEATH ROADWAYS, SIDEWALKS OR OTHER CONCRETE SLABS	CRUSHED GRAVEL, PIT RUN GRAVEL OR SAND.	100%
WITHIN UTILITY TRENCHES LOCATED BENEATH LANDSCAPED AREAS	CLAY, NATIVE OR IMPORTED.	97%
- * NOTE: LISTED STANDARD PROCTOR DENSITIES ARE REQUIRED FOR BOTH THE SUB-GRADE AND THE FILL MATERIAL TO BE PLACED OVER THE SUB-GRADE.

CAST-IN-PLACE CONCRETE NOTES

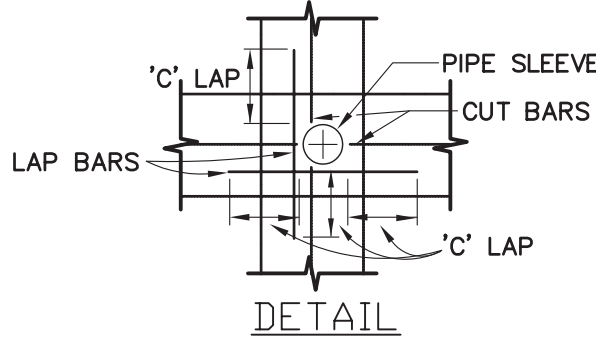
1. CONCRETE SHALL CONFORM TO CSA CAN3-A23.1-(LATEST EDITION), UNLESS NOTED OTHERWISE.
2. CONCRETE SHALL BE NORMAL WEIGHT AND MEET THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE:

CONCRETE CLASS	MINIMUM COMPRESSIVE STRENGTH @ 28 DAYS (MPa)	MAXIMUM WATER/CEMENTING MATERIALS RATIO	MINIMUM CEMENT CONTENT (kg)	NOMINAL SIZE OF COARSE AGG. (mm)	AIR CONTENT (%)	SLUMP ¹ (mm)
ALL LOCATIONS	30	0.43	280	20	5-7	70±20

¹ SLUMP PRIOR TO THE ADDITION OF ANY SUPERPLASTICIZER.
3. TYPE 50 CEMENT SHALL BE USED FOR ALL CONCRETE.
4. CALCIUM CHLORIDE IN ANY FORM IS NOT PERMITTED IN ANY CONCRETE.

REINFORCING STEEL NOTES

1. ALL REINFORCING BARS SHALL CONFORM TO CSA G30.18-M92, GRADE 400. WELDING OF REINFORCING BARS TO CONFORM TO CSA STANDARD W186-(LATEST EDITION). WELDING OF REINFORCING BARS IN REINFORCED CONCRETE CONSTRUCTION". NOTIFY CONSULTANT IF WELDING OF REINFORCING IS REQUIRED AND RECEIVE APPROVAL PRIOR TO PROCEEDING.
2. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CAN/CSA3-A23.1- LATEST EDITION.
3. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL OR THE REINFORCING STEEL INSTITUTE OF CANADA DETAILING MANUAL.
4. MECHANICAL COUPLERS ARE PERMITTED IF REQUIRED AND WHERE SPECIFIED. SUBMIT PROPOSED COUPLER TYPE TO CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO USE. COUPLERS SHALL BE CAPABLE OF DEVELOPING 125% OF THE SPECIFIED YIELD CAPACITY OF THE BARS BEING COUPLED.
5. 90° HOOKS AND 180° HOOKS WHERE SHOWN SHALL BE DETAILED AS STANDARD HOOKS UNLESS NOTED OTHERWISE.
6. WHERE REINFORCEMENT LAPS ARE REQUIRED IN ADJACENT BARS, STAGGER LAPS MINIMUM 1200 UNLESS NOTED OTHERWISE.
7. REINFORCEMENT THAT IS IN CONFLICT WITH PIPE SLEEVE LOCATIONS, OPENINGS, ETC. SHALL BE CUT AND SUPPLEMENTED WITH CLASS 'C' LAP BARS OF SAME SIZE ADJACENT TO THE CUT BAR AS INDICATED IN THE FOLLOWING DETAIL:



SITE CAST-IN-PLACE REINFORCED CONCRETE WORK

1. REINFORCED CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF CAN/CSA-A23.1-LATEST EDITION, CAN/CSA-A23.2-LATEST EDITION, CAN/CSA-A23.3-LATEST EDITION. THE CONTRACTOR SHALL HAVE COPIES OF THESE STANDARDS ON SITE AT ALL TIMES FOR REFERENCE.
2. CONCRETE COVER TO REINFORCING STEEL SHALL CONFORM TO THE MOST STRINGENT REQUIREMENT LISTED BELOW, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH OR ROCK	75 mm
CONCRETE CAST IN FORMS BUT EXPOSED TO EARTH, WEATHER, OR CONTAINED WATER	50 mm
CONCRETE NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH GROUND OR CONTAINED WATER	
WALLS	40 mm
SLABS	40 mm
BEAMS - TO STIRRUPS	40 mm
COLUMNS - TO TIES	40 mm
3. UNLESS NOTED OTHERWISE, REINFORCING BAR LAPS SHALL BE CLASS C TENSION SPLICES
4. DOWELS AND ANCHOR BOLTS SHALL BE SECURED IN POSITION BY MEANS OF TEMPLATES BEFORE CONCRETE IS PLACED.
5. REINFORCING STEEL IN SLABS AND BEAMS SHALL BE ADEQUATELY SUPPORTED TO ENSURE THAT IT REMAINS IN POSITION DURING CONCRETE PLACEMENT. REINFORCING STEEL SHALL NOT BE LIFTED INTO POSITION DURING CASTING.
6. CONTRACTOR SHALL SUBMIT TO THE CONSULTANT FOR APPROVAL WELL IN ADVANCE OF CONCRETE PLACEMENT DATE, THE LOCATIONS AND DETAILS OF ALL CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS.
7. CONTRACTOR SHALL SUBMIT TO THE CONSULTANT FOR APPROVAL WELL IN ADVANCE OF CONCRETE PLACEMENT DATE, THE LOCATIONS OF ALL SLEEVES AND OPENINGS NOT SHOWN ON THE DRAWINGS. REVIEW ALL DRAWINGS FOR DETAILS OF FIXTURES, INSERTS, ETC., WHICH ARE REQUIRED TO BE CAST INTO CONCRETE ELEMENTS. THE CONSULTANT WILL PROVIDE STRUCTURAL DETAILS AS REQUIRED FOR SLEEVES AND OPENINGS.
8. PROVIDE RECESSES IN THE TOP OF FOUNDATION WALLS AND GRADE BEAMS AT ALL DOOR OPENINGS, TO ALLOW SLAB-ON-GRADE TO CONTINUE OVER.
9. REVIEW ALL DRAWINGS FOR FLOOR RECESS AND SLOPE REQUIREMENTS FOR CONCRETE SLABS AND COORDINATE AND PERFORM THIS WORK.
10. TOOLED OR SAW CUT CONTROL JOINTS IN SLAB-ON-GRADE CONSTRUCTION TO BE AS PER CSA CAN3-A23.1. LOCATIONS AS PER DRAWINGS EXCEPT THAT WHEN LOCATIONS ARE NOT INDICATED, JOINTS SHALL BE SPACED AT 4500 mm ON CENTRE MAXIMUM. OBTAIN CONSULTANT'S APPROVAL OF LOCATIONS PRIOR TO PROCEEDING. FILL ALL JOINTS WITH DUXFLEX 2 SEALANT BY STERNSON.
11. UNLESS INDICATED OTHERWISE, ALL SLABS-ON-GRADE SHALL BE 125 mm THICK PLACED ON AN APPROVED COMPACTED PIT RUN GRANULAR MATERIAL 150 mm MINIMUM THICKNESS. COMPACTION OF GRANULAR MATERIAL TO EQUAL 100% STANDARD PROCTOR DENSITY EXCEPT WHERE INDICATED OTHERWISE. REINFORCE WITH 10M AT 300 O.C. EACH WAY, CHAIR REINFORCEMENT TO ENSURE IT IS LOCATED IN TOP ONE THIRD THICKNESS OF SLAB.
12. REFER TO SITE DRAWINGS FOR EXACT SIZE, EXTENT, AND LOCATIONS OF EXTERIOR WALKS AND PADS.
13. PROVIDE 20 CHAMFER AT CORNERS/EDGES OF ALL WALLS, SLABS & BEAMS UNLESS NOTED OTHERWISE.
14. SPECIFIED DRILLED & EPOXIED DOWEL LOCATIONS/SPACING MAY BE SLIGHTLY MODIFIED IN ORDER TO AVOID HITTING OR DAMAGING EXISTING REINFORCEMENT. CONTRACTOR TO USE REBAR LOCATING DEVICE TO AVOID CONFLICTS. REVIEW ALL CONFLICTS WITH ENGINEER AND RELOCATE CONFLICTING DOWELS TO AN APPROVED POSITION.
15. DOWEL EPOXY: HILTI HIT HY150 INJECTION ADHESIVE OR CONSULTANT APPROVED ALTERNATE.

STRUCTURAL STEEL NOTES

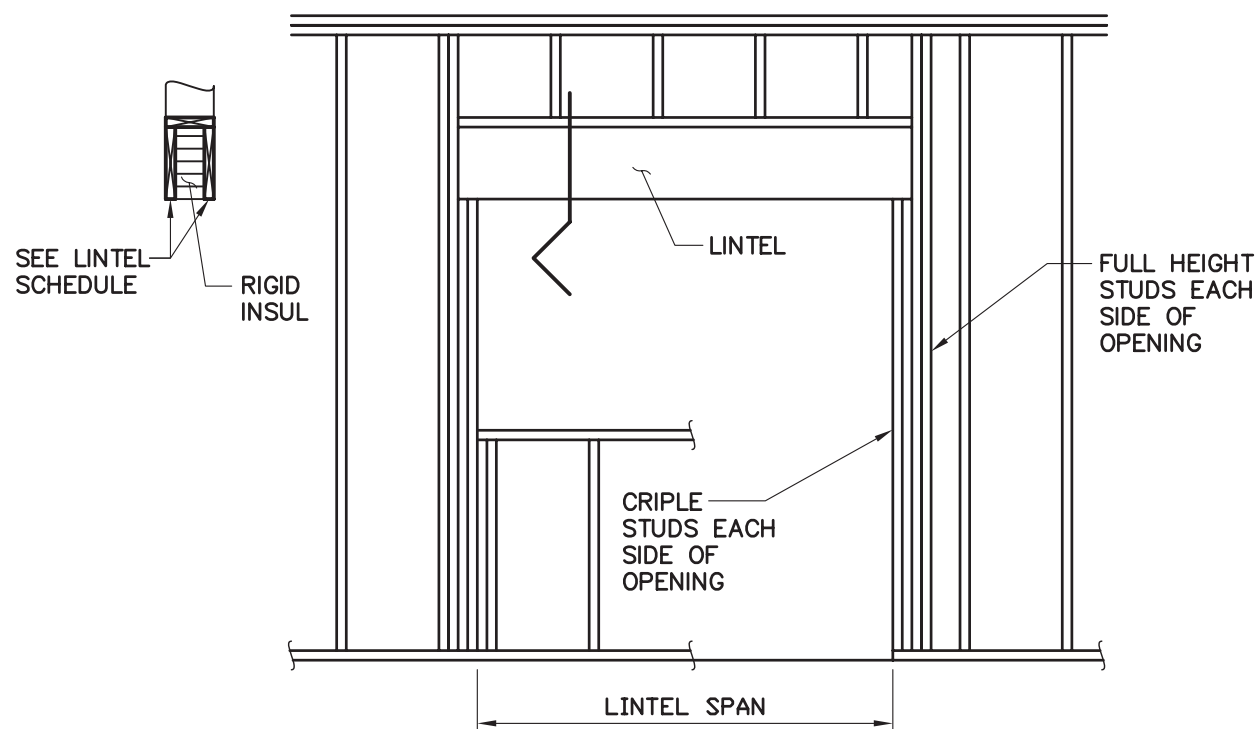
1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA CAN3-S16.1-(LATEST EDITION) AND THE CISC CODE OF STANDARD PRACTICE FOR BUILDINGS (LATEST EDITION) UNLESS NOTED OTHERWISE.
 2. MATERIAL REQUIREMENTS
 - A) STRUCTURAL SHAPES AND PLATE (EXCLUDING HSS): IN ACCORDANCE WITH CAN/CSA G40.20-(LATEST EDITION) AND CAN/CSA G40.21-(LATEST EDITION), GRADE 300W.
 - B) HSS SECTIONS: IN ACCORDANCE WITH CAN/CSA G40.20-(LATEST EDITION) AND CAN/CSA G40.21-(LATEST EDITION), 350W.
 - C) ROUND PIPE SECTIONS: IN ACCORDANCE WITH ASTM STANDARD A53, MIN. YIELD STR. 240 MPa.
 - D) ANCHOR BOLTS: THREADED ROD: GRADE 300W.
 - E) ALL OTHER BOLTS: IN ACCORDANCE WITH ASTM A325 OR A325M.
 - F) SHEAR STUD CONNECTORS: TO CSA W59-(LATEST EDITION).
 - G) HOT DIP GALVANIZING: TO CSA G164-(LATEST EDITION).
 - H) SHOP PAINT PROTECTIVE COATINGS - ALL EXTERIOR STRUCTURAL STEEL TO BE GALVANIZED U.N.O. - REFER TO SPECIFICATIONS.
 - I) SHOP EPOXY PRIMER (FIRST COAT) AND FIELD TOUCH-UP PRIMER: IN ACCORDANCE WITH CGSB 1-GP-153.
 3. ALL WELDING SHALL BE DONE WITH E480xx ELECTRODES AND SHALL CONFORM TO CSA W59-(LATEST EDITION). ALL WELDING TO BE PERFORMED BY CERTIFIED COMPANY APPROVED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF CSA W47.1-(LATEST EDITION).
 4. ALL GROUT UNDER BEARING PLATES AND BASEPLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 40 MPa, INSTALLED IN ACCORDANCE WITH SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
 5. CONNECTIONS, IF NOT SPECIFICALLY DETAILED, SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH CSA CAN3-S16.1-(LATEST EDITION) TO RESIST FORCES, MOMENTS AND SHEARS INDICATED ON DRAWINGS; ALTERNATIVELY WHERE THIS INFORMATION IS NOT GIVEN DESIGN CONNECTIONS TO RESIST THE SPECIFIED DEAD LOAD OF ALL MATERIALS AND THE SPECIFIED LIVE LOADS. ALL CONNECTION DESIGN AND DETAILING TO BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE PROVINCE OF ALBERTA.
 6. CONNECTIONS TO SIDE FACES OF HSS MEMBERS SHALL BE REINFORCED AS REQUIRED AND SHALL BE DESIGNED FOLLOWING GUIDELINES SET OUT IN THE STELCO PUBLICATION "HOLLOW STRUCTURAL SECTIONS - DESIGN MANUAL FOR CONNECTIONS" OR FOLLOWING OTHER SOUND ENGINEERING PRINCIPLES.
 7. PROVIDE BOLT HOLES IN STRUCTURAL STEEL WHERE SHOWN AND WHERE REQUIRED FOR THE ATTACHMENT OF BOLTED BLOCKING OR FASTENINGS BY OTHER TRADES.
 8. PROVIDE STIFFENER/BEARING PLATES ON BOTH SIDES OF W-SHAPE AND ON ONE SIDE OF C-SHAPE BEAMS AT ALL LOCATIONS WHERE CONCENTRATED LOADS OCCUR AND AT BEARING SUPPORTS. UNLESS INDICATED OTHERWISE, EACH STIFFENER SHALL EQUAL HALF THE BEAM WIDTH, BE FULL HEIGHT BETWEEN FLANGES, AND HAVE A MINIMUM THICKNESS OF 8 mm BUT SHALL NOT BE THINNER THAN THE WEB OF THE BEAM.
 9. PROVIDE CLOSURE PLATES AT ALL OPEN ENDS OF ALL HSS MEMBERS. PLATE THICKNESS TO EQUAL WALL THICKNESS OF HSS MEMBER UNLESS NOTED OTHERWISE.
 10. FRAME ALL OPENINGS IN ROOF AND FLOOR SYSTEMS, ROUND AND RECTANGULAR, THAT ARE LARGER IN AREA THAN A 400 mm DIAMETER HOLE. COORDINATE WITH MECHANICAL DRAWINGS, ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS AND PROVIDE FRAMES IN ALL SUCH LOCATIONS. IF FRAMES ARE NOT SPECIFICALLY DETAILED, DESIGN FRAMES TO SUPPORT SPECIFIED LOADS INCLUDING EQUIPMENT WHERE APPLICABLE.
 11. SHOP DRAWINGS SHALL BE SUBMITTED FOR CONSULTANT REVIEW PRIOR TO ANY FABRICATION.
 12. THE STRUCTURAL STEEL FRAMING IS BRACED FOR PERMANENT LATERAL STABILITY. ROOF DECKS ARE DESIGNED TO ACT AS HORIZONTAL DIAPHRAGMS TO CARRY LATERAL LOADS TO STRUCTURAL BRACING SYSTEMS. PROVIDE TEMPORARY BRACING AS REQUIRED DURING CONSTRUCTION. ERECTION BRACING TO BE REMOVED ONLY AFTER ROOF DECK, FLOOR DECK AND ALL PERMANENT STRUCTURAL FRAMING IS IN PLACE.
- ALL PERIMETER DECK ANGLES ARE REQUIRED TO BE CONTINUOUS TO FUNCTION AS PART OF THE DIAPHRAGM. ANGLE CONTINUITY SHALL BE MAINTAINED BY APPROVED SPLICES. SPLICES TO BE LOCATED AT SUPPORT POINTS ONLY.
13. CLEAN ALL STEEL PRIOR TO PAINTING TO SSPC SURFACE PREPARATION SPECIFICATION NO. 7 "BRUSH-OFF BLAST CLEANING" EXCEPT STRUCTURAL STEEL MEMBERS WHICH ARE EXPOSED IN THE COMPLETED STRUCTURE IN WHICH CASE CLEANING SHALL CONFORM TO SSPC SURFACE PREPARATION SPECIFICATION NO. 6 "COMMERCIAL BLAST CLEANING".
 14. FIELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL SHALL NOT BE ALLOWED WITHOUT PRIOR REVIEW AND APPROVAL BY CONSULTANT.
 15. AT THE COMPLETION OF ERECTION, ALL FIELD JOINTS, BOLTS, WELDS, BURNED AND ABRASED SURFACES SHALL BE THOROUGHLY CLEANED AND PAINTED WITH SPECIFIED PRIME AND FINISH COATS. IN THE CASE OF GALVANIZED SURFACES, APPLY MULTIPLE COATS OF ORGANIC ZINC RICH PAINT (DOD-P-21035) TO FORM A DRY FILM THICKNESS OF .8 MILS (IN ACCORDANCE WITH ASTM-A780).
 16. APPLY TWO COATS OF AN APPROVED ASPHALTIC BASED PAINT TO ALL STEEL EXPOSED TO SOIL.

