



FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT



**SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE**

**VOLUME 2 - ISSUED FOR TENDER
OCTOBER, 2015**

FISHERIES AND OCEANS CANADA

SNOOTLI CREEK HATCHERY

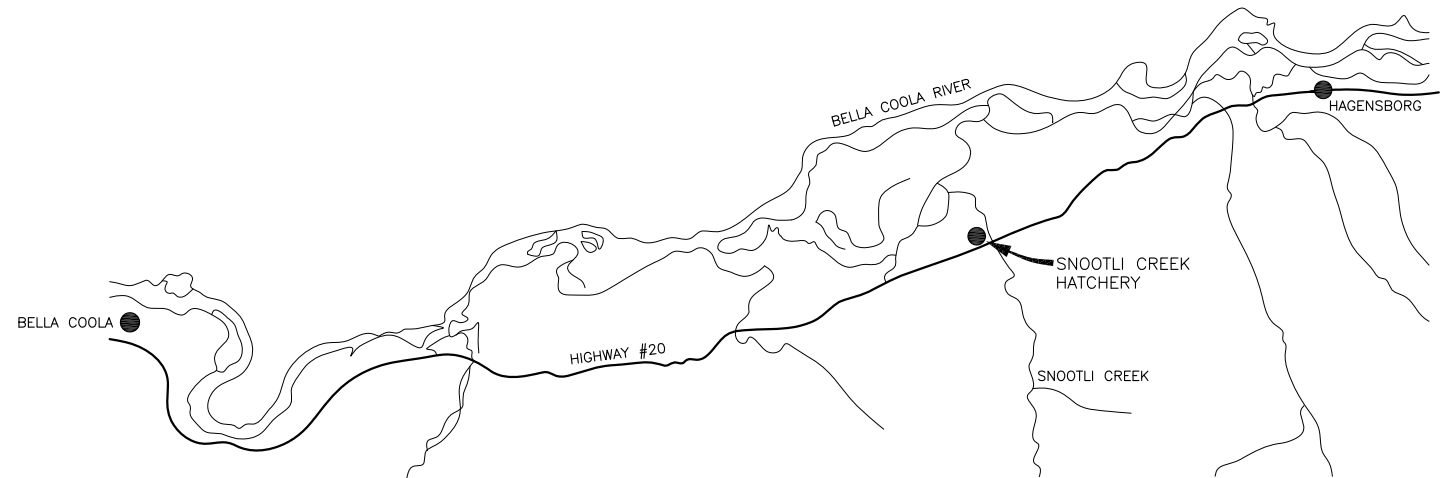
HATCHERY COMPLEX PACKAGE



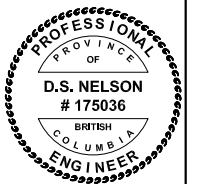
KEY MAP
SCALE: NTS



VICINITY MAP
SCALE: NTS



LOCATION MAP
SCALE: NTS



 FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE

KEY MAP, VICINITY MAP
AND LOCATION MAP

SCALE
AS SHOWN
DATE
2015-10-20
DRAWING NUMBER
G-001
REVISION

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY COMPLEX PACKAGE\HC_G001.DWG

1	 silk stevens limited DESIGN & CONSULTING ENGINEERS	 McMILLEN JACOBS ASSOCIATES	01 2015-10-20 ISSUED FOR TENDER	NO. DATE REVISIONS	DESIGNED M.C.R./O.S.D	FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE KEY MAP, VICINITY MAP AND LOCATION MAP	SCALE AS SHOWN
					DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.	DRAWING NUMBER G-001						
RECOMMENDED	REVISION						
APPROVED M.C.R.							
DWG NO.	DRAWING REFERENCES	NOTES			APPROVED		

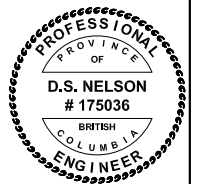
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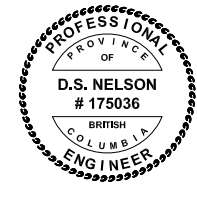
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APPROVED							

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A/C	AIR CONDITIONING	CLKG	CAULKING	F&B	FACE & BYPASS	I	INSTRUMENTATION (DWG DISCIPLINE)	N	NORTH, NEUTRAL	REQD	REQUIRED	TPD	TOILET PAPER DISPENSER
A/E	ARCHITECT/ENGINEER	CLR	CLEAR	F TO F	FACE TO FACE	ID	INSIDE DIAMETER, INTERIOR DIMENSION	NA	NOT APPLICABLE	RESIL	RESILIENT	TRG	TOPPING
A	ANCHOR, ARCHITECTURAL, AMP	CMH	COMMUNICATION MANHOLE	FAB	FABRICATE	IE	INVERT ELEVATION	NAT	NATURAL	RET	RETAINING, RETURN	TRNS	TRANSOM, TIMER
AB	ANCHOR BOLT	CMU	CONCRETE MASONRY UNIT	FB	FLOOR BEAM	IF	INSIDE FACE	NC	NORMALLY CLOSED	RFV	REVISION, REVERSE	TRD	TRANSITION
ABC	AGGREGATE BASE COURSE	CO	CLEAN OUT, CONCRETE OPENING	FBD	FIBERBOARD	IH	INTAKE HOOD	NEG	NEGATIVE	RF	RESILIENT FLOORING	TRD	TRENCH DRAIN
ABAN	ABANDON	COL	COLUMN	FBC	FIBERGLASS	IMP	IMPACT	NF	NEAR FACE, NON-FUSED	RFG	ROOFING	TYP	TYPICAL
AC	ALTERNATING CURRENT	COM	COMMON	FBO	FURNISHED BY OWNER	INC	INCLUDE, INCANDESCENT	NIC	NOT IN CONTRACT	RFL	REFLECTED, REFLECTOR		
ACK	ACKNOWLEDGE	COMB	COMBINATION	FC	FLUSHING CONNECTION	INF	INFLENT	NO	NORMALLY OPEN, NUMBER	RGH	ROUGH		
ACP	ACOUSTIC CEILING PANEL, ASPHALTIC CONCRETE PAVEMENT	COMM	COMMUNICATION	FCA	FLANGED COUPLING ADAPTER	INSTR	INSTRUMENTATION	NOM	NOMINAL	RGS	RIGID GALVANIZED STEEL	U	URINAL
ACST	ACOUSTIC	COMP	COMPOSITION, COMPRESSIBLE, COMPOSITE	FD	FLOOR DRAIN	INSUL	INSULATION	NPS	NOMINAL PIPE SIZE	RGS-PVC	PVC COATED RGS	UL	UNDERGROUND
AD	ADDENDUM, AREA DRAIN	CONC	CONCENTRIC, CONCRETE	FDC	FLEXIBLE DUCT CONNECTION	INT	INTERIOR, INTERSECTION	NPT	NATIONAL PIPE THREAD	RH	RELIEF HOOD, RIGHT HAND, RELATIVE HUMIDITY	UNFN	UNFINISHED
ADDL	ADDITIONAL	FOUND	FOUNDATION	FDN	FOUNDATION	INTR	INTERMEDIATE, INTERIOR	NS	NEAR SIDE		REQUIRED LAP	UNO	UNLESS NOTED OTHERWISE
ADH	ADHESIVE	CONN	CONNECTION	FDR	FEEDER	INV	INVERT	NTS	NOT TO SCALE	RL	REQUIRED LAP	UTIL	UTILITY
ADJ	ADJUSTABLE, ADJACENT	CONST	CONSTRUCTION	FE	FLANGED END	IPS	IRON PIPE SIZE	NUAL	NEW ALUMINUM (COPPER FREE)	RLFA	RELIEF AIR		
AF	AMP FRAME, AMP FUSE	CONT	CONTINUOUS	FEC	FIRE EXTINGUISHER CABINET	IPT	INTERNAL PIPE THREAD	NTS	NOT TO SCALE	RND	ROUND		
AFF	ABOVE FINISH FLOOR	COOR	COORDINATE	FES	FLARED END SECTION	IR	INSIDE RADIUS	NWL	NORMAL WATER LEVEL	RNG	RUNNING		
AFG	ABOVE FINISH GRADE	CORR	CORROSIVE, CORRUGATED	FEXT	FIRE EXTINGUISHER	ISO	IRRIGATION			RO	ROUGH OPENING	V	VENT, VELOCITY, VOLT
AGGR	AGGREGATE	CP	CHECKER PLATE, CONTROL POINT	FF	FAR FACE, FACTORY FINISH, FLAT FACE	ISSR	ISOMETRIC			ROW	RIGHT OF WAY	VA	VOLT AMPERE
AI	AREA INLET	CPLG	COUPLING	FIG	FINISHED GRADE					RPM	REVOLUTIONS PER MINUTE	VAC	VACUUM
AIC	AMPS INTERRUPTING CAPACITY	CRL	CORROSION RESISTANT LINING	FI	FIGURE					RR	RAILROAD	VAR	VARNISH, VARIABLE, VOLT AMPERES REACTIVE
AL	ALUMINUM	CSC	COMPRESSION SLEEVE COUPLING	FH	FIRE HYDRANT					RSP	ROCK SLOPE PROTECTION	VB	VAPOR BARRIER, VINYL BASE, VALVE BOX
ALIG	ALIGNMENT	CSK	COUNTERSINK	FIN	FINISH					RT	RIGHT	VC	VERTICAL CURVE
ALT	ALTERNATE, ALTITUDE	CSS	CLINIC SERVICE SINK	FJT	FLUSH JOINT					RVT	RESILIENT VINYL TILE	VCT	VINYL COMPOSITION TILE, VERTICAL CENTERLINE
AM	ACOUSTICAL MATERIAL	CT	CERAMIC TILE	FL	FLOW, FLOW LINE					RY	READY	VEL	VELOCITY
AMB	AMBIENT	CTR	CENTER	FLEX	FLEXIBLE					S	SOUTH, SINK, STRUCTURAL (DWG DISCIPLINE)	VENT	VENTILATION
ANC	ANCHOR	CTRL	CONTROL	FLG	FLANGE					SA	SUPPLY AIR	VERT	VERTICAL
AP	ACCESS PANEL	CVT	CULVERT	FLOR	FLUORESCENT					SAMU	SOUND ABSORBING MASONRY UNIT	VG	VERTICAL GRAIN
APRX	APPROXIMATE	CU	COPPER, CUBIC	FLR	FLOOR					SAN	SANITARY	VIF	VERIFY IN FIELD
APVD	APPROVED	CW	CLOCKWISE	FLS	FLASHING, FLUSH					SB	SPLASH BLOCK	VIN	VINYL
ARCH	ARCHITECTURAL			FN	FENCE					SC	SOLID CORE	VS	VERSES, VAPOR SEAL
ASSY	ASSEMBLY			FO	FINISHED OPENING					SCH	SCHEDULE	VOL	VOLUME
AT	AMP TRIP			FOB	FENCE FLAT ON BOTTOM					SCN	SCHEMATIC	VPC	VERTICAL POINT OF CURVATURE
ATC	ACOUSTICAL TILE CEILING			FOC	FACE OF CONCRETE, FACE OF CURB					SDR	SPLIT DUPLEX RECEPTACLE	VPI	VERTICAL POINT OF INTERSECTION
ATM	ATMOSPHERE			FOM	FACE OF FINISH					SE	STEEL/ALUMINUM EDGE	VPT	VERTICAL POINT OF TANGENCY
AUTO	AUTOMATIC			FOS	FACE OF STUDS					SH	SHEET	VTR	VENT THROUGH ROOF
AUX	AUXILIARY			FOT	FLAT ON TOP					SHTG	SHEATHING	VWC	VINYL WALL COVERING
AVE	AVENUE			FPT	FEMALE PIPE THREAD					SIL	SILENCE		
AVG	AVERAGE			FR	FRAME					SIM	SIMILAR		
AWG	AMERICAN WIRE GAGE			FRP	FIBERGLASS REINFORCED PLASTIC					SL	SLOPE		
				FRTM	FIRE RETARDANT TREATED MATERIAL					SLD	SLOTTED		
				FS	FLOOR SINK, FAR SIDE					SLV	SLEEVE		
B/B	BACK TO BACK			FTG	FOOTING, FITTING					SMLS	SEAMLESS		
BAL	BALANCE			FUR	FURRING					SOG	SLAB ON GRADE		
BBD	BULLETIN BOARD			FURN	FURNITURE, FURNISH					SP	SOUNDPROOF, STANDPIPE		
BC	BASE CABINET, BOTTOM CHORD, BOLT CENTER, BOLT CIRCLE			FURT	FUTURE					SPA	SPACING		
BD	BOARD			FV	FACE VELOCITY					SPD	STANDARD PROCTOR DENSITY		
BE	BOTH ENDS, BELL END			FW	FIELD WELD, FIRE WALL					SPEC	SPECIFICATION		
BF	BOTH FACES, BOTTOM FACE, BLIND FLANGE, BOARD FEET			FWD	FORWARD					SPLY	SUPPLY		
				FWE	FURNISHED WITH EQUIPMENT					SPT	SET POINT		
				FXT	FIXTURE					SPT	SHEET		
BKG	BACKING									SR	SHORT RADIUS		
BL	BASE LINE									SS	SERVICE SINK		
BLDG	BUILDING									ST	STAINLESS STEEL		
BLK	BLOCK									ST	STREET		
BLKG	BLOCKING									STA	STATION		
BM	BENCHMARK, BEAM									STD	STANDARD		
BOC	BACK OF CURB									STIF	STIFFENER		
BOD	BOTTOM OF DUCT									STIR	STIRRUP		
BOG	BOTTOM OF GRILLE									STL	STEEL		
BOL	BOTTOM OF LOUVER									STOR	STORAGE		
BOP	BOTTOM OF PIPE									SUB	SUBSTITUTE		
BOR	BOTTOM OF REGISTER									SUC	SUCTION		
BOT	BOTTOM									SUSP	SUSPENDED		
BOU	BOTTOM OF UNIT									SY	SQUARE YARD		
BP	BASE PLATE, BREAKER PANEL									SYM	SYMMETRICAL		
BRG	BEARING									SYN	SYNTHETIC		
BRGP	BEARING PLATE									SYS	SYSTEM		
BRK	BREAKER									T&B	TOP AND BOTTOM		
BRKT	BRACKET									T&G	TONGUE AND GROOVE		
BS	BOTH SIDES									TANG	TANGENT		
BTU	BRITISH THERMAL UNIT									TBM	TEMPORARY BENCHMARK		
BTW	BETWEEN									TCE	TEMPORARY CONSTRUCTION EASEMENT		
BTWLD	BUTT WELD									TEMP	TEMPORARY, TEMPERATURE		
BU	BELL UP, BUILT UP									TFX	TRANSFORMER		
BUR	BUILT-UP ROOFING									THD	THREAD		
BW	BOTH WAYS									THK	THICK		
										THRESH	THRESHOLD		
										THRU	THROUGH		
										TOB	TOP OF BOLT, TOP OF BANK, TOP OF BEAM		
										TOD	TOP OF CURB, TOP OF CONCRETE		
										TOF	TOP OF DUCT		
										TOG	TOP OF FOOTING		
										TOL	TOP OF GRATING		
										TOM	TOLERANCE, TOP OF LEDGER		
										TOP	TOP OF MASONRY		
										TOPO	TOP OF PLATE		
										TOPOG	TOPOGRAPHY		
										TOS	TOP OF SLAB, TOP OF STEEL		
										TOW	TOP OF WALL		
										TP	TOILET PARTITION, TELEPHONE POLE, TOE PLATE, TRAP PRIMER		
C TO C	CENTER TO CENTER												
C&G	CURB & GUTTER												
C	CHANNEL SHAPE, CENTIGRADE, CONDUIT, CIVIL (DRAWING DISCIPLINE)												
CAB	CABINET												
CAP	CAPACITY												
CAT	CATALOG												
CAV	CAVITY												
CB	CATCH BASIN, CIRCUIT BREAKER												
CBPB	CIRCUIT BREAKER PANEL BOARD												
CCB	CONCRETE BLOCK												
CCT	CIRCUIT												
CCW	COUNTER CLOCKWISE												
CDF	CONTROLLED DENSITY FILL												
CE	CONCRETE EDGE												
CER	CERAMIC												
CFL	COUNTER FLASHING												
CHFR	CHAMFER												
CHBD	CHALKBOARD												
CHD	CHORD												
CHH	COMMUNICATION HANDHOLE												
CI	CURB INLET												
CIP	CAST-IN-PLACE												
CIRC	CIRCULATION, CIRCULAR												
CJ	CONSTRUCTION JOINT												
CKT	CIRCUIT												
CL	CENTERLINE, CLASS, CLOSE												
CLJ	CONTROL JOINT												

- GENERAL NOTES:**
- THESE ABBREVIATIONS APPLY TO THE ENTIRE SET OF CONTRACT DRAWINGS.
 - LISTING OF ABBREVIATIONS DOES NOT IMPLY ALL ABBREVIATIONS ARE USED IN THE CONTRACT DRAWINGS.
 - ABBREVIATIONS SHOWN ON THIS SHEET INCLUDE VARIATIONS OF THE WORD. FOR EXAMPLE, "MOD" MAY MEAN MODIFY OR MODIFICATION; "INC" MAY MEAN INCLUDED OR INCLUDING; "REINF" MAY MEAN EITHER REINFORCE OR REINFORCING.
 - SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.



