CONSTRUCTION DRAWINGS

for

Fisheries and Oceans Canada

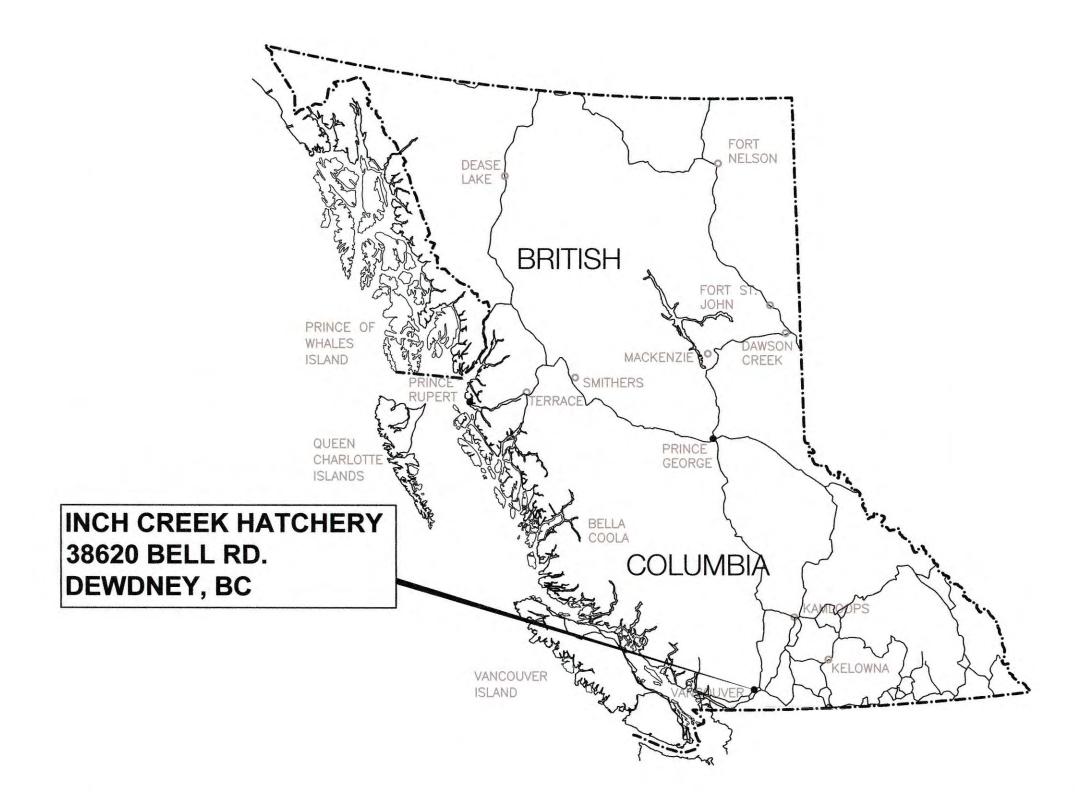
Inch Creek Hatchery – Well #5 Water Supply and Drainage Upgrade

July 2018

* FISHERIES AND OCEANS CANADA **INCH CREEK HATCHERY WELL #5 WATER SUPPLY AND DRAINAGE UPGRADES**

LEGEND	EXISTING	PROPOSED
WELL	Ø	
IRON PIN	٥IP	
EDGE GRAVEL ROAD		
EDGE PAVED ROAD		
SANITARY MANHOLE & SEWER	OEX.100/S	MH 200/S
WATERMAIN	EX.100/W	200/W
HYDRANT ASSEMBLY	<u> </u>	+
GATE VALVE	\bowtie	м
AIR RELEASE VALVE		۲
DITCH		
CULVERT	>	\succ
POWER POLE	.	
FENCE	-0000	
TEMPORARY FENCE		





DRAWING LIST

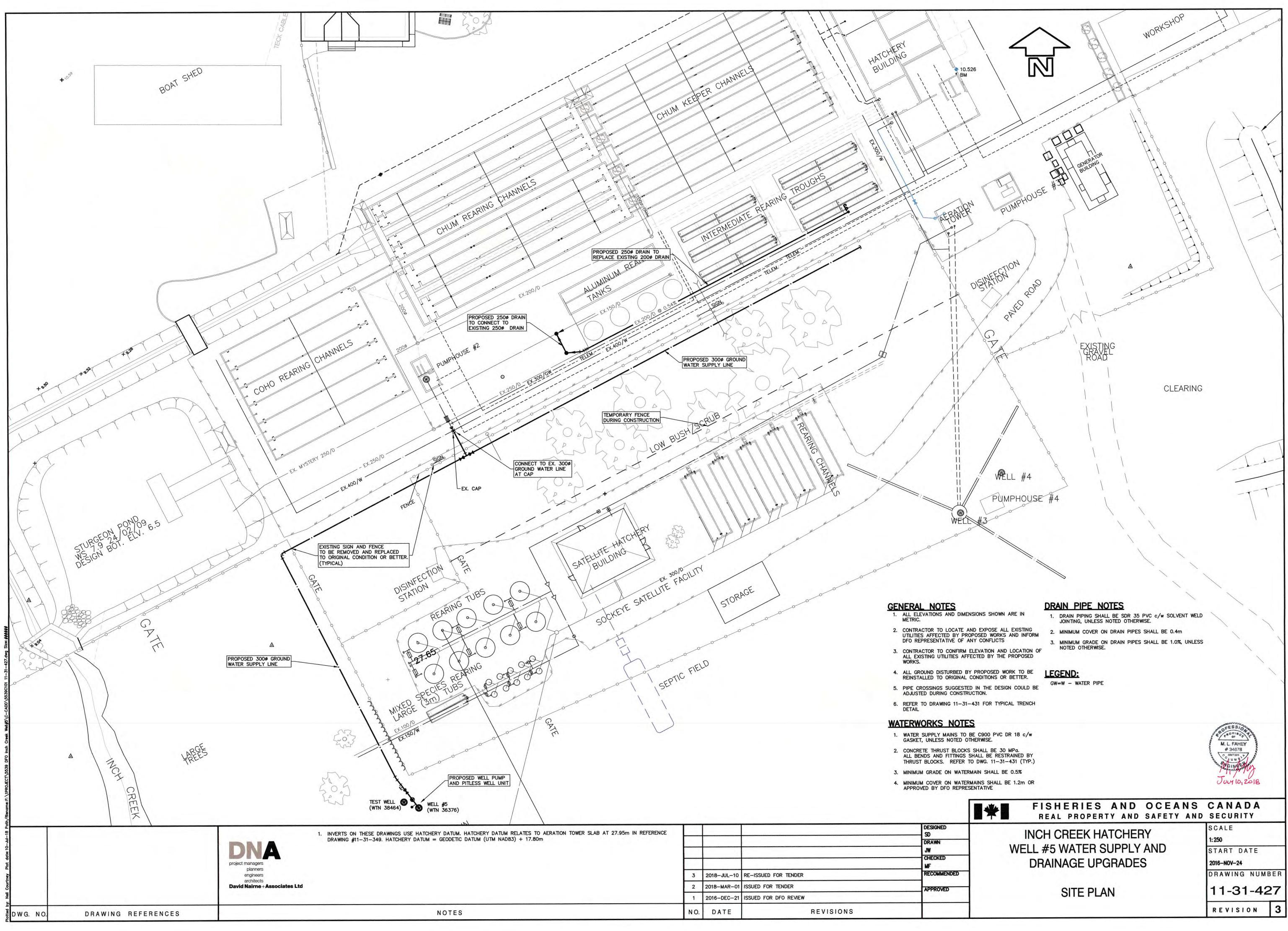
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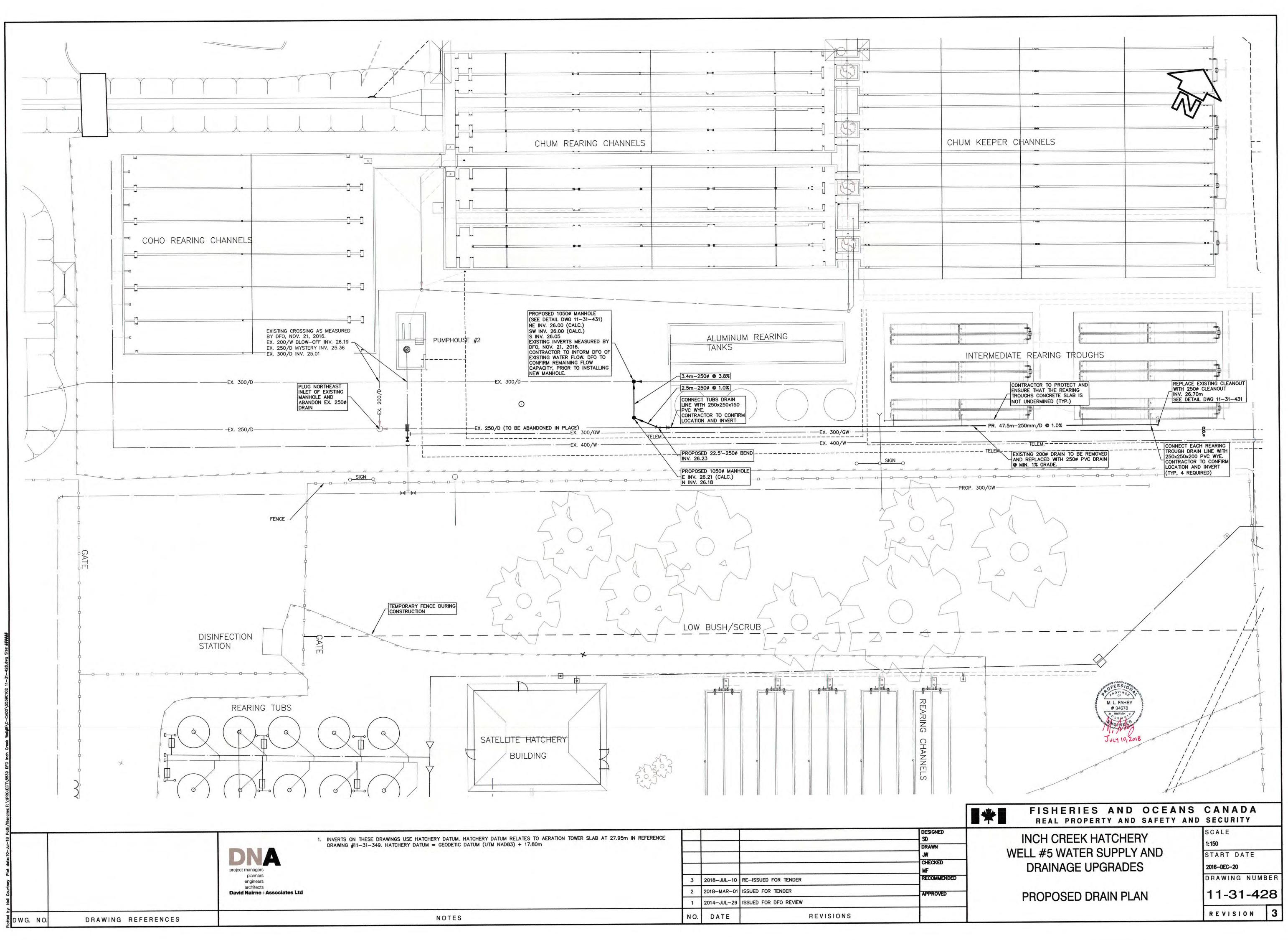
COVER	DRAWING LIST, LOCATION MAP AND LEGEND
11-31-427	SITE PLAN
11-31-428	PROPOSED DRAIN PLAN
11-31-429	PROPOSED WATER SUPPLY LINE
11-31-430	WELL No. 5 DETAILS
11-31-431	MISCELLANEOUS DETAILS