TIMBER NOTES

1. GENERAL
 1. TIMBER CONSTRUCTION SHALL CONFORM TO CAN/CSA 086.1 (LATEST) UNLESS NOTED OTHERWISE
 2. WOOD FRAMING MATERIAL (UNLESS SPECIFIED OTHERWISE) :
 1. INTELS, BUILT-UP BEAMS : S-P-F NO. 1/NO. 2
 2. WALL STUDS : KILN DRIED S-P-F NO. 1/NO. 2 (S-DRY)
 3. JOISTS : PREFABRICATED WOOD I-JOISTS TO DEPTHS AND/OR CAPACITIES SHOWN ON PLANS. REFER ALSO TO SPECIFICATIONS.
 4. STRUCTURAL COMPOSITE LUMBER BEAMS & COLUMNS: PROPRIETARY MANUFACTURED MEMBERS TO SIZES AS NOTED ON DRAWINGS.
 5. PLYWOOD : CAN/CSA 0121 DOUGLAS FIR PLYWOOD
CAN/CSA 0151 CANADIAN SOFTWOOD PLYWOOD
CAN/CSA 0325.0 CONSTRUCTION SHEATHING
CAN/CSA 0437.0 WAFFERBOARD & STRANDBOARD
 6. EXTERIOR SHEATHING TO BE PLYWOOD NOT O.S.B.
 3. ALL LUMBER IN DIRECT CONTACT WITH MASONRY, CONCRETE, SOIL OR MOISTURE SHALL BE TREATED. REFER TO SPECIFICATIONS.
 4. PLYWOOD FOR WALLS AND ROOF TO BE AS NOTED ON DRAWINGS.
PLYWOOD FASTENING REQUIREMENTS (U.N.O.)
- WALL & ROOF SHEATHING:
o PANEL EDGES 150mm o.c. (U.N.O.)
o INTERMEDIATE FRAMING MEMBERS 300mm o.c.
USE 65mm NAILS U.N.O.
 5. ALL TIMBER BEAM CONNECTIONS MAY BE STANDARD EXPOSED CONNECTIONS WITH SIDE PLATES OR SHOES AND NO COUNTER SUNK BOLTS
 6. PROVIDE TJI PURPOSE MADE X-BRACING o SUPPORT LINES BETWEEN ALL JOISTS AND ADDITIONALLY AT MANUFACTURER'S RECOMMENDED SPACING ALONG SPAN LENGTH
 7. PROVIDE INTELS OVER ALL OPENINGS OR RECESSES IN TIMBER WALLS, INCLUDING THOSE FOR MECHANICAL OR ELECTRICAL SERVICES AND EQUIPMENT.
- PROVIDE INTELS AS FOLLOWS, UNLESS NOTED OTHERWISE:

INTEL* (mm)	SPAN (mm)	CRIPLE STUDS EACH SIDE	FULL HEIGHT STUDS EACH SIDE
2 o 38x184	0 - 1200	1	1
2 o 38x286	1201 - 1800	1	2
3 o 38x286	1801 - 2400	2	2
4 o 38x286	2401 - 3000	2	3

* FILL INTEL THICKNESS WITH RIGID INSULATION TO MAKE UP TOTAL THICKNESS OF WALL

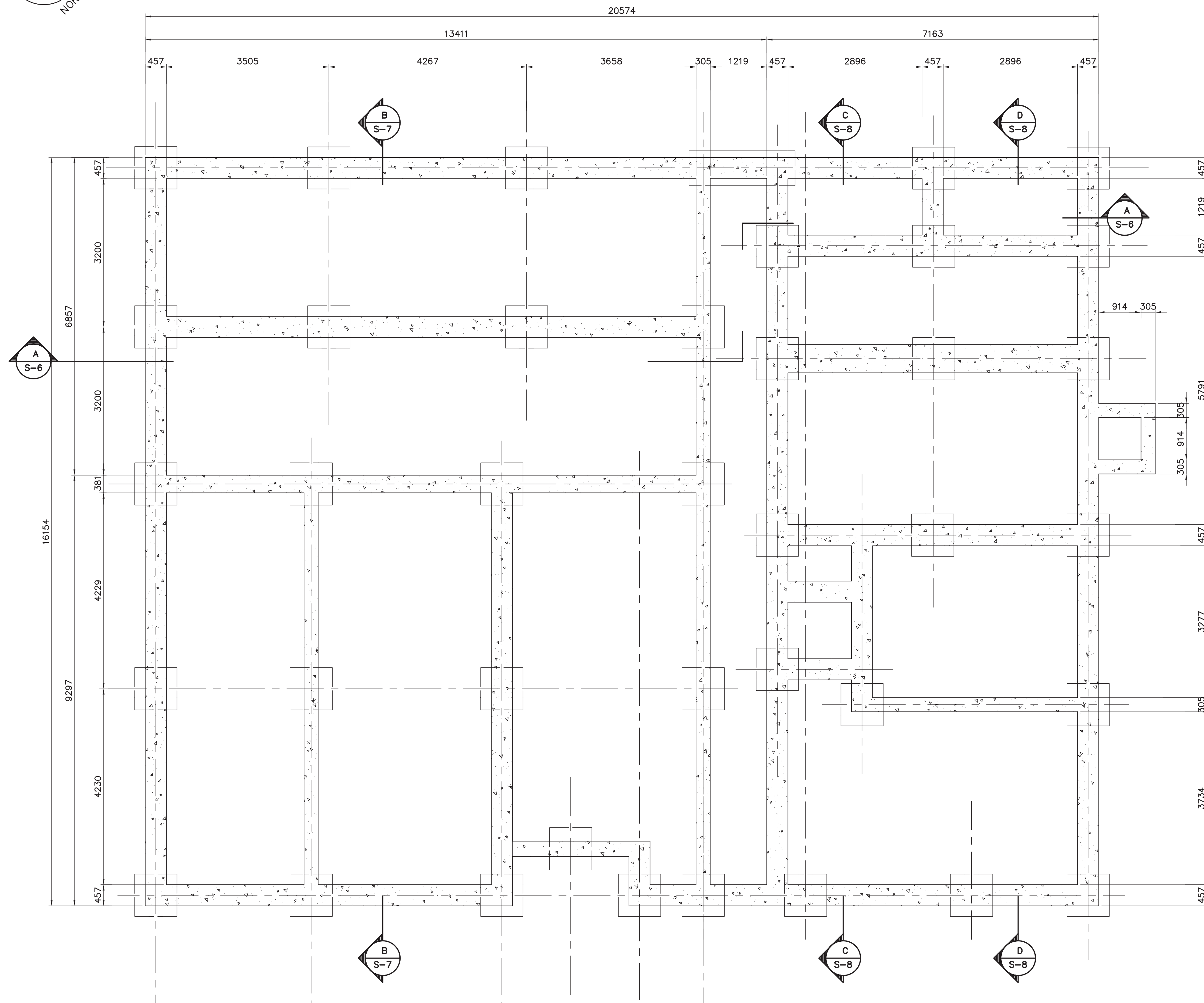
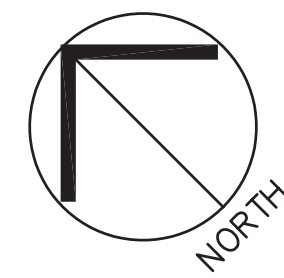


FILTER TANK FLOOR POST-TENSIONING NOTES

1. PROCEDURE:
 - 1.1 ALL NEW CONCRETE WALL CONSTRUCTION AND FLOOR TOPPING CONCRETE SHALL BE COMPLETE AND CURED TO AT LEAST 80% f_c PRIOR TO PROCEEDING WITH THREADBAR STRESSING.
 - 1.2 EACH 25mm DIAMETER THREADBAR SHALL BE STRESSED WITH A HYDRAULIC JACK TO PROVIDE A 250kN FORCE AFTER ALL SEATING LOSSES.
 - DO NOT OVERSTRESS ANCHORS
 - 1.3 STRESSING SHALL OCCUR IN THE SEQUENCE INDICATED ON THE PLAN, OR WHERE NOT INDICATED IN AN ENGINEER PRE-APPROVED SEQUENCE.
 - 1.4 A CERTIFIED CALIBRATION CURVE SHALL ACCOMPANY EACH HYDRAULIC JACK USED, SHOWING THE RELATIONSHIP BETWEEN GAUGE READINGS AND STRESS IN THE BAR. LOSSES IN STRESS DUE TO ANCHOR SET, STEEL RELAXATION, PLASTIC FLOW, ETC. SHALL BE CONSIDERED. SUBMIT ALL TO ENGINEER IN ADVANCE OF STRESSING OPERATIONS.
 - 1.5 STRESS IN THE THREADBARS SHALL BE MEASURED BY MEANS OF BAR EXTENSION AND SHALL BE CHECKED CONTINUOUSLY BY MEANS OF THE JACK GAUGE. WHEN DISCREPANCIES BETWEEN EXTENSION AND GAUGE PRESSURE EXCEEDS 8% STRESSING SHALL STOP AND NOT PROCEED AGAIN UNTIL THE SITUATION IS RECTIFIED.
 - 1.6 RECORDS SHALL BE MAINTAINED FOR ALL STRESSING OPERATIONS INCLUDING CAUSE, PRESSURE, ELONGATION AND OTHER PERTINENT INFORMATION FOR EVERY STRESSING LOCATION. SUBMIT ONE COPY TO THE ENGINEER UPON PROJECT COMPLETION.
 - 1.7 UNLESS OTHERWISE INDICATED POST TENSIONING PROCEDURES SHALL CONFORM TO CSA A231.1-00, AND TO GOOD PRACTICE FOR POST-TENSIONING OPERATIONS. IT SHALL BE EXECUTED BY QUALIFIED EXPERIENCED OPERATORS AND IN CONFORMANCE WITH ANY REQUIREMENTS OF THE SUPPLIER/MANUFACTURER.
2. MATERIALS:
 - 2.1 P-T THREADBAR - TO BE DYWIDAG THREADBAR OR ENGINEER APPROVED EQUAL TO CSA G279-M82 f_{pu} =1030 MPa. TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
 - 2.2 P-T ANCHOR PLATES, NUTS, COUPLERS - AS MANUFACTURED BY DYWIDAG OR ENGINEER APPROVED MANUFACTURER FOR SPECIFIED USE WITH THE SPECIFIED THREADBAR. TO BE HOT DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE

				Company Permit	Engineer Seal	STRUCTURAL GENERAL AND DESIGN NOTES	 CITY of IQALUIT, Nunavut	CITY OF IQALUIT	CITY OF IQALUIT	 EARTHTECH Earth Tech (Canada) Inc.	DRAWN BY: BL CHECKED BY: GJK				SCALE: AS NOTED	DATE: FEB. 19, 2003	SHEET NO.	
2	RECORD DRAWING	23/04/04		RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: NINETY NORTH CONSTRUCTION & DEVELOPMENT LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.							DWG NO. S-1				REV. 1	CONTRACT 55524		
1	ISSUED FOR CONSTRUCTION	22/04/03																
0	ISSUED FOR TENDER	19/02/03																
A	ISSUED FOR FINAL REVIEW	03/02/03																
NO.	REVISION	DATE	INITIAL															

ET55524/Cadd File: 55524-S02 to S05_S08_S09.dwg/Last Edit: 2003-04-22 (12:00)/Plot Scale: 1:1 (A1)



PLAN BELOW ELEVATION 91.440 (300')
SCALE: 1:50

NOTES:

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3. REFER TO DEPARTMENT OF PUBLIC WORKS CANADA - WATER TREATMENT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY N.W.T. CONTRACT NO. CA-62-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.

NO.	REVISION	DATE	INITIAL
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A	ISSUED FOR FINAL REVIEW	02/02/03	

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STRUCTURAL
EXISTING FOUNDATION LAYOUT



CITY of IQALUIT,
Nunavut

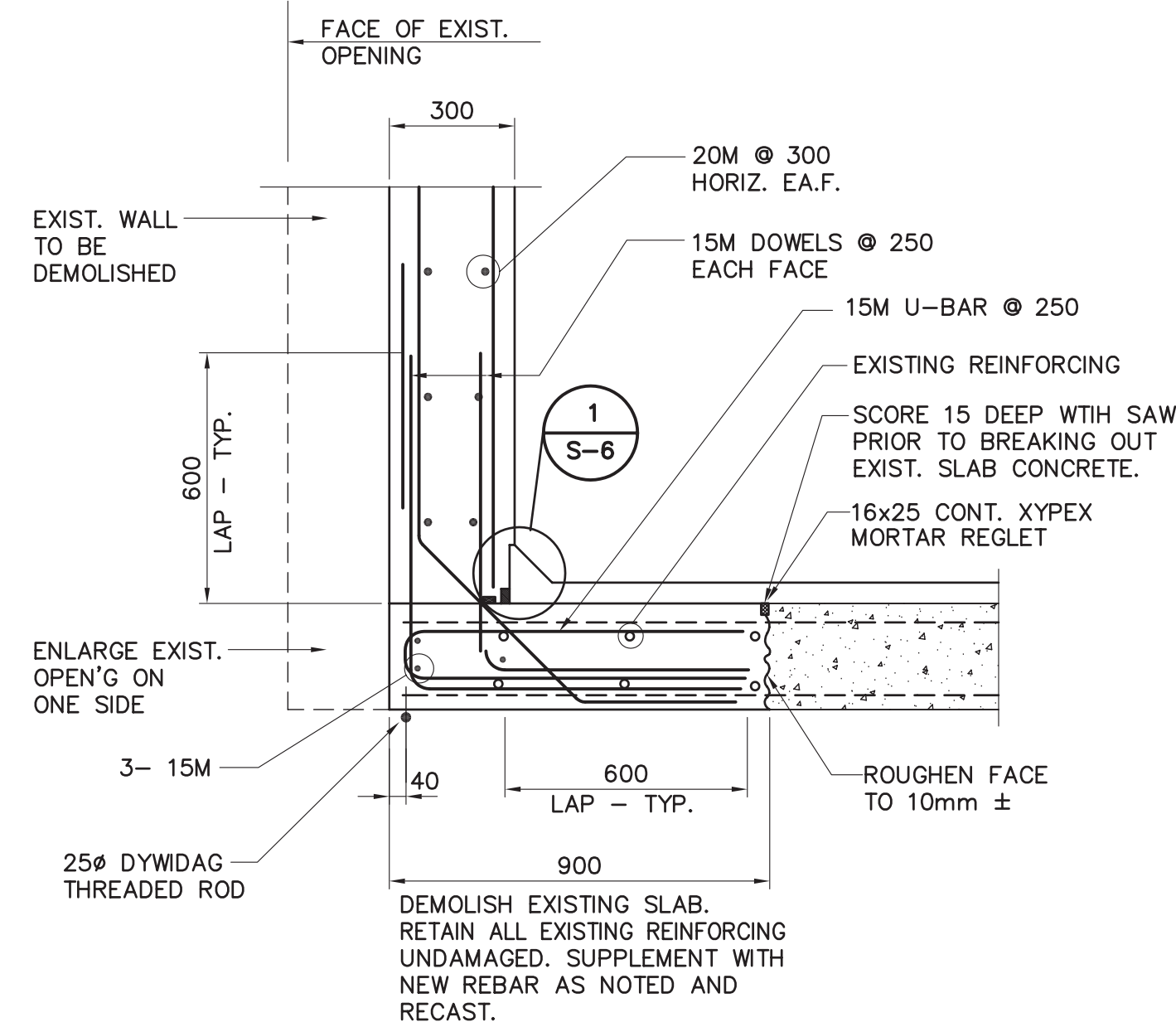
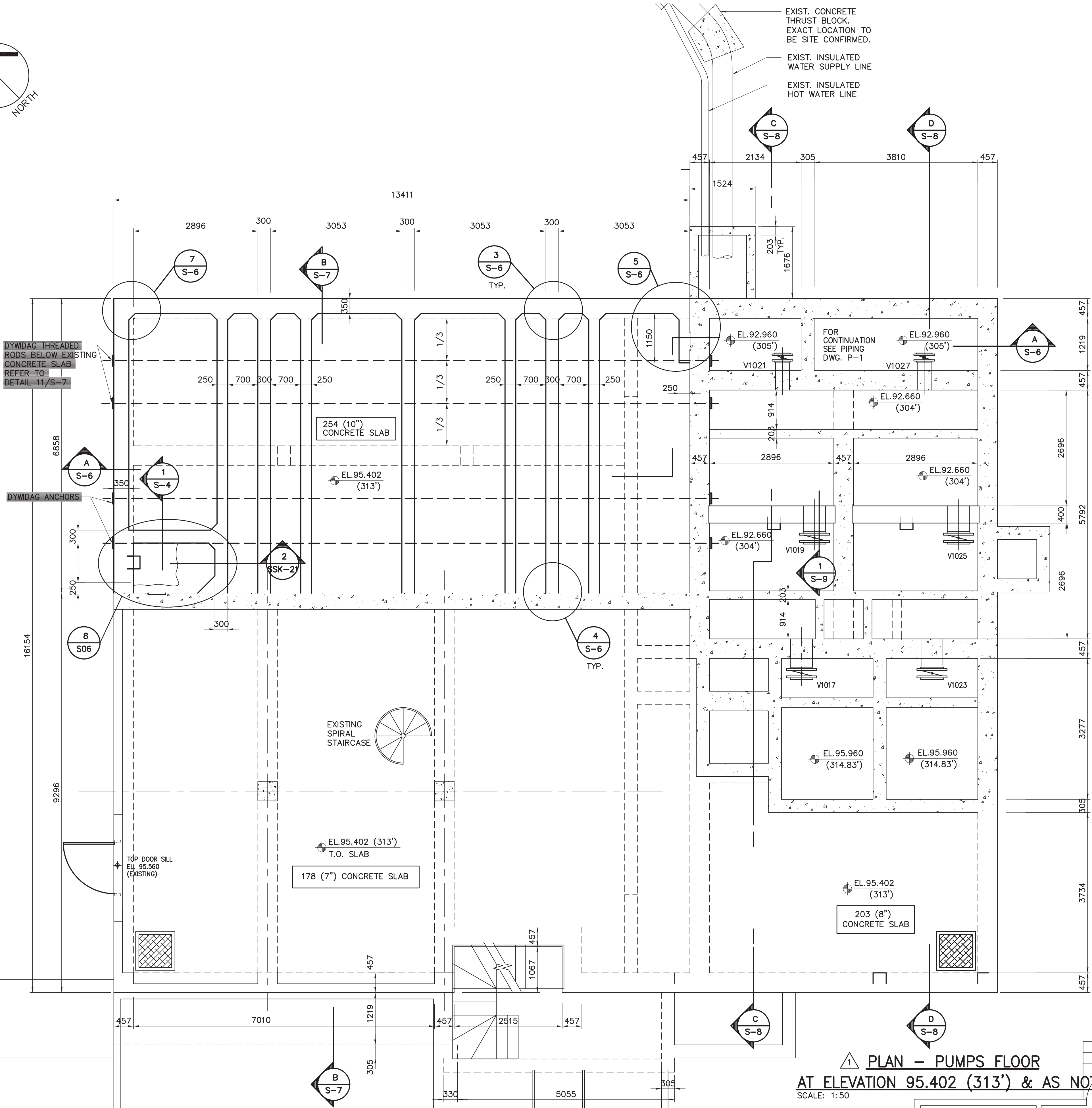
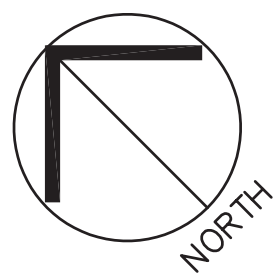
CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT



Earth Tech (Canada) Inc.

DRAWN BY: BL	SCALE: AS NOTED	DATE: FEB. 19, 2003	SHEET NO.
CHECKED BY: GJK			
CADD SYSTEM AutoCAD	DWG NO. S-2	REV. 1	CONTRACT 55524



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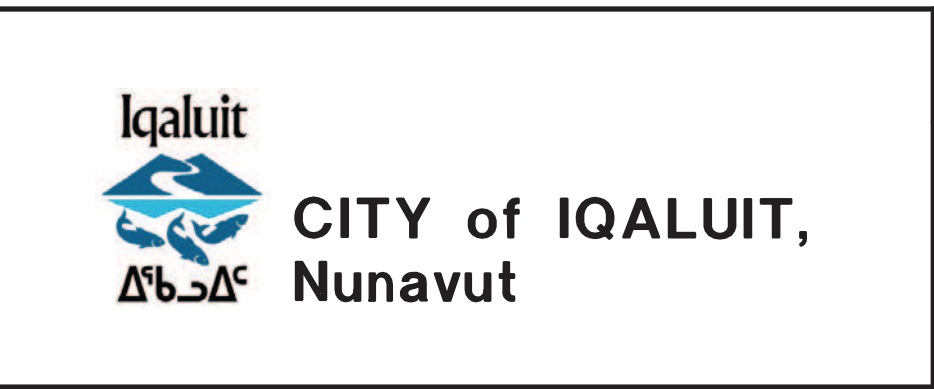
NO.	REVISION	DATE	INITIAL
	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	
0	ISSUED FOR TENDER	19/02/03	
A	ISSUED FOR FINAL REVIEW	03/02/03	