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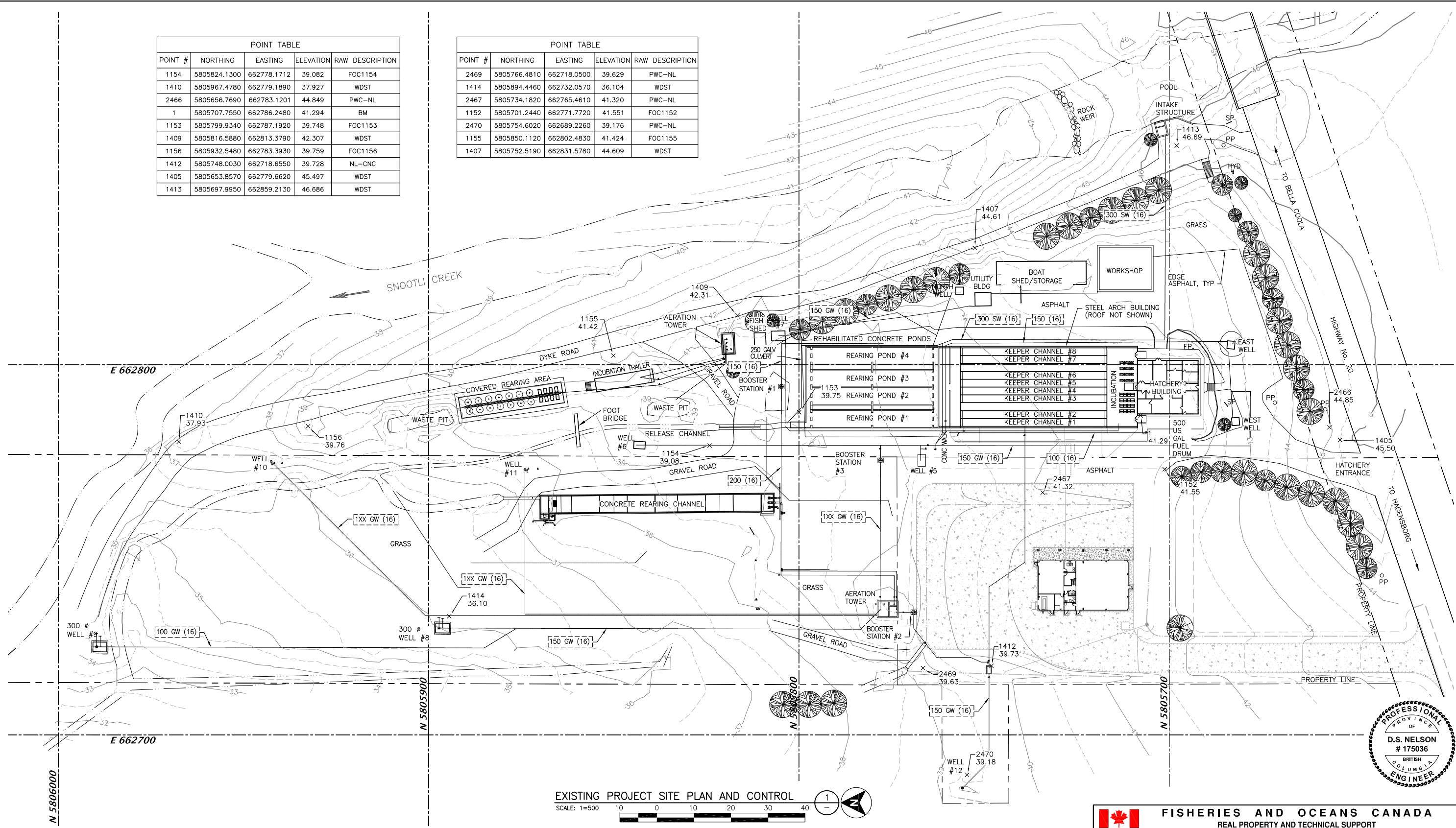
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POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION
1154	5805824.1300	662778.1712	39.082	FOC1154
1410	5805967.4780	662779.1890	37.927	WDST
2466	5805656.7690	662783.1201	44.849	PWC-NL
1	5805707.7550	662786.2480	41.294	BM
1153	5805799.9340	662787.1920	39.748	FOC1153
1409	5805816.5880	662813.3790	42.307	WDST
1156	5805932.5480	662783.3930	39.759	FOC1156
1412	5805748.0030	662718.6550	39.728	NL-CNC
1405	5805653.8570	662779.6620	45.497	WDST
1413	5805697.9950	662859.2130	46.686	WDST

POINT #	NORTHING	EASTING	ELEVATION	RAW DESCRIPTION
2469	5805766.4810	662718.0500	39.629	PWC-NL
1414	5805894.4460	662732.0570	36.104	WDST
2467	5805734.1820	662765.4610	41.320	PWC-NL
1152	5805701.2440	662771.7720	41.551	FOC1152
2470	5805754.6020	662689.2260	39.176	PWC-NL
1155	5805850.1120	662802.4830	41.424	FOC1155
1407	5805752.5190	662831.5780	44.609	WDST



EXISTING PROJECT SITE PLAN AND CONTROL
 SCALE: 1=500



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SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE
EXISTING PROJECT SITE PLAN AND CONTROL

SCALE AS SHOWN
 DATE 2015-10-20
 DRAWING NUMBER **G-005**
 REVISION

silk stevens limited
 DESIGN & CONSULTING ENGINEERS

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McMILLEN JACOBS ASSOCIATES

5
 DWG NO.

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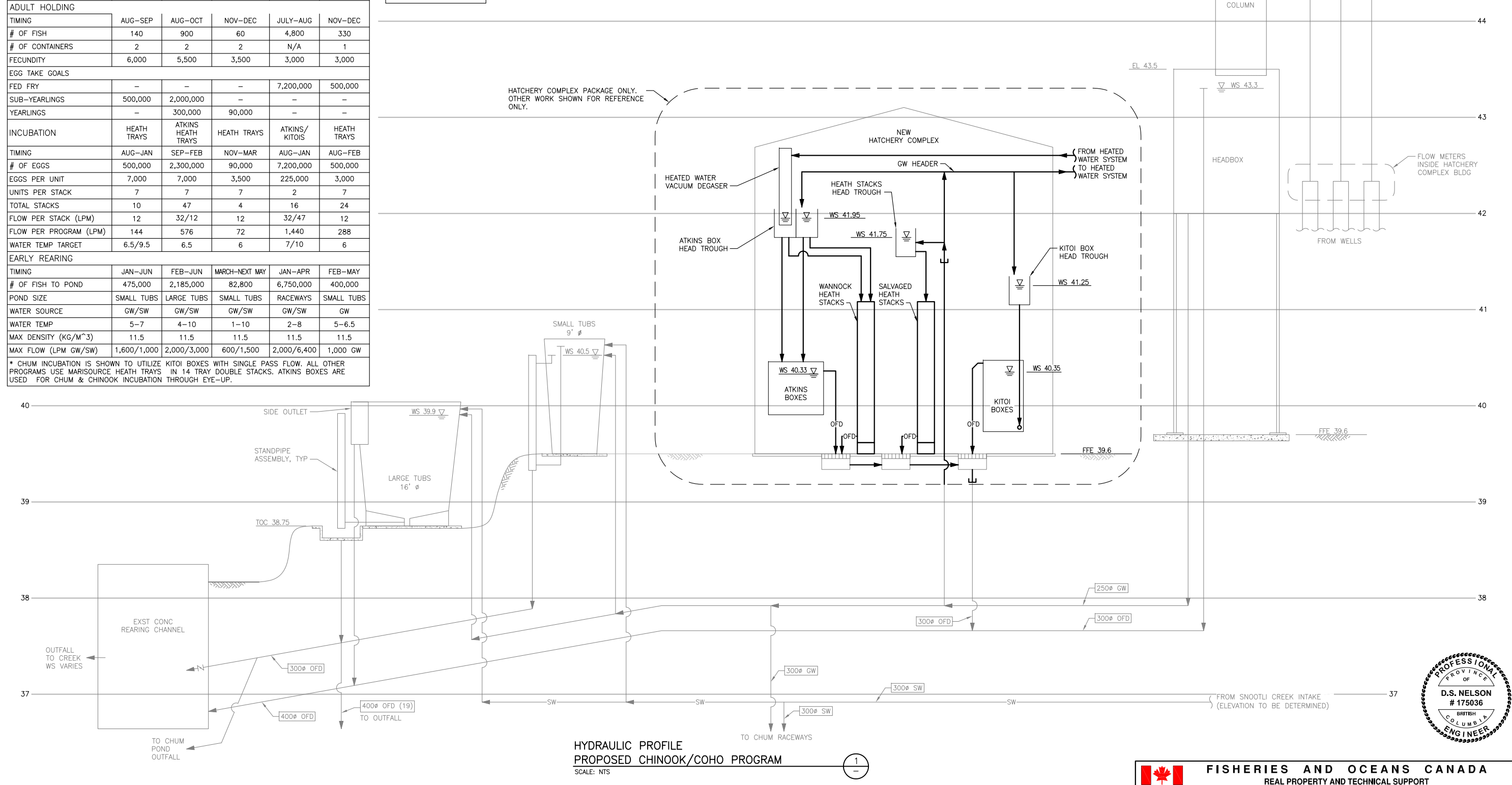
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FISH PRODUCTION DESIGN CRITERIA					
CRITERIA	PROGRAM				
	TRIBUTARY SUMMER CHINOOK	TRIBUTARY SUMMER CHINOOK	TRIBUTARY FALL COHO	BELLA COOLA SUMMER CHUM*	VARIOUS SUMMER SOCKEYE
ADULT HOLDING					
TIMING	AUG-SEP	AUG-OCT	NOV-DEC	JULY-AUG	NOV-DEC
# OF FISH	140	900	60	4,800	330
# OF CONTAINERS	2	2	2	N/A	1
FECDUNITY	6,000	5,500	3,500	3,000	3,000
EGG TAKE GOALS					
FED FRY	-	-	-	7,200,000	500,000
SUB-YEARLINGS	500,000	2,000,000	-	-	-
YEARLINGS	-	300,000	90,000	-	-
INCUBATION					
TIMING	AUG-JAN	SEP-FEB	NOV-MAR	AUG-JAN	AUG-FEB
# OF EGGS	500,000	2,300,000	90,000	7,200,000	500,000
EGGS PER UNIT	7,000	7,000	3,500	225,000	3,000
UNITS PER STACK	7	7	7	2	7
TOTAL STACKS	10	47	4	16	24
FLOW PER STACK (LPM)	12	32/12	12	32/47	12
FLOW PER PROGRAM (LPM)	144	576	72	1,440	288
WATER TEMP TARGET	6.5/9.5	6.5	6	7/10	6
EARLY REARING					
TIMING	JAN-JUN	FEB-JUN	MARCH-NEXT MAY	JAN-APR	FEB-MAY
# OF FISH TO POND	475,000	2,185,000	82,800	6,750,000	400,000
POND SIZE	SMALL TUBS	LARGE TUBS	SMALL TUBS	RACEWAYS	SMALL TUBS
WATER SOURCE	GW/SW	GW/SW	GW/SW	GW/SW	GW
WATER TEMP	5-7	4-10	1-10	2-8	5-6.5
MAX DENSITY (KG/M ³)	11.5	11.5	11.5	11.5	11.5
MAX FLOW (LPM GW/SW)	1,600/1,000	2,000/3,000	600/1,500	2,000/6,400	1,000 GW

* CHUM INCUBATION IS SHOWN TO UTILIZE KITOI BOXES WITH SINGLE PASS FLOW. ALL OTHER PROGRAMS USE MARISOURCE HEATH TRAYS IN 14 TRAY DOUBLE STACKS. ATKINS BOXES ARE USED FOR CHUM & CHINOOK INCUBATION THROUGH EYE-UP.

KEY	
GW	GROUND WATER
DR	DRAIN
HW	HEATED WATER
OF	OVERFLOW
SW	SURFACE WATER



HYDRAULIC PROFILE
PROPOSED CHINOOK/COHO PROGRAM
SCALE: NTS

1
-



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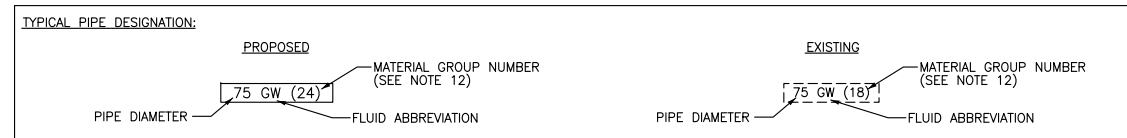
6	DRAWING REFERENCES	<p>This Copyright design and drawing is the sole and exclusive property of SILK STEVENS LIMITED. Reproduction or use of this drawing without the prior written consent is strictly prohibited.</p>		DESIGNED M.C.R./O.S.D.		SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HYDRAULIC PROFILE AND DESIGN CRITERIA	SCALE AS SHOWN
				DRAWN D.L.			DATE 2015-10-20
				CHECKED D.S.N.			DRAWING NUMBER G-006
				RECOMMENDED			REVISION
				APPROVED M.C.R.			
				APPROVED			
DWG NO.		NOTES		NO.	DATE	REVISIONS	

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FLUID ABBREVIATION	FUNCTION (* SEE NOTE 5)	ALLOWABLE PIPING MATERIAL GROUP NO. (SEE NOTES 1 AND 4)				FIELD TEST REQUIREMENTS (SEE NOTE 3 AND NOTE 4)		
		EXPOSED PIPING (SEE NOTE 14)		BURIED PIPING (SEE NOTE 13)		MINIMUM TEST PRESSURE kPa	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 2)
		75 mm DIA AND SMALLER	100 mm DIA AND LARGER	75 mm DIA AND SMALLER	100 mm DIA AND LARGER			
COMMONLY USED FUNCTIONS								
DR	DRAIN (FLOOR)	16,26	16,26	16,27	16,27	NOTE 6	WATER	(D)
IW	IRRIGATION WATER	16	16	16	19	517	WATER	(A)
GW	GROUND WATER	17	17	16	16	345	WATER	(A)
OFD	OVERFLOW DRAIN	17	17	--	17	172	WATER	(A)
PW	POTABLE WATER	16,24,40,41	16	11,16,41	16	862	WATER	2,16,24(A) 28(B)
SDR	STORM DRAIN	--	8	--	11,20,27	NOTE 6	WATER	(C)
VT	VENT	26	26	--	--	380 mm Hg	VACUUM	(A) (D)
WD	WASTE DRAIN	17,26	17,26	16,17	16,17	NOTE 6	WATER	(D)
ER	ENERGY RECOVERY	--	17	--	17	345	WATER	(A)
HW	HEATED GROUND WATER	17	17	17	17	345	WATER	(A)
HWL	DOMESTIC HOT WATER LOOP	1	--	--	--	862	WATER	(A)
HWR	DOMESTIC HOT WATER RETURN	41	41	40,41	41	862	WATER	(A)
HWS	DOMESTIC HOT WATER SUPPLY	40,41	41	40,41	41	862	WATER	(A)
RWL	RAINWATER LEADER	--	--	11	11	NOTE 7	--	--
SS	SANITARY SEWER	26	26	26	26	NOTE 7	WATER	(A)
SW	SURFACE WATER	17	17	16	16	NOTE 7	WATER	(A)

GROUP NO	PIPE MATERIAL	FITTINGS/JOINTS	LININGS & COATINGS (SEE NOTE 13)
1	STEEL; BLACK, SCHEDULE 40, ASTM A53, (THREADED)/(WELDED FITTINGS)	65 mm AND SMALLER: MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, BLACK, 1034 kPa - 75 mm AND LARGER: STEEL ANSI B16.9, 862 kPa BUTT WELDED, FLANGED OR MECHANICAL JOINTS.	NOT APPLICABLE
16	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT. ASTM D1785.	POLYVINYL CHLORIDE, SCHEDULE 80, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467. (SOLVENT & GLUE SHALL BE COMPATIBLE WITH FLUID SERVICE)	SEE SPECIFICATIONS AND NOTE 4
17	POLYVINYL CHLORIDE, SCHEDULE 40, NORMAL IMPACT. ASTM D1785.	POLYVINYL CHLORIDE, SCHEDULE 40, NORMAL IMPACT, SOCKET SOLVENT WELD JOINTS, ASTM D2467. (SOLVENT & GLUE SHALL BE COMPATIBLE WITH FLUID SERVICE)	SEE SPECIFICATIONS AND NOTE 14
20	HIGH DENSITY POLYETHYLENE CORRUGATED NON-PERFORATED, ASTM F40 (ADS N-12 "WATER-TIGHT" PIPE OR EQUAL; PERFORATE WHERE INDICATED. (TYP SERVICE - DRAINAGE & UC)	HIGH DENSITY POLYETHYLENE CORRUGATED. FABRICATED WITH SS CLAMPED CONNECTIONS; FOR WATER-TIGHT SERVICE.	NOT APPLICABLE
24	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED. (TYP SERVICE - COMPRESSED AIR, POTABLE WATER)	WROUGHT COPPER OR CAST BRONZE, ASME B16.22, SOLDER JOINT, 1034 kPa, OR COMPRESSION FITTINGS. (FOR OXYGEN PIPING USE SILVER SOLDER, FOR COMPRESSED AIR PIPING USE 95-5 TIN-ANTIMONY SOLDER)	NOT APPLICABLE
26	(ACRYLONITRILE-BUTADIENE-STYRENE) PER ASTM D2661-08 ABS. COMPOUND PER ASTM D3925. PIPE TO BE IPS CONFORMING TO ASTM F628, SCHEDULE 40 (TYP SERVICE - SANITARY SEWERS)	ABS COMPOUND CONFORMING TO ASTM D2661 & F628, SCHEDULE 40, SOLVENT WELD JOINTS	NOT APPLICABLE
27	POLYVINYL CHLORIDE GRAVITY SEWER PIPE, ASTM D3034, SDR26 (TYP SERVICE - SANITARY SEWERS)	POLYVINYL CHLORIDE, ANSI/ASTM D3034, BELL AND/OR SPIGOT.	NOT APPLICABLE
40	POLYETHYLENE CROSS-LINKED (PEX) TUBING, ASTM F877 SDR9	ASTM F1807, METAL-INSERT TYPE WITH COPPER OR STAINLESS STEEL CRIMP RINGS	NOT APPLICABLE
41	CHLORINATED POLYVINYL CHLORIDE (CPVC) SCHEDULE. 80, ASTM DI 784 - CLASS 23447-B. (TYP SERVICE - OUTDOORS/EXPOSED)	CPVC, SCHEDULE 80, SOCKET AND SOLVENT WELD JOINTS. (SOLVENT & GLUE COMPATIBLE W/ FLUID SERVICE)	NOT APPLICABLE



NOTES:

NOTE 1
ALTHOUGH SEVERAL PIPE MATERIAL GROUPS MAY BE LISTED ON THIS SHEET FOR A GIVEN FLUID SERVICE, CONTRACTOR SHALL PROVIDE ONLY THE PIPE MATERIAL GROUP SHOWN ON THE DRAWINGS AND SPECIFIED FOR THAT FLUID SERVICE.