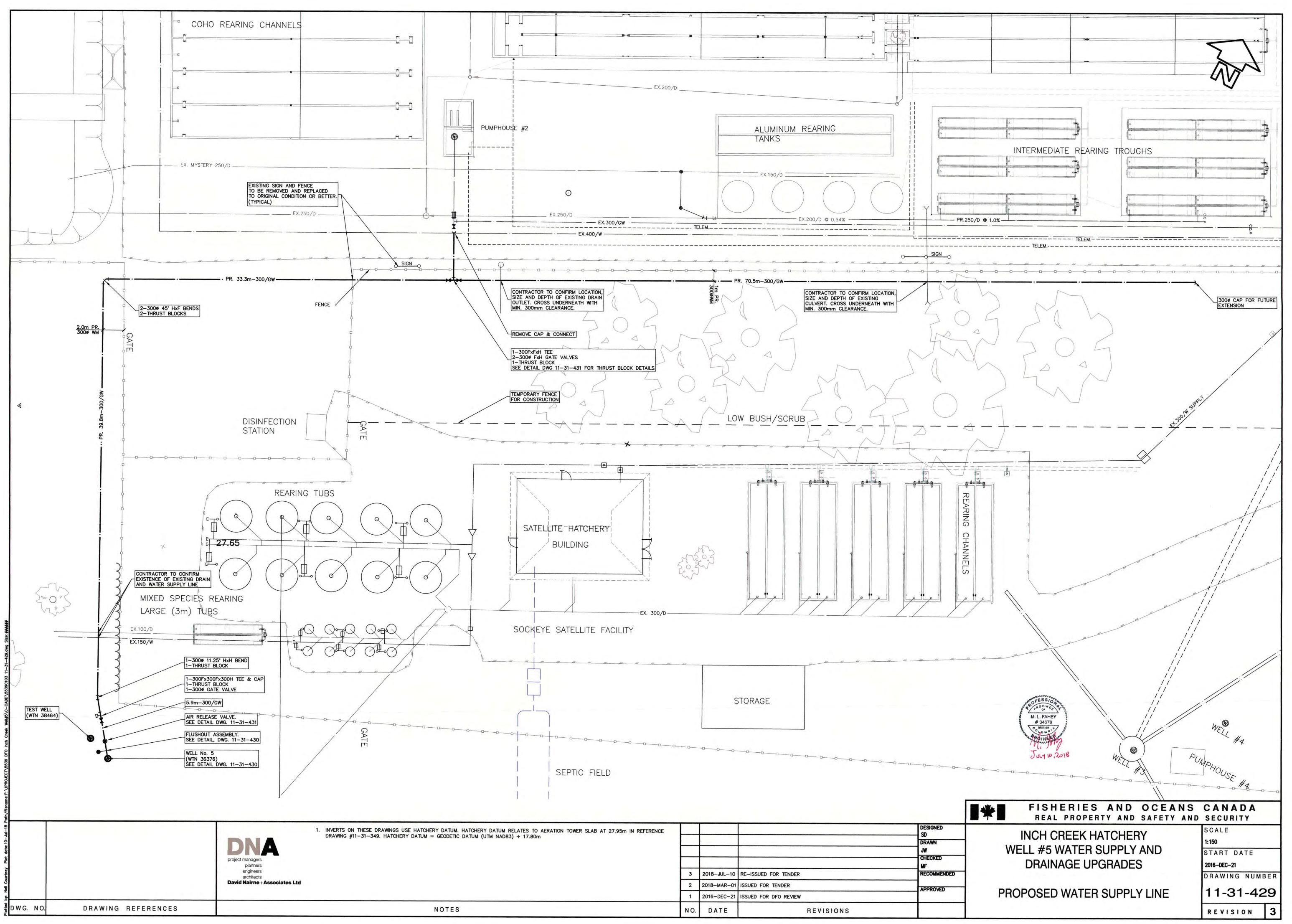
5539

RE-ISSUED FOR TENDER JULY 10, 2018

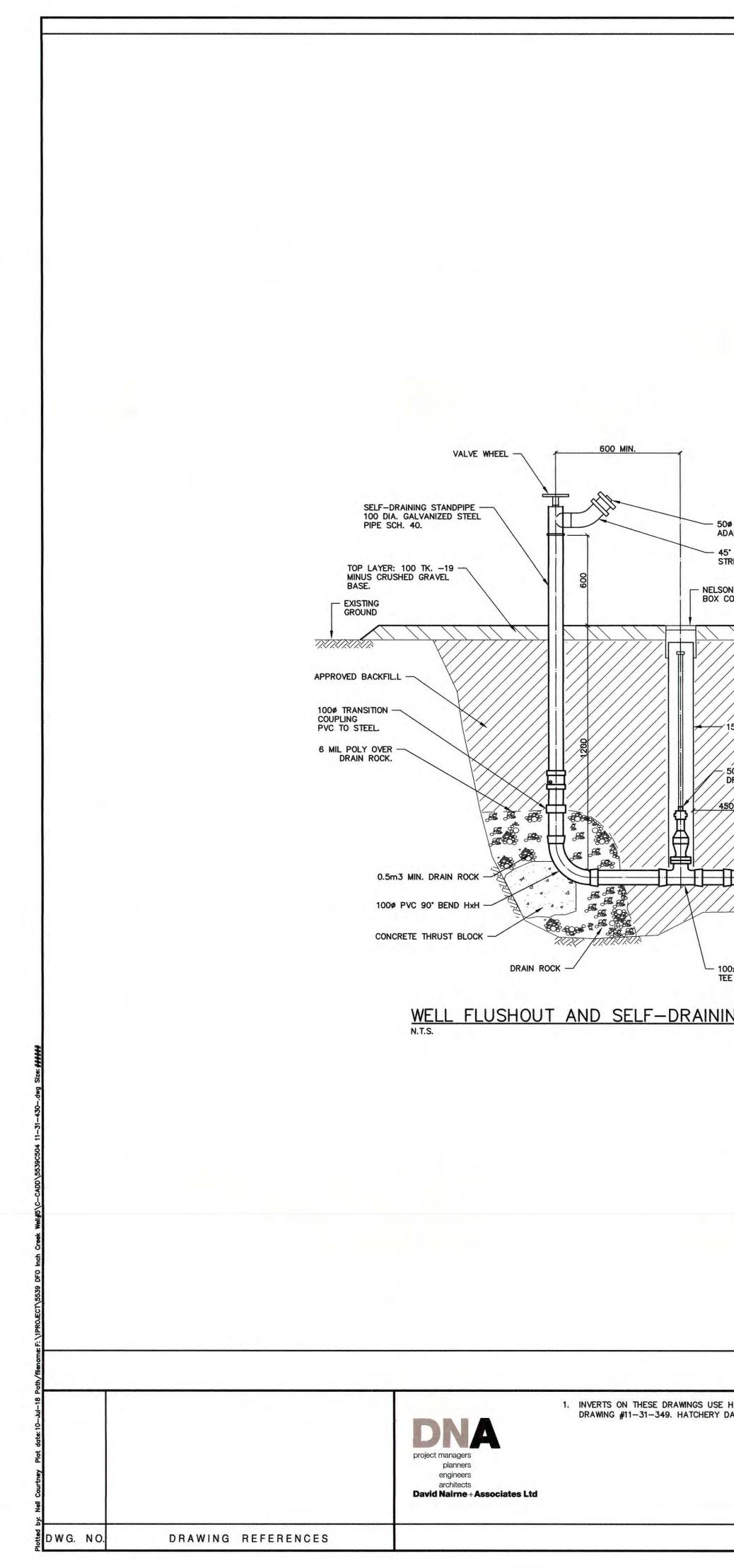


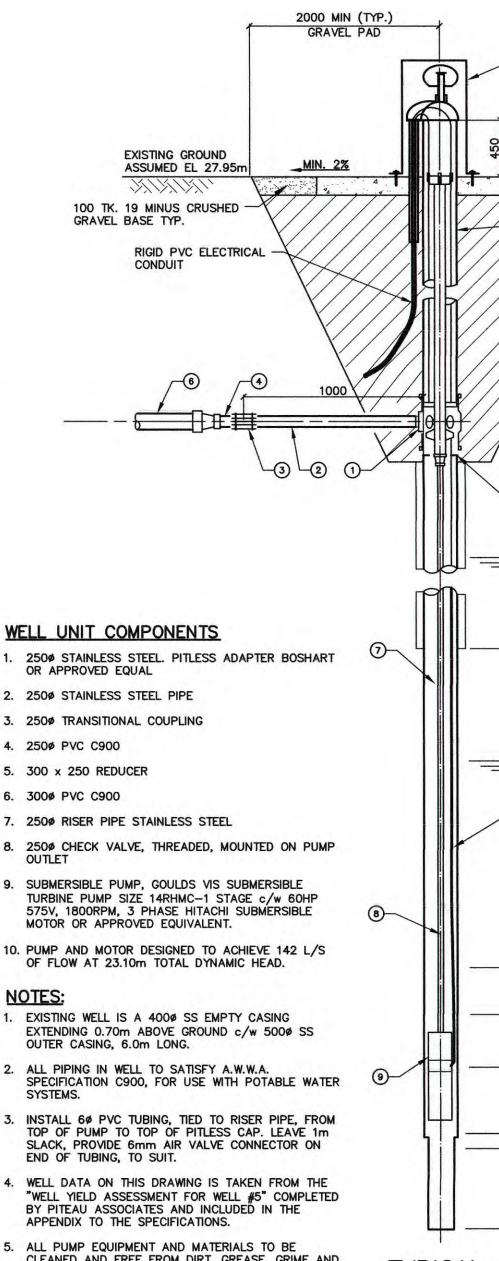


	and the second se			
SE HATCHERY DATUM. HATCHERY DATUM RELATES TO AERATION TOWER SLAB AT 27.95m IN REFERENCE Y DATUM = GEODETIC DATUM (UTM NAD83) + 17.80m				
	3	2018-JUL-10	RE-ISSUED FOR TENDER	
	2	2018-MAR-01	ISSUED FOR TENDER	
	1	2014-JUL-29	ISSUED FOR DFO REVIEW	
NOTES	NO.	DATE	REVISIONS	