Company Permit
Engineer Seal

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STRUCTURAL

PUMPS FLOOR PLAN



CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

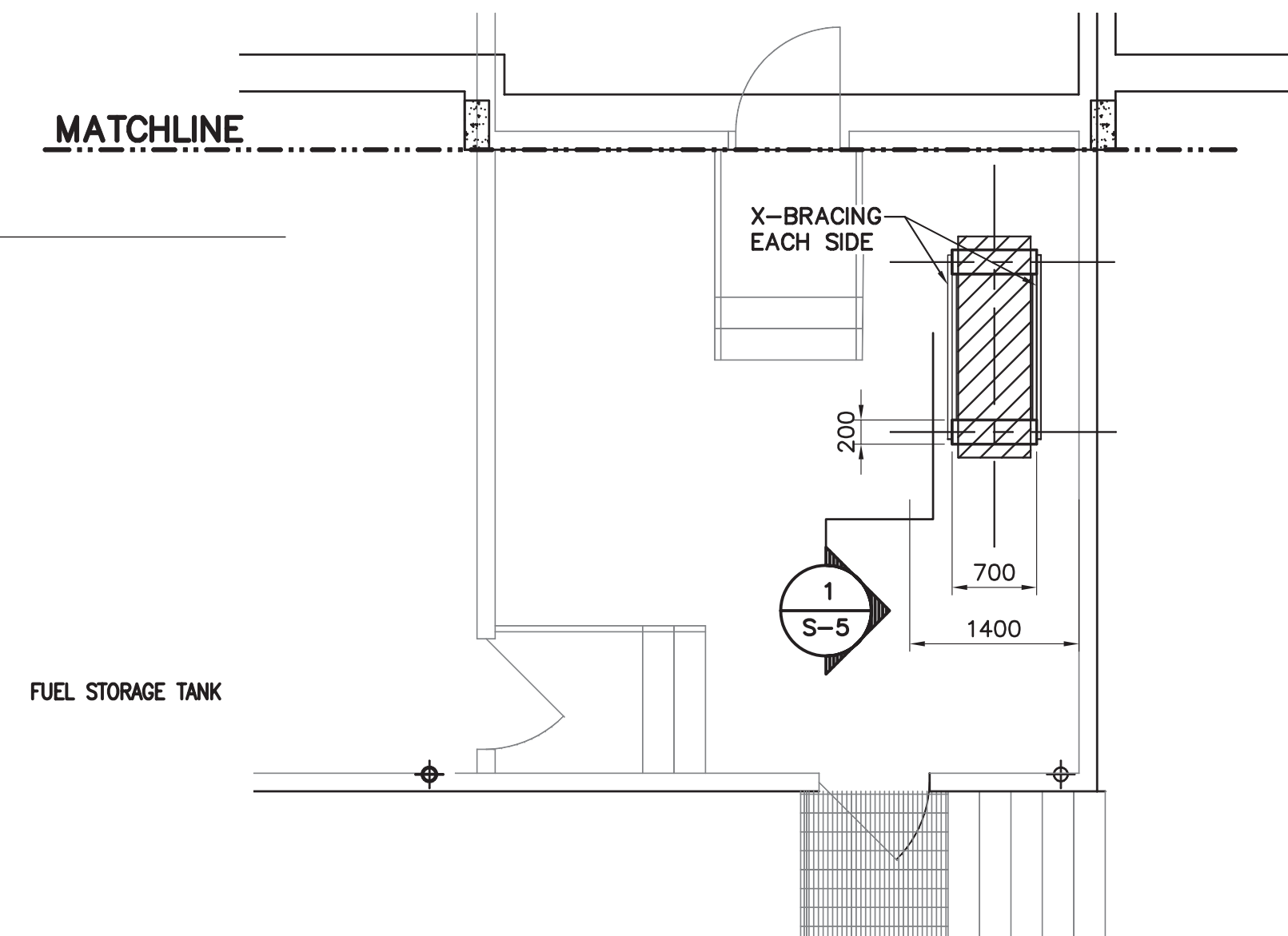
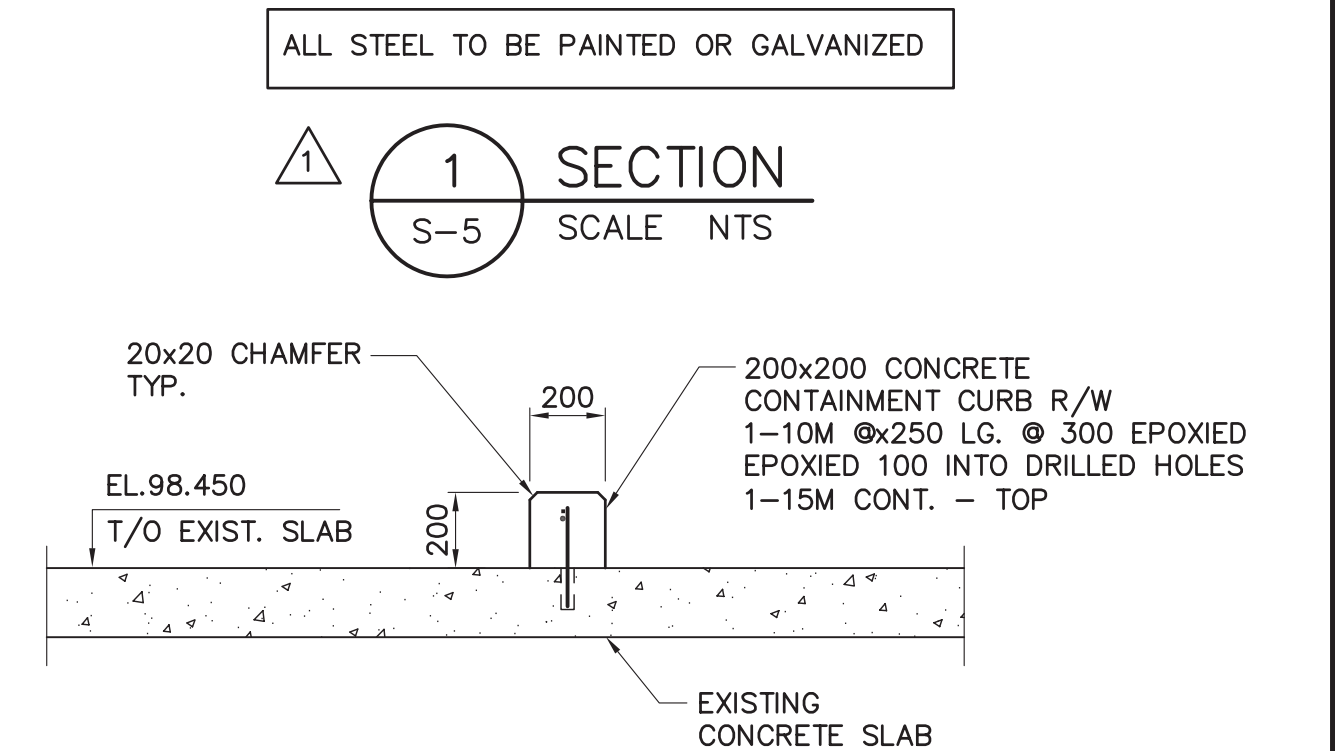
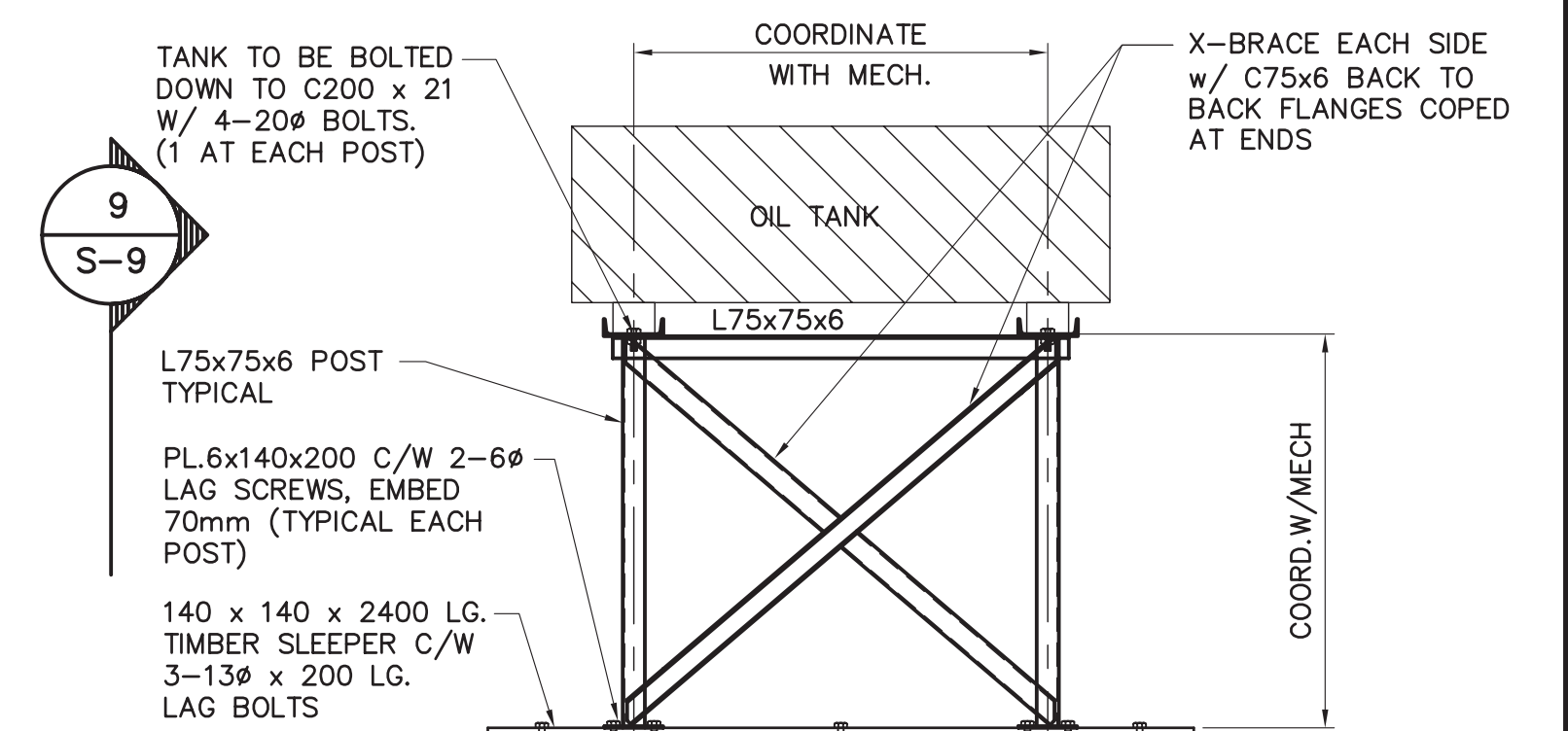
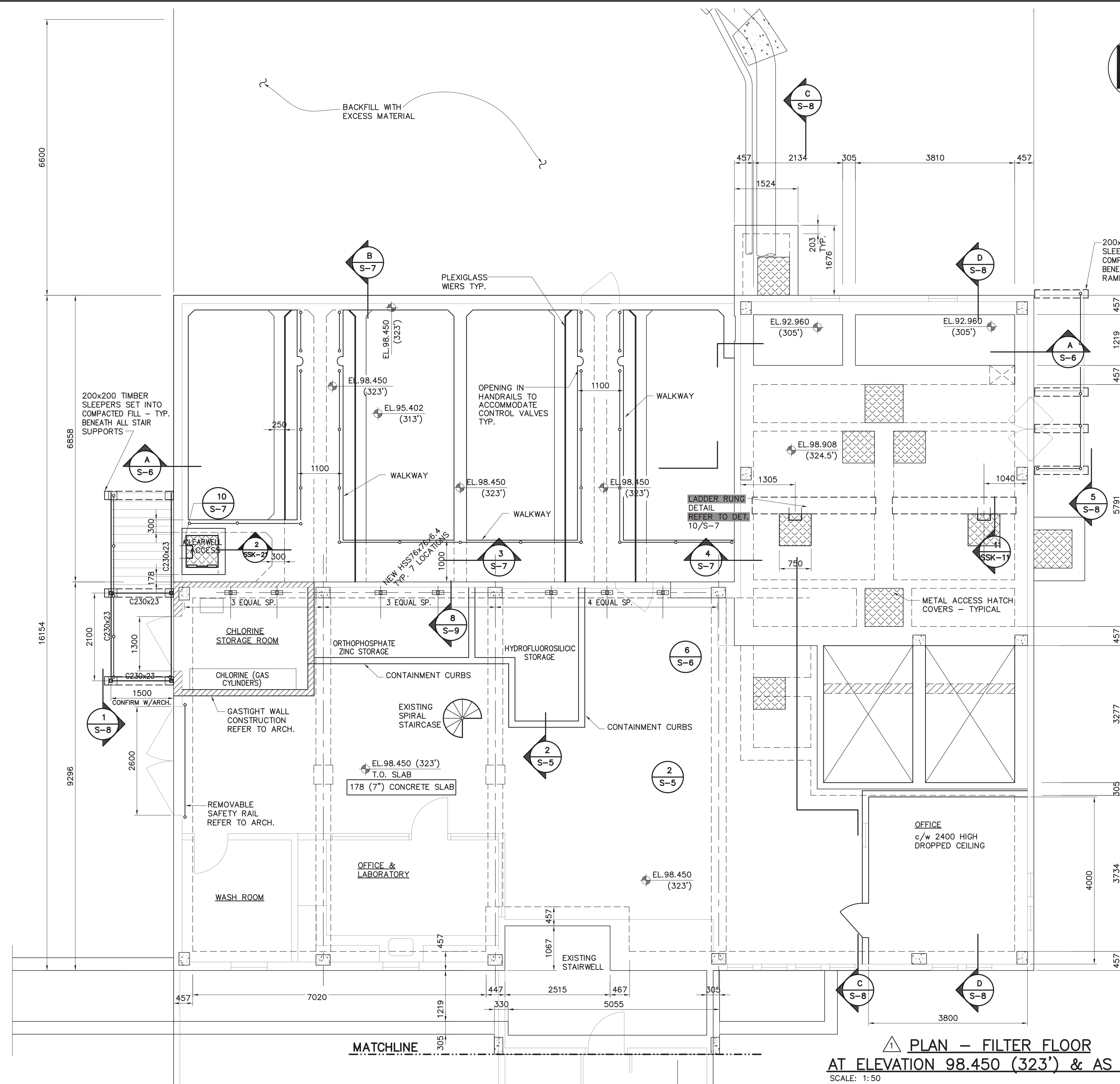
EARTH TECH

Earth Tech (Canada) Inc.

DRAWN BY: BL	SCALE: AS NOTED	DATE: FEB. 19, 2003	SHEET NO.
CHECKED BY: GJK	DWG NO. S-4	REV. 1	CONTRACT 55524

ET:55524/Cadd File: 55524-S02 to S05_S06_S09.dwg/Last Edit: 2003-04-22 (12:00)/Plot Scale: 1:1 (A1)

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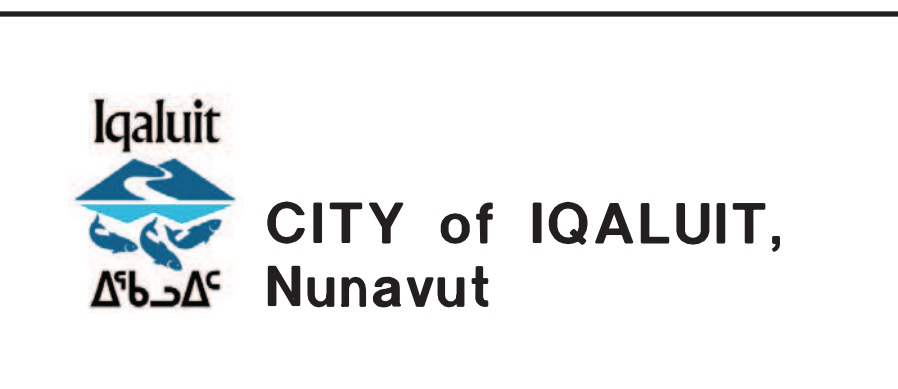
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1 PLAN - FILTER FLOOR
AT ELEVATION 98.450 (323') & AS NOTED
SCALE: 1:50

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A	ISSUED FOR FINAL REVIEW	03/02/03	