NOTE 2
LEAKAGE ALLOWANCE IS AS FOLLOWS
A. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE.
B. PIPES SO DESIGNATED SHALL SHOW ZERO LEAKAGE FOR UNBURIED PIPE AND NOT MORE THAN 0.075 LITRES PER HOUR PER mm DIAMETER PER 30 m OF BURIED PIPE.
C. PIPES SO DESIGNATED SHALL NOT SHOW A LEAKAGE OF MORE THAN 0.055 LITRES PER HOUR PER mm OF DIAMETER PER 30 m OF PIPE.
D. PIPES SO DESIGNATED SHALL NOT SHOW A LOSS OF PRESSURE OF MORE THAN 5 PERCENT.
E. PIPE SO DESIGNATED SHALL NOT SHOW A LOSS OF VACUUM OF MORE THAN 100 mm MERCURY COLUMN.

NOTE 3
FOR FIELD TEST PROCEDURES AND ADDITIONAL TEST REQUIREMENTS, SEE PIPING SECTION OF SPECIFICATIONS.

NOTE 4
NO SUBSTITUTIONS U.N.O. IN THE SPECIFICATIONS.

NOTE 5
PIPING GROUP FUNCTION SHOWN THUS * SHALL BE INSULATED PER SPECIFICATIONS.

NOTE 6
STATIC WATER TEST WITH SURFACE 5 FEET ABOVE HIGH POINT OF PIPE.

NOTE 7
INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODE.

NOTE 8
NO APPARENT LEAKS UNDER NORMAL OPERATING CONDITIONS.

NOTE 9
INSPECTION AND TESTING SHALL BE IN ACCORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.

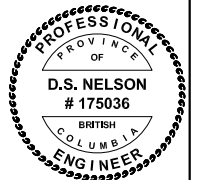
NOTE 10
PIPING MATERIALS SHALL BE IN ACCORDANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS.

NOTE 11
FOR VALVES 100 mm AND LARGER SEE VALVE SCHEDULE FOR SPECIAL VALVES SEE SPECIFICATIONS.

NOTE 12
CHANGE IN PIPING MATERIAL GROUP NUMBER IS INDICATED THUS: \rightarrow

NOTE 13
FOR FULL PIPE LINING AND COATING REQUIREMENTS, SEE SPECIFICATIONS.

NOTE 14
EXPOSED PIPING SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATIONS. COLORS TO BE SELECTED BY OWNER.



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			DRAWN D.L.		DATE 2015-10-20
			CHECKED D.S.N.	DRAWING NUMBER G-007	
			RECOMMENDED	REVISION	
			APPROVED M.C.R.		
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VALVES	PUMPS & COMPRESSORS	FITTINGS AND ACCESSORIES	FITTINGS AND ACCESSORIES
3 WAY MULTI-PORT VALVE 4 WAY MULTI-PORT VALVE AIR VACUUM, AIR RELEASE, OR AIR VACUUM AND AIR RELEASE ASSEMBLY ANGLE VALVE ANGLE CHECK VALVE BACKFLOW PREVENTER VALVE BACKWATER VALVE OR BALL VALVE BALL CHECK VALVE BUTTERFLY VALVE OR CHECK VALVE CONE VALVE DIAPHRAGM VALVE ECCENTRIC PLUG VALVE FLAP VALVE GATE VALVE GLOBE VALVE HB OR HOSE BIBB FROM TOP, FRONT AND SIDE VIEW WH OR WHARF HYDRANT FROM TOP, FRONT AND SIDE VIEW NEEDLE VALVE PRESSURE REGULATING VALVE PRESSURE RELIEF VALVE SLEEVE VALVE STOP CHECK VALVE TELESCOPING VALVE	HORIZONTAL ANSI END SUCTION PUMP CENTRIFUGAL PUMP CHEMICAL METERING PUMP CIRCULATING PUMP DRUM PUMP GEAR PUMP OR ROTARY POSITIVE DISPLACEMENT BLOWER HOSE PUMP PROGRESSIVE CAVITY PUMP ROTARY LOBE PUMP SUBMERSIBLE PUMP VERTICAL TURBINE PUMP PISTON DRIVEN COMPRESSOR COMPRESSOR M LEVEL TRANSMITTER	ANNULAR SEAL ATMOSPHERIC VENT BLIND FLANGE CAP - QUICK DISCONNECT MALE QUICK DISCONNECT WITH CAP FEMALE QUICK DISCONNECT WITH CAP CONDENSATE TRAP INJECTOR/EDUCTOR OR LEVEL SWITCH CALIBRATION COLUMN MM UM DIAPHRAGM SEAL DRAIN EXPANSION JOINT OR FLEXIBLE CONNECTION FCO FLOOR CLEANOUT FLOOR DRAIN FLOOR SINK HUB DRAIN VOLUMETRIC FEEDER MECHANICAL TYPE COUPLING PIPE SUPPORT (PLAN) PULSATION DAMPENERS REDUCER - CONCENTRIC REDUCER - ECCENTRIC	REMOVABLE SPOOL PIECE SLEEVE TYPE COUPLING STRAINER - WYE TYPE PRESSURE GAGE W/O DIAPHRAGM SEAL PRESSURE GAGE AND SWITCH WITH DIAPHRAGM SEALS UNION WCO WALL CLEANOUT
	VALVE AND GATE ACTUATORS E ELECTRIC ACTUATOR H HYDRAULIC ACTUATOR P PNEUMATIC ACTUATOR S SOLENOID ACTUATOR HAND / MANUAL ACTUATOR		
GATES SLIDE GATE (CAST IRON, ALUMINUM OR STAINLESS STEEL) STOP GATE OR SHEAR GATE			



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McMILLEN JACOBS ASSOCIATES

DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STANDARD MECHANICAL SYMBOLS	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER G-008
RECOMMENDED		REVISION
APPROVED M.C.R.		

NO.	DATE	REVISIONS
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GENERAL CIVIL NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE FOR EXISTING UTILITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS, FOR POINTS OF CONNECTIONS AND IDENTIFY INTERFERENCES.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN.
3. THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATION OF UTILITIES, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 915 mm COVER ON TOP OF ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
5. ELEVATIONS SHOWN ARE TO INVERT (FLOWLINE) OF CONDUIT. UNLESS OTHERWISE NOTED.
6. STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERTS SHOWN OR SPECIFIED.
7. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED. MANHOLES IN OPEN FIELDS SHALL BE SET ONE FOOT ABOVE GRADE. RIM ELEVATIONS ARE SHOWN ON DRAWINGS.
8. ALL PIPE TRENCHING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
9. ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF BUILDING FOUNDATION STEM WALL CONCRETE UNLESS OTHERWISE NOTED.
10. PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY AGENCIES.
11. FOR PIPING INSIDE STRUCTURES SEE PROCESS MECHANICAL, PLUMBING AND HVAC DRAWINGS.
12. THE CONTRACTOR SHALL PROVIDE (TWO) MECHANICAL SLEEVE COUPLINGS FOR EACH PIPE PENETRATING A STRUCTURE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS THE CONNECTION SHALL BE AT 0.5 AND 1.5 METERS OUTSIDE OF CONCRETE STRUCTURE, UNLESS SHOWN OTHERWISE.
13. CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.
14. CONTRACTOR SHALL PROVIDE TRANSITION COUPLINGS AT ALL YARD PIPE JOINTS WHERE THERE IS A MATERIAL CHANGE, UNLESS NOTED OTHERWISE.
15. ALL SLEEVE COUPLINGS ON YARD PIPING SHALL BE UNRESTRAINED, UNLESS NOTED OTHERWISE.

GENERAL CIVIL ABBREVIATIONS

EOP	EDGE OF PAVEMENT
EST	END SLOPE TRANSITION
PC	POINT OF CURVATURE
POB	POINT OF BEGINNING
POE	POINT OF END
PT	POINT OF TANGENCY
RP	RADIUS POINT
SST	START SLOPE TRANSITION

CONTROL SYMBOLS

- | | | |
|-----------|-------|-----------------------------|
| | BM-XX | BENCH MARK |
| | | SITE COORDINATES |
| | | HORIZONTAL CONTROL POINT |
| | | VERTICAL CONTROL POINT |
| | | HORZ AND VERT CONTROL POINT |
| + 80.00 | | FINISHED ELEVATION |
| x (80.00) | | EXISTING ELEVATION |
| | B-1 | SOIL BORING LOCATION |
| | TP-5 | TEST PIT LOCATION |
| | | MONITORING WELL |
| | | PRODUCTION WELL |
| | | EXST WELL |

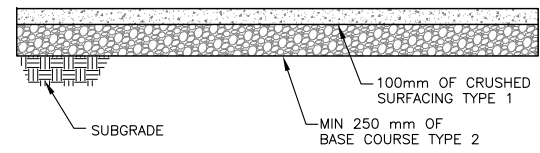
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10	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	DESIGNED M.C.R./O.S.D	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE CIVIL GENERAL NOTES AND SYMBOLS	SCALE AS SHOWN
						DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.	DRAWING NUMBER GC-001							
RECOMMENDED	REVISION							
APPROVED M.C.R.								
APPROVED						ISSUED FOR TENDER		

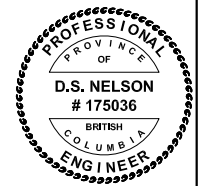


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GENERAL GRAVEL SURFACING DETAIL C101
SCALE: NTS

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						DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.	DRAWING NUMBER GC-002							
RECOMMENDED	REVISION							
APPROVED M.C.R.								
DWG NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	APPROVED		

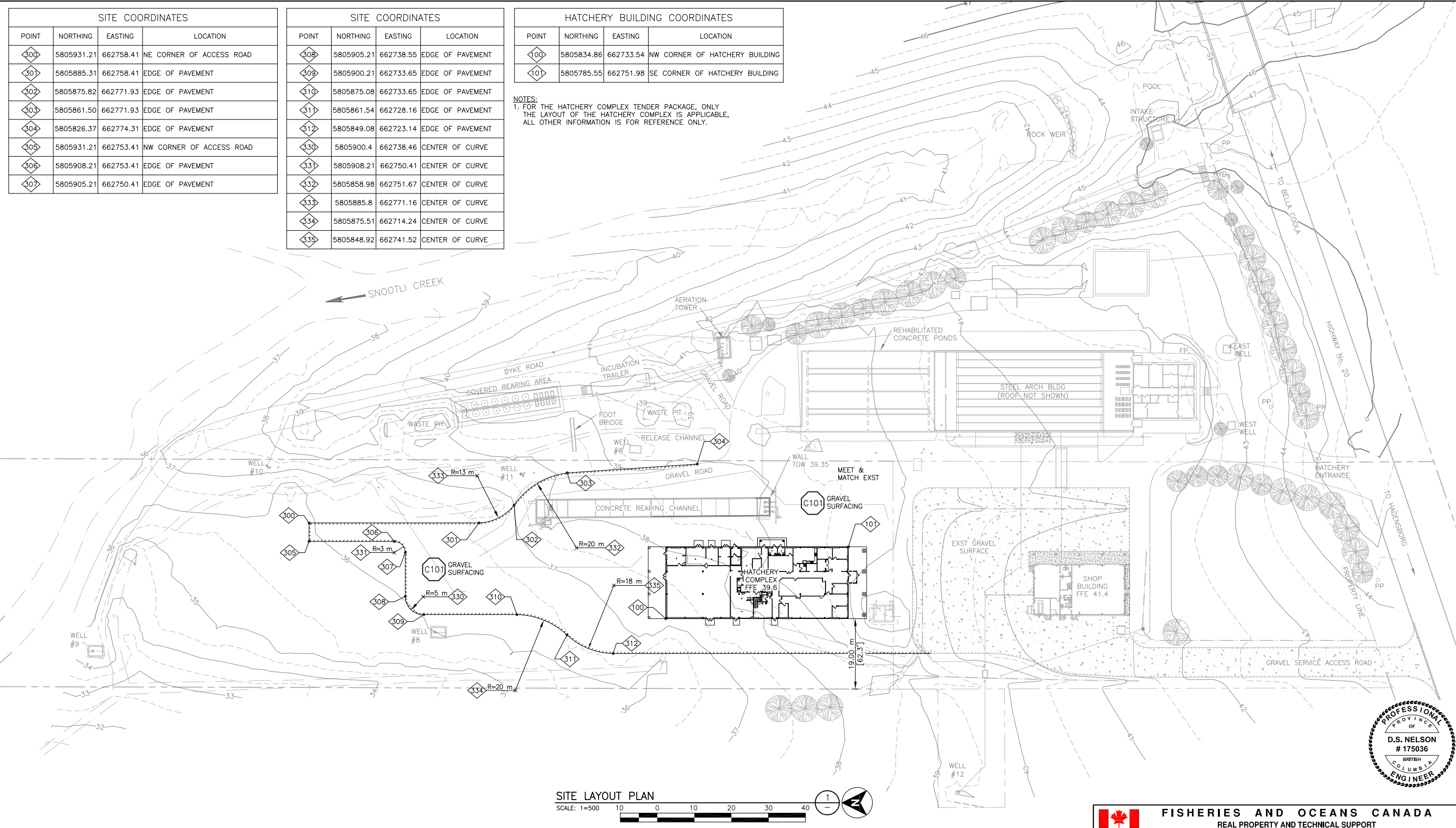
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SITE COORDINATES			
POINT	NORTHING	EASTING	LOCATION
300	5805931.21	662758.41	NE CORNER OF ACCESS ROAD
301	5805885.31	662758.41	EDGE OF PAVEMENT
302	5805875.82	662771.93	EDGE OF PAVEMENT
303	5805861.50	662771.93	EDGE OF PAVEMENT
304	5805826.37	662774.31	EDGE OF PAVEMENT
305	5805931.21	662753.41	NW CORNER OF ACCESS ROAD
306	5805908.21	662753.41	EDGE OF PAVEMENT
307	5805905.21	662750.41	EDGE OF PAVEMENT

SITE COORDINATES			
POINT	NORTHING	EASTING	LOCATION
308	5805905.21	662738.55	EDGE OF PAVEMENT
309	5805900.21	662733.65	EDGE OF PAVEMENT
310	5805875.08	662733.65	EDGE OF PAVEMENT
311	5805861.54	662728.16	EDGE OF PAVEMENT
312	5805849.08	662723.14	EDGE OF PAVEMENT
330	5805900.4	662738.46	CENTER OF CURVE
331	5805908.21	662750.41	CENTER OF CURVE
332	5805858.98	662751.67	CENTER OF CURVE
333	5805885.8	662771.16	CENTER OF CURVE
334	5805875.51	662714.24	CENTER OF CURVE
335	5805848.92	662741.52	CENTER OF CURVE

HATCHERY BUILDING COORDINATES			
POINT	NORTHING	EASTING	LOCATION
100	5805834.86	662733.54	NW CORNER OF HATCHERY BUILDING
101	5805785.55	662751.98	SE CORNER OF HATCHERY BUILDING

NOTES:
 1. FOR THE HATCHERY COMPLEX TENDER PACKAGE, ONLY THE LAYOUT OF THE HATCHERY COMPLEX IS APPLICABLE. ALL OTHER INFORMATION IS FOR REFERENCE ONLY.



SITE LAYOUT PLAN
 SCALE: 1=500



FISHERIES AND OCEANS CANADA
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SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE
SITE LAYOUT PLAN
AND SITE COORDINATES

SCALE	AS SHOWN
DATE	2015-10-20
DRAWING NUMBER	C-101
REVISION	

DESIGNED	M.C.R./O.S.D
DRAWN	D.L.
CHECKED	D.S.N.
RECOMMENDED	
APPROVED	M.C.R.
APPROVED	

NO.	01	DATE	2015-10-20	ISSUED FOR TENDER
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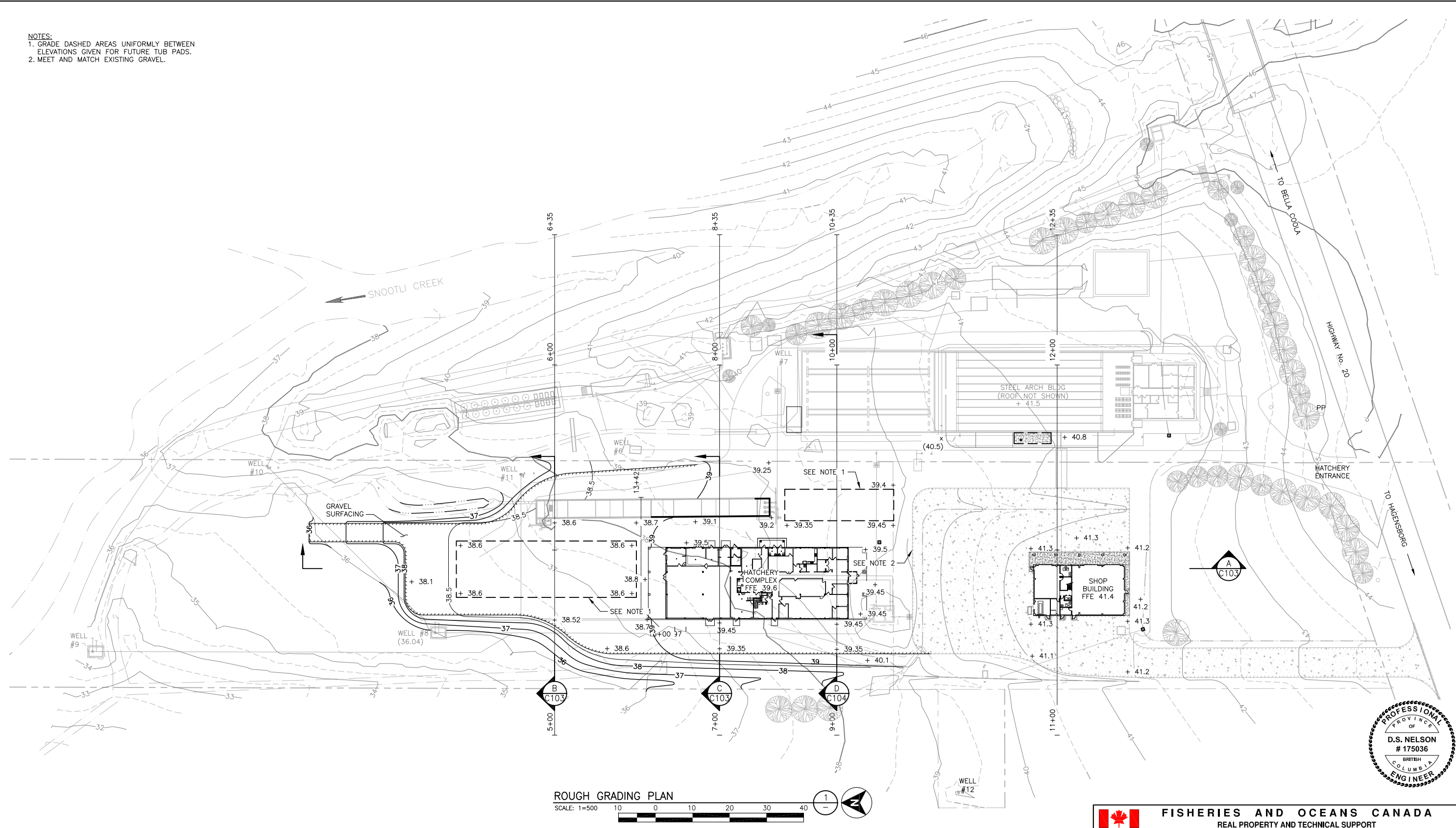


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DRAWING REFERENCES	
NOTES	

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NOTES:
 1. GRADE DASHED AREAS UNIFORMLY BETWEEN ELEVATIONS GIVEN FOR FUTURE TUB PADS.
 2. MEET AND MATCH EXISTING GRAVEL.