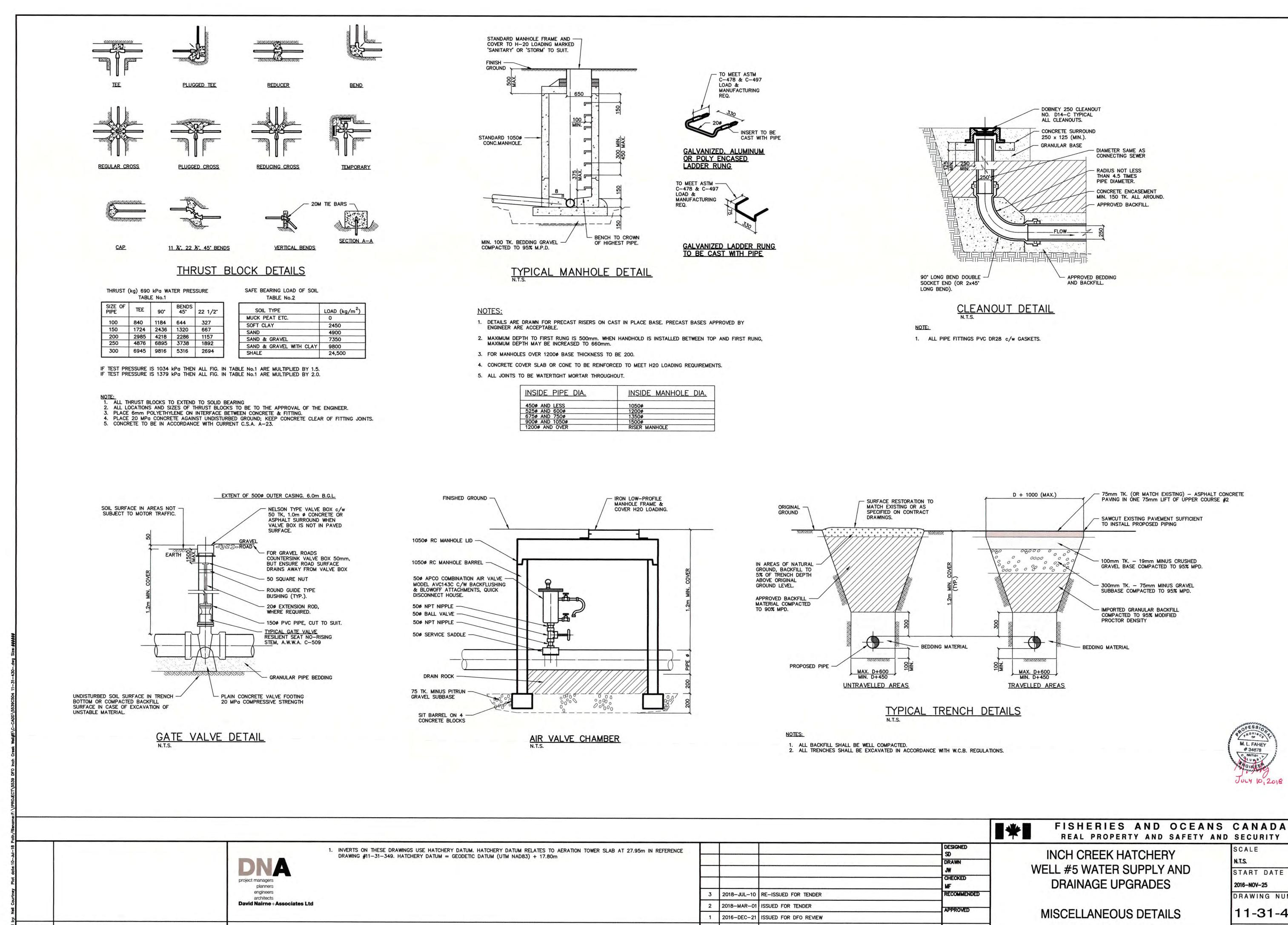


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	EXISTING GROUND ASSUMED EL 27.95 100 TK. 19 MINUS CRUSHEI GRAVEL BASE TYP. RIGID PVC ELECT CONDUIT		LOCKABLE METAL BOX BOLTED DOWN TO CONCRETE SLAB. INSTALL 1.2m SQUARE CONC. PAD x 100mm TK. SLOPE PAD AWAY FROM WELL. MIN. 2%_ PROPOSED MAAS MODEL NI DISCHARGE PIPE WELD-ON PITLESS ADAPTER c/w WAT WITH SCREENED AIR VENT CONDUIT CONNECTION. (OR APPROVED EQUIVALENT BACKFILL MATERIAL: APPROVED COMPACTED FINI OR FINE GRAINED SILT WITH THAN 0.01mm	TERTIGHT WELL CAP AND SEALED T) IE GRAINED SAND	
OØ FIRE HOSE DAPTER & CAP. IS' GALV. STREET ELBOW. GROUND GROUND			CUT EXIST. WELL CASING SUFFICIENT TO INSTALL WELL UNIT TO 4000 CASING. PROPERLY GROUT (5000 AND 4000 CASINGS. 		
TSO DIA. PVC PIPE	 WELL UNIT COMPONENTS 1. 250¢ STAINLESS STEEL. PITLESS AN OR APPROVED EQUAL 2. 250¢ STAINLESS STEEL PIPE 3. 250¢ TRANSITIONAL COUPLING 4. 250¢ PVC C900 5. 300 × 250 REDUCER 6. 300¢ PVC C900 7. 250¢ RISER PIPE STAINLESS STEEL 8. 250¢ CHECK VALVE, THREADED, MC OUTLET 9. SUBMERSIBLE PUMP, GOULDS VIS S TURBINE PUMP SIZE 14RHMC-1 ST/ 575V, 1800RPM, 3 PHASE HITACHI MOTOR OR APPROVED EQUIVALENT. 10. PUMP AND MOTOR DESIGNED TO AN OF FLOW AT 23.10m TOTAL DYNAM MOTES: 11. EXISTING WELL IS A 400¢ SS EMPT EXTENDING 0.70m ABOVE GROUND OUTER CASING, 6.0m LONG. 2. ALL PIPING IN WELL TO SATISFY A. SPECIFICATION C900, FOR USE WIT SYSTEMS. 3. INSTALL 6¢ PVC TUBING, TED TO F TOP OF PUMP TO TOP OF PITLESS SLACK, PROVIDE 6mm AIR VALVE O END OF TUBING, TO SUIT. 4. WELL DATA ON THIS DRAWING IS T 	DUNTED ON PUMP UBMERSIBLE AGE c/w 60HP SUBMERSIBLE CHIEVE 142 L/S IC HEAD. Y CASING c/w 500Ø SS W.W.A. 1 POTABLE WATER RISER PIPE, FROM CAP. LEAVE 1m CONNECTOR ON AKEN FROM THE	EXTENT OF 500¢ CASING, 6.00m B.G.L. PROJECTED LONG TERM DRAWDOWN AT 142 W LEVEL MONITORING TUBE FOR WATER LEVA CURED TO RISER PIPE (TERMINATE WITH T-FITTE W LEVEL ALARM 19.2m B.G.L JMP SHUT OFF ELEVATION" ESSURE TRANSDUCER 20.0m B.G.L. FER TO ELECTRICAL SPEC. SECTION 26 70 00 PUMP INTAKE 21.2m B.G.L. TOP OF K-PACKER 22.40m B.G.L. TOP OF SCREEN 23.16m B.G.L.	EL MEASUREMENT	
	 WELL YIELD ASSESSMENT FOR WEL BY PITEAU ASSOCIATES AND INCLU APPENDIX TO THE SPECIFICATIONS. ALL PUMP EQUIPMENT AND MATERI CLEANED AND FREE FROM DIRT, GF ANY OTHER DELETERIOUS OR HAZA PRIOR TO INSTALLATION. 	ALS TO BE REASE, GRIME AND RDOUS MATERIAL <u>TYPICAL WE</u> N.T.S.	BOTTOM OF SCREEN 28.70m B.G.L <u>LL #5 DETAIL</u> OTE: B.G.L. = BELOW GROUND LEVEL.		
					M. L. FAHEY # 34678 O BRITISH JULY 10, 2018
				SHERIES AND OCEANS EAL PROPERTY AND SAFETY AND	
HATCHERY DATUM. HATCHERY DATUM RELATES TO AERATION TOWER SLAB AT 27.95m IN REFERENCE DATUM = GEODETIC DATUM (UTM NAD83) + 17.80m		st	SIGNED	CREEK HATCHERY	SCALE N.T.S.
		JV	WELL #	5 WATER SUPPLY AND	START DATE
	3 2018-JUL-10 RE-ISSUED FOR TENDER	M			2016–NOV–25 DRAWING NUMBER
	2 2018-MAR-01 ISSUED FOR TENDER 1 2016-DEC-21 ISSUED FOR DFO REVIEW	AF	PROVED	VELL #5 DETAILS	11-31-430
NOTES	NO. DATE	REVISIONS			REVISION 3
					And the second se



REVISIONS

DATE

NO.

NOTES

DRAWING REFERENCES

DWG. NO

	FISHERIES AND OCEAN REAL PROPERTY AND SAFETY A	
DESIGNED SD DRAWN	INCH CREEK HATCHERY	SCALE N.T.S.
JW CHECKED MF	WELL #5 WATER SUPPLY AND DRAINAGE UPGRADES	START DATE 2016-NOV-25
RECOMMENDED		DRAWING NUMBER
	MISCELLANEOUS DETAILS	11-31-431 REVISION 3



DRAWING

- 11-31-471
- 11-31-472
- 11-31-473
- 11-31-474

FISHERIES AND OCEANS CANADA INCH CREEK HATCHERY-WELL #5 WATER SUPPLY & DRAINAGE UPGRADES

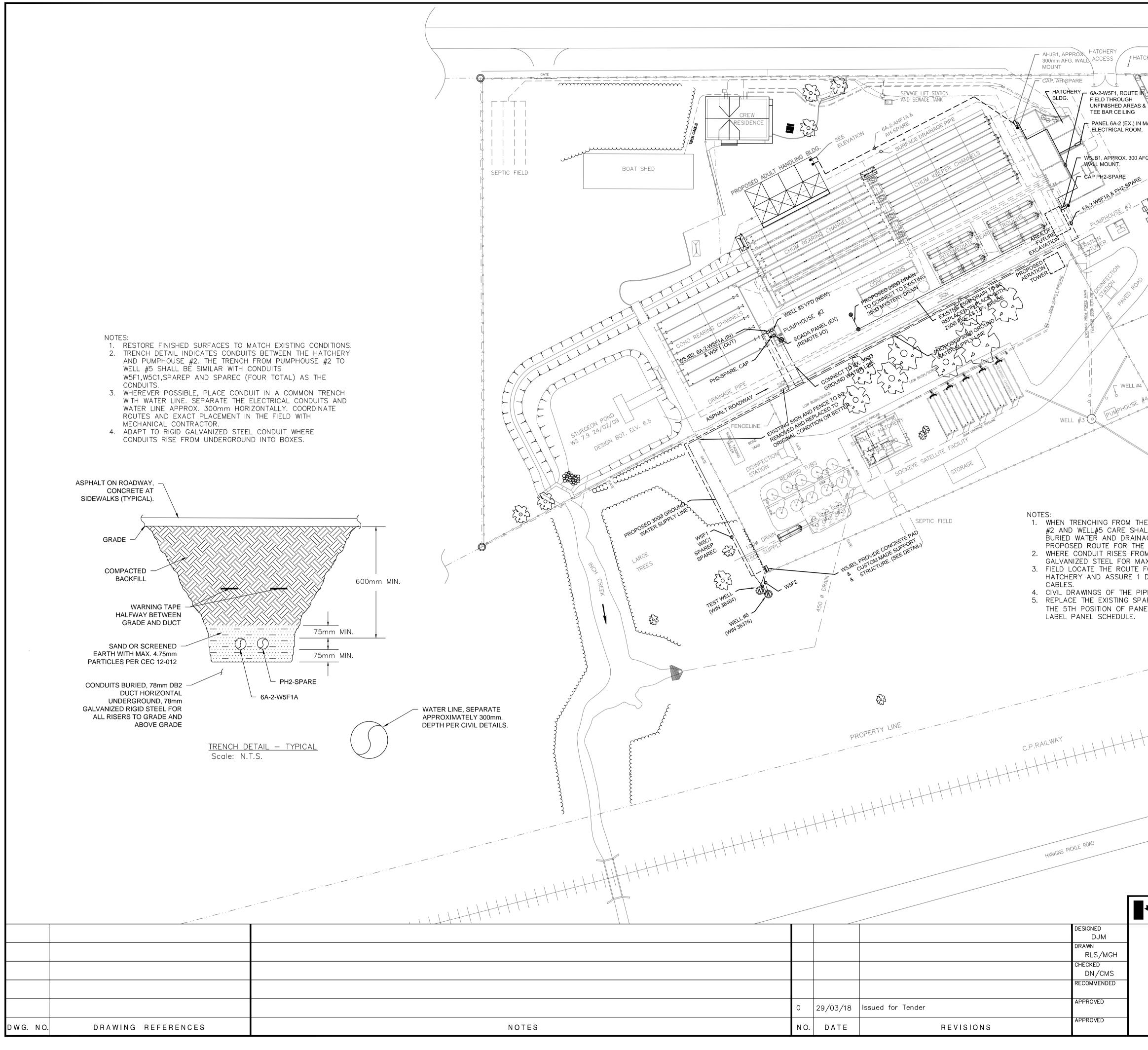
LIST OF ELECTRICAL AND CONTROL DRAWINGS

G #	DRAWING TITLE
REV 0	ELECTRICAL SITE PLAN
REV 0	SITE SINGLE LINE DIAGRAM
REV 0	PH2 LAYOUT & SYSTEM BLOCK
REV 0	WELL #5 SCHEMATIC DIAGRAM