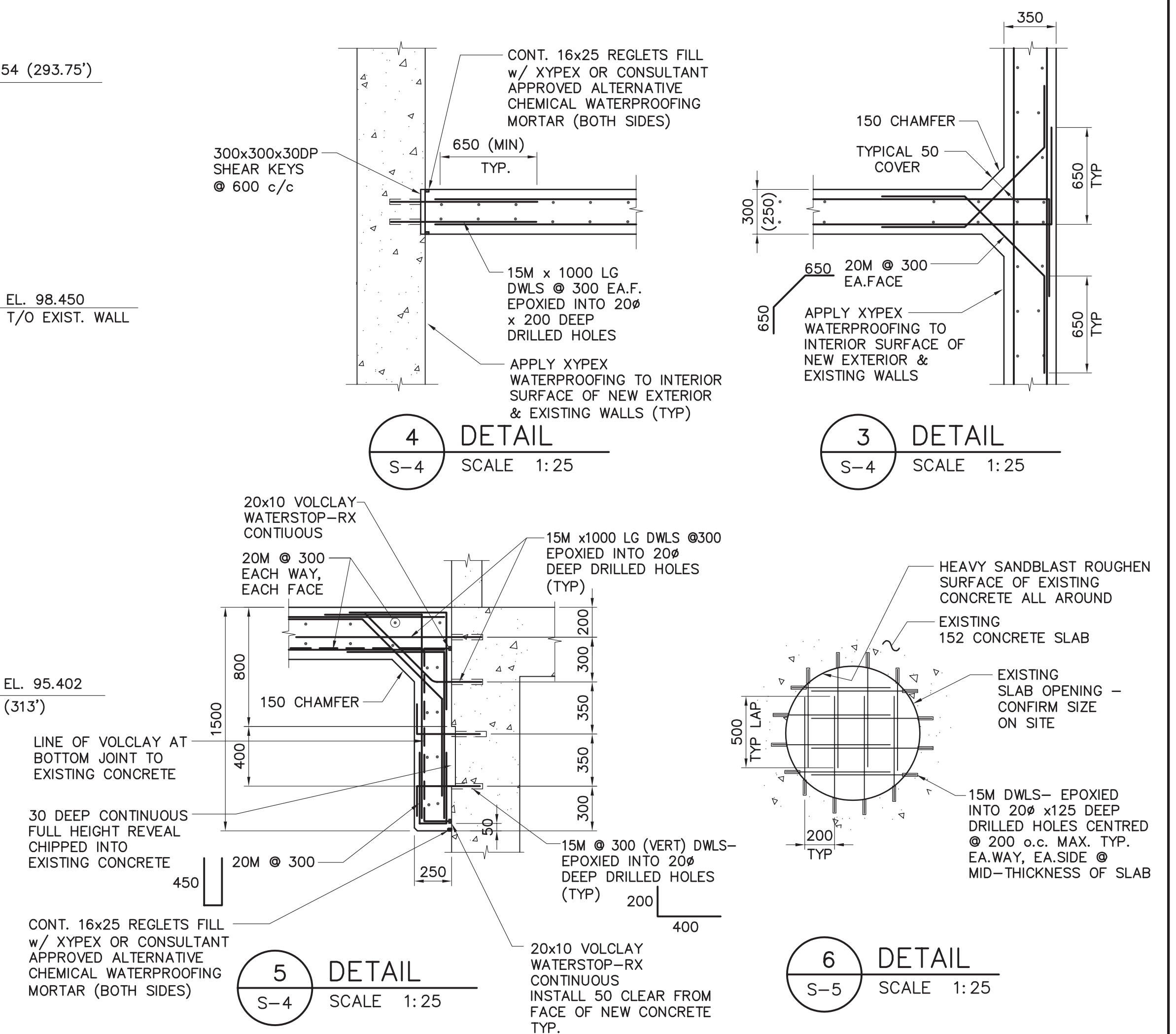
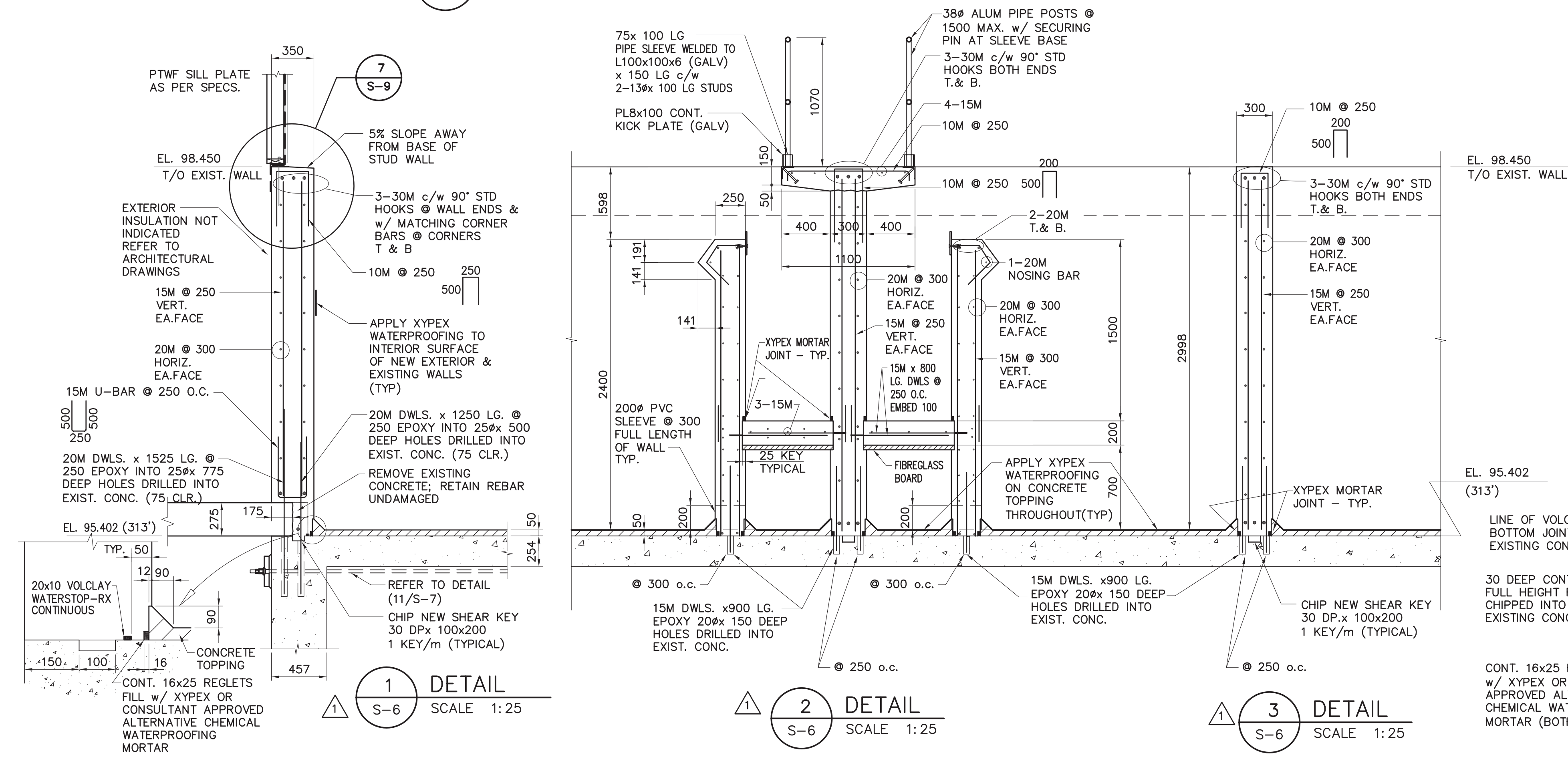
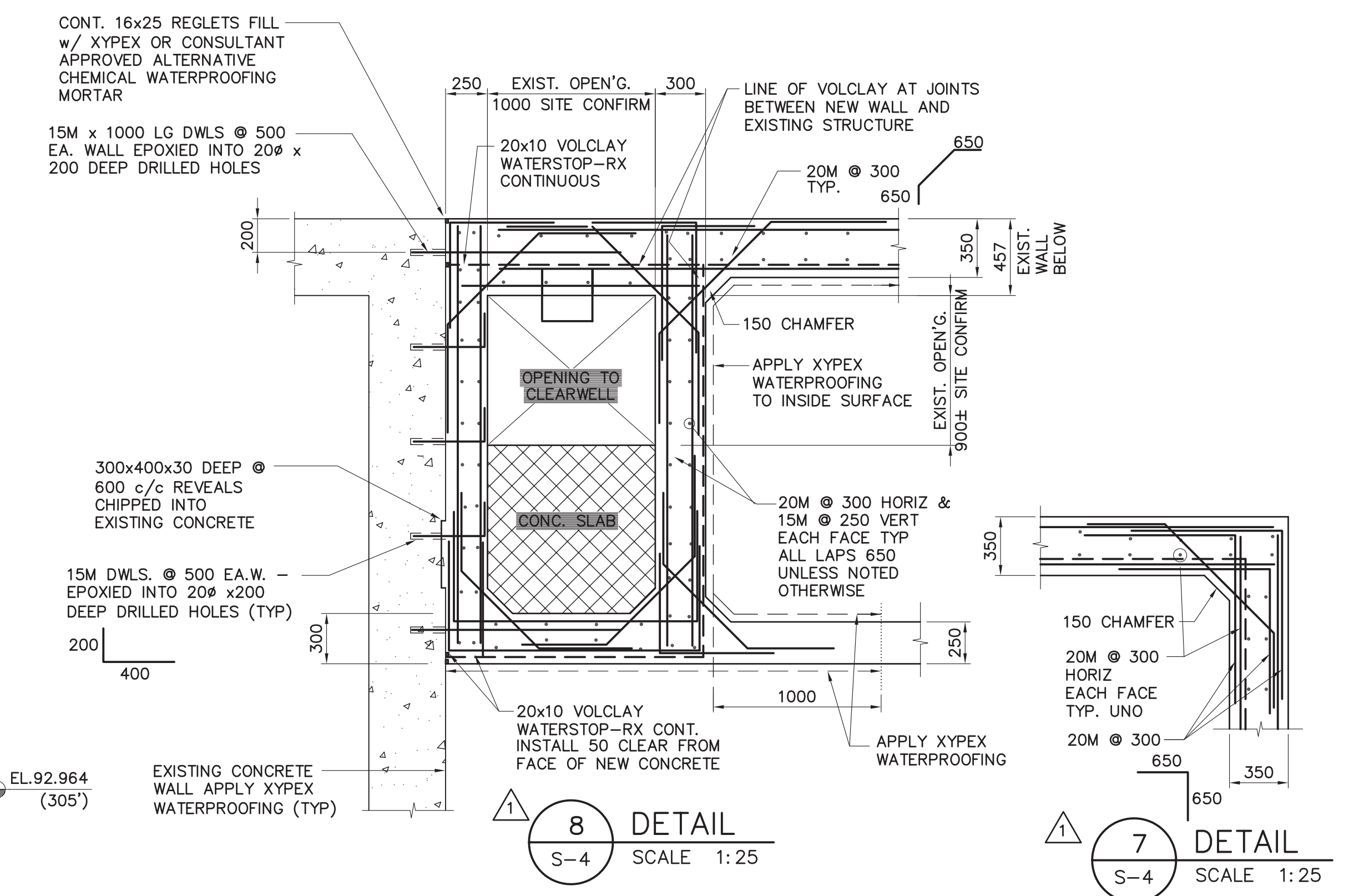
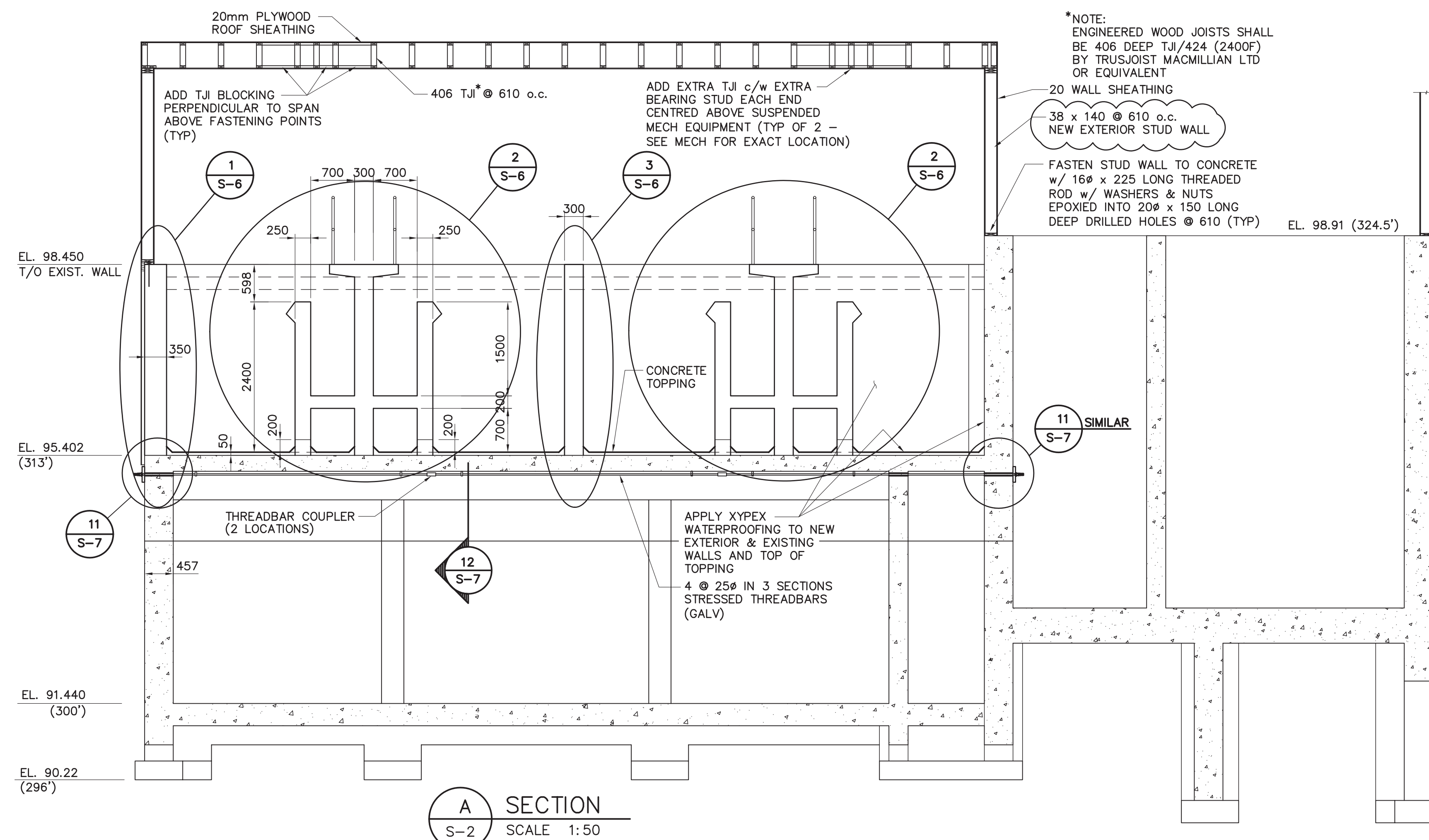
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STRUCTURAL
FILTERS FLOOR PLAN



CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

EARTH TECH			
Earth Tech (Canada) Inc.			
DRAWN BY: BL	SCALE: AS NOTED	DATE: FEB. 19, 2003	SHEET NO.
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2	RECORD DRAWING	23/04/04	
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NO.	REVISION	DATE	INITIAL

Company Permit	Engineer Seal
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STRUCTURAL
SECTIONS AND DETAILS

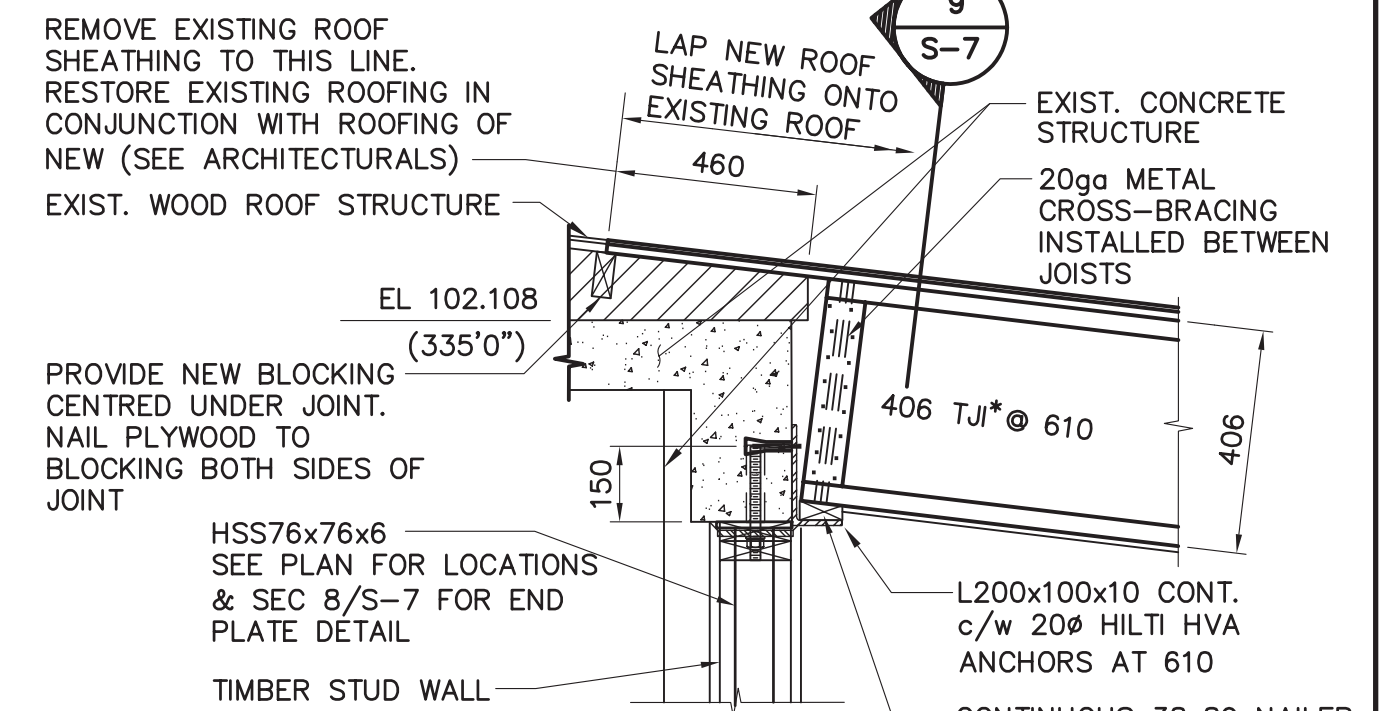
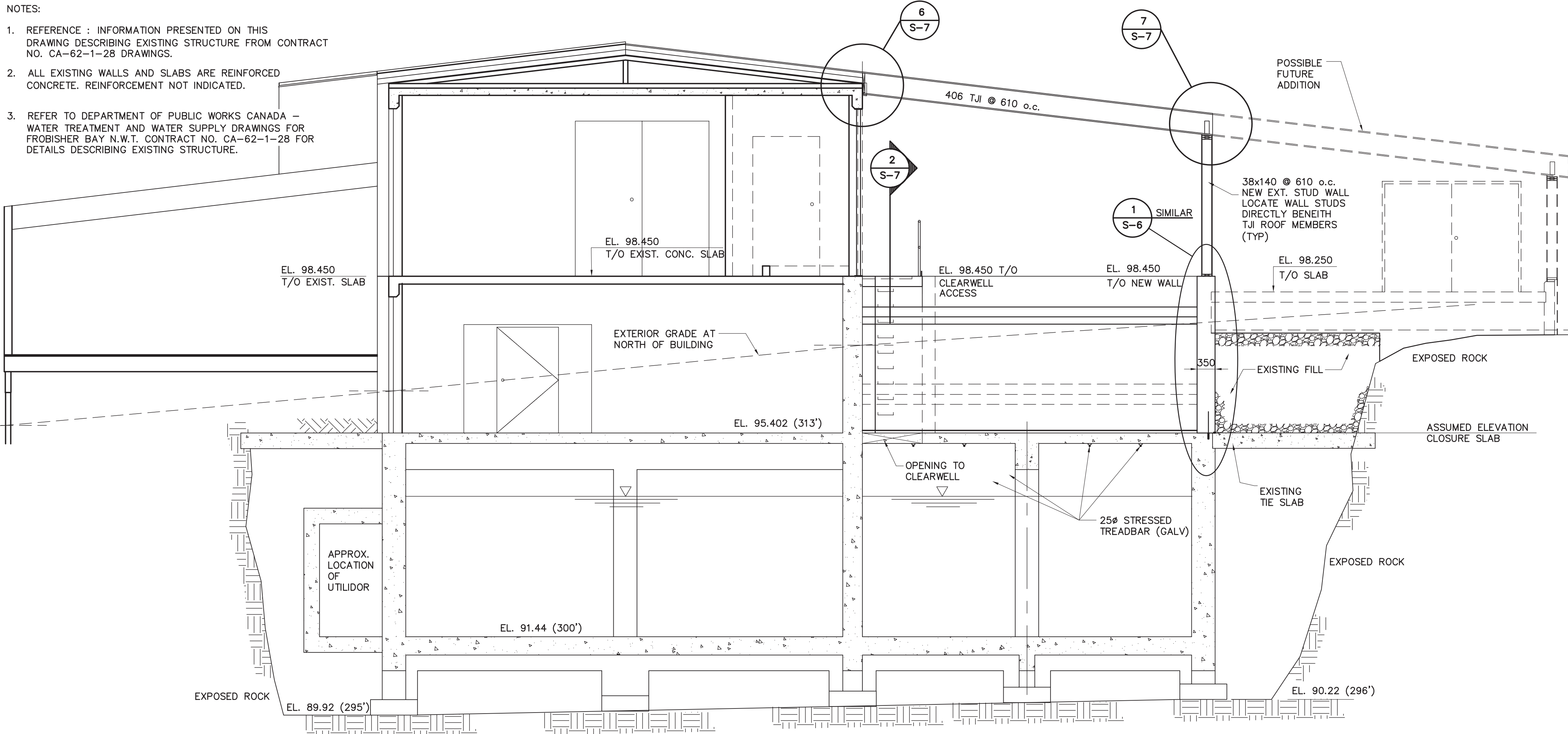


CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

			
E A R T H T E C H			
Earth Tech (Canada) Inc.		Edmonton, Alta.	
DRAWN BY: BL CHECKED BY: GJK	SCALE: AS NOTED	DATE: FEB. 19, 2003	SHEET NO.
CADD SYSTEM AutoCAD	DWG NO. S-6	REV. 1	CONTRACT 55524

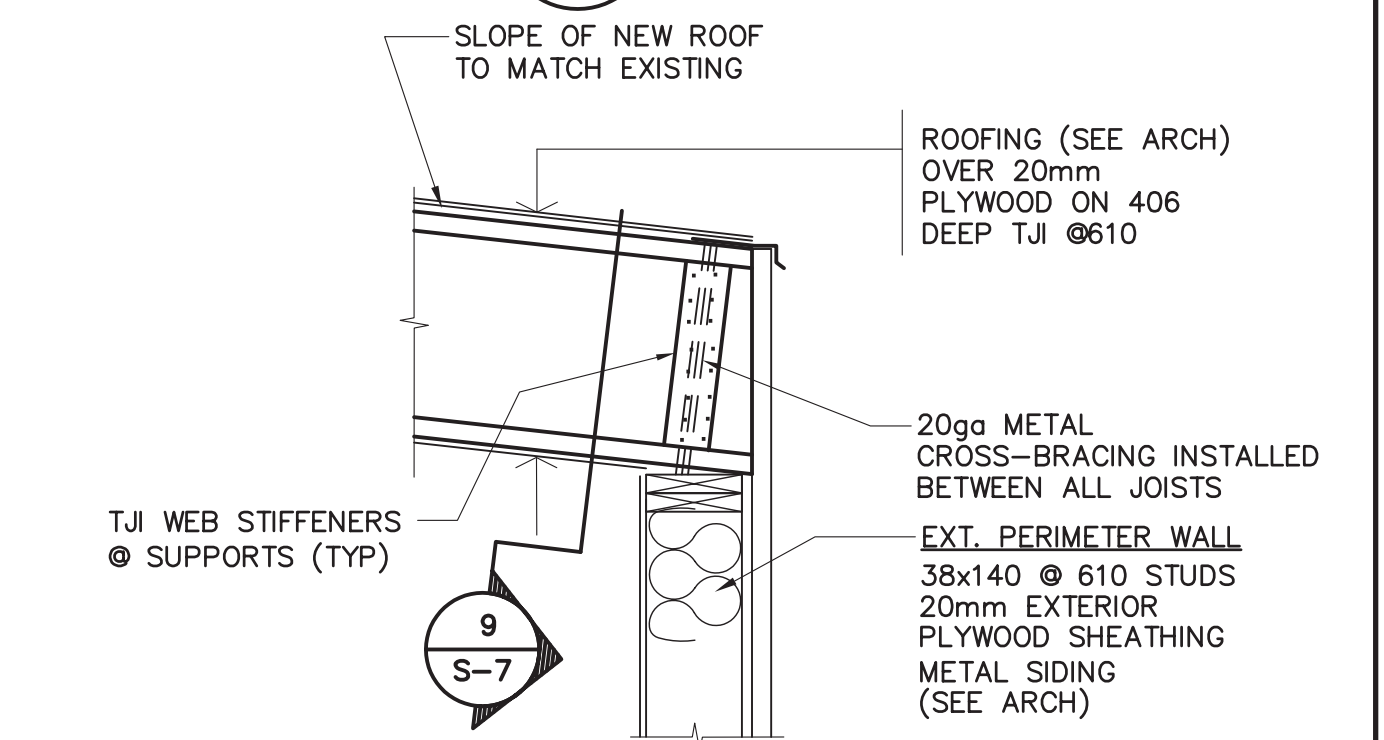
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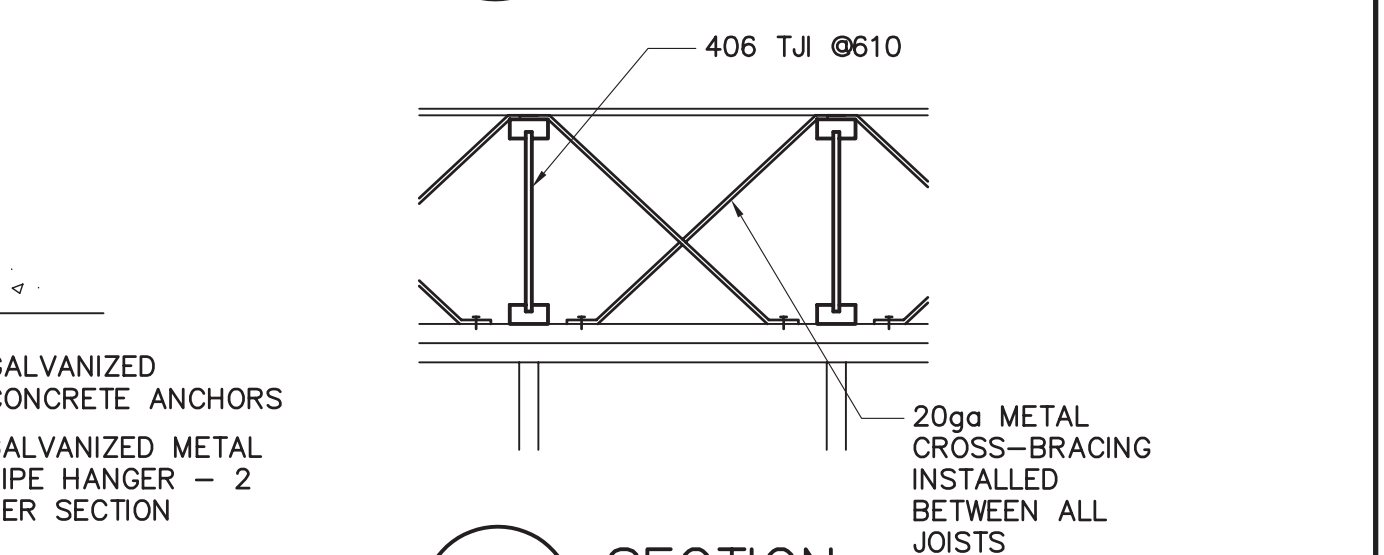