ROUGH GRADING PLAN
 SCALE: 1=500



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13	DWG NO.
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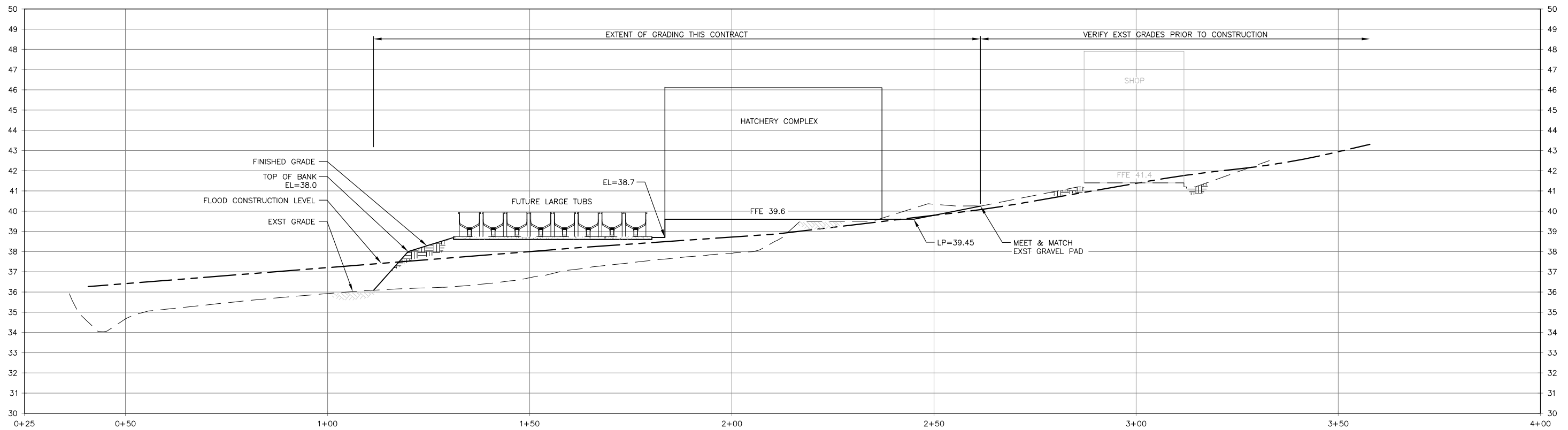

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DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE ROUGH GRADING PLAN	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER C-102
RECOMMENDED		REVISION
APPROVED M.C.R.		

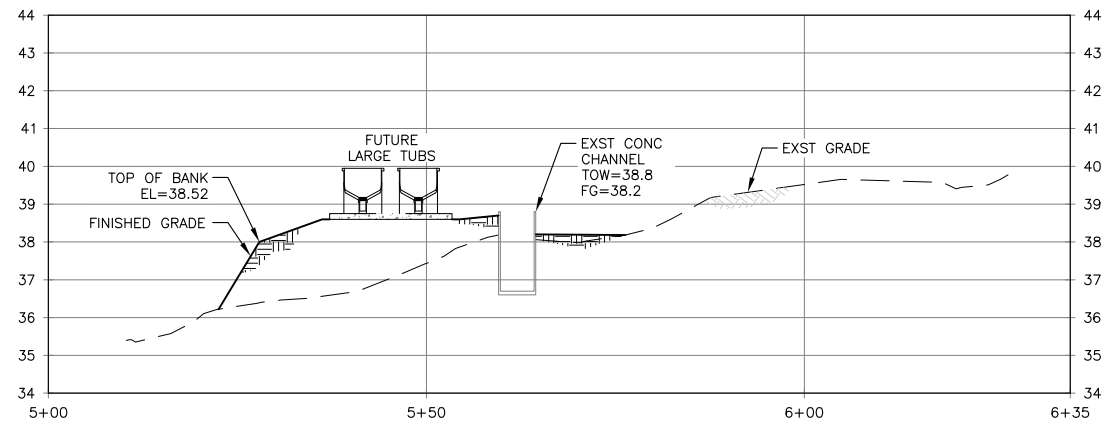
NO.	DATE	ISSUED FOR TENDER	REVISIONS
01	2015-10-20	ISSUED FOR TENDER	

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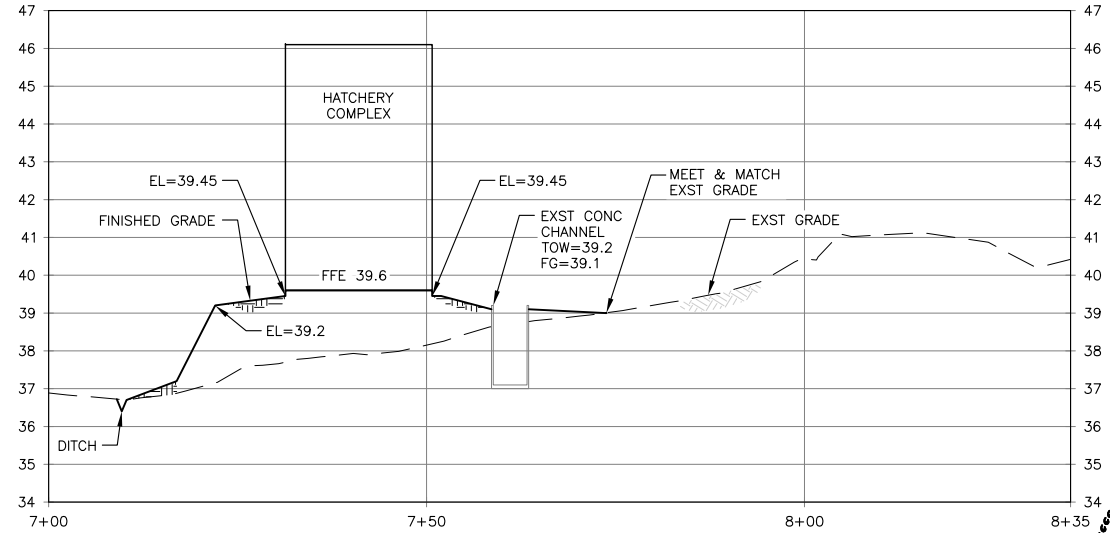
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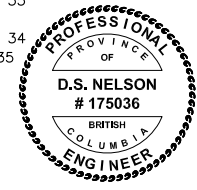
ROUGH GRADING SECTION
 SCALE HORIZ: 1=500
 SCALE VERT: 1=100
 A
 C102



ROUGH GRADING SECTION
 SCALE HORIZ: 1=500
 SCALE VERT: 1=100
 B
 C102

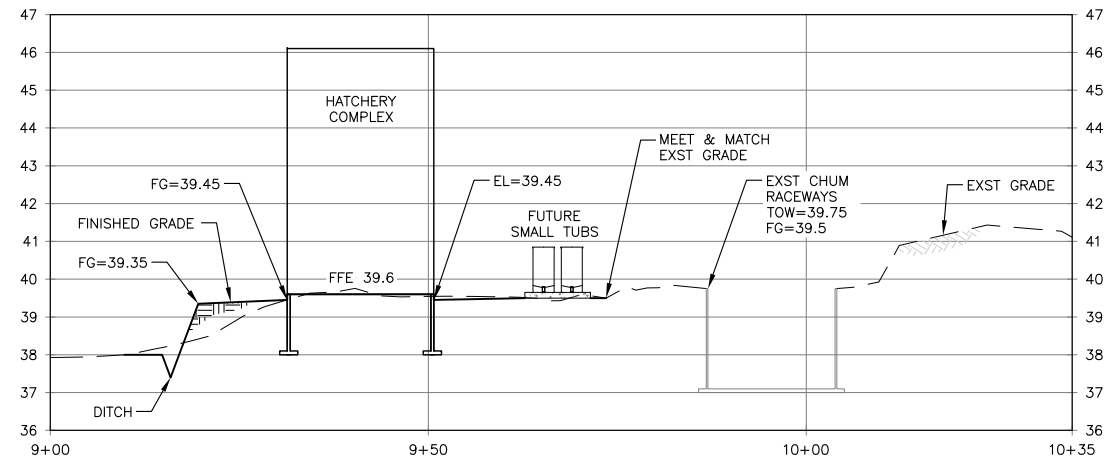


ROUGH GRADING SECTION
 SCALE HORIZ: 1=500
 SCALE VERT: 1=100
 C
 C102



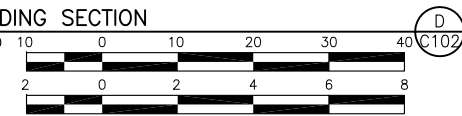
FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

14	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p> <p><small>This Copyright design and drawing is the sole and exclusive property of SILK STEVENS LIMITED. Reproduction or use of this drawing without the prior written consent is strictly prohibited.</small></p>	<p>McMILLEN JACOBS ASSOCIATES</p>	01	2015-10-20	ISSUED FOR TENDER	DESIGNED M.C.R./O.S.D. DRAWN D.L. CHECKED D.S.N. RECOMMENDED APPROVED M.C.R. APPROVED	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE ROUGH GRADING SECTIONS 1	SCALE AS SHOWN	C-103
			DWG NO.	DRAWING REFERENCES	NO.			DATE	



ROUGH GRADING SECTION

SCALE HORIZ: 1=500
SCALE VERT: 1=100



PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\CAD\HATCHERY COMPLEX PACKAGE\HC_C104.DWG



FISHERIES AND OCEANS CANADA
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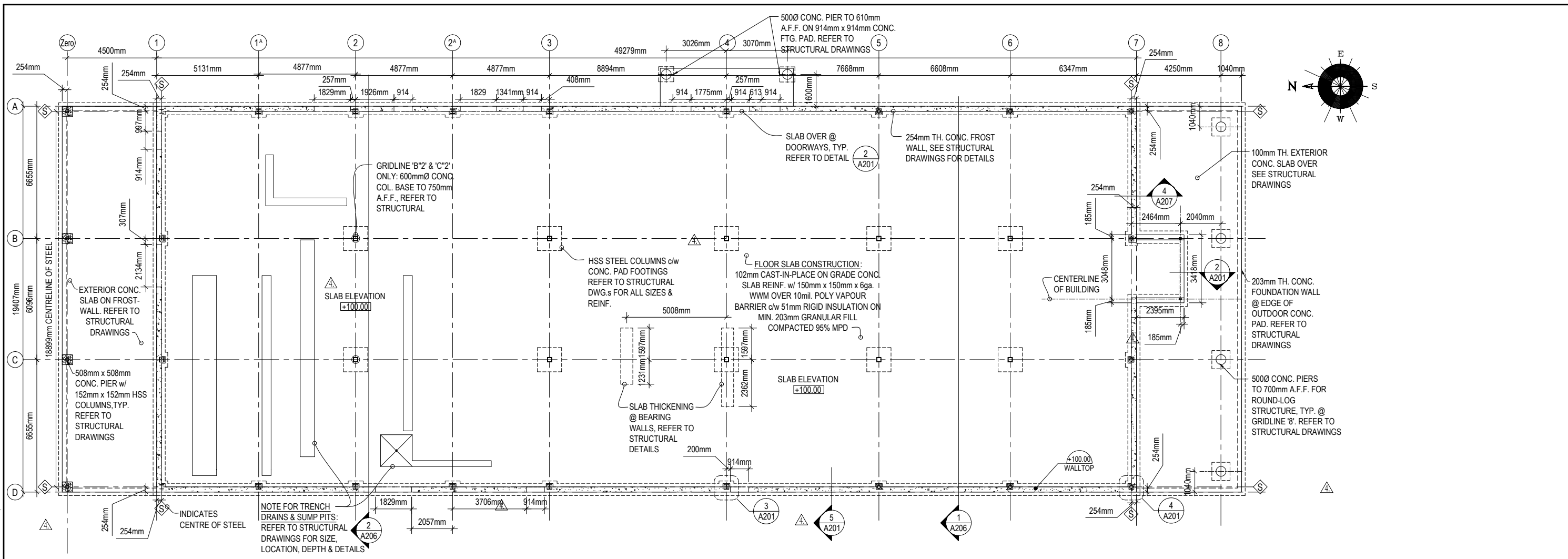
15	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	DESIGNED M.C.R./O.S.D	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE ROUGH GRADING SECTIONS 2	SCALE AS SHOWN
						DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.	DRAWING NUMBER C-104							
RECOMMENDED	REVISION							
APPROVED M.C.R.								
APPROVED								



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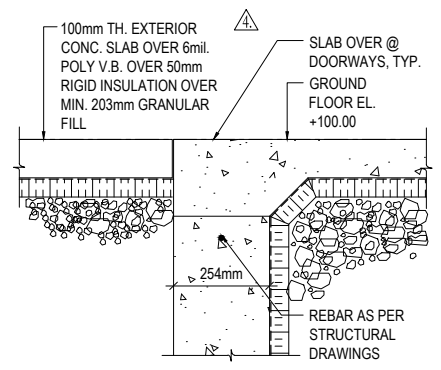
01 2015-10-20 ISSUED FOR TENDER

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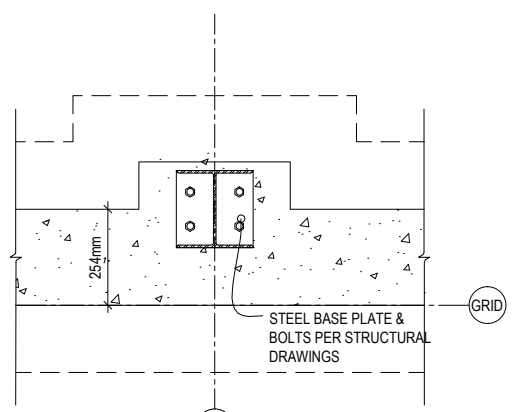


FOUNDATION PLAN 1
SCALE: 1 : 100

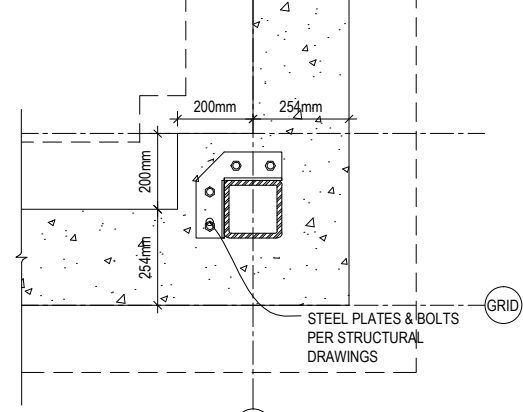
- FOUNDATION NOTES:**
- FOUNDATION ELEVATION @ +100.00 METRIC COINCIDES WITH SITE-DETERMINED GROUND FLOOR ELEVATION OF +39.60m
 - REFER TO STRUCTURAL DRAWINGS FOR STEEL & BASPLATE SIZES/DIMENSIONS