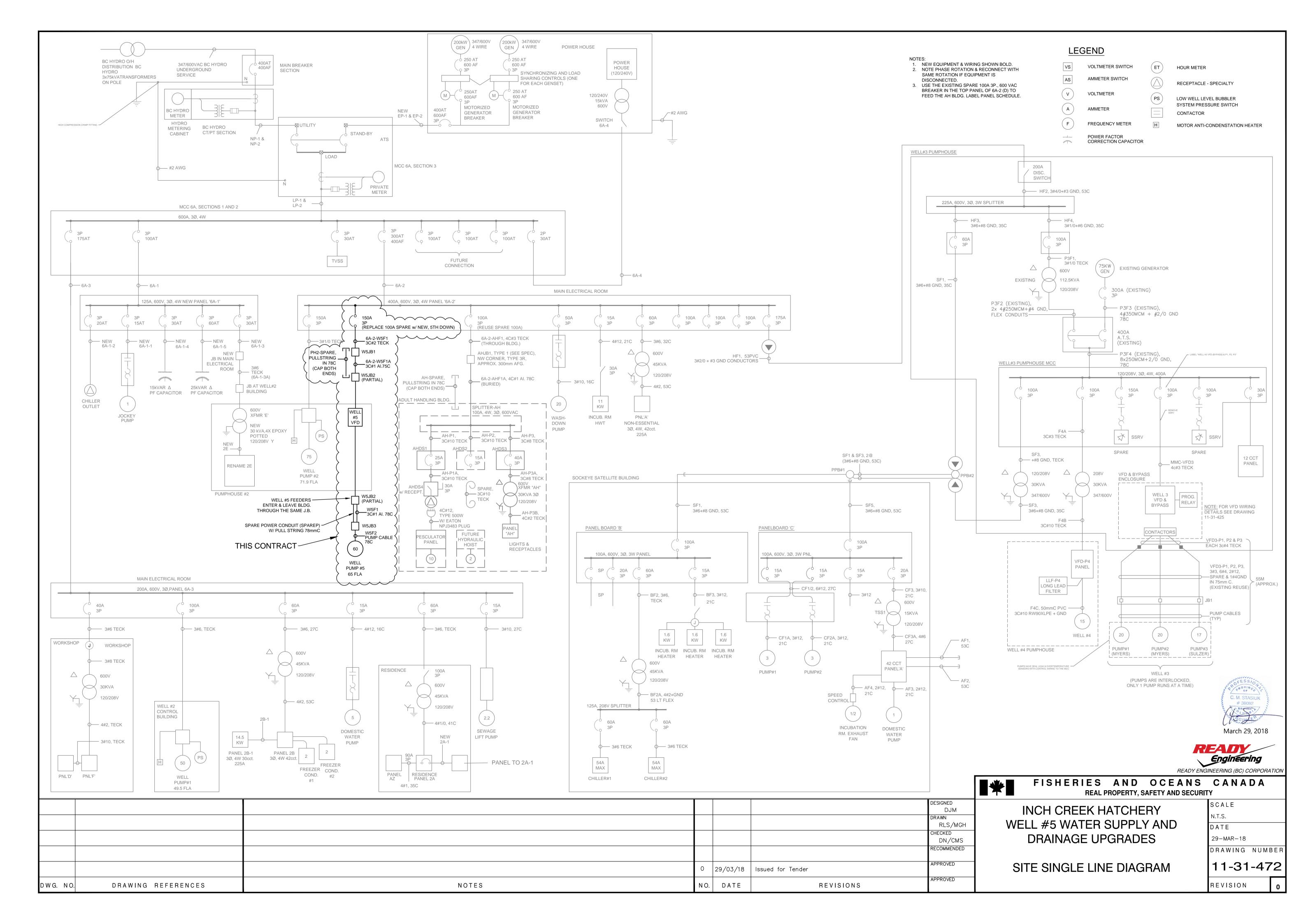
DIAGRAM

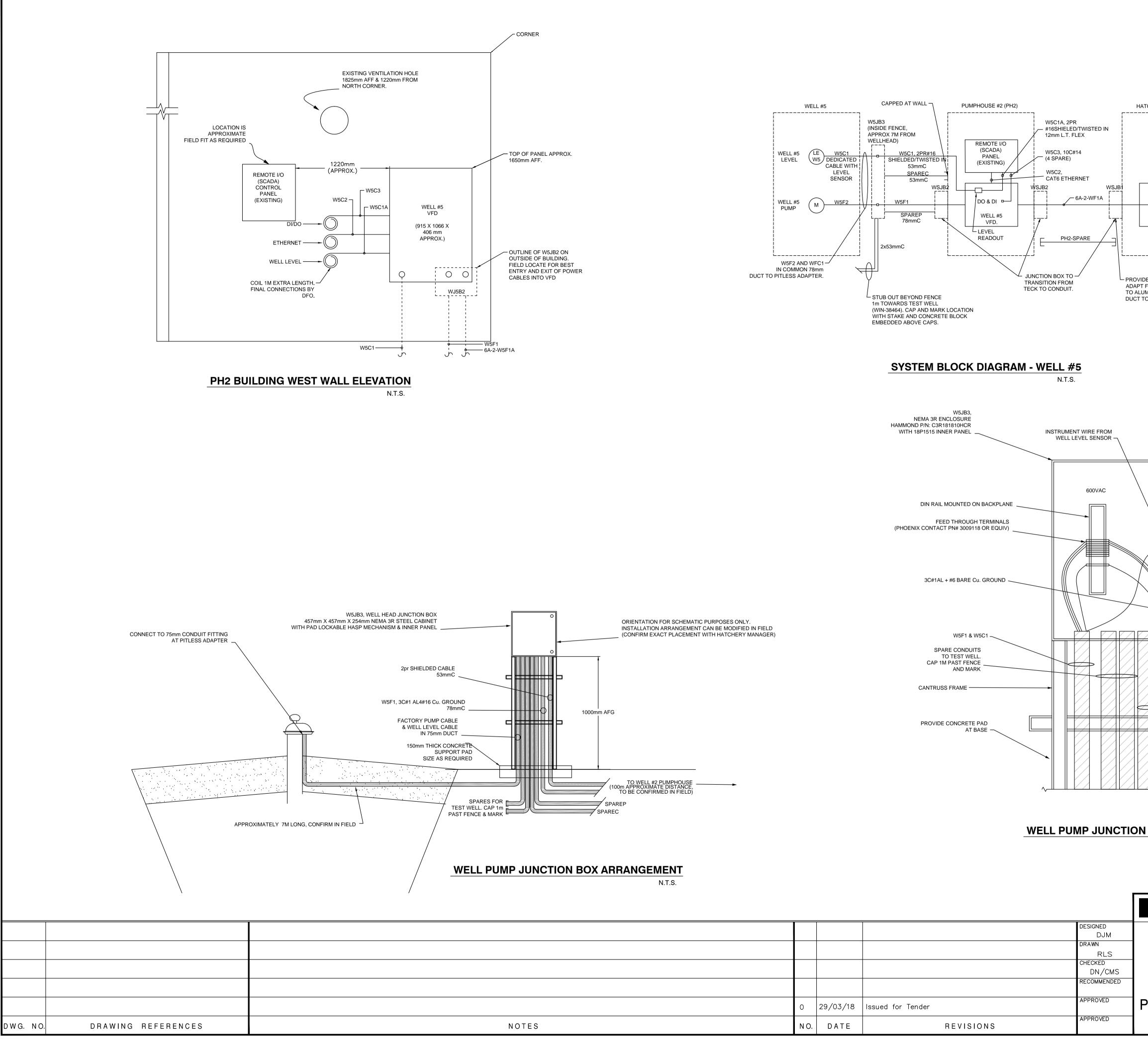


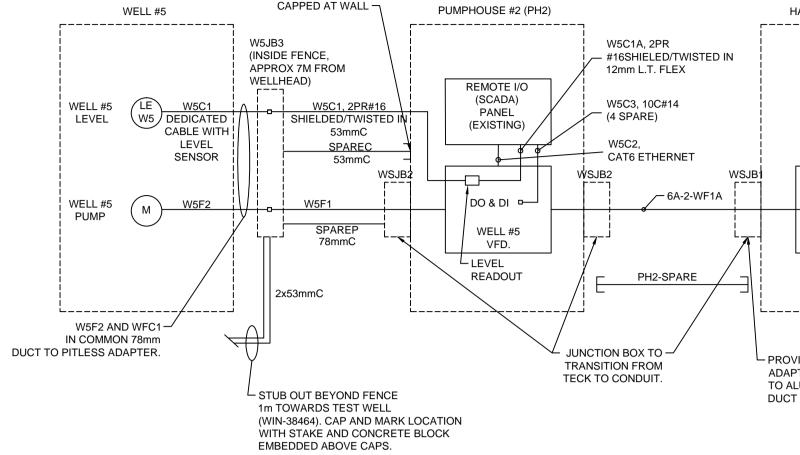


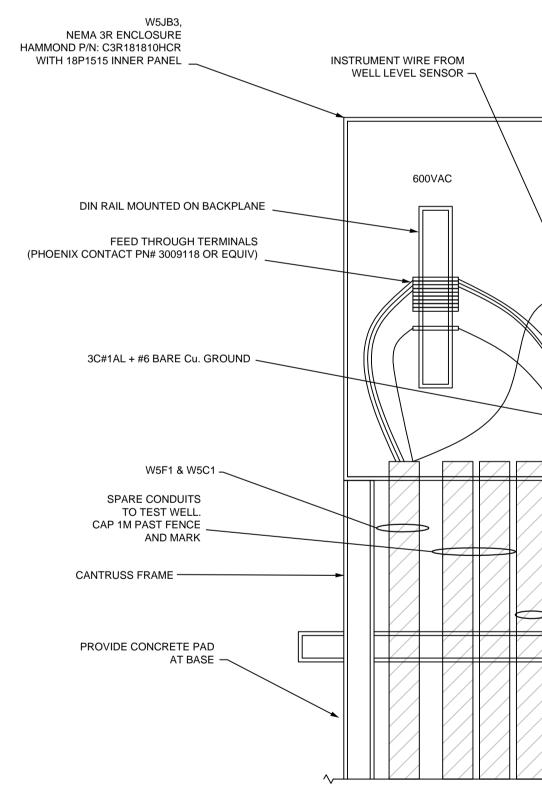


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	· 	
E HATCHERY BLDG. TO PUMPHOUSE		
AGE PIPING RUNNING NEAR TO THE E BURIED CONDUIT. OM BELOW GRADE, ADAPT TO RIGID		
AXIMUM MECHANICAL PROTECTION. FOR 6A-2-W5F1 THROUGH THE		
DIAMETER SPACING FROM OTHER PING. ARE AVAILABLE ON REQUEST.		
ARE 100A, 3P, 600VAC BREAKER IN EL 6A-2 (D) TO FEED WELL#5.		
	1000000ce	
	ALL ROVINCE VILLE	
	C. M. STASIUK # 38082	
	Contraction of the second	-
	March 29, 2018	
	EADY	-
SCALE 1:500	Engineering NEERING (BC) CORPORA	TION
FISHERIES AND OCEANS		
T REAL PROPERTY, SAFETY AND SECURIT	Y Scale	
INCH CREEK HATCHERY	SCALE 1:500	
WELL #5 WATER SUPPLY AND	DATE	
DRAINAGE UPGRADES	29-MAR-18 DRAWING NUME	
ELECTRICAL SITE PLAN	11-31-47	
	REVISION	0