*NOTE:
ENGINEERED WOOD JOISTS
SHALL BE 406 DEEP
TJI/424 (2400F) BY
TRUSJOIST MACMILLIAN LTD
OR EQUIVALENT

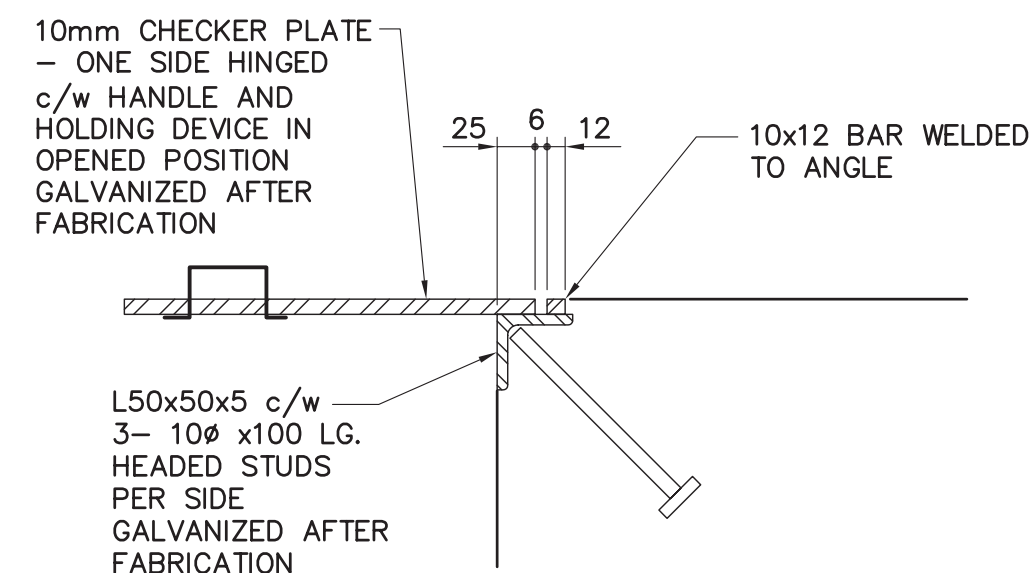
6 DETAIL
S-7 SCALE 1:15



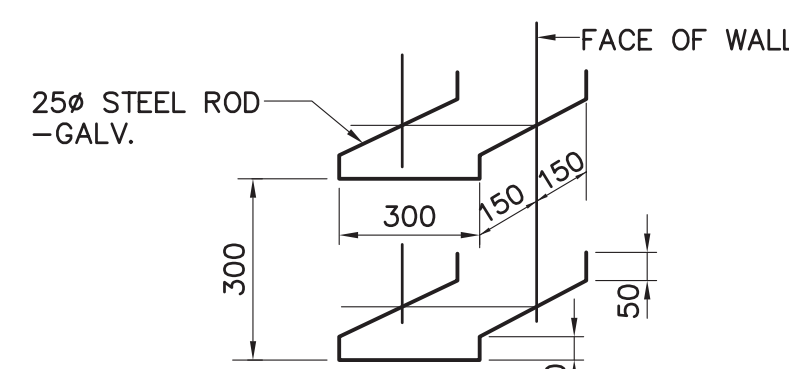
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9 SECTION
S-7 SCALE 1:15

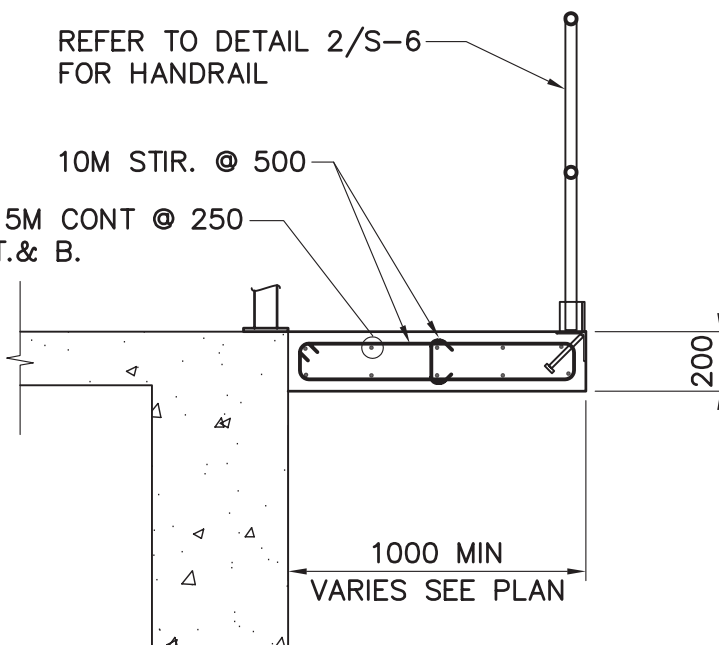


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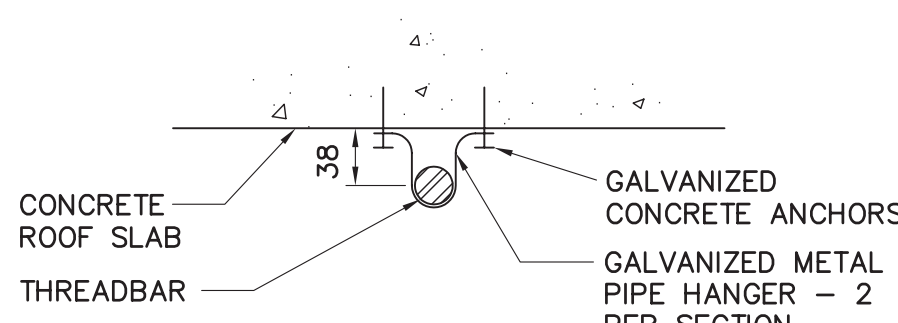


10 DETAIL
S-7 SCALE 1:25

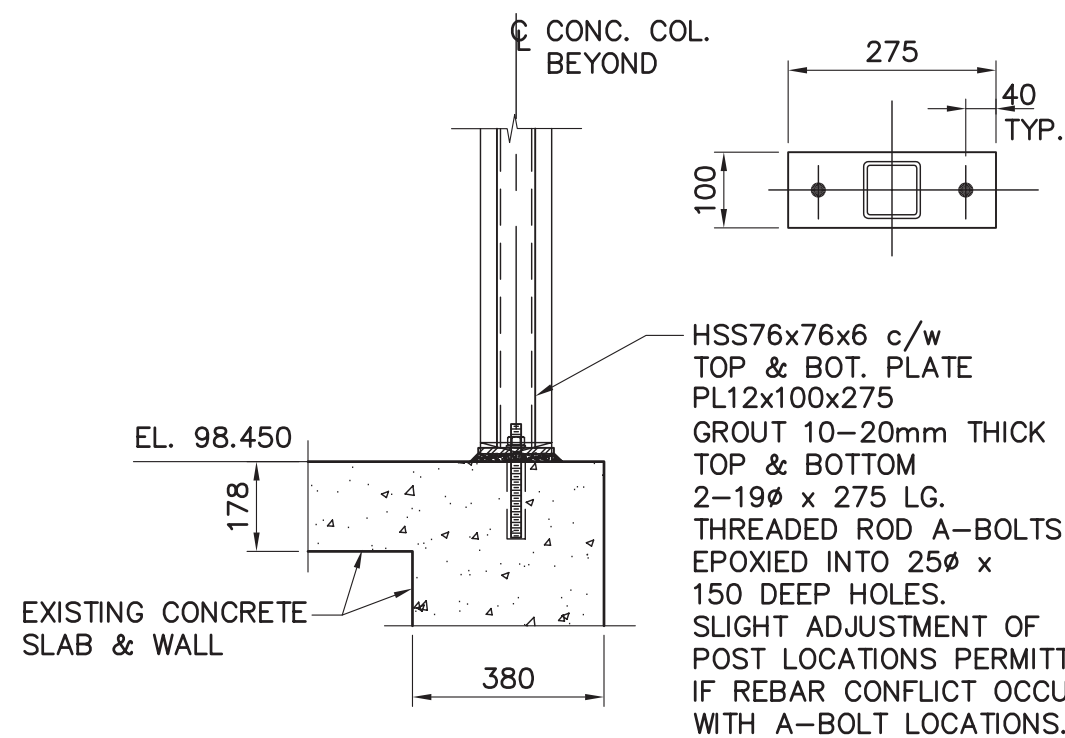
B SECTION
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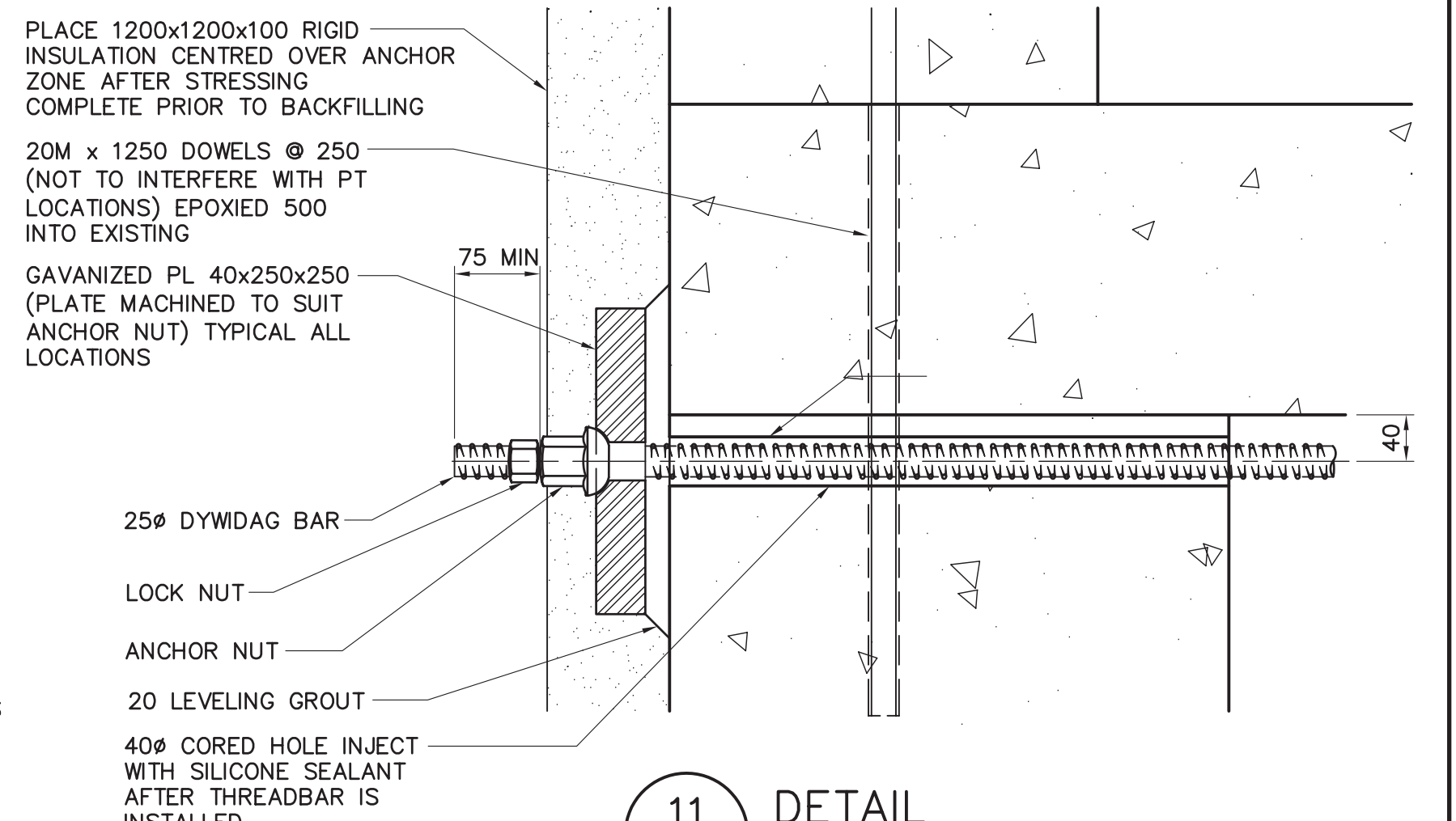
5 SECTION
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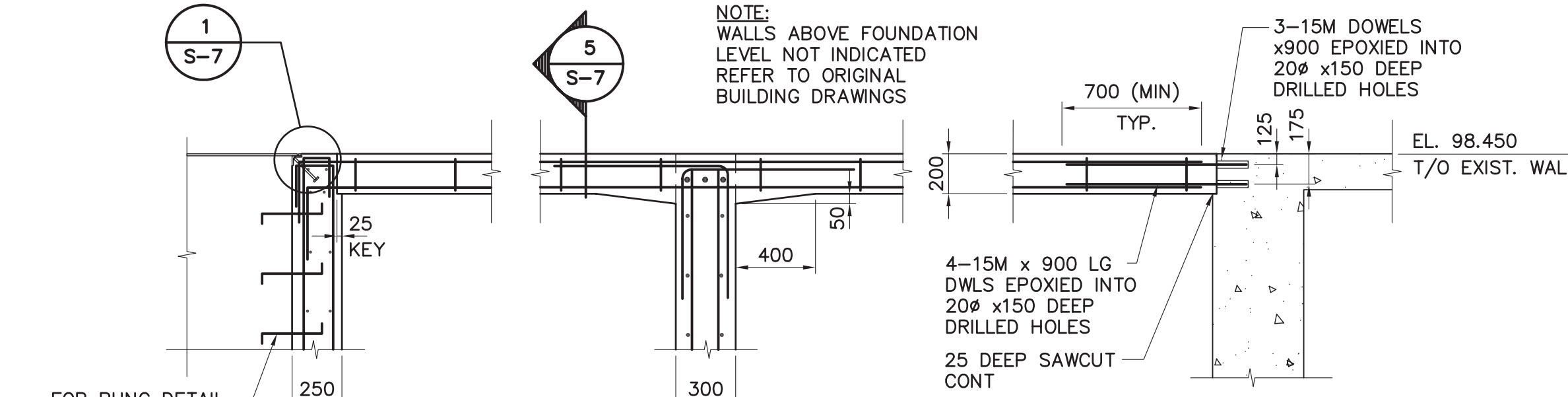
12 SECTION
S-6 SCALE 1:5



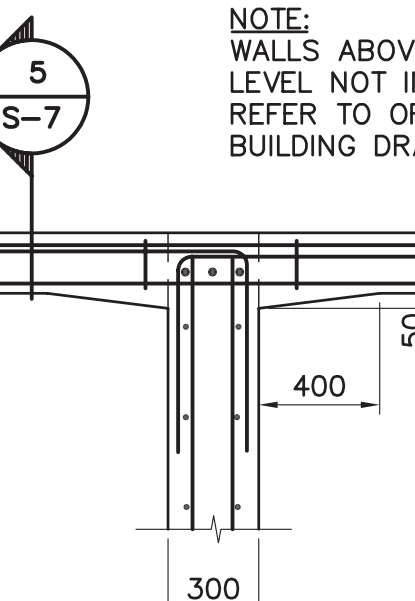
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S-4 SCALE 1:15



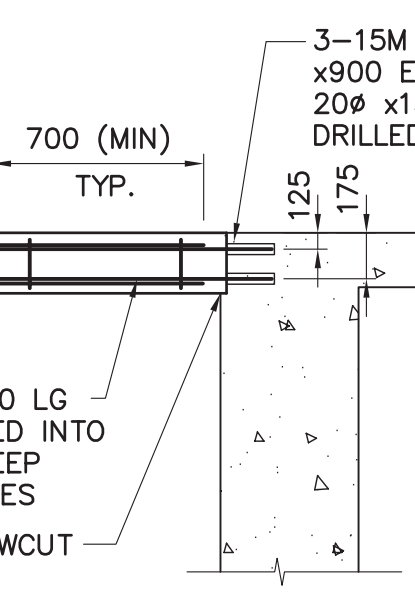
11 DETAIL
S-6 SCALE 1:5



2 SECTION
S-5 SCALE 1:25



3 SECTION
S-5 SCALE 1:25



4 SECTION
S-5 SCALE 1:25

NO.	REVISION	DATE	INITIAL
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Company Permit
Engineer Seal

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STRUCTURAL

SECTIONS AND DETAILS



CITY OF IQALUIT

IQALUIT WATER TREATMENT PLANT

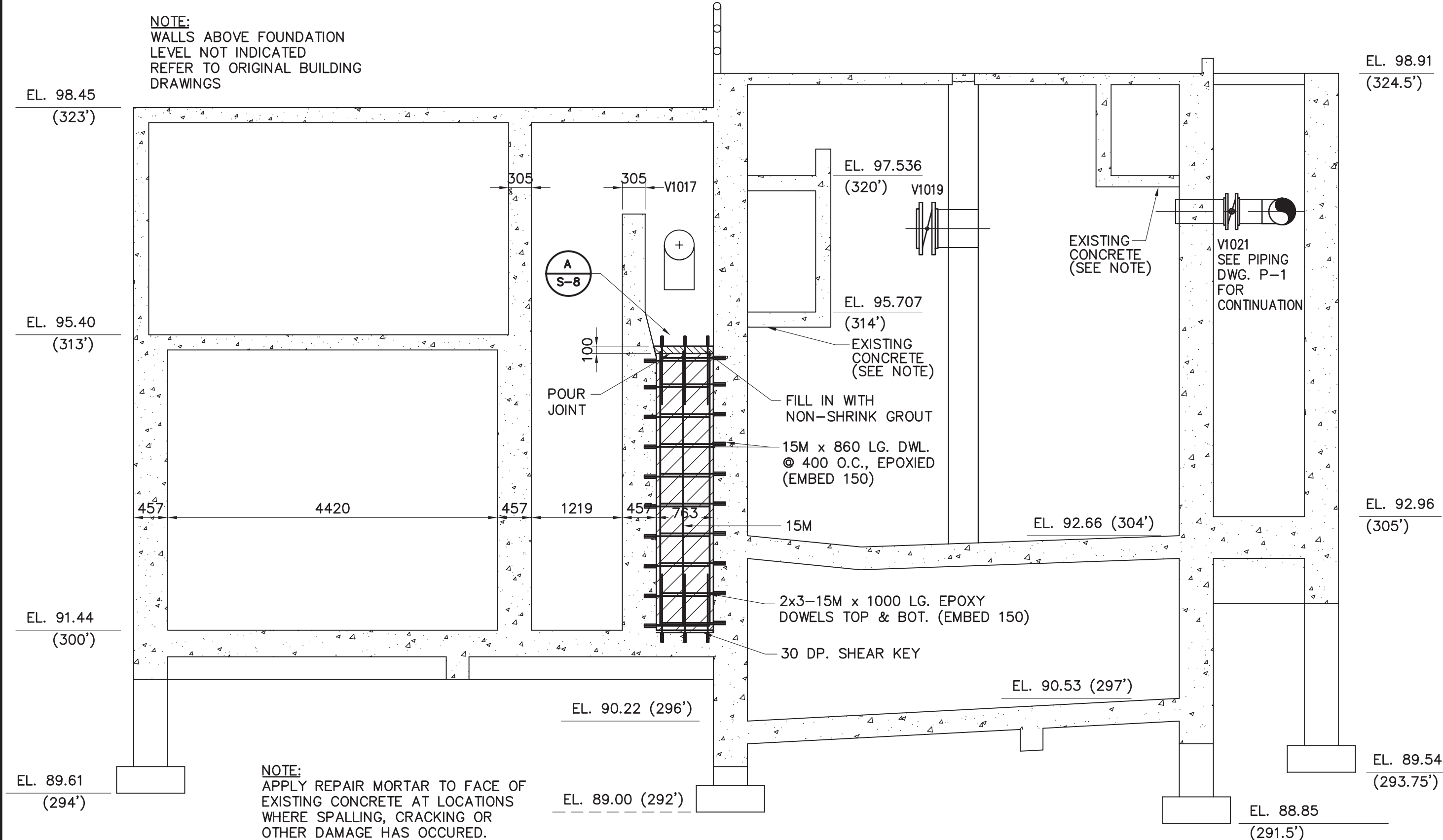
EARTH TECH

Earth Tech (Canada) Inc.