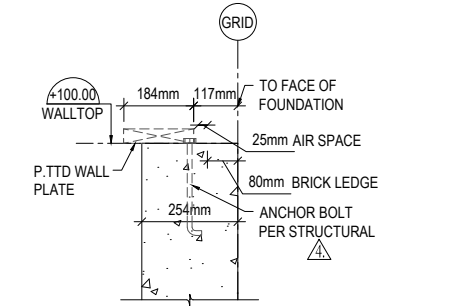
SECTION DETAIL: SLAB OVER @ DOORWAYS, TYP. 2
SCALE: 1 : 10



PLAN DETAIL: PILASTER @ COLUMNS, TYP. 3
SCALE: 1 : 10



PLAN DETAIL: PILASTERS @ SOUTH COLUMNS 4
SCALE: 1 : 10



SECTION DETAIL: FOUNDATION WALLTOP, TYP. 5
SCALE: 1 : 10

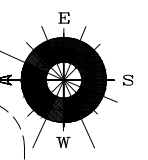
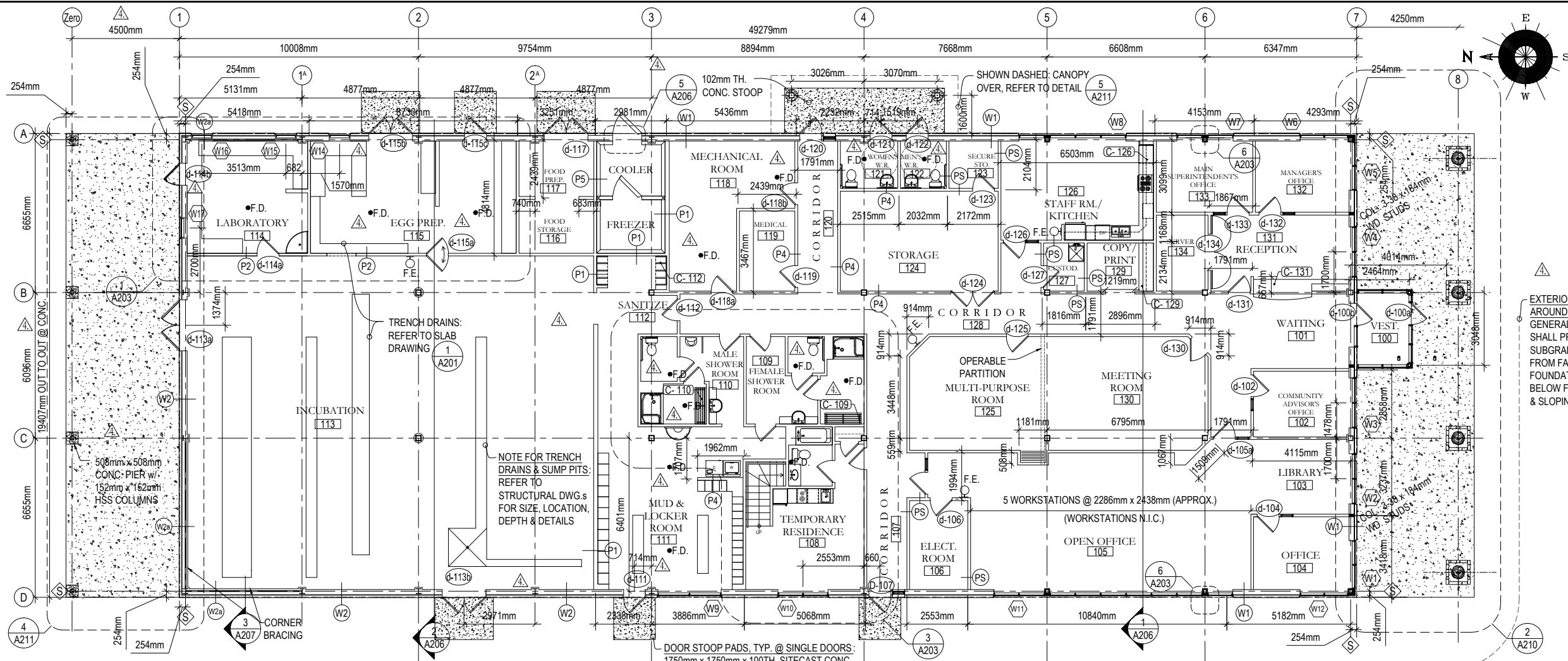
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FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY		SCALE AS SHOWN
HATCHERY COMPLEX PACKAGE		DATE 2015-10-20
FOUNDATION PLAN & DETAILS		DRAWING NUMBER A-201
		REVISION

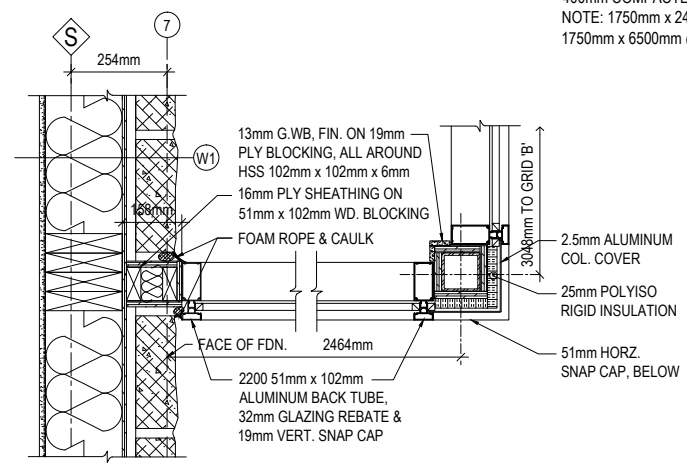
16	DRAWING REFERENCES	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p> <p>This Copyright design and drawing is the sole and exclusive property of SILK STEVENS LIMITED. Reproduction or use of this drawing without the prior written consent is strictly prohibited.</p>	<p>COMEAU MACKENZIE ARCHITECTURE 183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7 TEL: (506) 657-1611 mackarch@nbnet.nb.ca</p>	DESIGNED P.G.M.	NO.	DATE	ISSUED FOR TENDER
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				RECOMMENDED			
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				APPROVED			

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EXTERIOR GRADES AROUND BUILDING: GENERAL CONTRACTOR SHALL PROVIDE FINISHED SUBGRADE TO 305mm FROM FACE OF FOUNDATION, 200mm BELOW FINISHED GRADE & SLOPING AWAY 5%

GROUND FLOOR PLAN
SCALE: 1 : 100
NOTES:
1. CASEWORK AS LABELLED (C), REFER TO DRAWING A208
2. CEILINGS: REFER TO REFLECTED CEILING PLAN, DRAWING A205



PLAN DETAIL: FRAMING @ VESTIBULE CURTAINWALL
SCALE: 1 : 10

PLAN DETAIL: COLUMN FINISH, TYP.
SCALE: 1 : 10

DOOR STOOP PADS, TYP. @ SINGLE DOORS: 1750mm x 1750mm x 100TH. SITECAST CONC. REINF. w/ 4mm x 4mm x 150mm SLAB MESH, OVER 50mm RIGID INSULATION, OVER MIN. 400mm COMPACTED GRANULAR FILL. NOTE: 1750mm x 2440mm @ DOUBLE DOORS. 1750mm x 6500mm @ WASHROOM AREA

- WALL & PARTITION SCHEDULE:**
- (W1) EXTERIOR WALL - GENERAL OFFICE AREA
 - 102mm CONC. MASONRY VENEER TO 2.185m A.F.F.
 - COMPOSITE ALUMINUM PANEL FROM 2.185m A.F.F. TO WALLTOP
 - 25mm AIRSPACE
 - MOD. BITUMEN ICE & WATER SHIELD, HORZ. SELVAGE TOP-EDGE FASTENED ONLY
 - 12mm PLY SHEATHING
 - 38 x 184 WD. STUD, 400mm o/c
 - 190mm GLASS FIBRE BATT INSULATION
 - 6mil. POLY V.B.
 - 16mm TYPE 'X' G.W.B. FIN.
 - (W2) EXTERIOR WALL-PROCESS AREAS
 - 102mm CONC. MASONRY VENEER TO 2.249m A.F.F.
 - COMPOSITE ALUMINUM PANEL FROM 2.249m A.F.F. TO WALLTOP
 - 25mm AIRSPACE
 - MOD. BITUMEN ICE & WATER SHIELD, HORZ. SELVAGE, TOP-EDGE FASTENED ONLY
 - 12mm PLY SHEATHING
 - 41mm x 203mm MET. STUD, 400mm o/c
 - ROCKWOOL INSULATION
 - 6mil. POLY V.B.
 - 12mm CEMENTITIOUS BOARD
 - EPOXY COATING TO +2700mm A.F.F., PAINT ABOVE PER FIN. SCHEDULE
 - (W2a) EXTERIOR WALL-PROCESS AREAS:
 - W2 WALL CONSTRUCTION c/w STRUCTURAL X-BRACING WITHIN WALL. REFER TO WALL SECTION DETAIL 3/A207
 - (P1) SEPARATION PARTITION - OFFICE/ADMIN TO PROCESS AREAS (FLOOR TO u/s OF STRUCTURE OVER):
 - FIBRE RESIN PANEL FINISH, PROCESS SIDE, TO +2.7m A.F.F.
 - 12mm CEMENTITIOUS BOARD, JOINTS FILLED
 - 38mm x 190mm MET. STUD, 18ga, 400mm o/c, BRACING PER STRUCTURAL
 - 190mm MINERAL FIBRE INSULATION
 - 6mil. POLY V.B.
 - 16mm TYPE 'X' G.W.B. FIN
 - (P2) PROCESS AREA PARTITIONS, TO +2.5m A.F.F., TYPICAL:
 - FIBRE RESIN PANEL FINISH, LAB/EGG PREP SIDE
 - ROCKWOOL INSULATION
 - 12mm CEMENTITIOUS BOARD
 - 38mm x 89mm MET. STUD, 400mm o/c
 - 12mm CEMENTITIOUS BOARD
 - EPOXY COATING PER FIN. SCHEDULE
 - (P3) RESIDENT'S QUARTERS:
 - F.S., 1hr. F.R.R., LOADBEARING, TO u/s OF STRUCTURE OVER
 - 16mm TYPE 'X' G.W.B. FIN.
 - 38mm x 89mm LOADBEARING MET. STUD, 400mm o/c
 - 89mm MINERAL FIBRE INSULATION
 - RESILIENT CHANNEL (RESIDENCE SIDE)
 - 16mm TYPE 'X' G.W.B. FIN.
 - (P4) OFFICE PARTITIONS, TYP. TO +2.7m A.F.F.:
 - 12mm G.W.B. FIN
 - 38mm x 89mm WD. OR METAL STUD, 400mm o/c
 - 89mm MINERAL FIBRE INSULATION
 - 12mm G.W.B. FIN.
 - (P5) FREEZER FURR-OUT TO +2.5m A.F.F.:
 - FIBRE RESIN PANEL FINISH, FOOD PREP SIDE
 - 12mm CEMENTITIOUS BOARD
 - 38mm x 89mm MET. STUD, 400mm o/c
 - (PS) SERVICE ROOM PARTITIONS:
 - F.S., 1hr. F.R.R., TO RATED CEILING OVER @ +2.4m A.F.F.
 - 16mm TYPE 'X' G.W.B. ea. SIDE, FIN.
 - 38mm x 89mm WD. OR MET. STUD, 400mm o/c

REGISTRATION PENDING

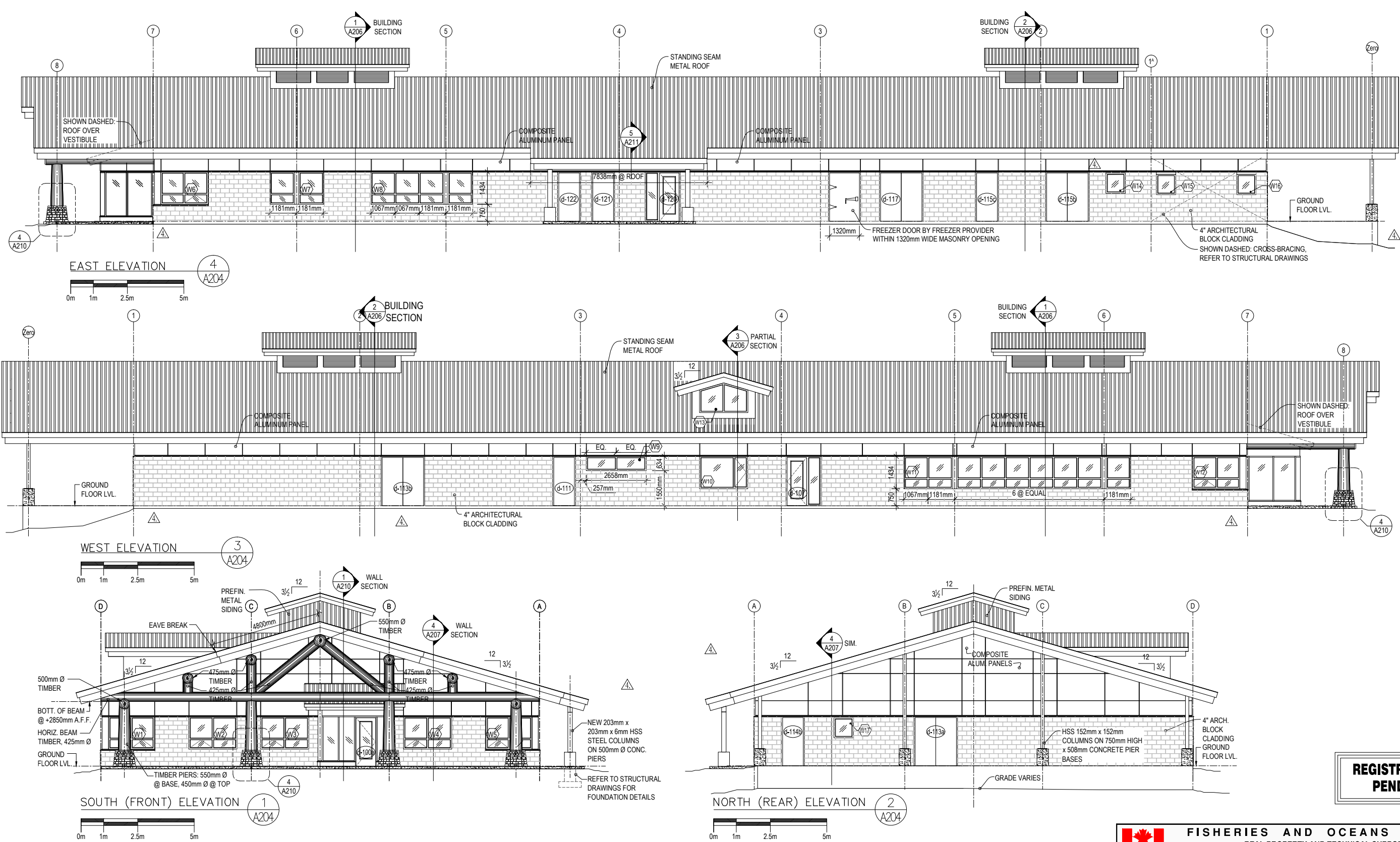
FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

	<p>SNOOTLI CREEK HATCHERY</p> <p>HATCHERY COMPLEX PACKAGE</p> <p>GROUND FLOOR PLAN & DETAILS</p>	SCALE AS SHOWN DATE 2015-10-20 DRAWING NUMBER A-202 REVISION
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17	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>COMEAU MACKENZIE ARCHITECTURE</p> <p>183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7 TEL: (506) 657-1611 mackarch@nbnet.nb.ca</p>	DESIGNED P.G.M. DRAWN A.E.P. CHECKED RECOMMENDED APPROVED APPROVED	NO. 01 DATE 2015-10-20 ISSUED FOR TENDER	REVISIONS
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FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE
EXTERIOR ELEVATIONS

SCALE AS SHOWN
DATE 2015-10-20
DRAWING NUMBER A-204
REVISION

19	DRAWING REFERENCES
DWG. NO.	NOTES

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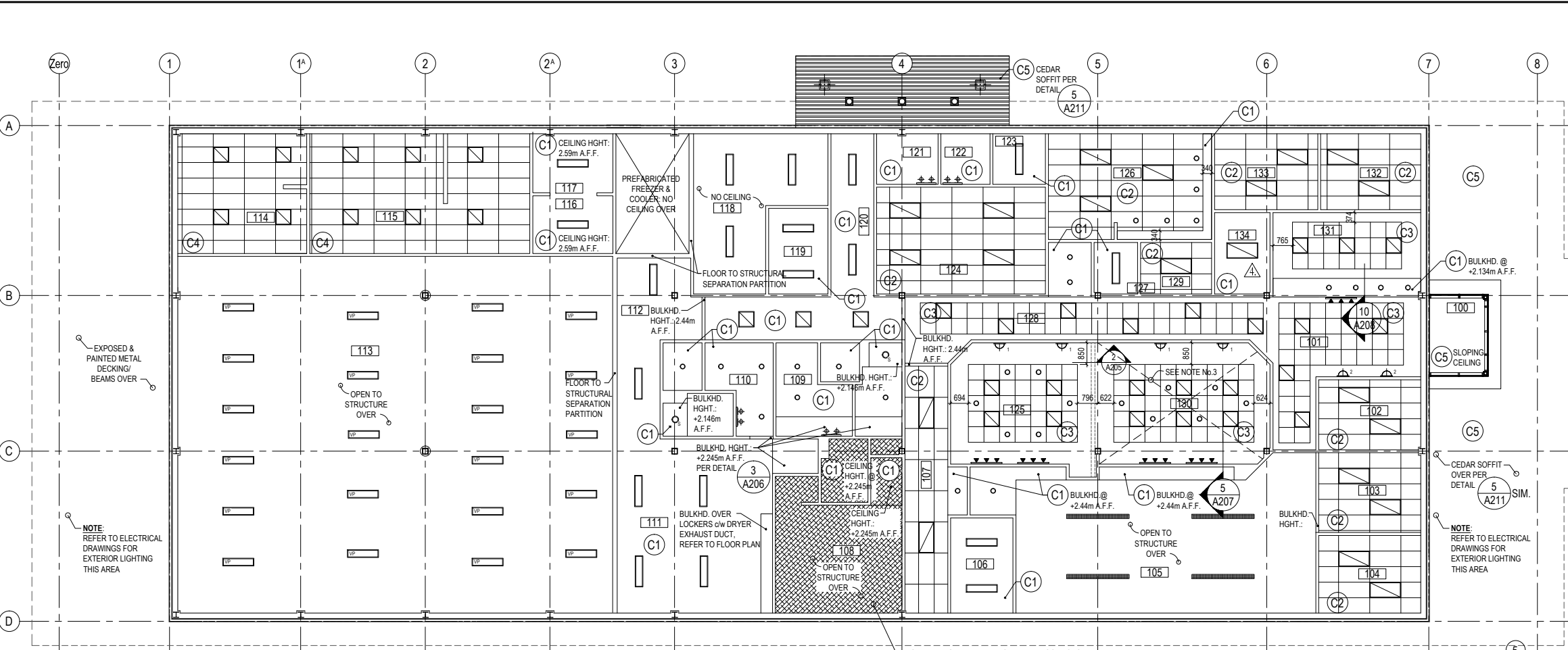
**COMEAU
MACKENZIE
ARCHITECTURE**

183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7
TEL: (506) 657-1611 mackarch@nbnet.nb.ca