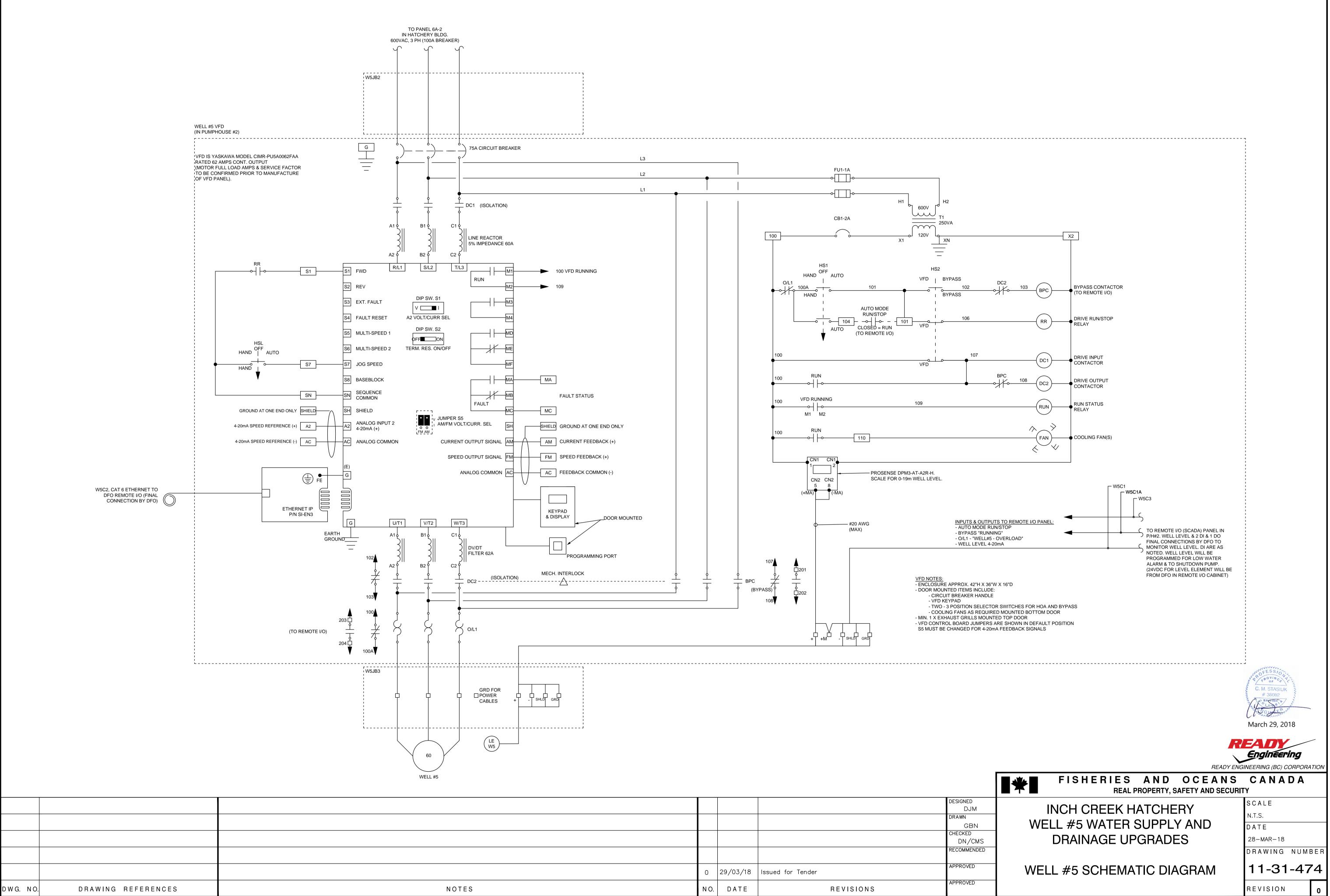








ELECTRICAL ROOM	
PANEL 6A-2 	
DE SPLICES IN JB TO FROM CU. TECK IN BUILDING MINUM CONDUCTORS IN BURIED	
O #5 VFD. <u>NOTES:</u> 1. REFER TO SINGLE LINE DIAGRAM DRAWING 11-3 FOR POWER CABLE SIZES 2. COIL 1M SPARE LENGTH OF CABLES W5C1A, W5 W5C3 AT REMOTE I/O (SCADA) PANEL. FINAL CONNECTIONS WILL BE BY DFO.	
INSTRUMENTATION FEED THROUGH TERMINALS (PHOENIX CONTACT PN# 3044102 OR EQUIV)	
INSTRUMENT WIRE TO PUMPHOUSE #2 (2PR #16 SHIELDED, 1 SPARE PR)	
W5C1 W5F1 SPAREP SPAREC	
	C. M. STASIUK # 38082
BOX ARRANGEMENT	March 29, 2018
	EADY Engineering
FISHERIES AND OCEANS	
■ ■ REAL PROPERTY, SAFETY AND SECURIT INCH CREEK HATCHERY WELL #5 WATER SUPPLY AND DRAINAGE UPGRADES	S C A L E N.T.S. D A T E 29-MAR-18
PH2 LAYOUT & SYSTEM BLOCK DIAGRAM	DRAWING NUMBER 11-31-473 REVISION
	REVISION 0



				DESIGNED	
				DJM	
				DRAWN	
				GBN	
				CHECKED DN/CMS	
				DN/CMS	
				RECOMMENDED	
0	29/03/18	Issued for Tender		APPROVED	
NO.	DATE		REVISIONS	APPROVED	