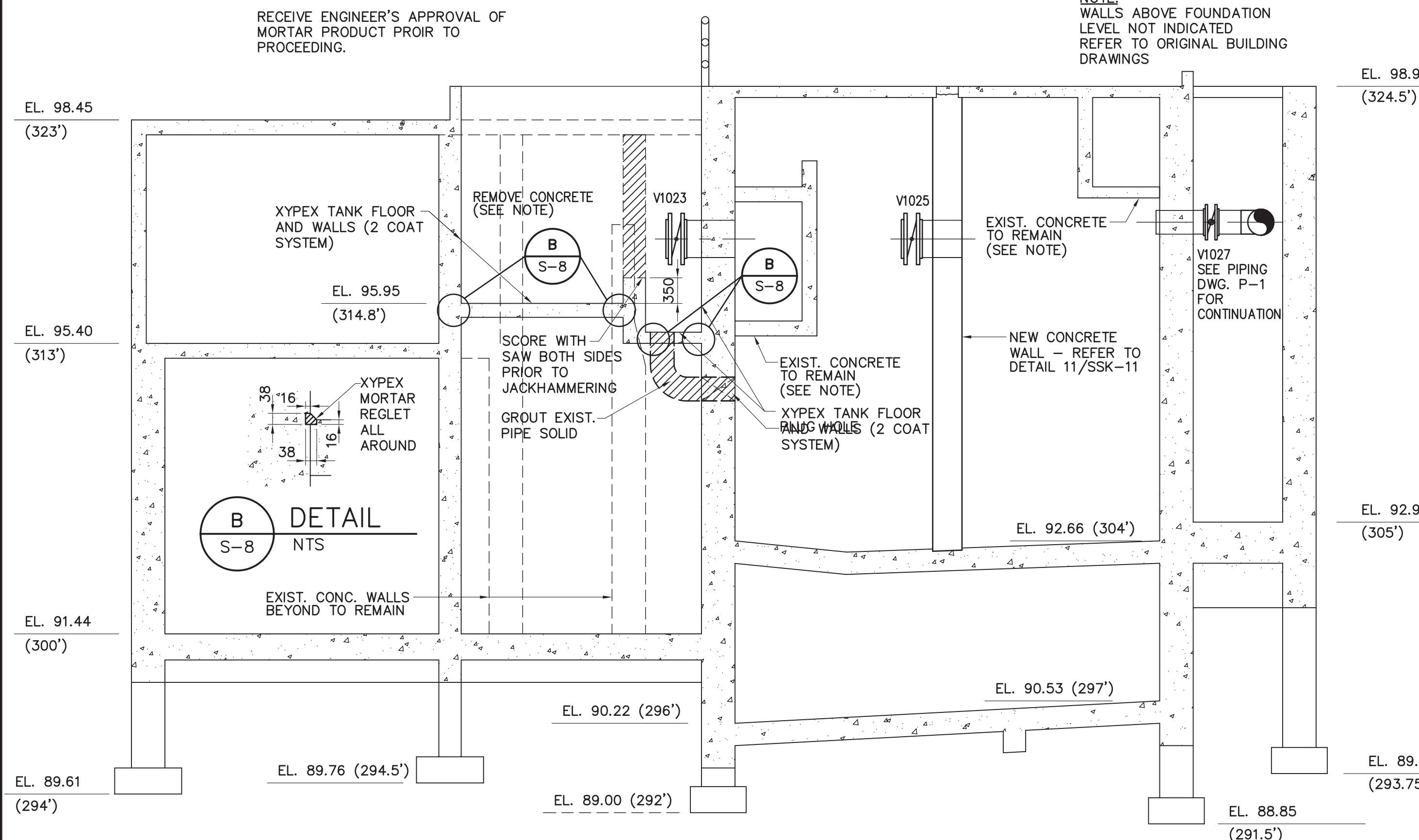
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CHECKED BY: GJK	DWG NO.	REV. 1	CONTRACT 55524

S-7

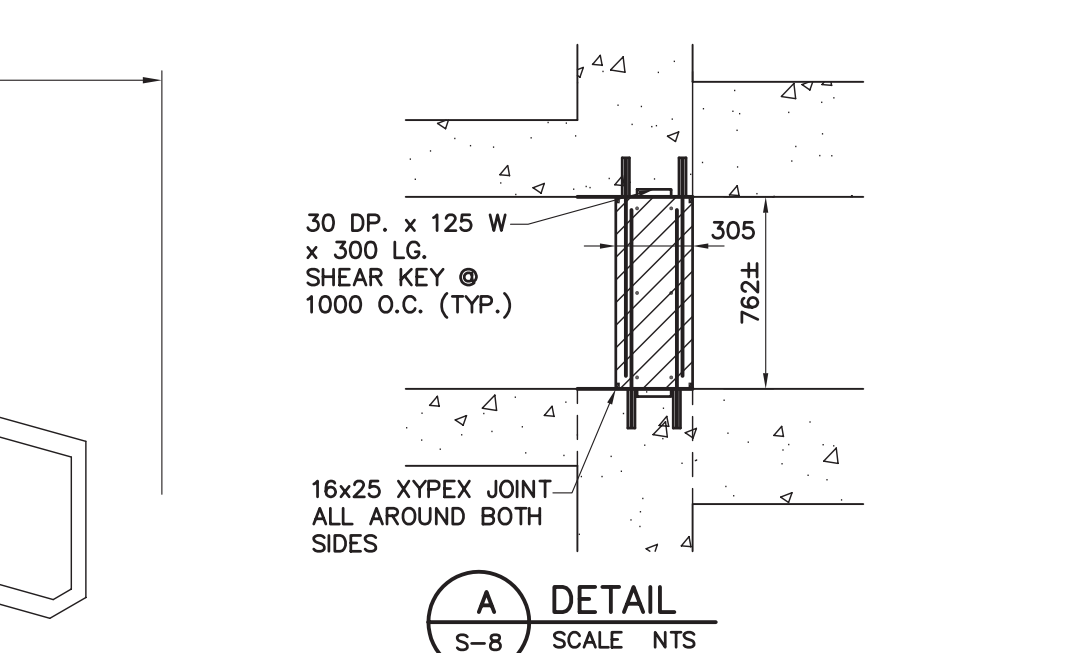
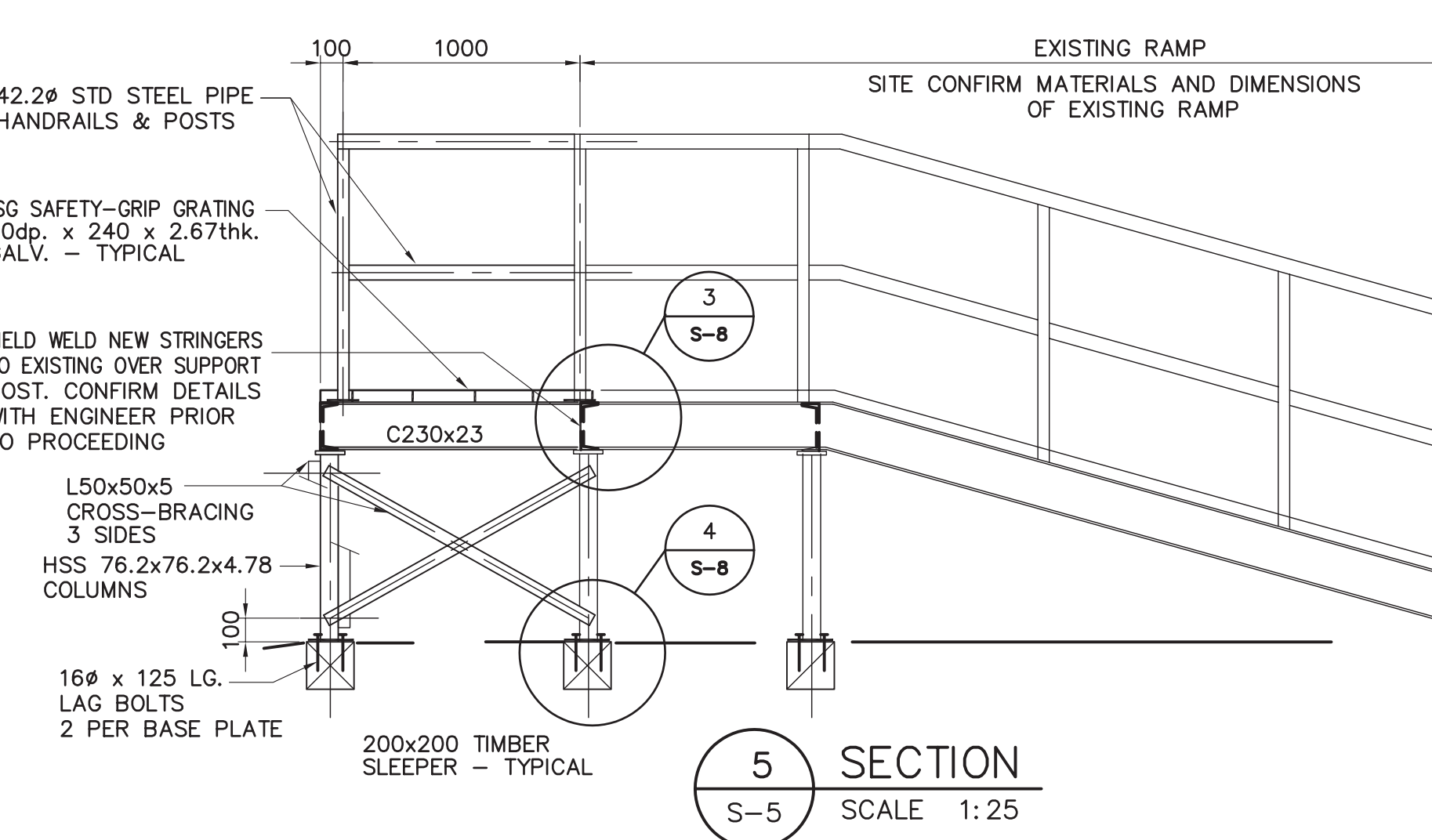
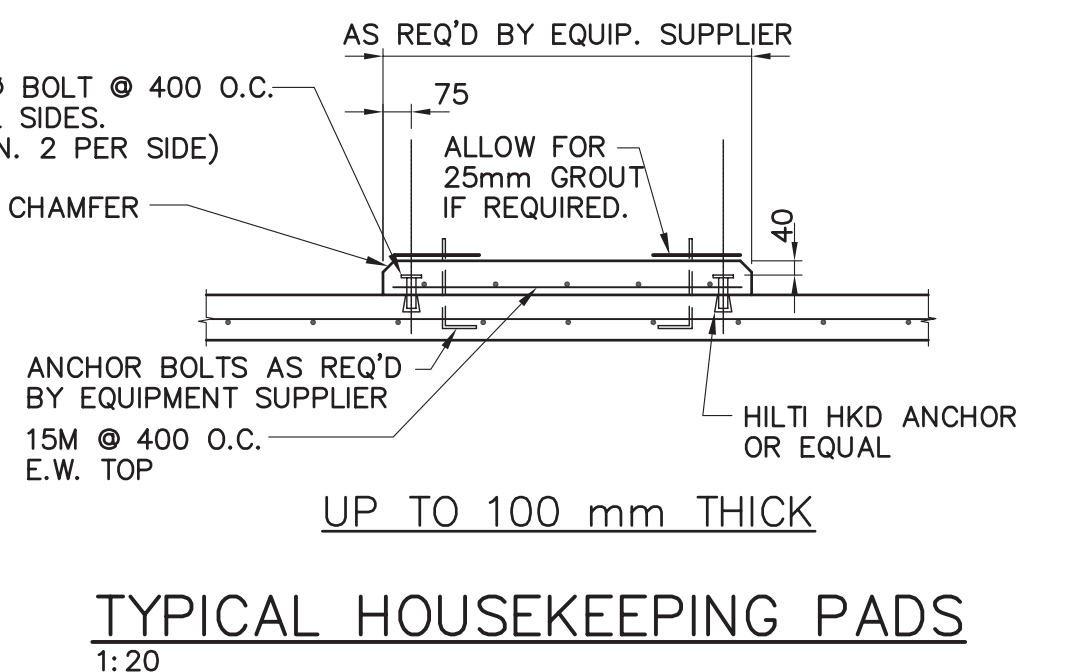
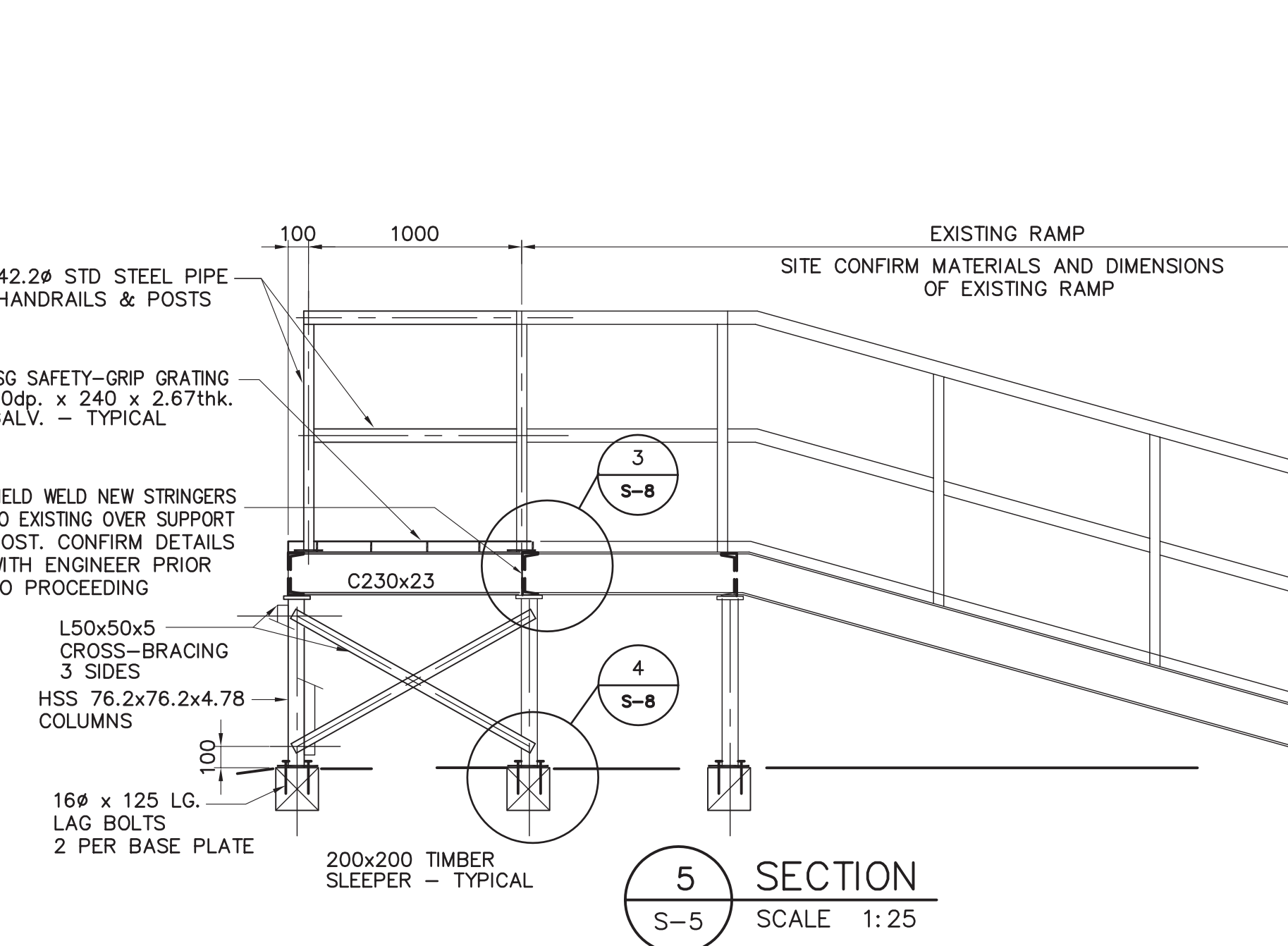
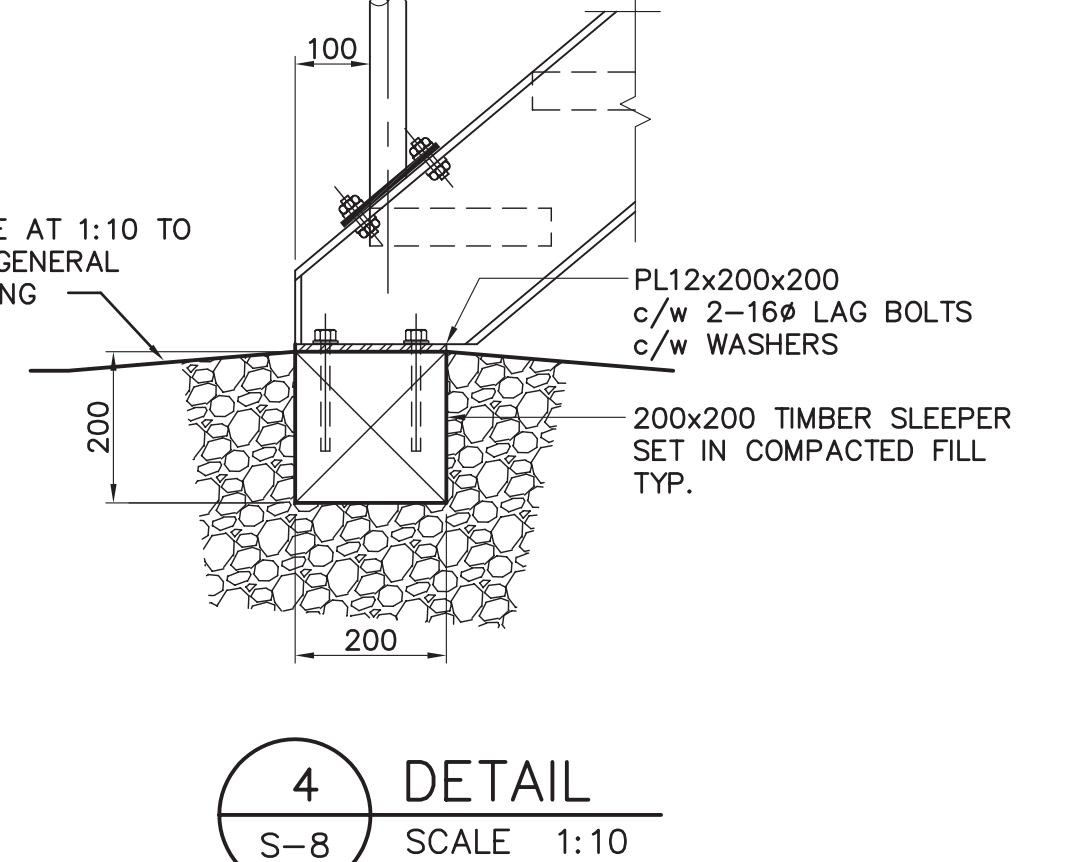
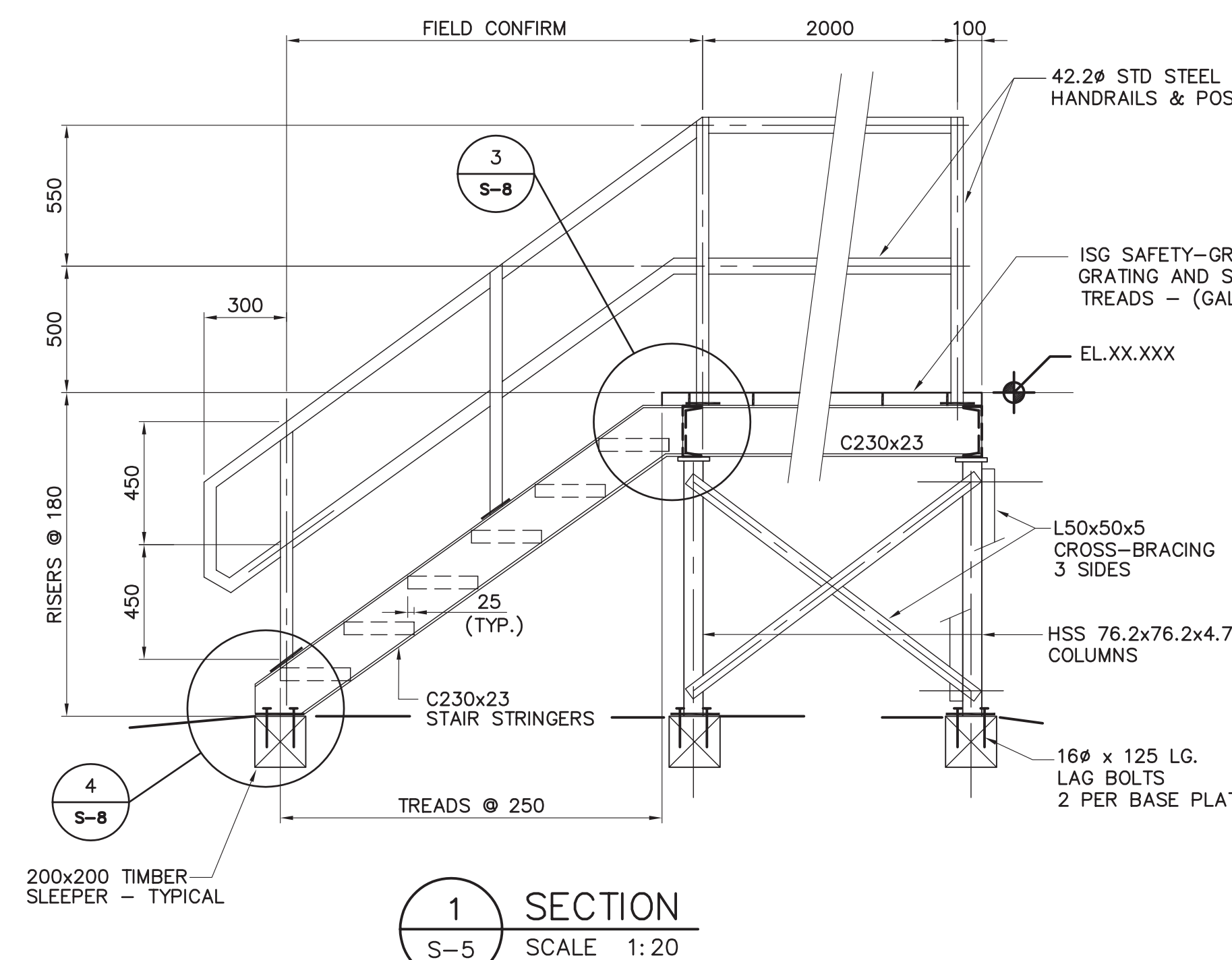
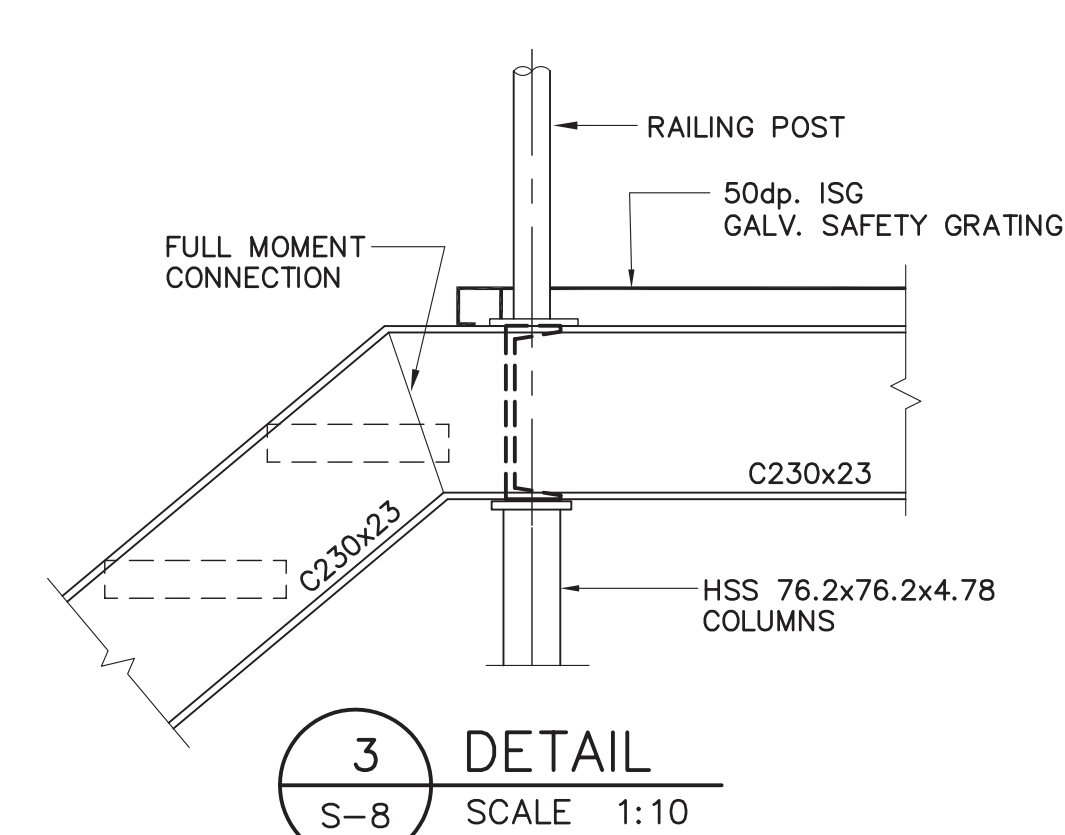
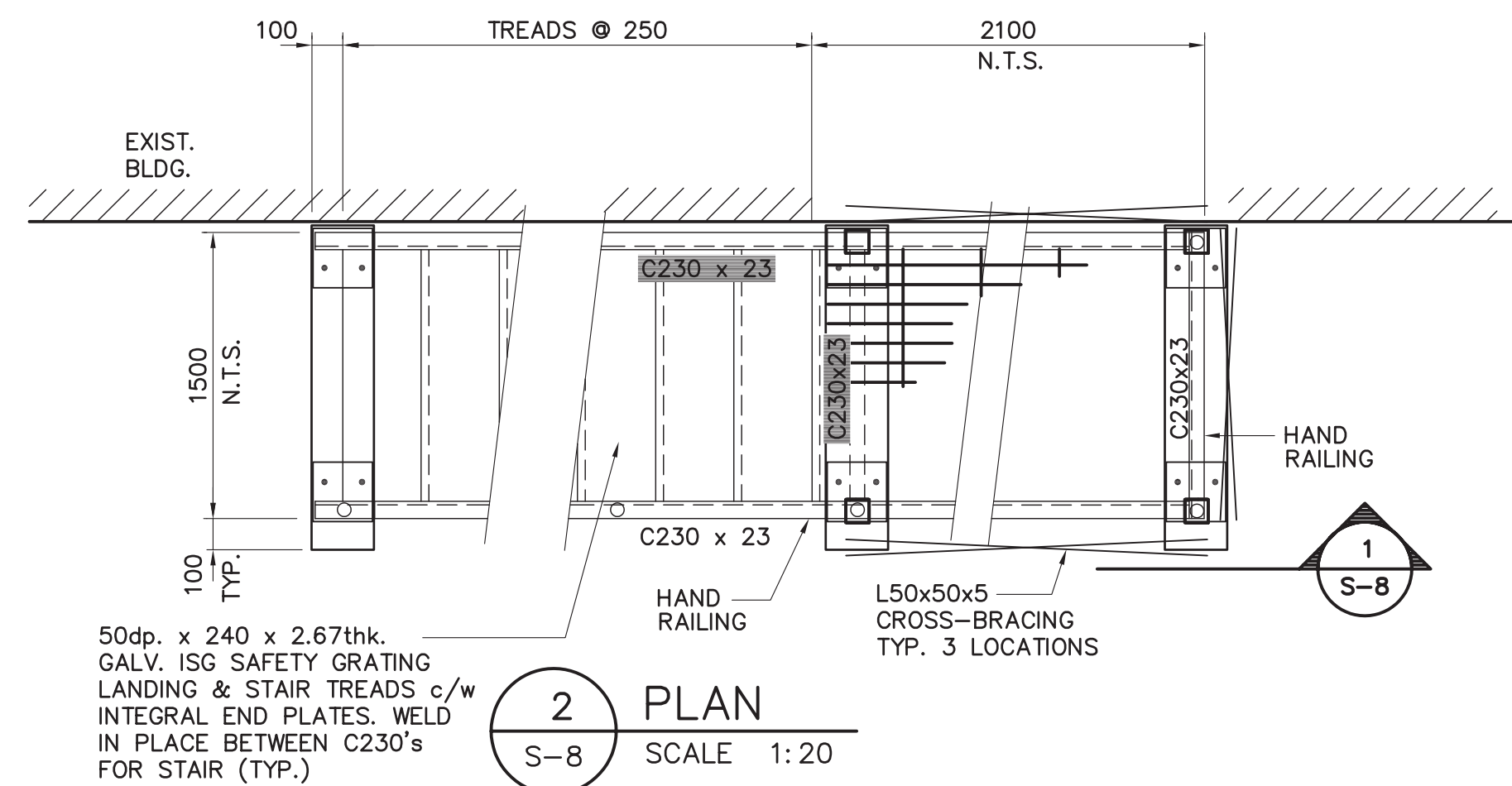
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1 C SECTION
S-2 SCALE 1:50