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APPROVED			

REVISIONS	
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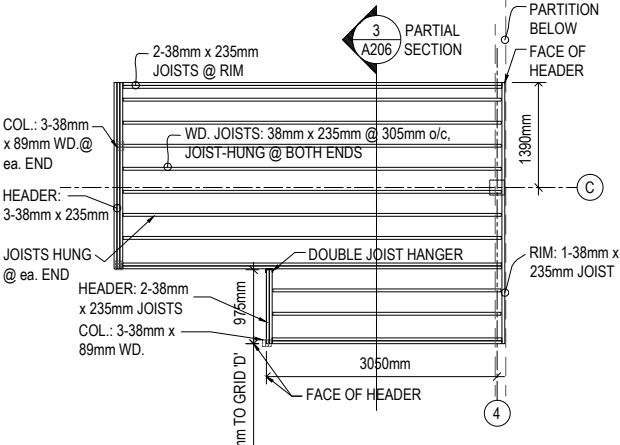
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REFLECTED CEILING PLAN 1 A205
SCALE: 1 : 100

LIGHT FIXTURE SCHEDULE:
REFER TO MECHANICAL & ELECTRICAL DWG.S FOR SPECIFICATIONS RE: GRILLES, DIFFUSERS, FIXTURES, SENSORS & OTHER CEILING DEVICES

	610mm x 1220mm RECESSED FLUORESCENT LUMINAIRE		EXTERIOR GRADE POTLITE, SEALED LENS
	610mm x 610mm RECESSED FLUORESCENT LUMINAIRE		SHOWER POTLITE, RECESSED
	2440mm DIRECT/INDIRECT SUSPENDED FLUORESCENT SERVICE GRADE		TRACK LIGHTING c/w 3-GU10 HEADS PER 1220mm LENGTH
	210mm Ø RECESSED CFL DOWNLIGHT/ PARABOLIC BAFFLE		304mm x 1220mm VAPOUR TIGHT SUSPENDED FLUORESCENT
	75mm Ø RECESSED HALOGEN DOWNLIGHT		OVER MIRROR: 3-LAMP FIXTURE
	WALL SCONCE STAINLESS, HALOGEN, 1 - 2 LAMPS AS NOTED		
	EXTERIOR COLUMN LIGHT		



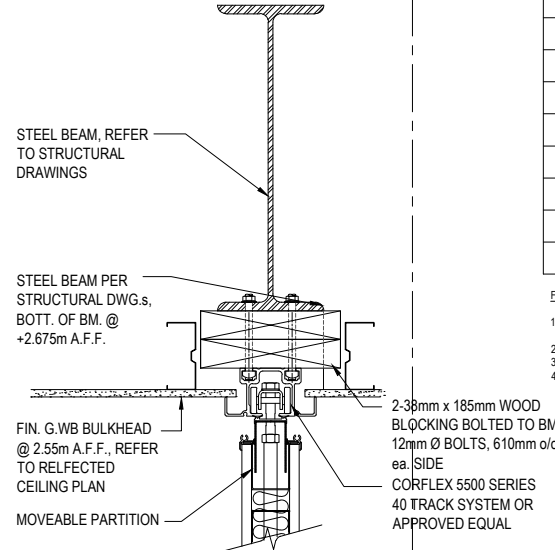
PLAN DETAIL: FRAMING @ LOFT LEVEL, TEMPORARY RESIDENCE 3 A205
SCALE: 1 : 50

CEILING FINISH SCHEDULE:

C1	G.WB CEILING @ +2.55m A.F.F., OR AT HEIGHT AS SHOWN
C2	610mm x 1220mm ACOUSTIC TILE CEILING @ +2.55m A.F.F.
C3	610mm x 610mm TEGULAR EDGE CEILING TILE @ +2.75m A.F.F., c/w DECORATIVE BULKHEADS AS SHOWN @ +2.55m A.F.F.
C4	610mm x 1220mm FRP PANEL IN SUSPENSION GRID, @ +2.55m A.F.F., BELOW G.WB CEILING @ +2.75m A.F.F. OVER, REFER TO SECTION 2 A206
C5	19mm x 125mm T&G, V-NOTCH CEDAR SOFFIT, STAINED @ UNDERSIDE OF ROOF JOIST OVER, REFER TO SECTION DETAILS ON DWG. A210

NOTES:

- BULKHEADS AS SHOWN: 13mm G.WB ON WOOD OR METAL STUD, GEOMETRY AS SHOWN
- G.WB BULKHEADS ABOVE CASEWORK: CO-ORDINATE HEIGHT w/ CASEWORK DETAILS PER DRAWING A208
- ACOUSTIC SEPARATION CEILING OVER MEETING ROOM @ 3.25m A.F.F. PER DETAIL 4/A205



SECTION DETAIL: OPERABLE PARTITION TRACK @ CEILING 2 A205
SCALE: 1 : 5

FINISH SCHEDULE:

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS (FEATURE WALL INDICATED)	CEILING	NOTES
100	VESTIBULE	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	
101	WAITING ROOM	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C1	
102	COMM. ADVISOR	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
103	LIBRARY	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
104	OFFICE	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
105	OPEN OFFICE	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	PAINTED STRUCTURE OVR.	
106	ELECTRICAL ROOM	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	RATED 1hr.F.R.R.
107	CORRIDOR	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
108	RESIDENTIAL SUITE	RESILIENT SHEET FLOORING	VINYL			SEE NOTE #4
108a	KITCHEN, DINING, LIVING ROOM	RESILIENT SHEET FLOORING	VINYL	PAINT	SUSPENDED ACOUSTIC C1	
108b	WASHROOM	RESILIENT SHEET FLOORING	VINYL			
108c	LOFT LEVEL	CARPET TILE	CARPET	PAINT	PAINTED STRUCTURE OVR.	
109	FEMALE SHOWER	RESILIENT SHEET FLOORING	VINYL	PAINT, TILE DADO TO 1500mm A.F.F.	G.WB, PAINTED	
110	MALE SHOWER	RESILIENT SHEET FLOORING	VINYL	PAINT, TILE DADO TO 1500mm A.F.F.	G.WB, PAINTED	
111	MUD ROOM	RESILIENT SHEET FLOORING	VINYL	PAINT		
112	SANITIZE	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	
113	INCUBATION	FLOOR HARDENER		EPOXY COATING TO 1500mm A.F.F.	PAINTED STRUCTURE OVR.	
114	LABORATORY	EPOXY AGG		EPOXY COATING TO 1500mm A.F.F.	G.WB, PAINTED	
115	EGG PREP	EPOXY AGG		EPOXY COATING TO 1500mm A.F.F.	G.WB, PAINTED	
116/117	FOOD STORAGE / PREPARATION	EPOXY AGG		EPOXY COATING TO 1500mm A.F.F.	G.WB, PAINTED	OPEN OVER
118	MECHANICAL ROOM	FLOOR HARDENER		PAINT		
119	MEDICAL	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	
120	CORRIDOR	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
121/122	WASHROOMS	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	G.WB, PAINTED	
123	SECURE STORAGE	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	SEE NOTE #1
124	STORAGE	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	
125	MULTI-PURPOSE	CARPET TILE	CARPET	PAINT, VINYL WC	SUSPENDED ACOUSTIC C1	BLKHD. DETAIL SEE NOTE No. 3
126	STAFF KITCHEN	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
127	CUSTODIAL	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	
128	CORRIDOR	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
129	COPY/PRINT	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	
130	MEETING ROOM	CARPET TILE	CARPET	PAINT, VINYL WC	SUSPENDED ACOUSTIC C1	BLKHD. DETAIL SEE NOTE No. 3
131	RECEPTION	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C1	FEATURE WALL DETAIL
132	MANAGER	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
133	SUPERINTENDENT'S OFFICE	RESILIENT SHEET FLOORING	VINYL	PAINT, VINYL WC	SUSPENDED ACOUSTIC C2	
134	SERVER	RESILIENT SHEET FLOORING	VINYL	PAINT	G.WB, PAINTED	SEE NOTE #1

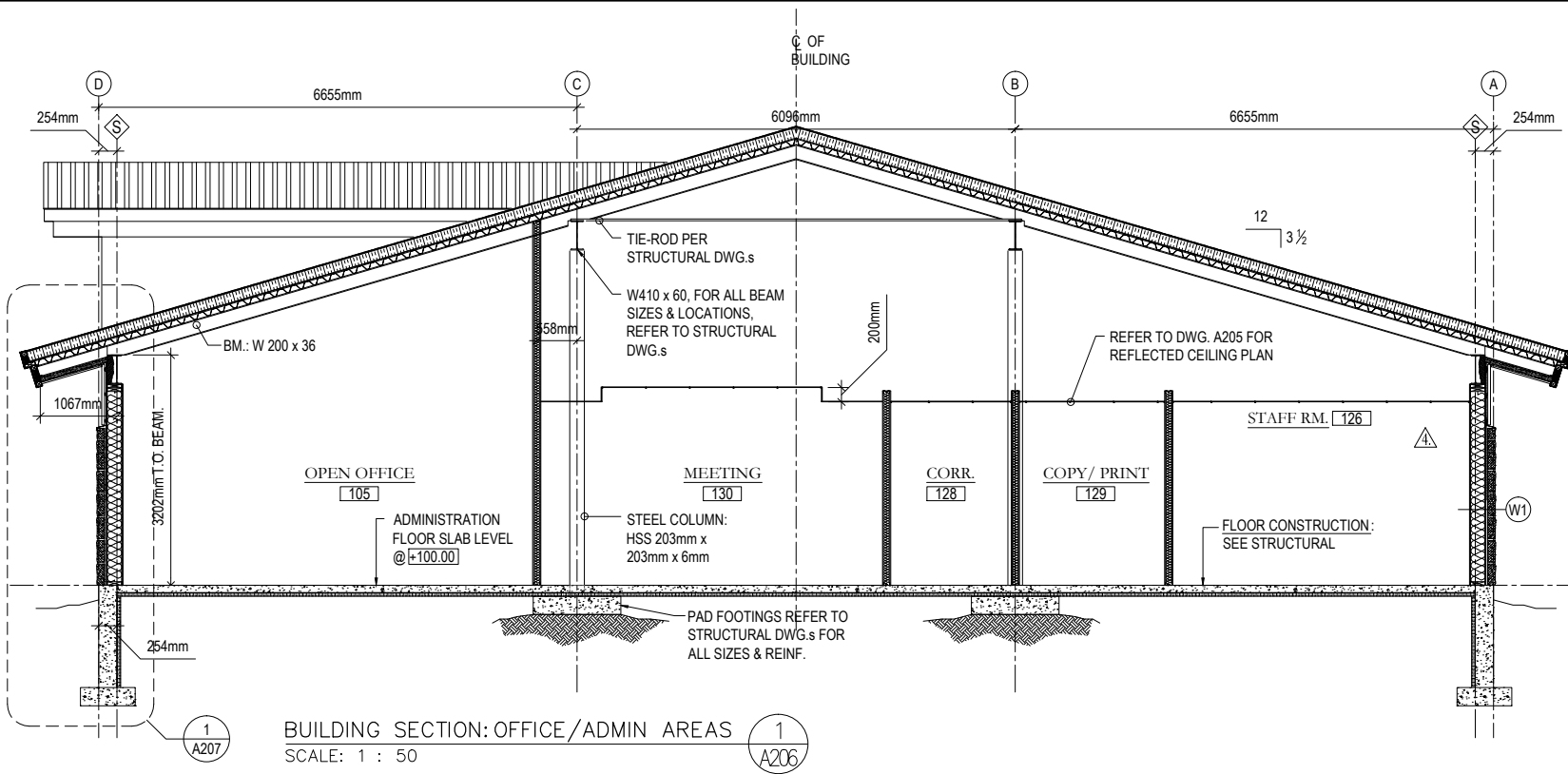
FINISH SCHEDULE NOTES:

- CEILING MEMBRANE OVER, PAINTED G.WB. ON 12mm PLY ON 38mm x 138mm WOOD JOISTS, 406mm o/c. REFER TO DETAIL 9/A-207
- EPOXY AGGREGATE FLOOR AREAS INCLUDE 6" EPOXY AGGREGATE COVE BASE. PER DETAIL 7/A211
- GYPSUM WALLBOARD CEILING (FINISHED & PAINTED) ABOVE ACOUSTIC CEILINGS
- TEMPORARY RESIDENCE: REFER TO SEPARATE FINISH SCHEDULE IN SPECIFICATION

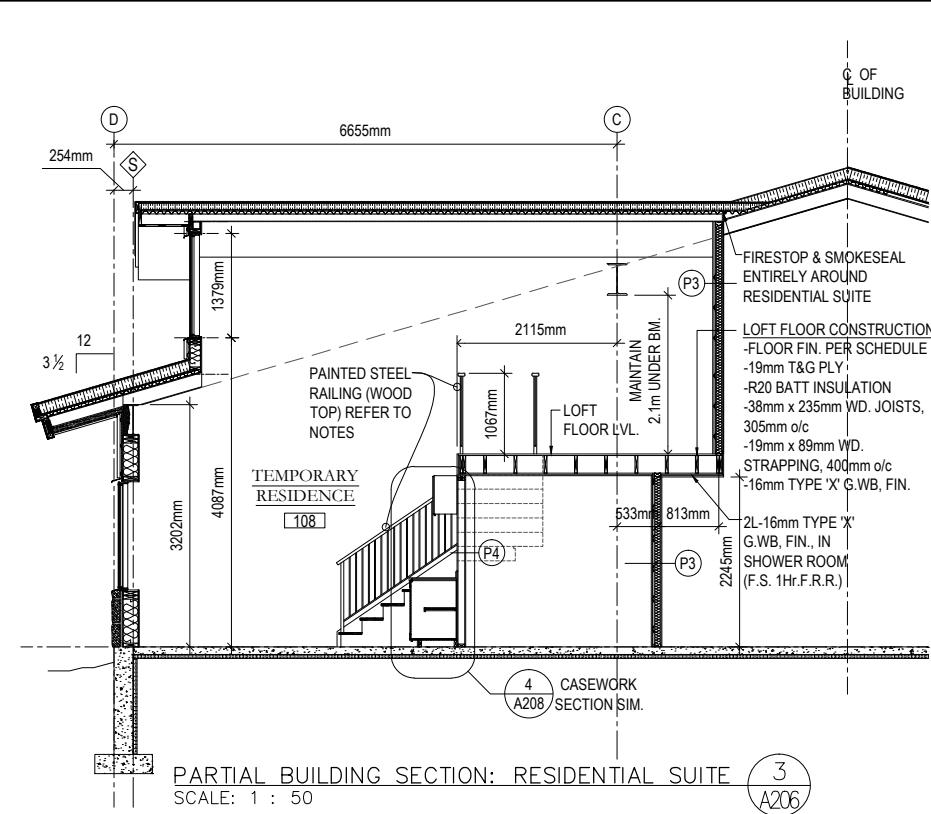
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20	DRAWING REFERENCES	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>COMEAU MACKENZIE ARCHITECTURE 183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7 TEL: (506) 657-1611 mackarch@nbnet.nb.ca</p>	DESIGNED P.G.M.	NO.	DATE	ISSUED FOR TENDER	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	SCALE AS SHOWN
				DRAWN A.E.P.					2015-10-20
				CHECKED					DATE 2015-10-20
				RECOMMENDED					DRAWING NUMBER
				APPROVED					A-205
				APPROVED					REVISION

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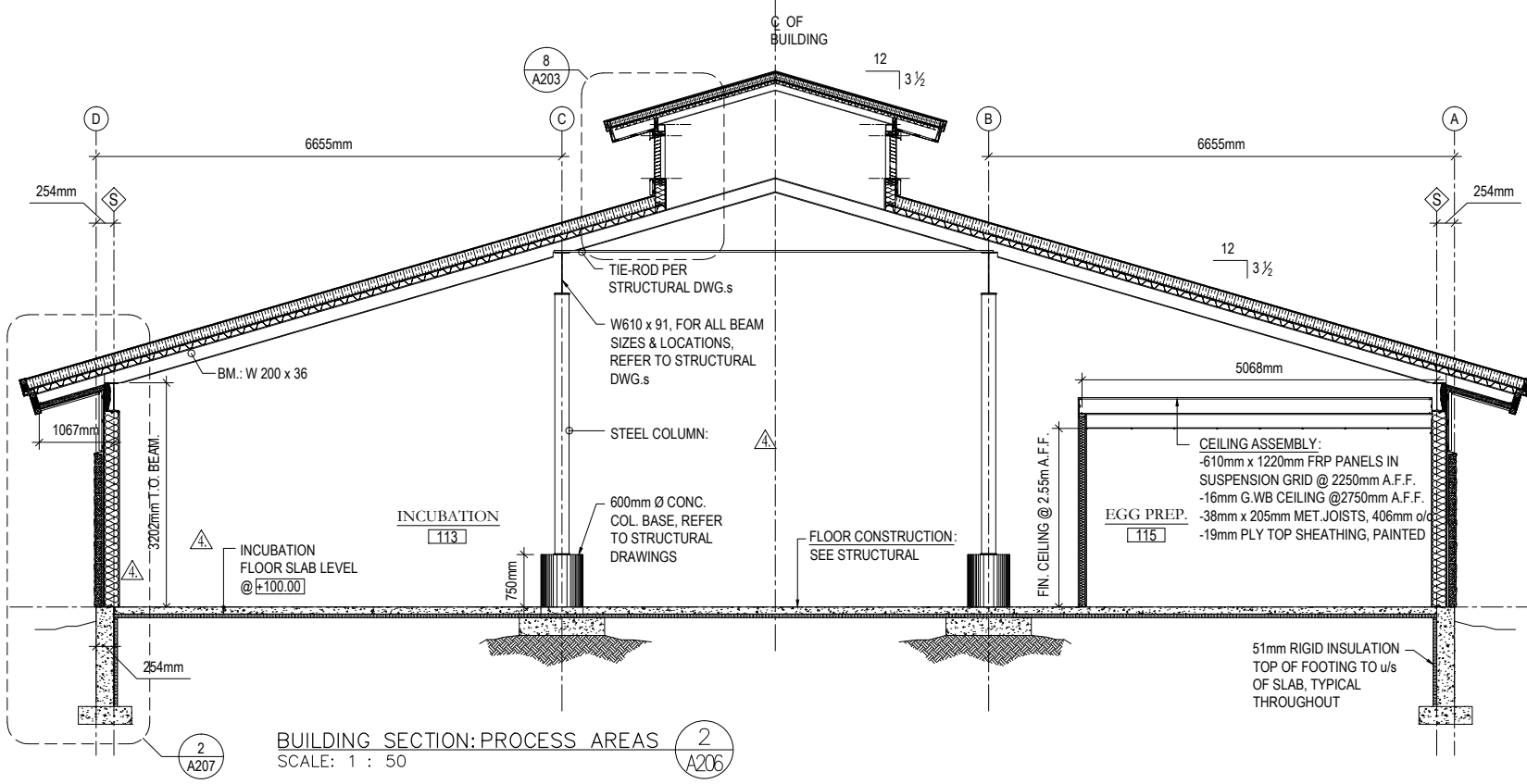