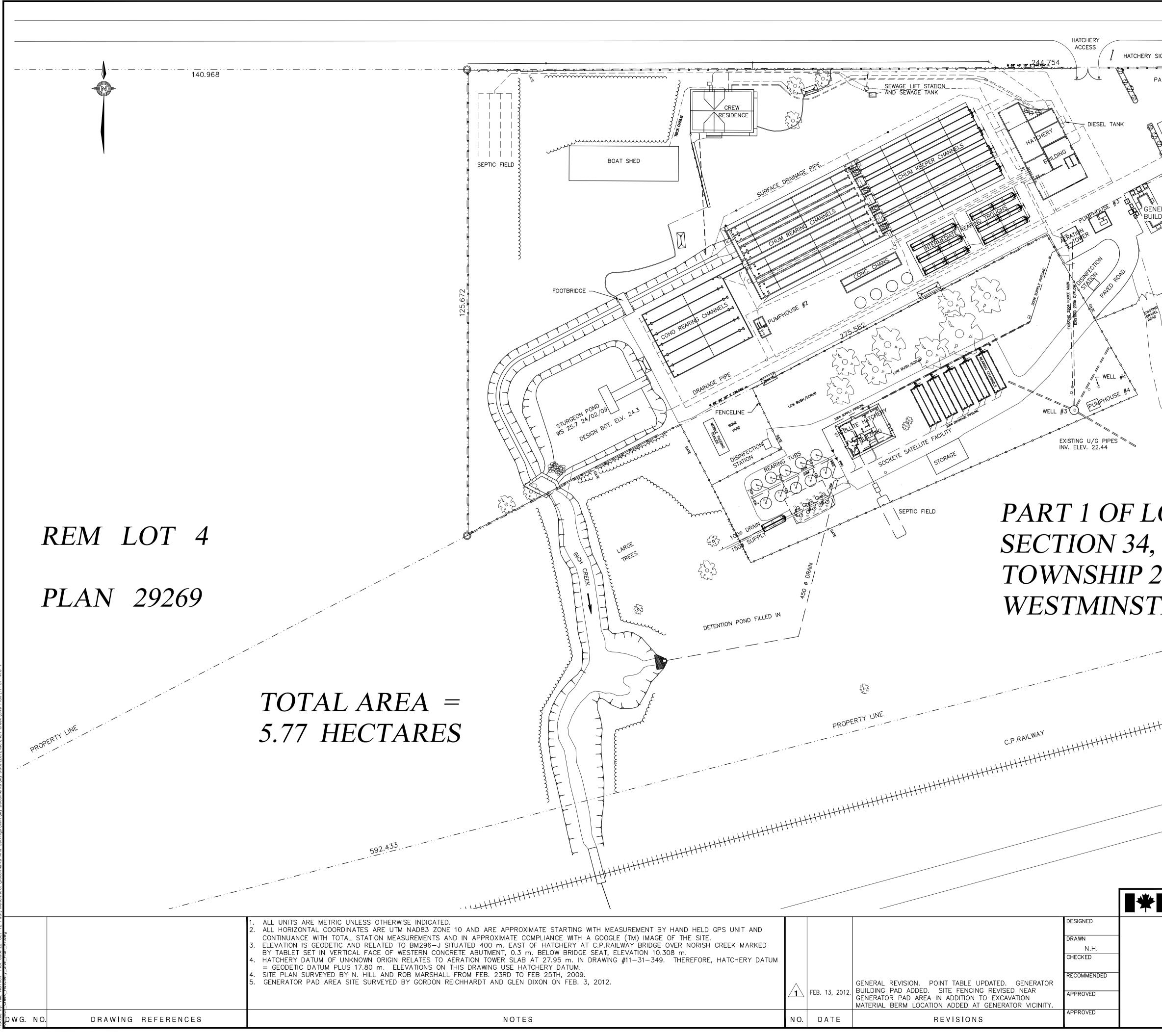
REFERENCE DRAWINGS

for

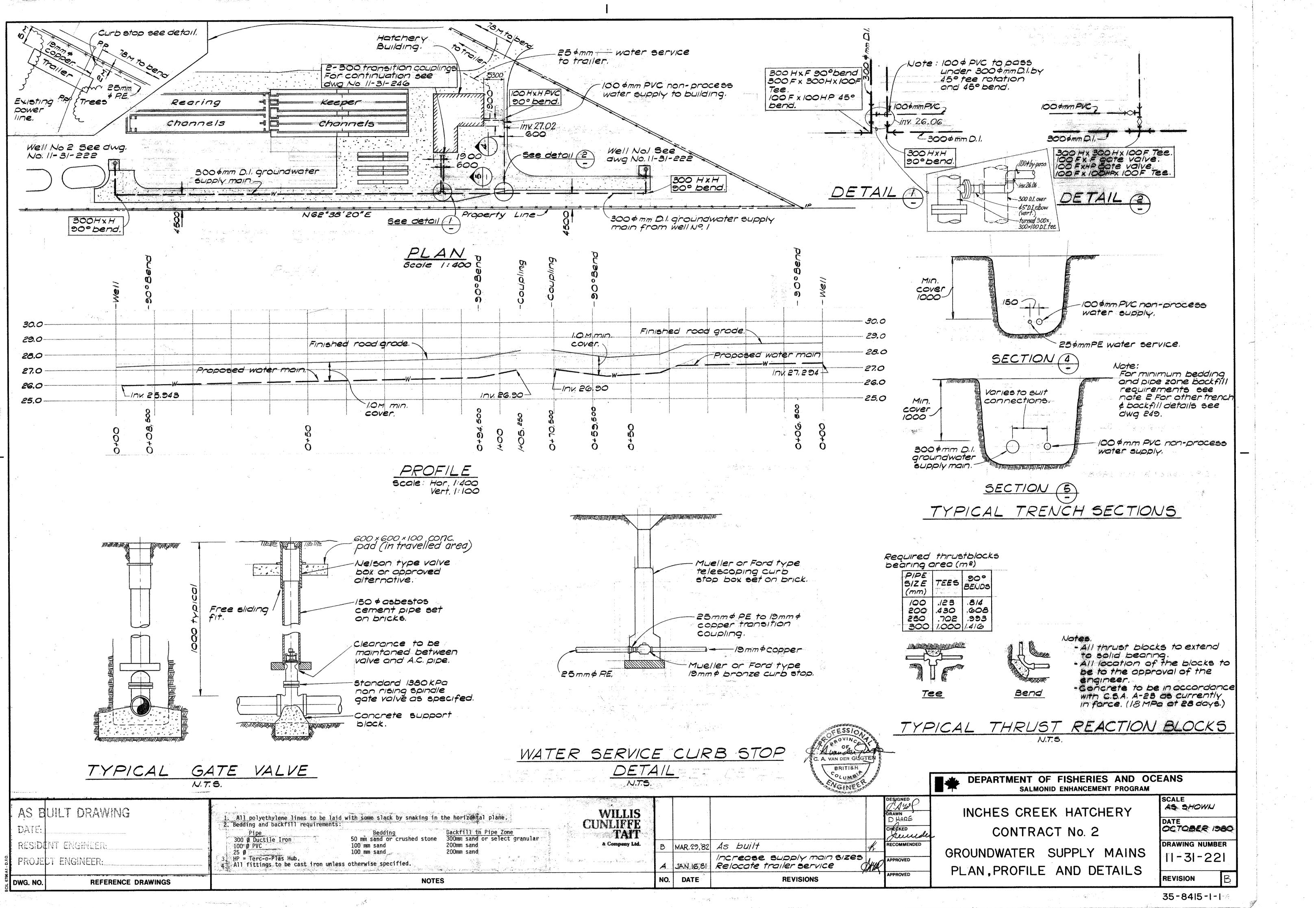
Fisheries and Oceans Canada

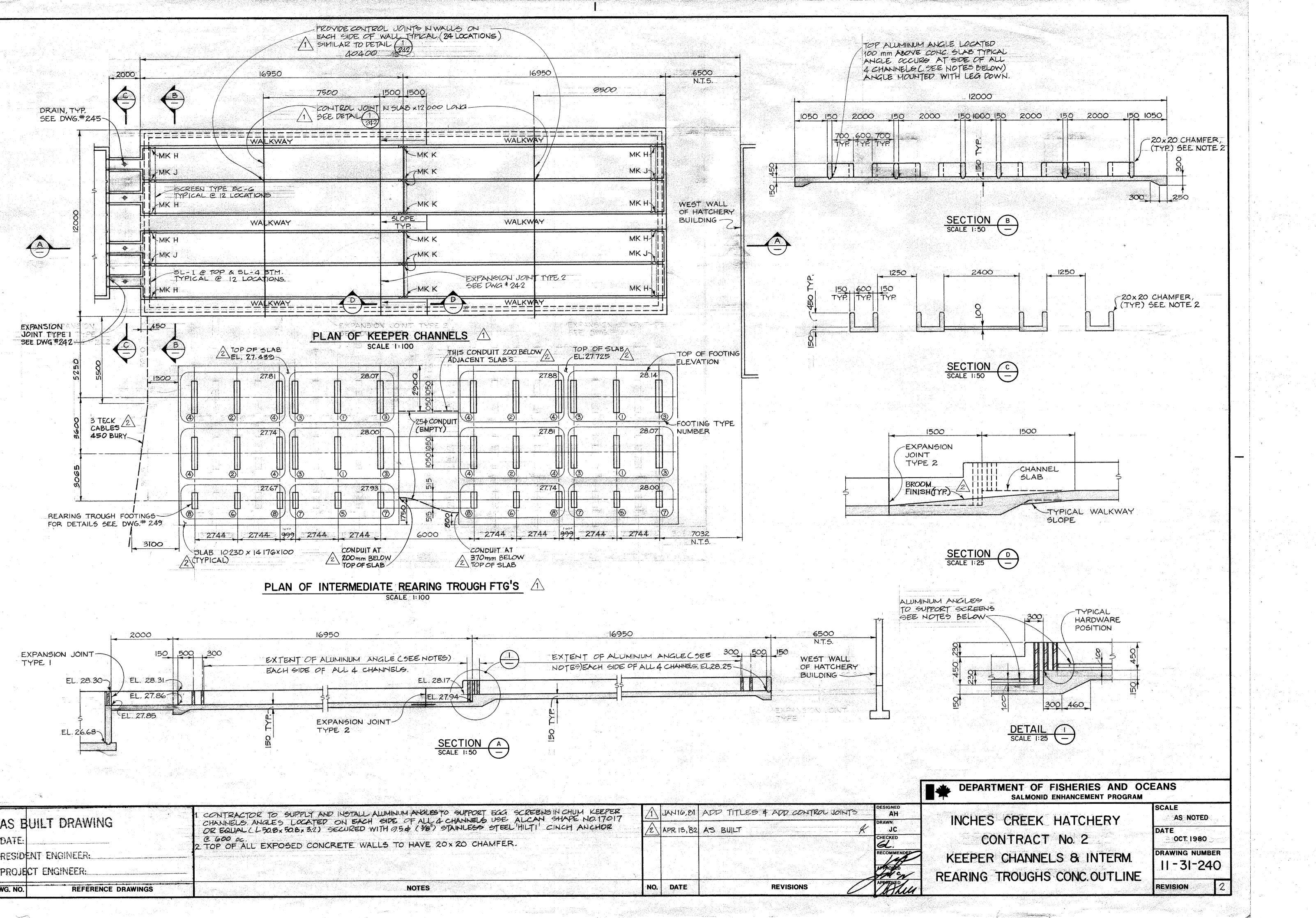
Inch Creek Hatchery – Well #5 Water Supply and Drainage Upgrade

July 2018



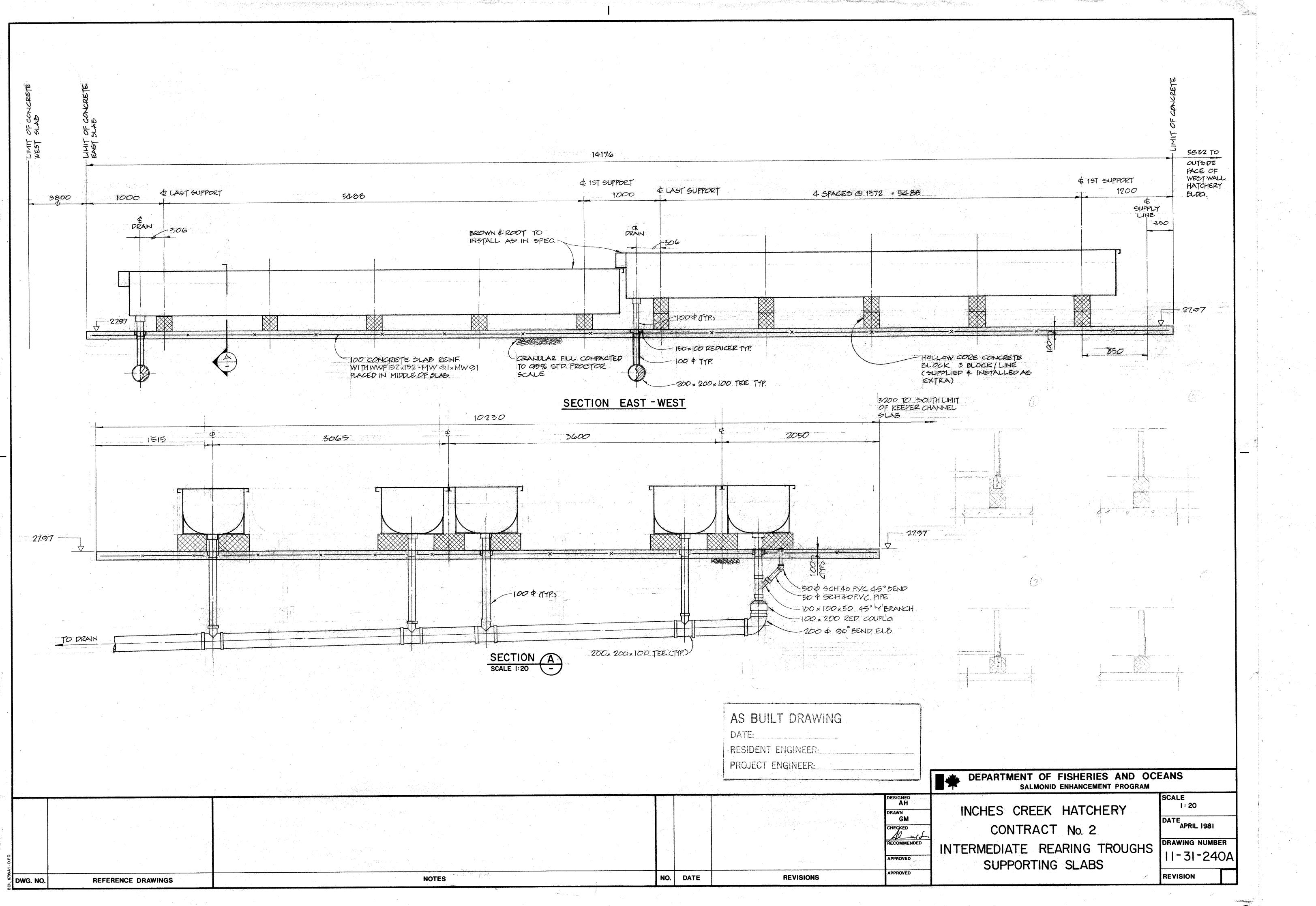
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CHERY SIGN		
PAVEMENT EDGE	19.771 ··· —)
the the the	:	
PUMPHOUSE STORAGE	:	
WORKSHOP WORKSHOP	:	
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- BERM CONSTRUCTED FROM EXCAVATION MA	ATERIAL	
REMOVED FROM BACKUP GENERATOR SITE	AREA	
BUILDING		
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CLEARING CLEARING	137.872	
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FISHERIES AND OCEANS		Α
REAL PROPERTY AND TECHNICAL SUPPOR	RT SCALE	
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_	25-0ct-12	NUMBER
SITE PLAN	11-31-	
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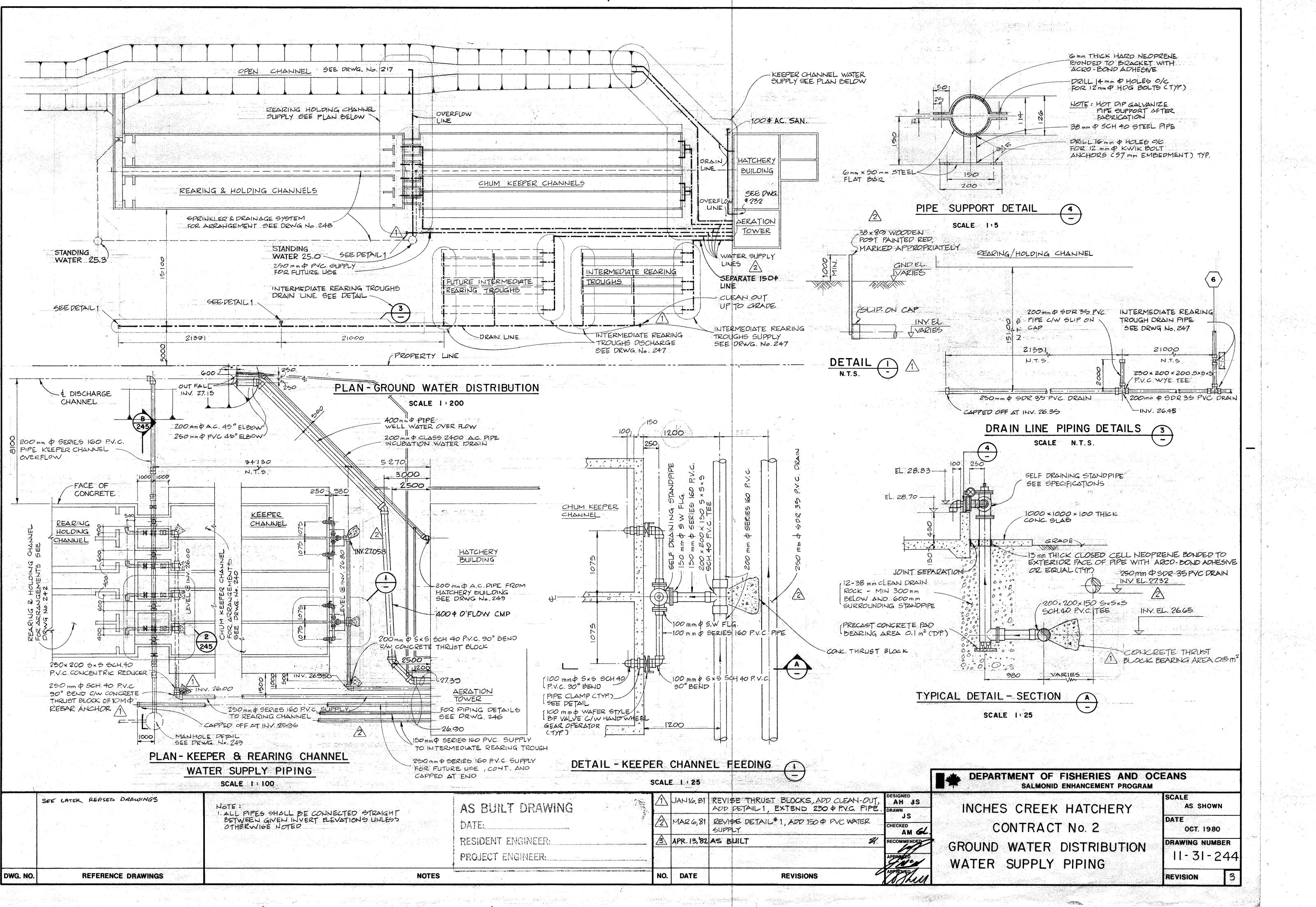