1 D SECTION
S-2 SCALE 1:50



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Company Permit	Engineer Seal
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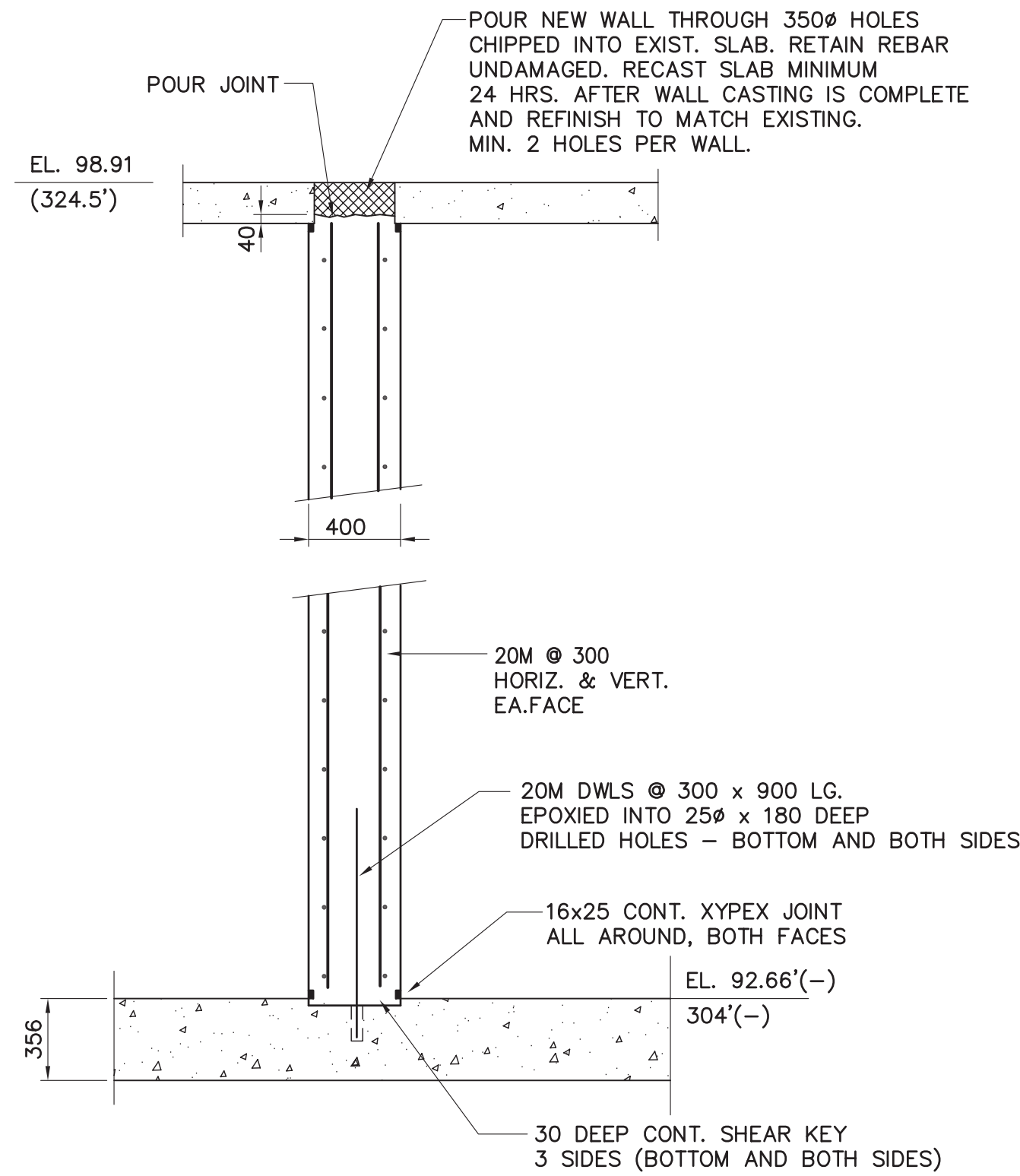
STRUCTURAL
SECTIONS AND DETAILS



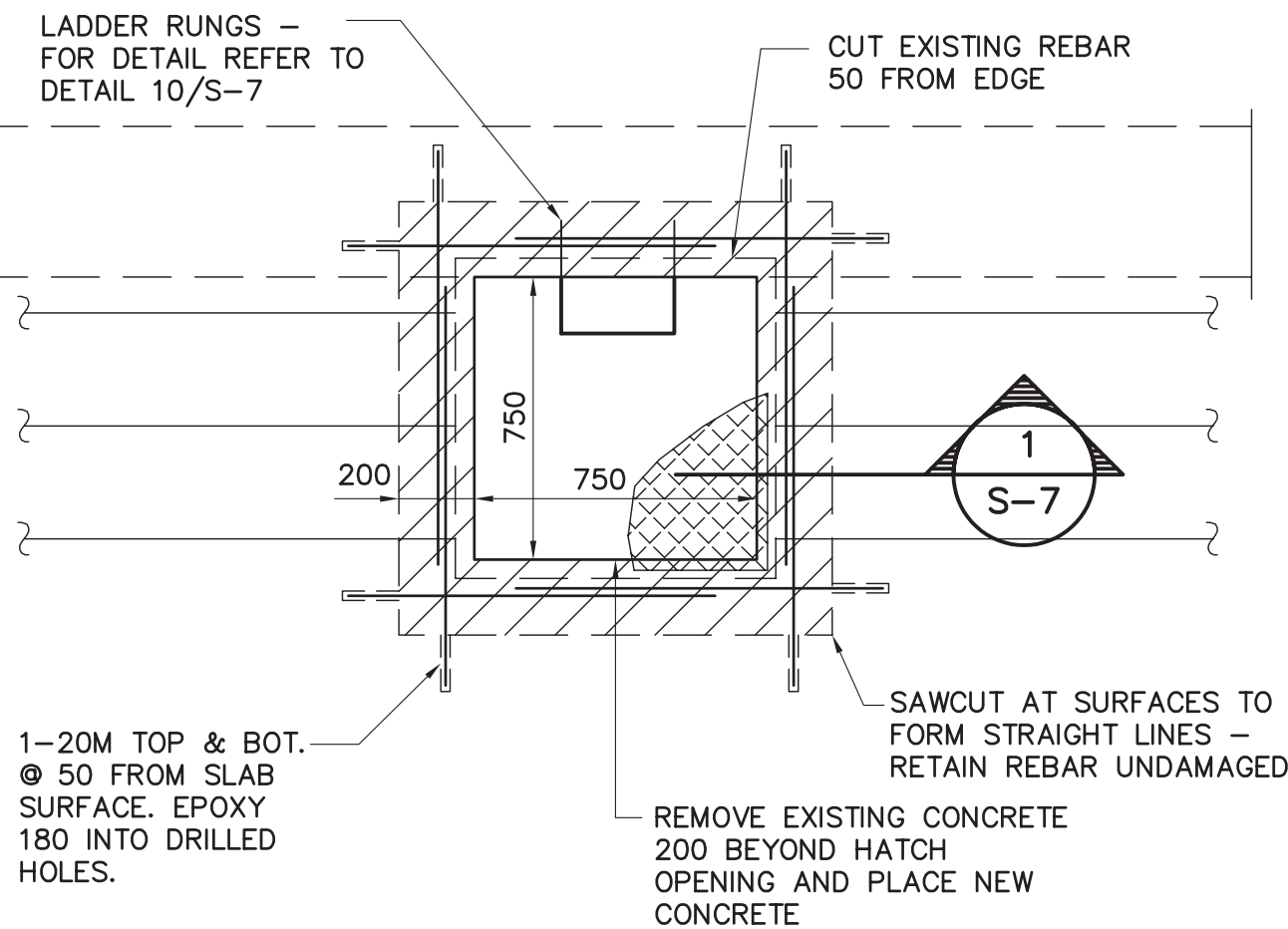
CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