BUILDING SECTION: OFFICE/ADMIN AREAS
SCALE: 1 : 50

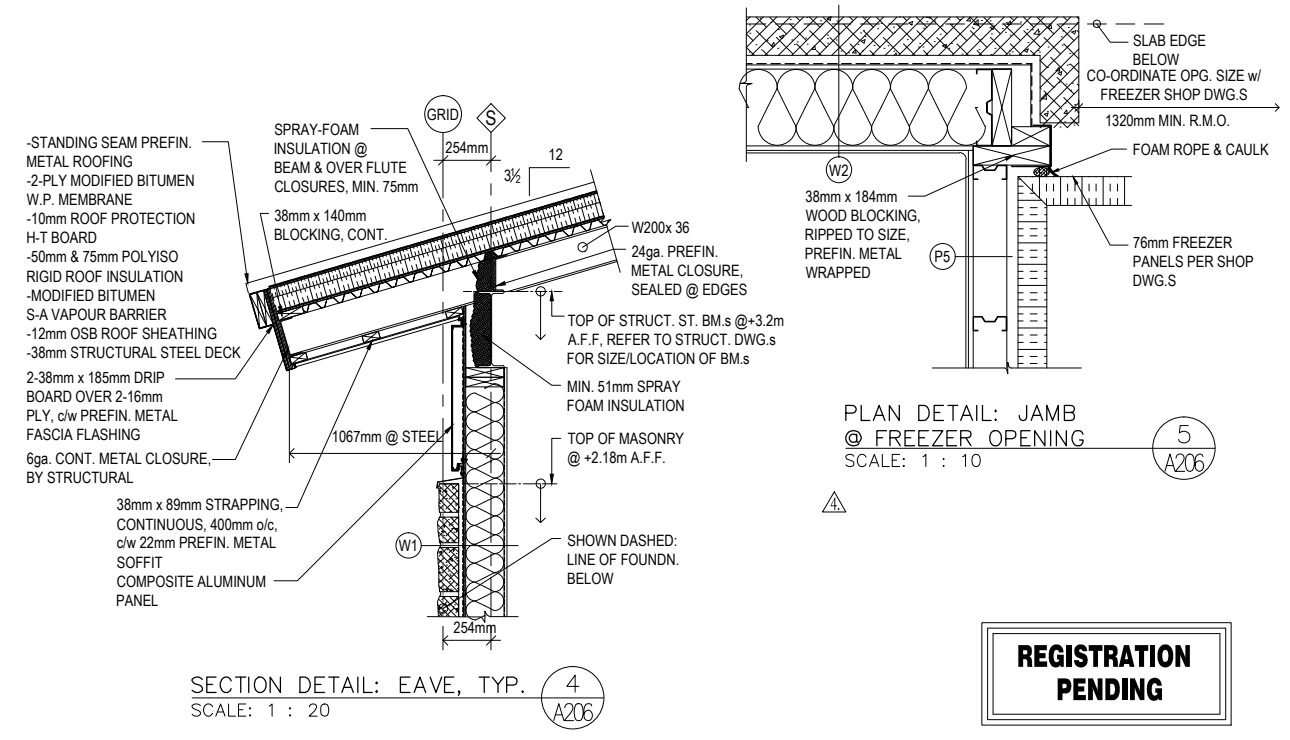


PARTIAL BUILDING SECTION: RESIDENTIAL SUITE
SCALE: 1 : 50

- STAIR NOTES:**
CONSTRUCT STAIR TO 'PRIVATE' RISE & RUN PER N.B.C.C. 89.8.4.1.
- TREADS: 25mm x 267mm BULLNOSE HDWE TREATS, BIRCH OR MAPLE, VANISHED
 - RISERS: 19mm BIRCH PLY, PAINTED
 - HANDRAIL & GUARDS:
 - BALLUSTERS: 38mm x 38mm STEEL TUBING, PAINTED
 - BOTT. RAIL: 25mm x 25mm STEEL TUBING, PAINTED
 - PICKETS: 16mm Ø STEEL SMOOTH ROD, PAINTED, 116mm o/c MAX.
 - TOP RAIL: 6mm x 32mm STEEL FLAT BAR, DRILLED & COUNTERSUNK FOR No. 8 x 1 1/2 SCREWS
 - TOP RAIL-WOOD: 65mm x 32mm SOLID HARDWOOD, FIN. RAIL, EASED 6mm RADIUS @ ALL EDGES, VARNISHED
 - HANDRAIL: 1-SIDE ONLY @ STAIRS



BUILDING SECTION: PROCESS AREAS
SCALE: 1 : 50



SECTION DETAIL: EAVE, TYP.
SCALE: 1 : 20

PLAN DETAIL: JAMB @ FREEZER OPENING
SCALE: 1 : 10

REGISTRATION PENDING

FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

21	DWG. NO.
	DRAWING REFERENCES

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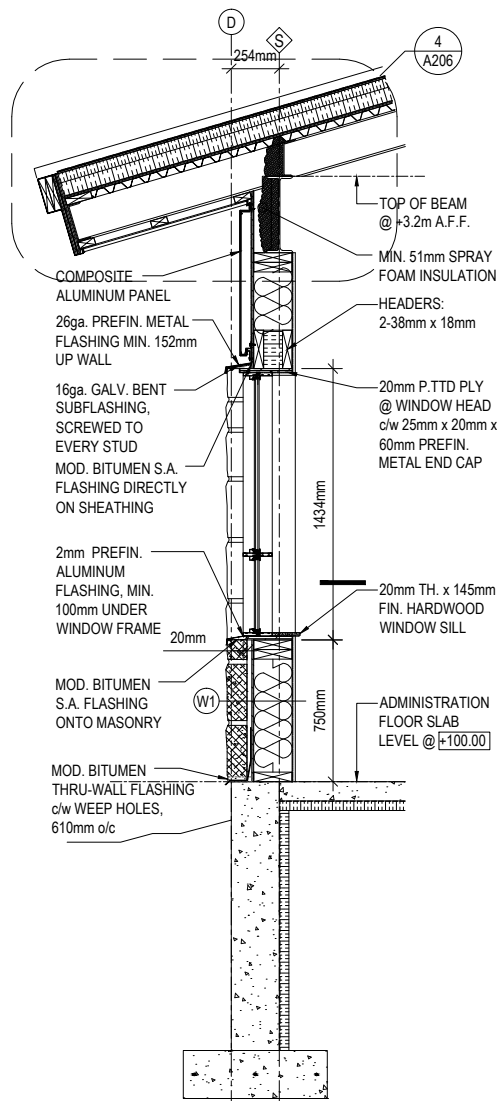
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 183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7
 TEL: (506) 657-1611 mackarch@nbnet.nb.ca

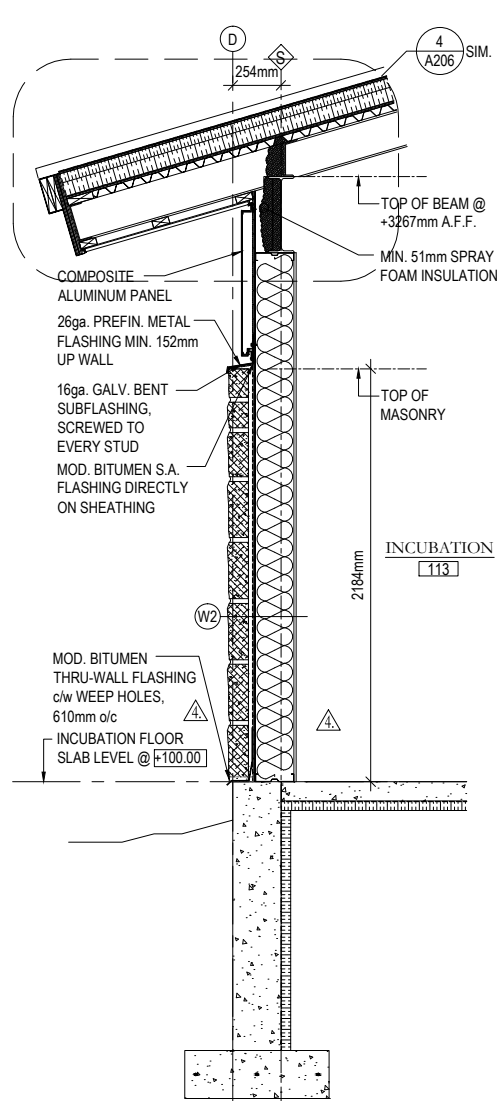
DESIGNED P.G.M.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE BUILDING SECTIONS & DETAILS	
DRAWN A.E.P.		
CHECKED -		
RECOMMENDED		
APPROVED		
NO.	DATE	ISSUED FOR TENDER
REVISIONS		
APPROVED		

SCALE AS SHOWN	A-206
DATE 2015-10-20	
DRAWING NUMBER	REVISION

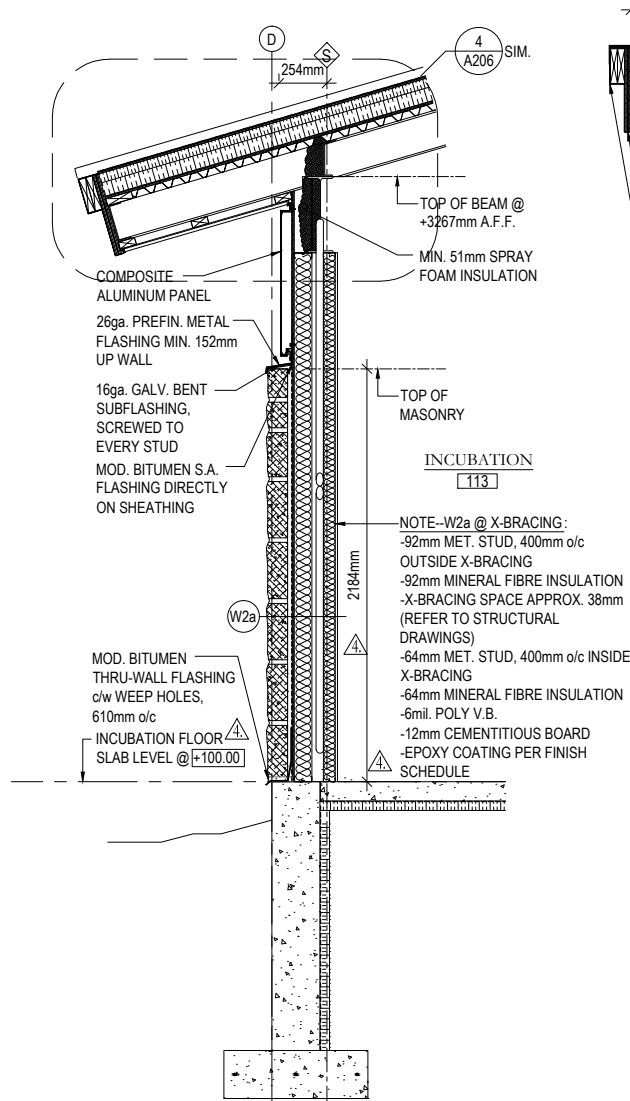
PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\PM DRAWINGS\213950-A206-A211-SNOOTLI CREEK HATCHERY DRAWINGS 2015_0916.DWG



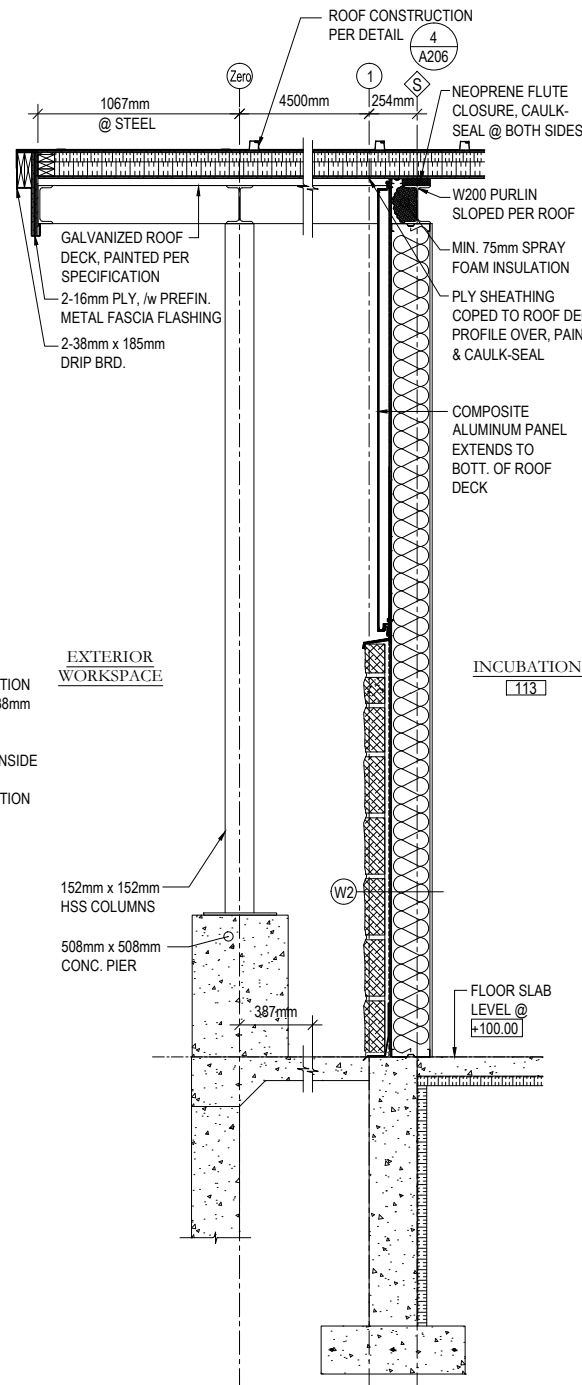
WALL SECTION:
ADMIN. AREA, TYP. 1
SCALE: 1 : 20 A207



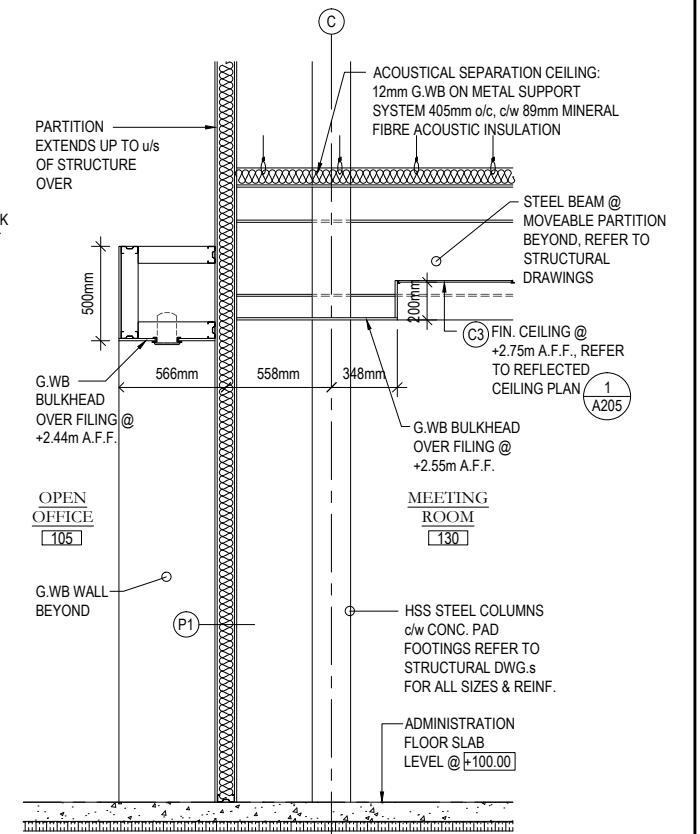
WALL SECTION:
INCUBATION AREA, TYP. 2
SCALE: 1 : 20 A207



WALL SECTION: INCUBATION
AREA @ X-BRACING 3
SCALE: 1 : 20 A207



WALL SECTION: NORTH END
WALL/ EXTERIOR WORKSPACE 4
SCALE: 1 : 20 A207



WALL SECTION: BULKHEADS @
MEETING ROOM/ OPEN OFFICE. 5
SCALE: 1 : 20 A207

**REGISTRATION
PENDING**

22

DWG. NO. DRAWING REFERENCES



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NO. DATE ISSUED FOR TENDER REVISIONS

DESIGNED P.G.M.
DRAWN A.E.P.
CHECKED
RECOMMENDED
APPROVED
APPROVED

FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

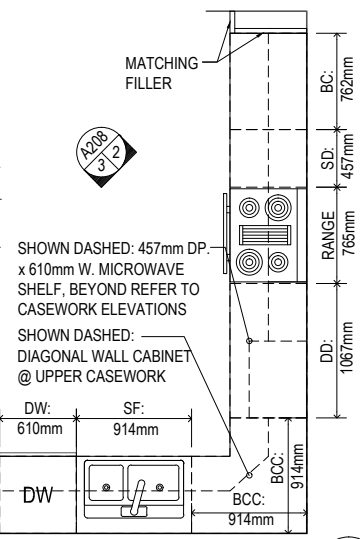
SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE