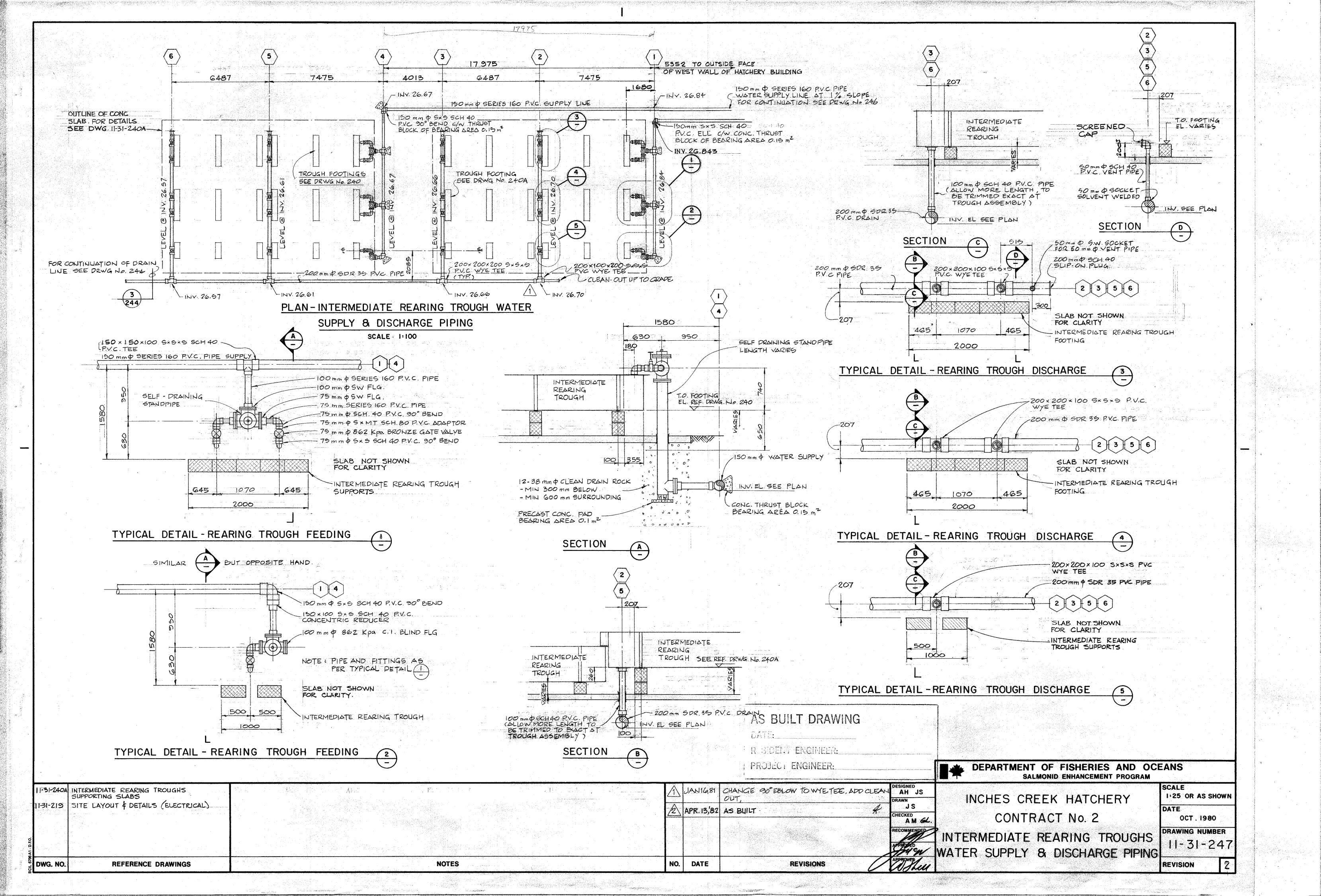


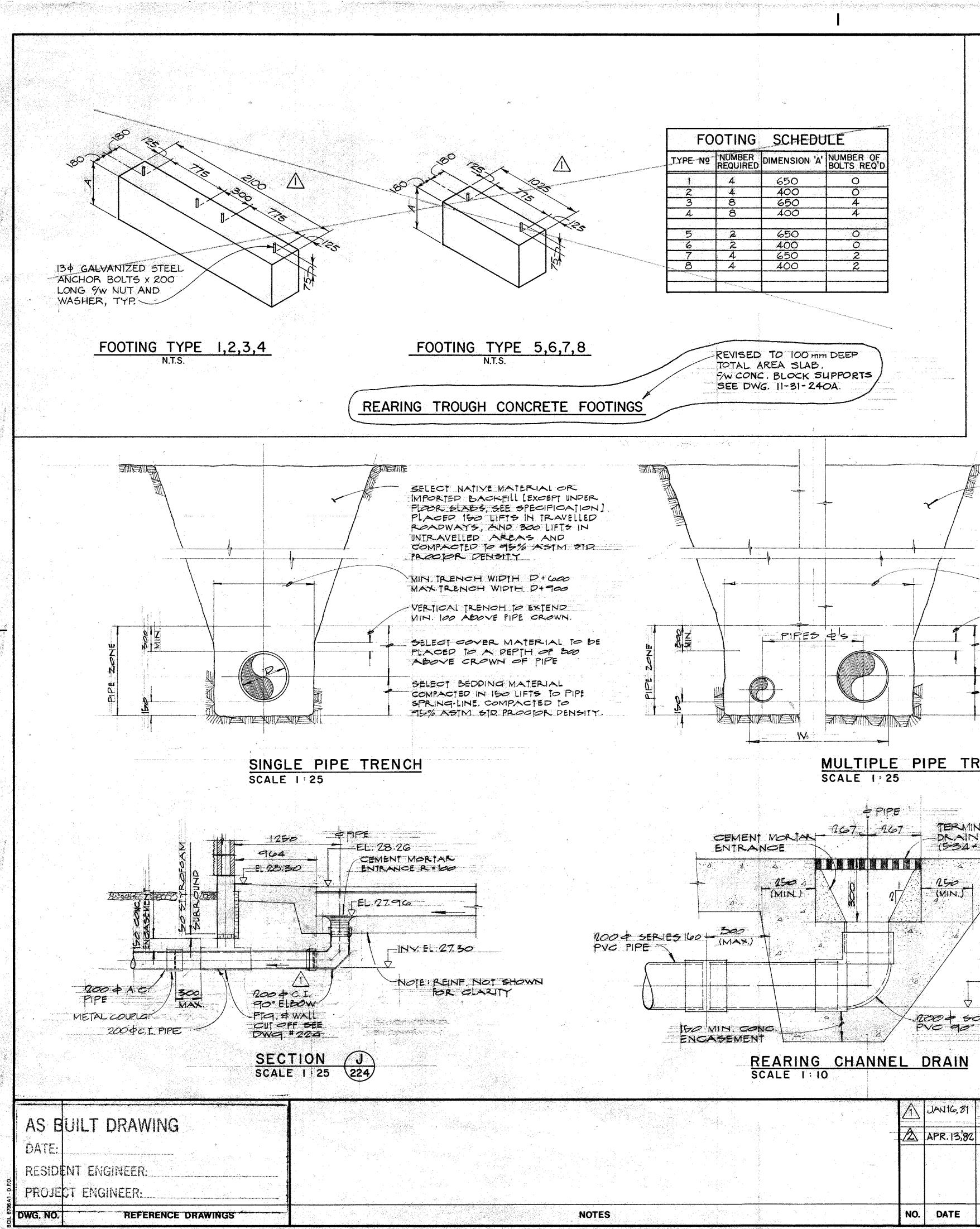
	2000	16950
EXPANSION JOINT	150 500 300	EXTENT OF ALUMINUM ANGLE (SEE NOTES) EACH GIDE OF ALL 4 CHANNELS.
EL. 28.30-) EL. 28.31-	EL 28.17
	EL. 27.86	\$\$ EL 27.94
EL. 26.68	EL. 27.85	EXPANSION JOINT TYPE 2 ON SEC

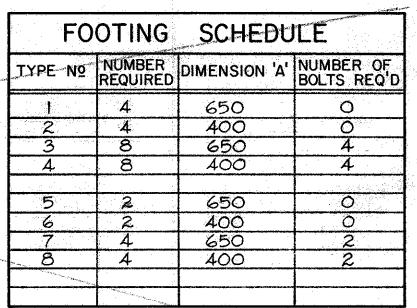
					DESIGNED
AS BUILT DRAWING	1. CONTRACTOR TO SUPPLY AND INSTALL ALUMINUM ANGLES TO SUPPORT EGG SCREENS IN CHUM KEEPER CHANNELS ANGLES LOCATED ON EACH SIDE OF ALL 4 CHANNELS USE ALCAN SHAPE NO. 17017 OR EQUAL (1.50.8, 50.8, 3.2) SECURED WITH 9.54 (3/8") STAINLESS STEEL HILTI' CINCH ANCHOR		81 ADD TITLE 82 AS BUILT	es & add control joints	AH DRAWN JC
Inter 34 wayne jalan	2 TOP OF ALL EXPOSED CONCRETE WALLS TO HAVE 20x 20 CHAMFER.				CHECKED RECOMMENDED
PROJECT ENGINEER:					2000 The cr
DWG. NO. REFERENCE DRAWINGS	NOTES	NO. DATE		REVISIONS	/ When

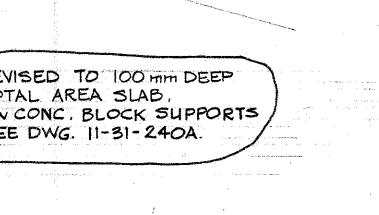












SELECT NATIVE MATERIAL OR IMPORTED BACKFILL [EXCEPT UNDER FLOOR SLADS, SEE SPECIFICATION] PLACED IN 150 LIFTS IN TRAVELLEP ROADWATS, AND 300 LIFTS IN UNTRAVELLED AREAS AND COMPACIED TO 95% ASTM STD. PRODIOR DENSITY

FIN.