EARTH TECH			
Earth Tech (Canada) Inc.			
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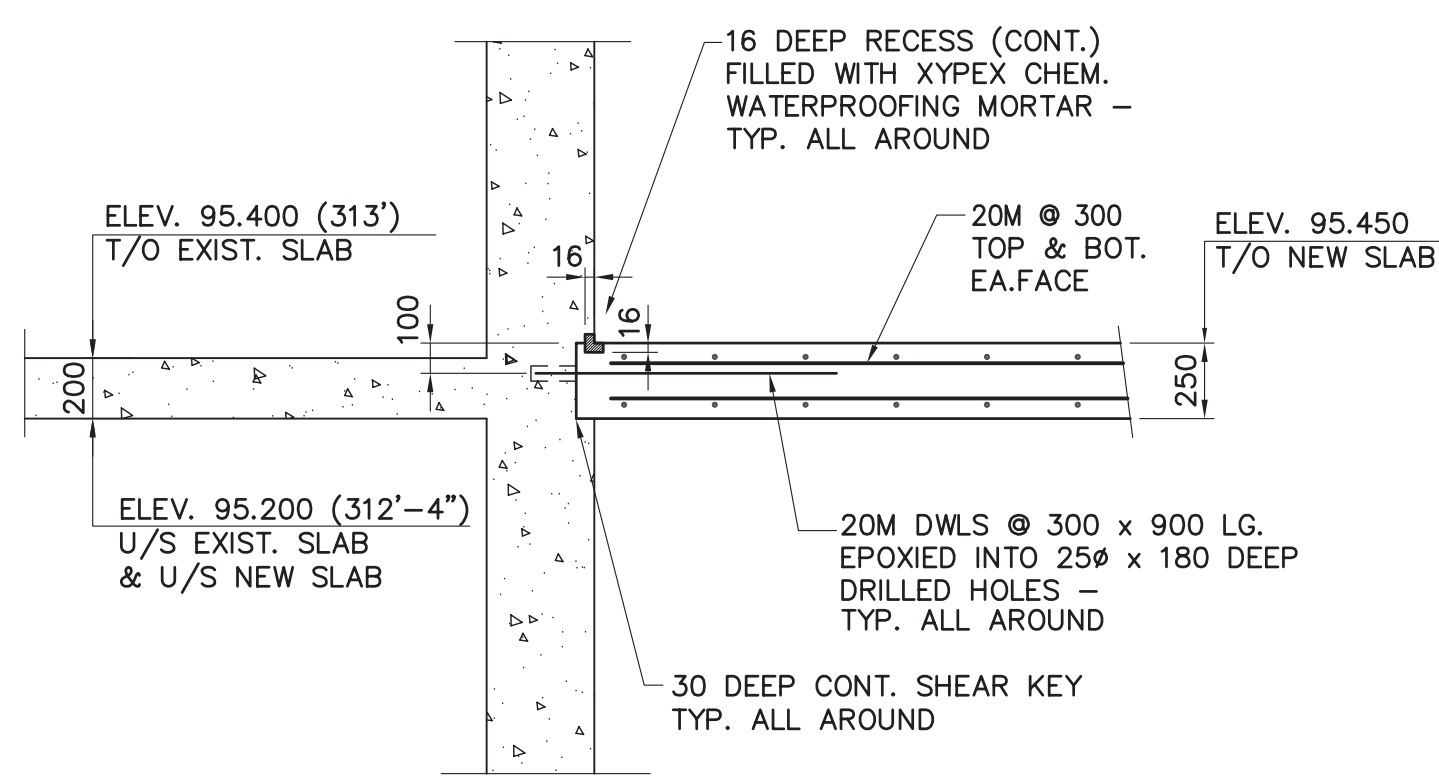
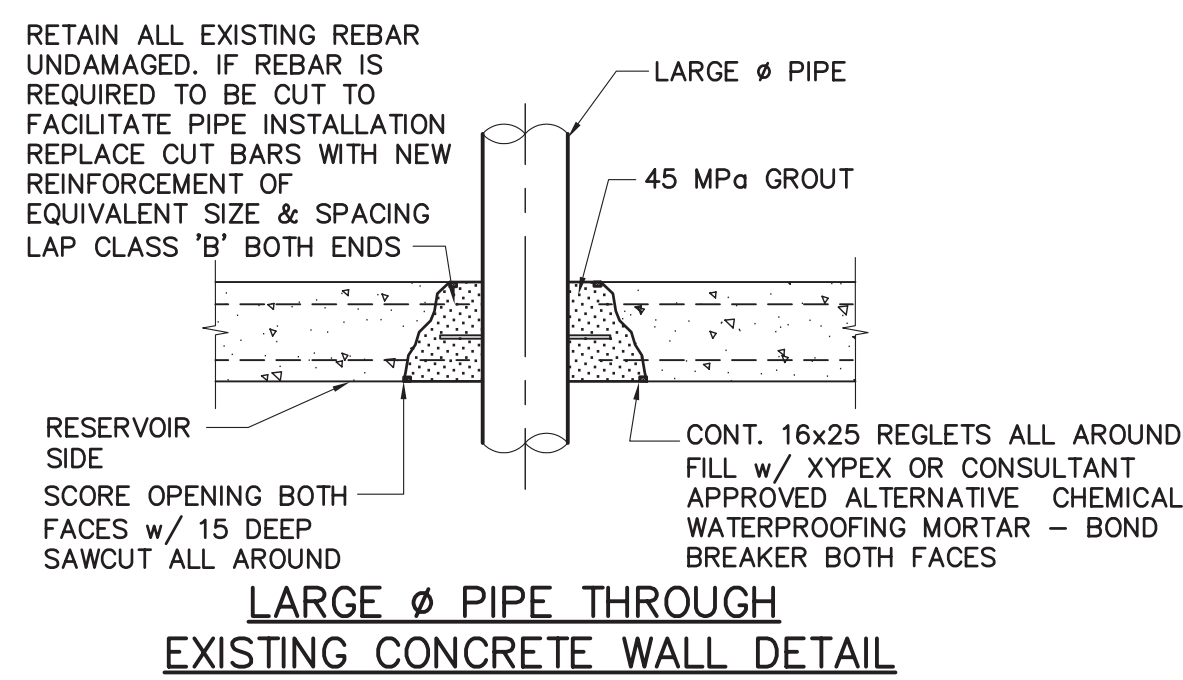
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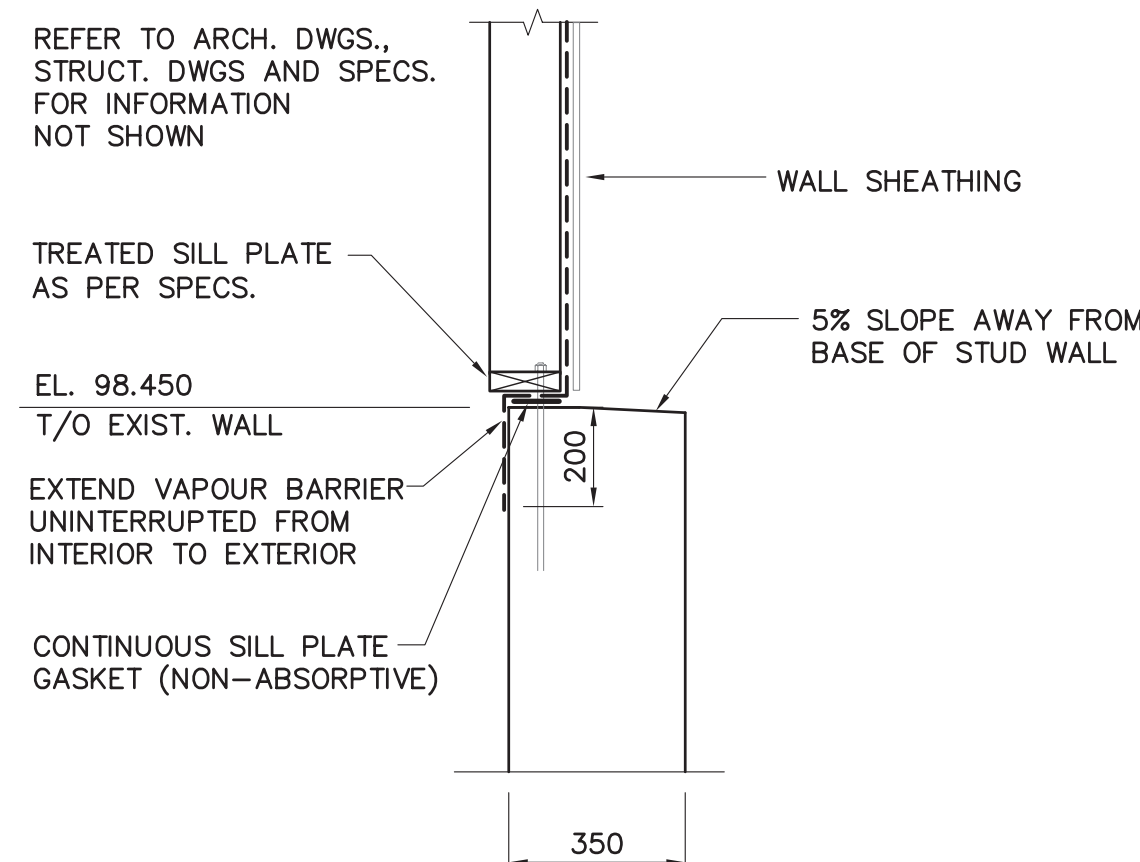
1 DETAIL
S-4 SCALE 1:25



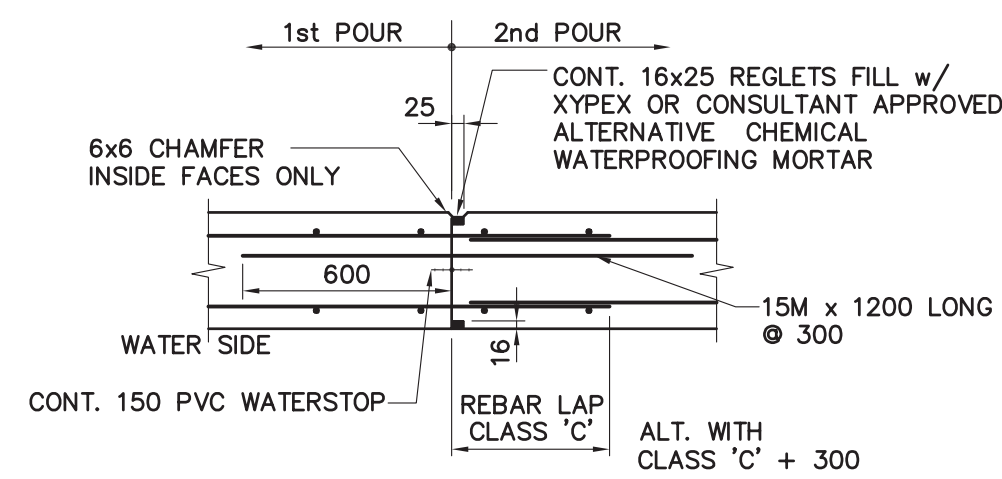
6 NEW ACCESS DETAIL
S-5 SCALE 1:20



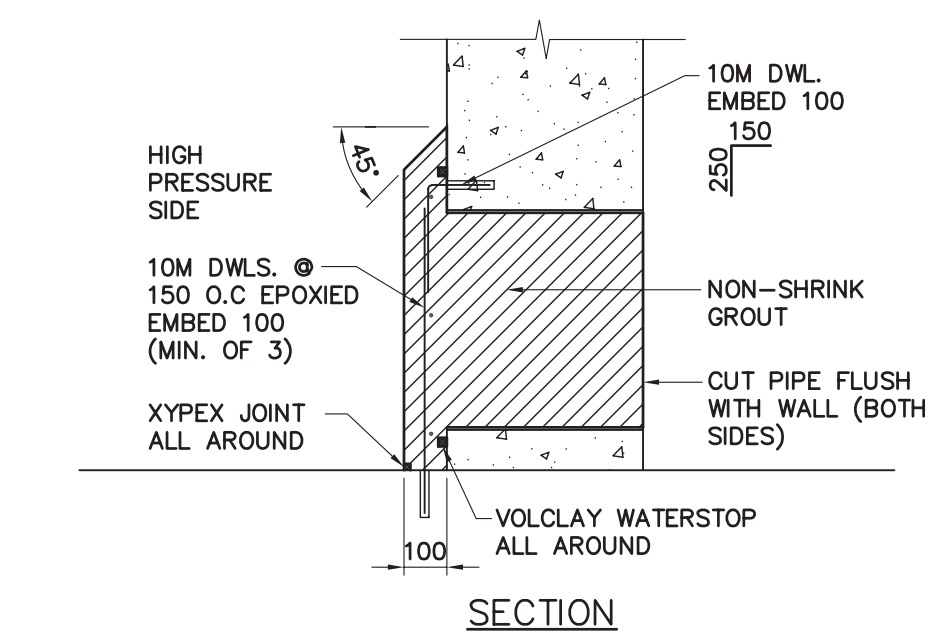
2 DETAIL
S-8 SCALE 1:25



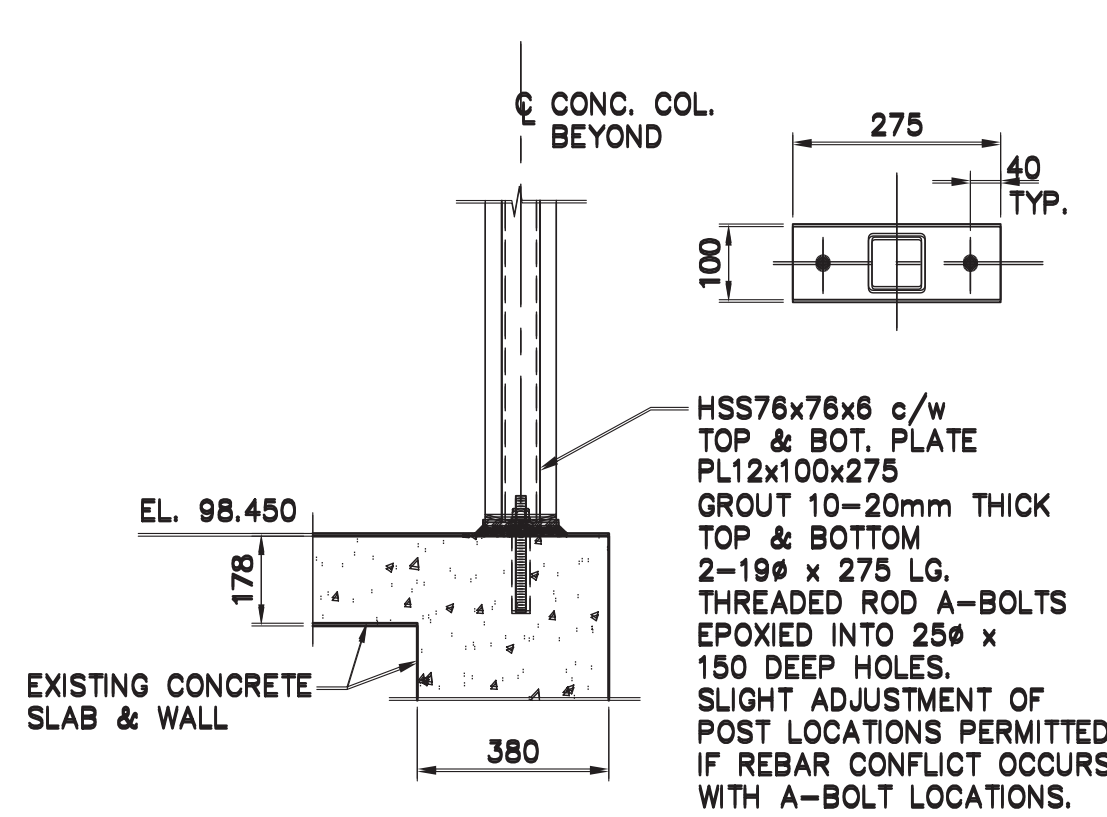
7 DETAIL
S-6 SCALE 1:15



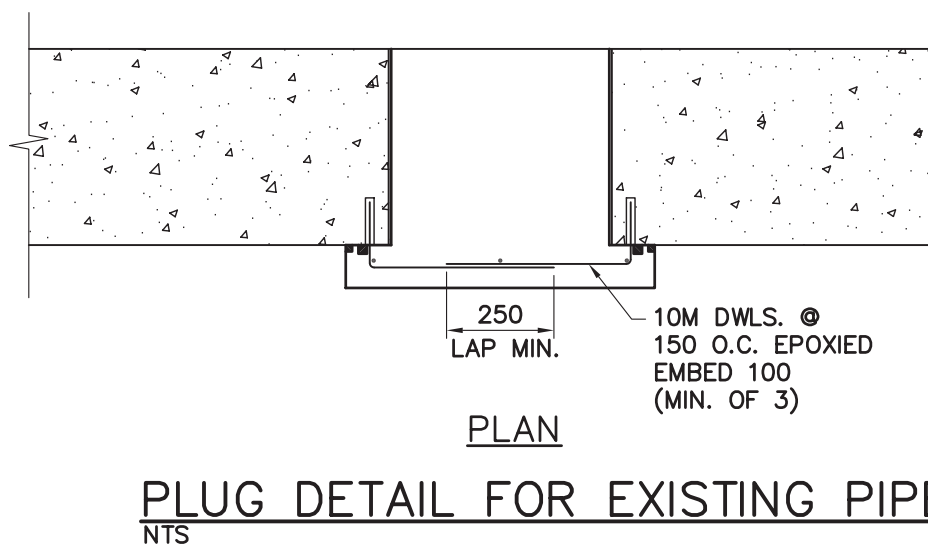
WALL CONSTR. JOINT DETAIL



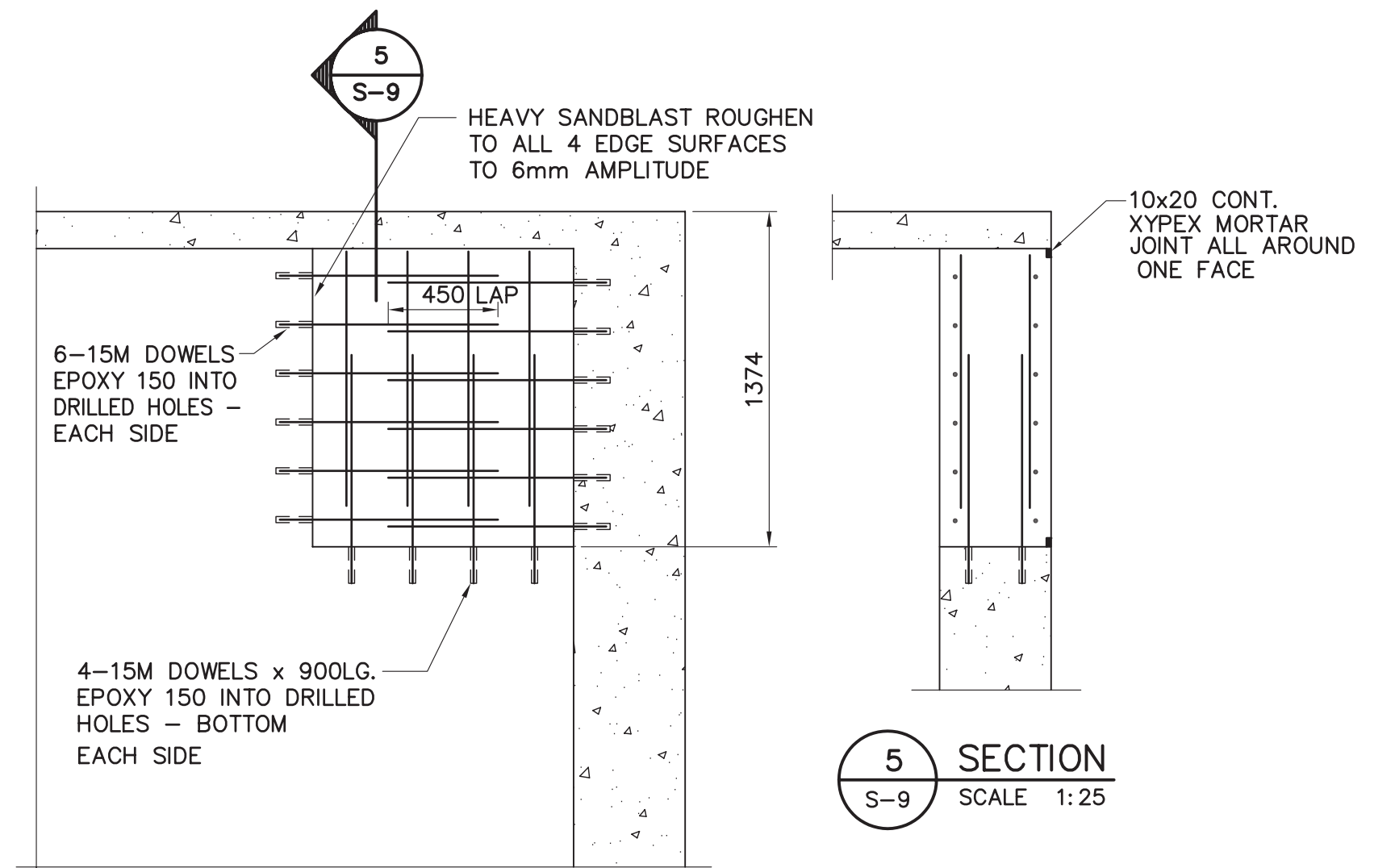
3 WALL/SLAB CLOSURE DETAIL
S-5 SCALE 1:20 FOR HOLES <410mm ϕ



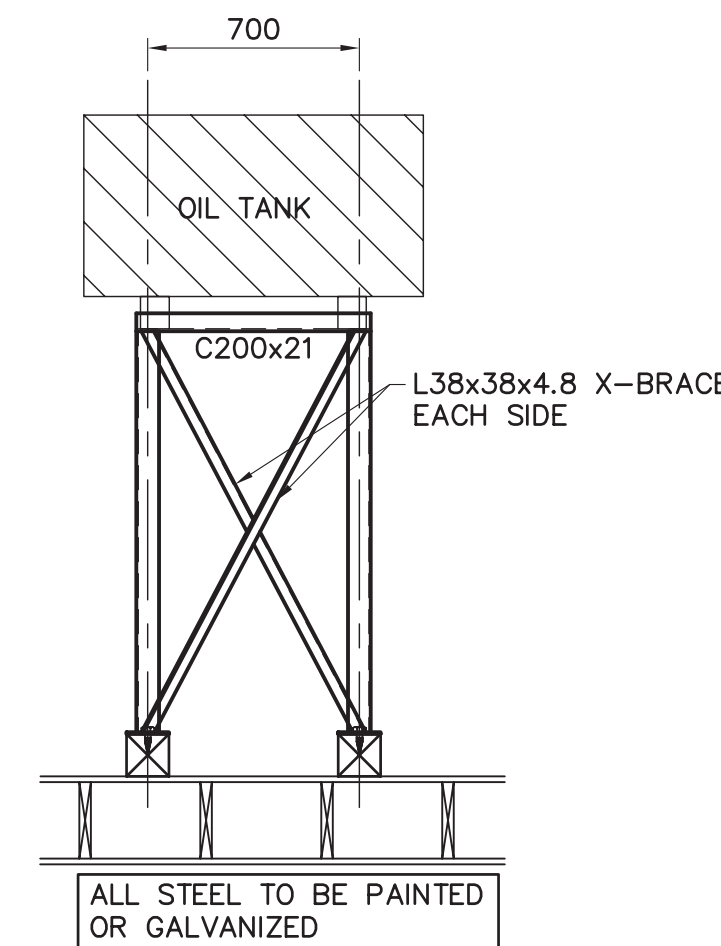
8 SECTION
S-5 SCALE 1:15



4 WALL CLOSURE DETAIL
S-5 SCALE 1:25



5 SECTION
S-9 SCALE 1:25



9 SECTION
S-5 SCALE 1:25

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- REFERENCE : INFORMATION PRESENTED ON THIS DRAWING DESCRIBING EXISTING STRUCTURE FROM CONTRACT NO. CA-62-1-28 DRAWINGS.
- ALL EXISTING WALLS AND SLABS ARE REINFORCED CONCRETE. REINFORCEMENT NOT INDICATED.
- REFER TO DEPARTMENT OF PUBLIC WORKS CANADA - WATER TREATMENT AND WATER SUPPLY DRAWINGS FOR FROBISHER BAY N.W.T. CONTRACT NO. CA-62-1-28 FOR DETAILS DESCRIBING EXISTING STRUCTURE.

NO.	REVISION	DATE	INITIAL
2	RECORD DRAWING	23/04/04	
1	ISSUED FOR CONSTRUCTION	22/04/03	

Company Permit	Engineer Seal
RECORD DRAWING INFORMATION CONTAINED IN THESE DRAWINGS IS AS SUPPLIED BY: NINETY NORTH CONSTRUCTION & DEVELOPMENT LTD. THE COMPLETENESS AND ACCURACY OF THIS RECORD DRAWING IS NOT GUARANTEED. INFORMATION SHOULD BE VERIFIED AT THE ACTUAL LOCATION BEFORE USE.	

STRUCTURAL
SECTIONS AND DETAILS

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CITY OF IQALUIT
IQALUIT WATER TREATMENT PLANT

EARTH TECH			
Earth Tech (Canada) Inc.			
DRAWN BY: BL	SCALE: AS NOTED	DATE: APRIL 22, 2003	SHEET NO.
CHECKED BY: GJK	DWG NO.	REV. 1	CONTRACT 55524
CADD SYSTEM AutoCAD	S-9		