MIN. TRENCH WIDTH W + 600 MAX, TRENOH WIDTH W +900

VERICAL TRENCH TO EXTEND MIN 100 ABOVE PIPE CROWN

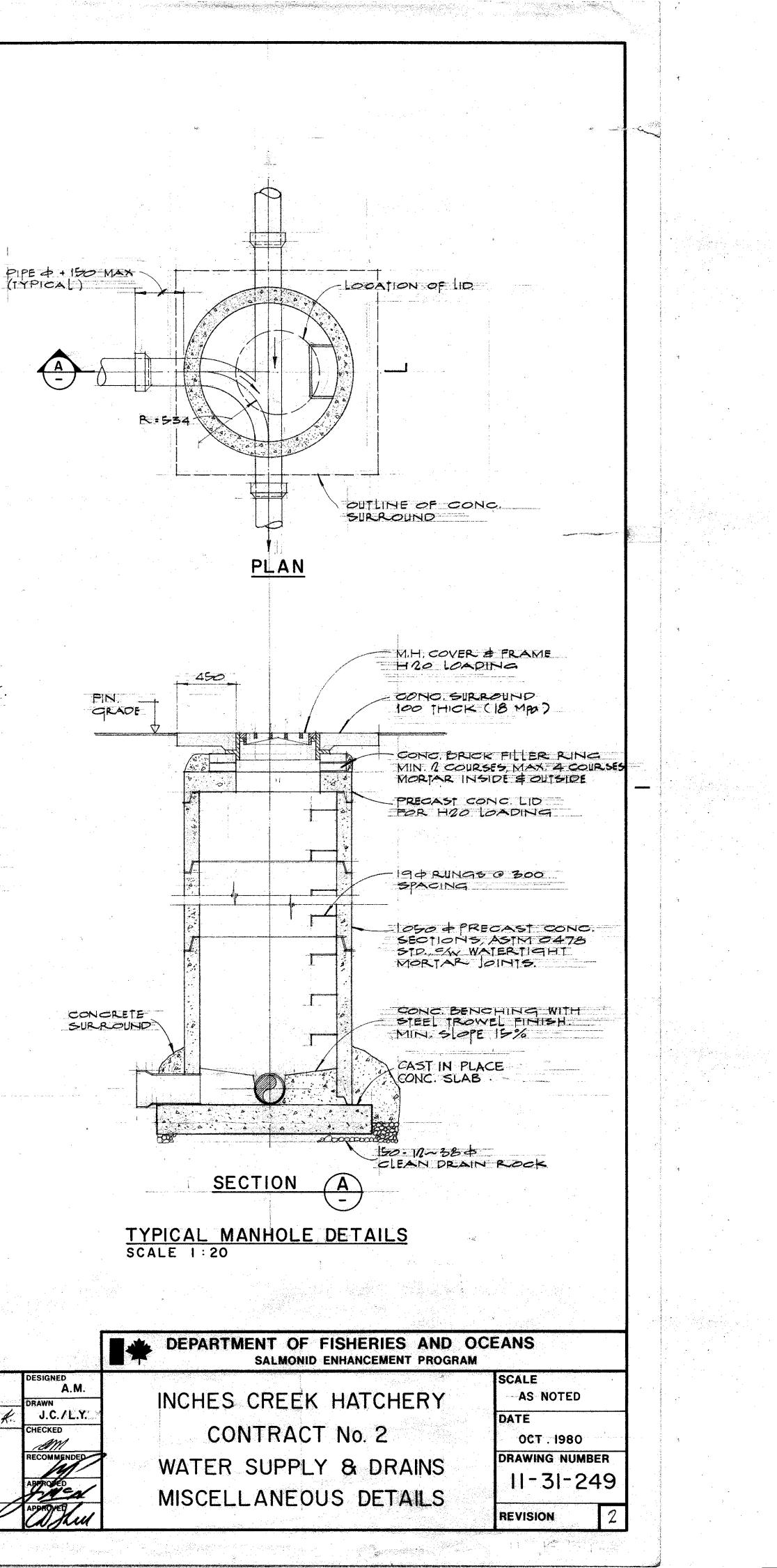
SELECT COVER MATERIAL TO BE PLACED TO A DEPTH OF 300 ADOVE GROWN OF PIPE

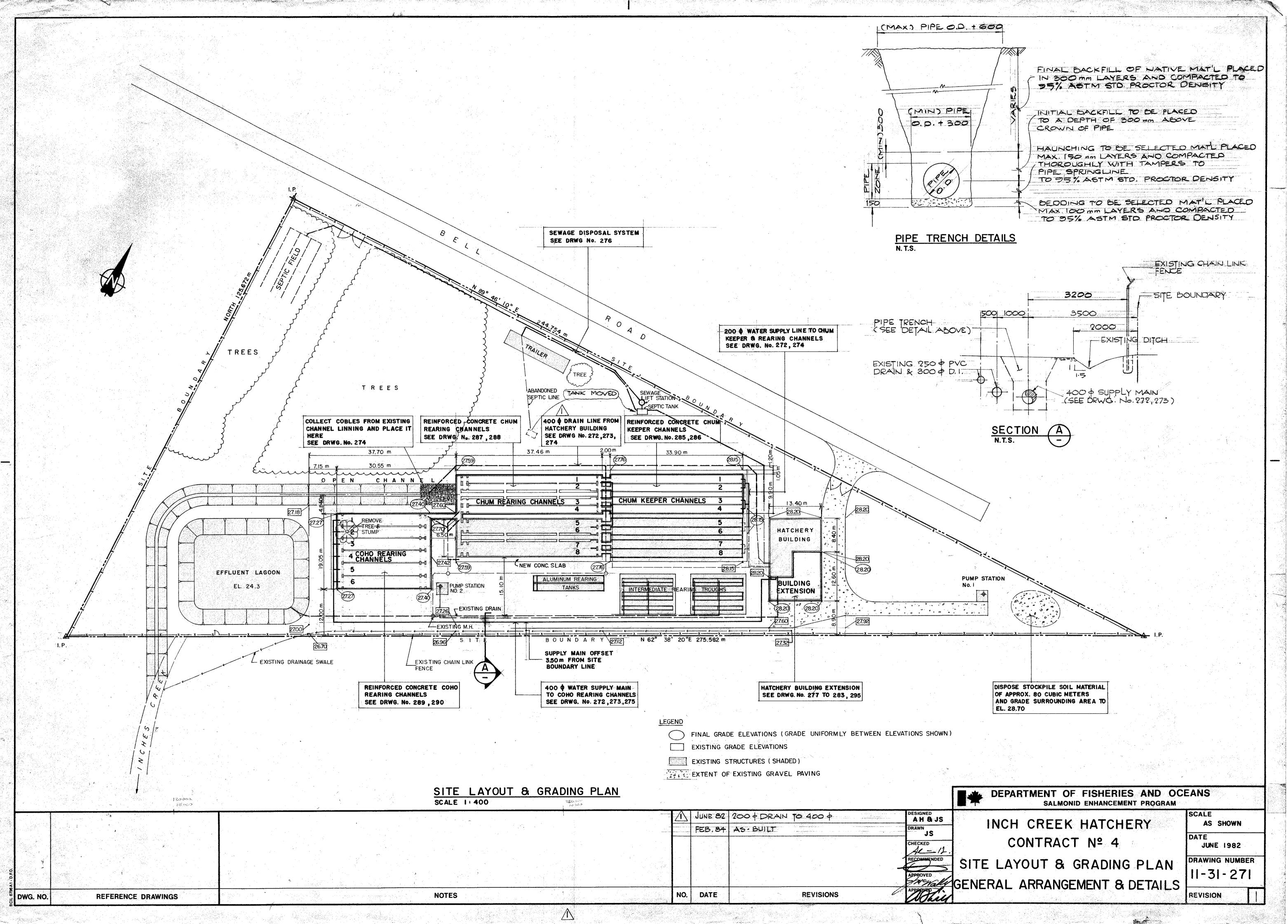
SELECT BEPDING MATERIAL OOMPACTED IN 150 LIFTS TO PIPE SPRINGLINE COMPACTED TO 95% ASTM STD. PROCTOR DENSITY

MULTIPLE PIPE TRENCH

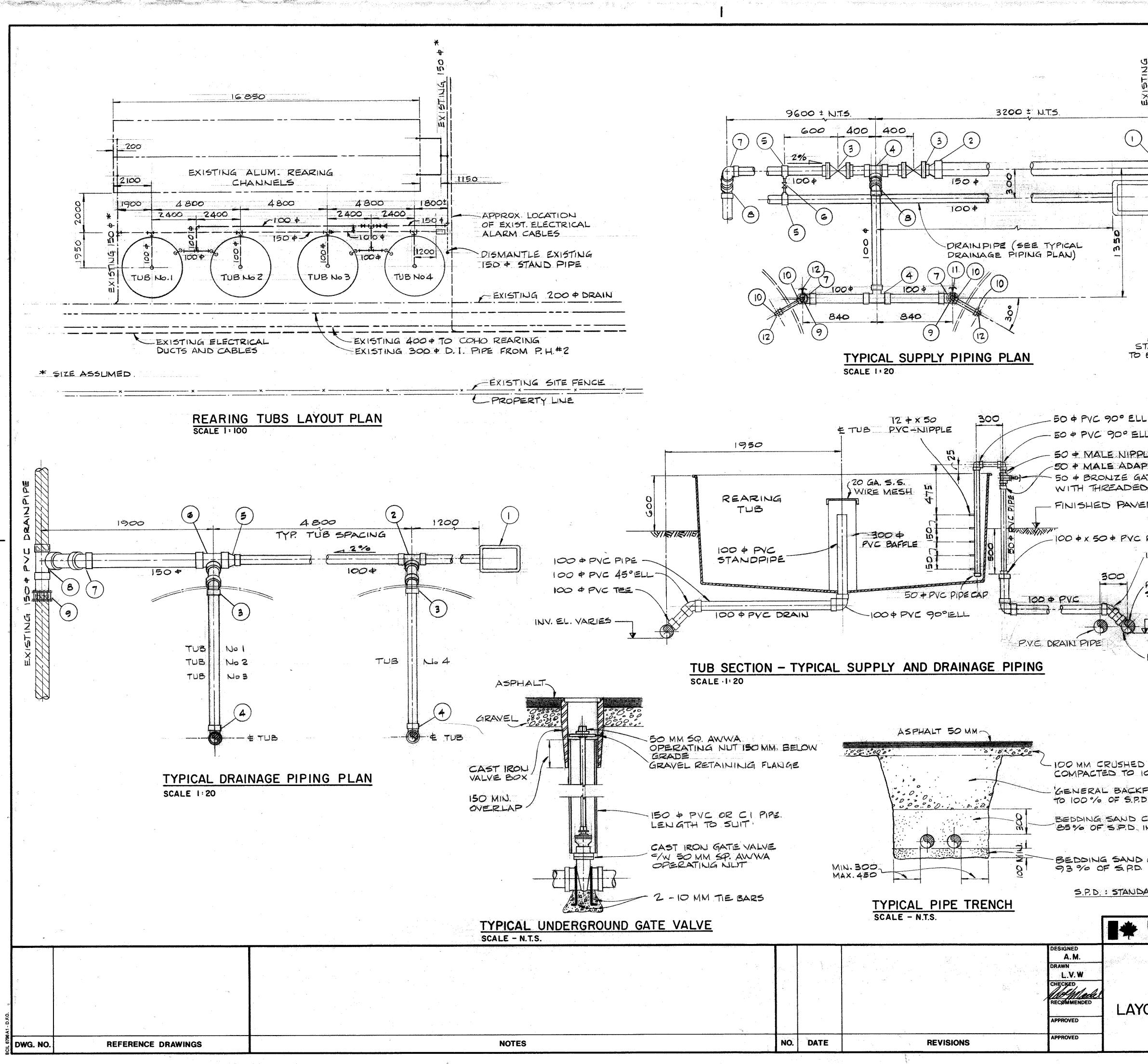
CONGRETE SURROUND TERMINAL CITY # 32 BRAIN GRATING (534+648+50) CHECK SIZE BEFORE SLAB POUR NOTE: REINE NOT SHOWN FOR CLARITY +-- INV. EL 25.75. ROOF SCH. 40 PVC 90 BEND

ESIGNED CHANGE AG PIPE TO C.L.PIPE A.M. DIMENSIONS REVISED. RAWN J.C./L.Y. APR. 13,82 AS BUILT CHECKED AM RECOMMEND REVISIONS





DEPARTMENT OF FISHERIES AND OC SALMONID ENHANCEMENT PROGRAM	EANS			
INCH CREEK HATCHERY	SCALE AS SHOWN			
CONTRACT Nº 4	DATE JUNE 1982			
E LAYOUT & GRADING PLAN ERAL ARRANGEMENT & DETAILS	DRAWING NUMBER			
	REVISION			



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A				
120¢	TYPICAL SUPPLY P	IPING PARTS		
	1 150 × 150 + P.V.C. 9	0° ELL		·\$
	2 150 × 100 + P.V.C. R	EDUCER		· .
	3 100 \$ 1380 KPa C (NRS) SOIL PIF	:.I. GATE VALVE E E VALVE BOX.	- 6 - - - - - - - - - - - - - - - - - -	
	4 100 + P.V.C. TEE		-	
	5 100 + x 25 + OUT SADDLE 'ROBAR'		-	
	G 25 + 'EMCO' MAI	n stop Service box.		
	7 100 \$ P.V.C. 90	ELBOW	3	
	(8) 100 + P.V.C. 45 °			·
	(9) 100 x 50 + P.V.C. BUSHING	REDUCER	4	*
TAND PIPE BE DISMANTLED	10 50 + P.V.C. 90 -	ELBOW/	1	
	II 50 + BRONZE G	ATE VALVE		
	12 50 + P.V.C . PIPE	CAP	- - -	
. (SX5)				
$L(S \times T)$		2 7		
LE X 75 PTER (SOC X MT.) ATE VALVE S ENDS	TYPICAL DRAINAG	ge piping parts	2	
MENT LINE	TYPE 37 DRAIN BOX			: *
	(2) 100 \$ P.V.C. WYE			• •
REDUCER BUSHING	(3) 100 \$ P.V.C. 45° (4) 100 \$ P.V.C. 90°			•
100 \$ PVC 45° ELL	(5) 150 x 100 + PNC.			
PVC WATER	6) 150 x 100 + PVC			
SUPPLY PIPE	7 150 + P.V.C. 45°	F1		
-INV. EL. VARIES	8 150 + P.V.C. WY	e tee		
	9 150 + MECHANIC	AL COUPLING		
100 & PVC TEE				
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· ·				•
GRAVEL BASE				
00 % 5.P.D.		· · · ·		
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and the second second second second second second second second second second second second second second second	FISHERIES AND OCI	EANS		
		SCALE AS NOTED		
INCH CREEK		DATE		
REARING TUBS JAN. 1986				
OUT PLAN AND	PIPING DETAILS	DRAWING NUMBER		
		REVISION		
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