WALL SECTIONS

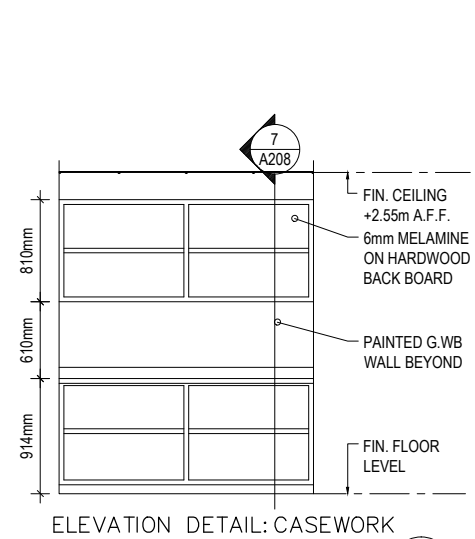
SCALE AS SHOWN
DATE 2015-10-20
DRAWING NUMBER **A-207**
REVISION

PRINT DATE: 2015-11-06 2:41-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\PM DRAWINGS\213950-A206-A211-SNOOTLI CREEK HATCHERY DRAWINGS 2015.0918.DWG

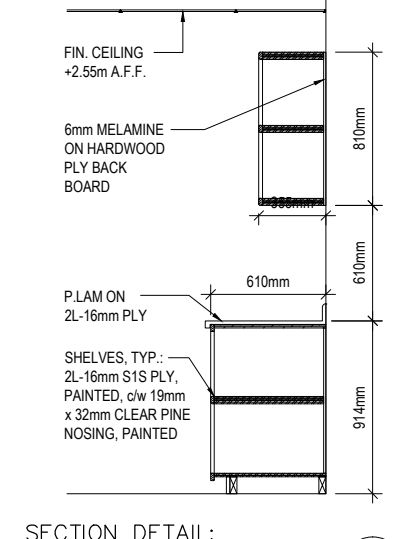
- CASEWORK NOTES**
- BASE ALL CASEWORK LAYOUTS ON FINISHED G.W.B.-TO-G.W.B. DIMENSIONING AS MEASURED ON-SITE BY KITCHEN CASEWORK SUPPLIERS OWN FORCES.
 - SUBMIT SHOP DRAWINGS FOR ALL CASEWORK. DO NOT PROCEED w/ MANUFACTURE UNTIL SHOP DRAWINGS ARE REVIEWED & RETURNED.
 - PROVIDE ALL CUT-OUTS, FILLERS, & SITE-FIT DEVICES TO MAKE A COMPLETE INSTALLATION.
 - ABBREVIATIONS @ CASEWORK TYPE PLANS:
 BC= BASE CABINET, 2-DOOR (x WID.)
 SD= STACK OF 4-DRAWERS (x WID.)
 SF= SINK FRONT (WID.)
 BCC= BASE CABINET CORNER (x WID.)
 DD= DRAWER & DOOR (x WID.)
 WC= WALL CABINET (305mmDP, x 762mmH.)
 WCD= WALL CABINET DIAGONAL



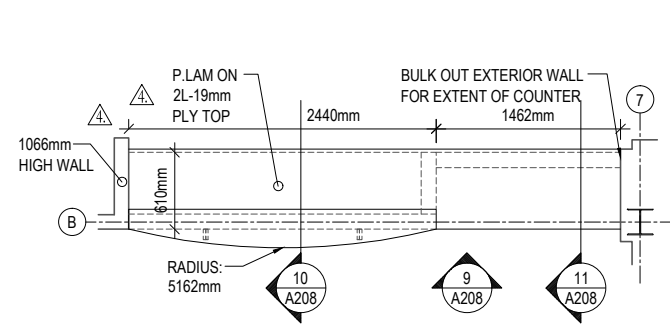
PLAN DETAIL: KITCHEN CASEWORK @ STAFF ROOM
 SCALE: 1 : 30 (C-126)



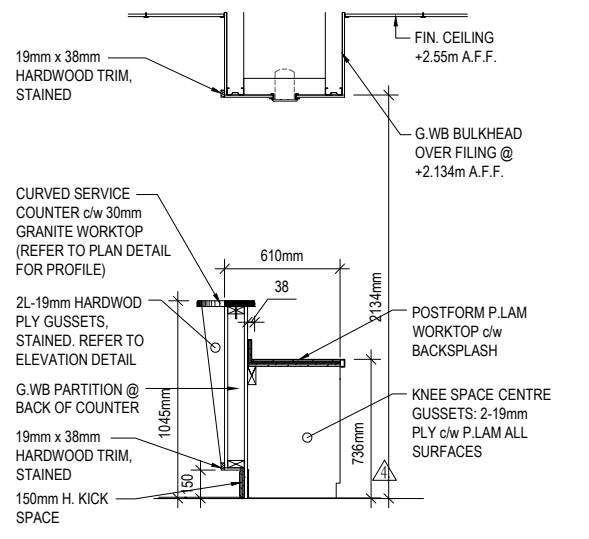
ELEVATION DETAIL: CASEWORK @ COPY/ PRINT ROOM
 SCALE: 1 : 30 (C-129)



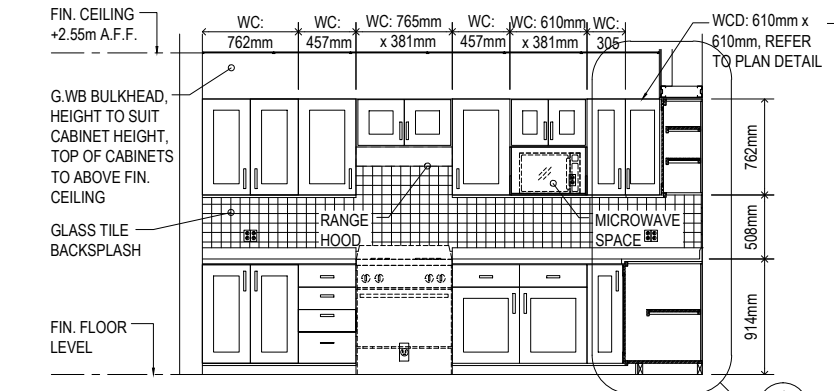
SECTION DETAIL: CASEWORK @ COPY ROOM
 SCALE: 1 : 20 (C-129)



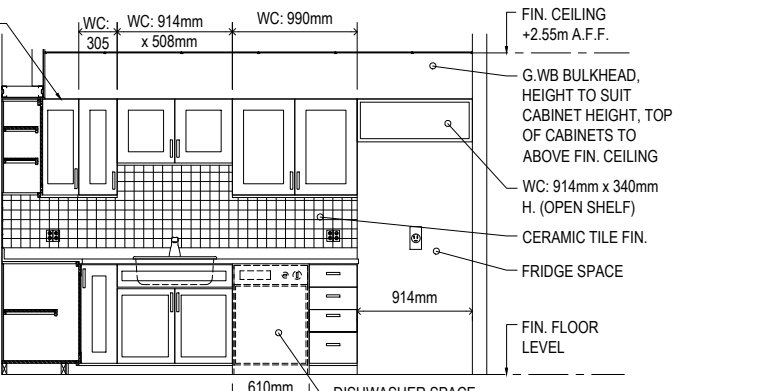
PLAN DETAIL: CASEWORK @ FRONT RECEPTION DESK
 SCALE: 1 : 30 (C-131)



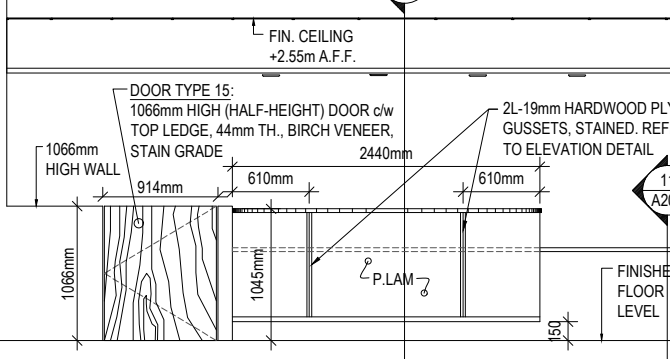
SECTION DETAIL: CASEWORK @ FRONT RECEPTION DESK
 SCALE: 1 : 20 (C-131)



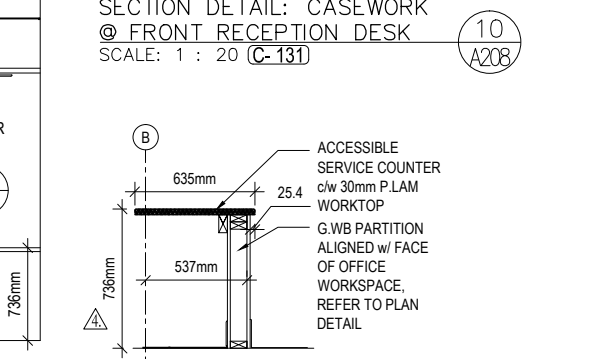
ELEVATION DETAIL: KITCHEN CASEWORK @ STAFF ROOM
 SCALE: 1 : 30 (C-126)



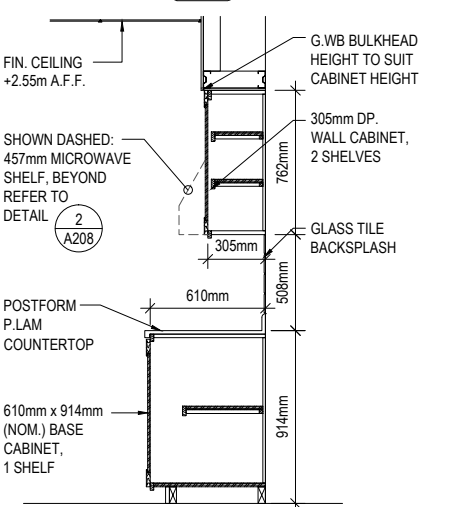
ELEVATION DETAIL: KITCHEN CASEWORK @ STAFF ROOM
 SCALE: 1 : 30 (C-126)



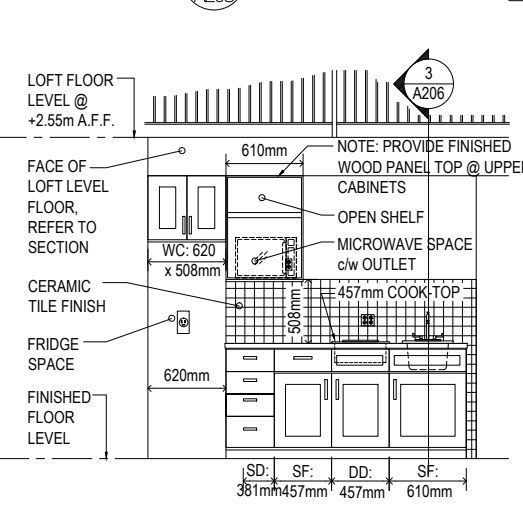
ELEVATION DETAIL: CASEWORK @ FRONT RECEPTION DESK
 SCALE: 1 : 30 (C-131)



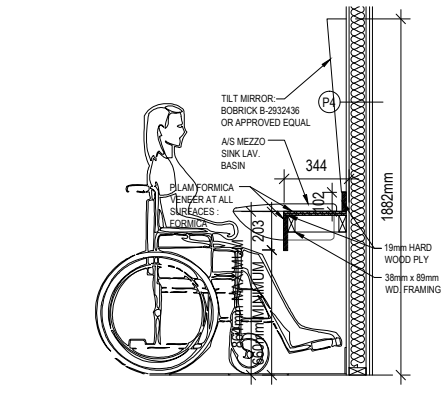
SECTION DETAIL: ACCESSIBLE COUNTER CASEWORK @ FRONT RECEPTION DESK
 SCALE: 1 : 30 (C-131)



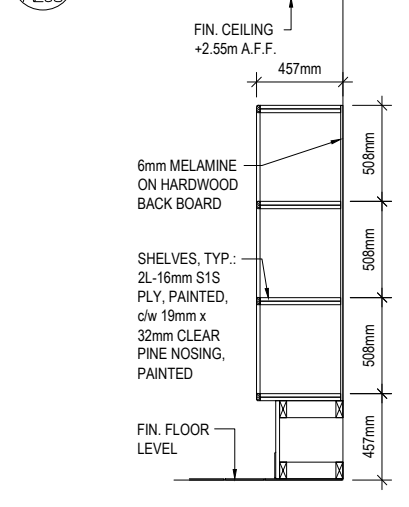
SECTION DETAIL: KITCHEN CASEWORK, TYP.
 SCALE: 1 : 20 (C-126)



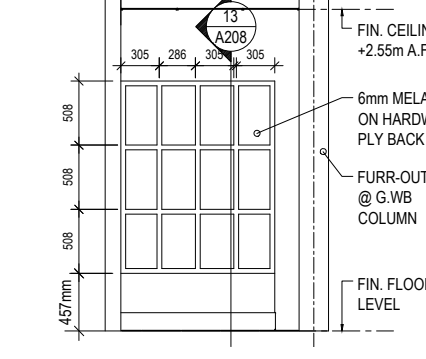
ELEVATION DETAIL: KITCHEN CASEWORK @ TEMP. RESIDENCE
 SCALE: 1 : 30 (C-108)



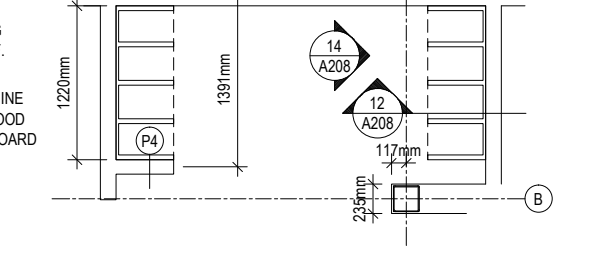
SECTION DETAIL: SHOWER ROOM VANITY CASEWORK, TYP.
 SCALE: 1 : 20 (C-109) (C-110) (C-108)



SECTION DETAIL: CASEWORK @ SANITIZATION STATION
 SCALE: 1 : 20 (C-112)



ELEVATION DETAIL: CASEWORK @ SANITIZATION STATION
 SCALE: 1 : 30 (C-112)



PLAN DETAIL: CASEWORK @ SANITIZATION STATION
 SCALE: 1 : 30 (C-112)

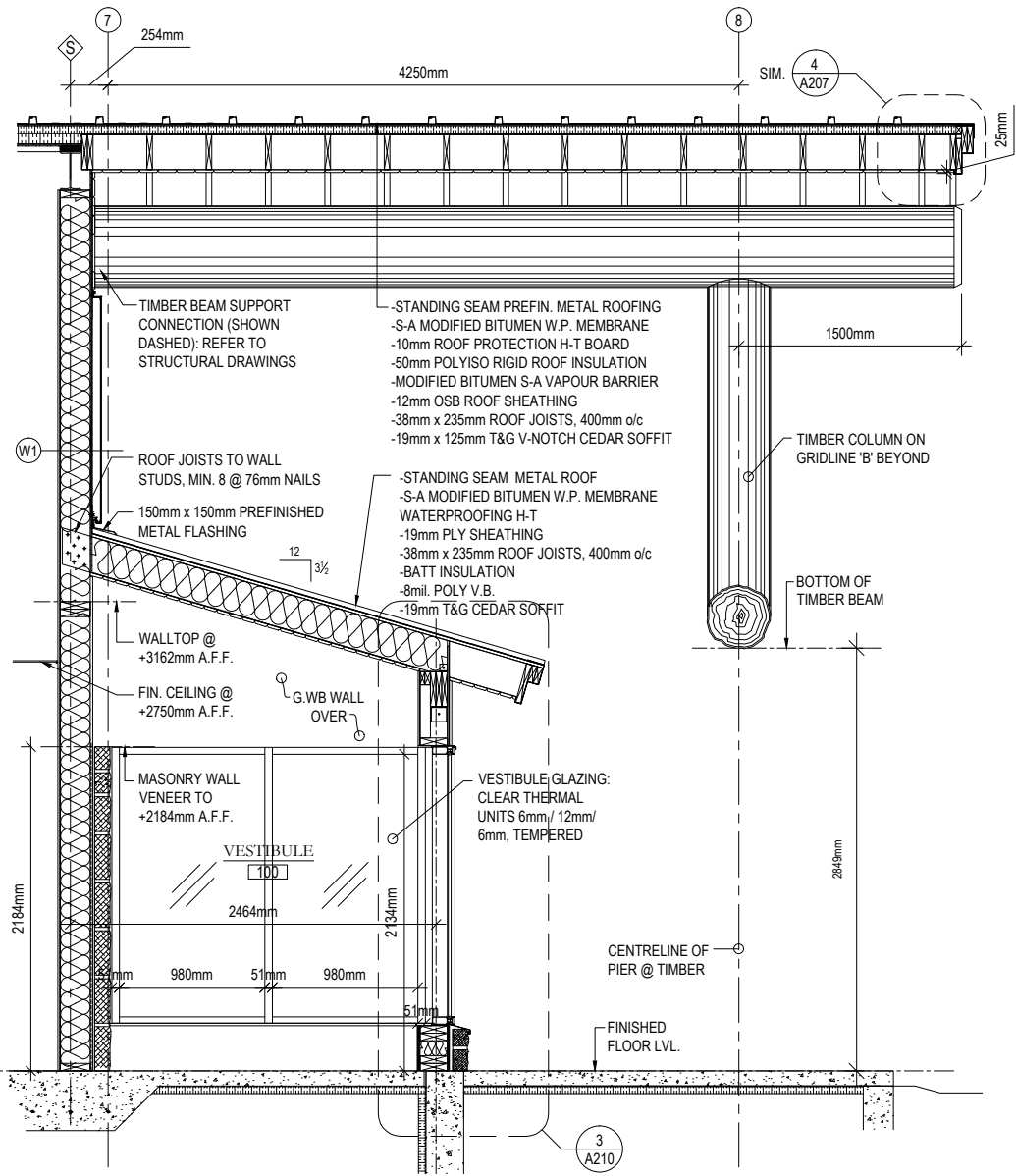
REGISTRATION PENDING

FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY		SCALE AS SHOWN
HATCHERY COMPLEX PACKAGE		DATE: 2015-10-20
CASEWORK		DRAWING NUMBER: A-208
		REVISION

23	DRAWING REFERENCES	 silk stevens limited DESIGN & CONSULTING ENGINEERS	 COMEAU MACKENZIE ARCHITECTURE 183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7 TEL: (506) 657-1611 mackarch@nbnet.nb.ca	NO.	DATE	ISSUED FOR TENDER
				DESIGNED P.G.M.	DRAWN A.E.P.	CHECKED

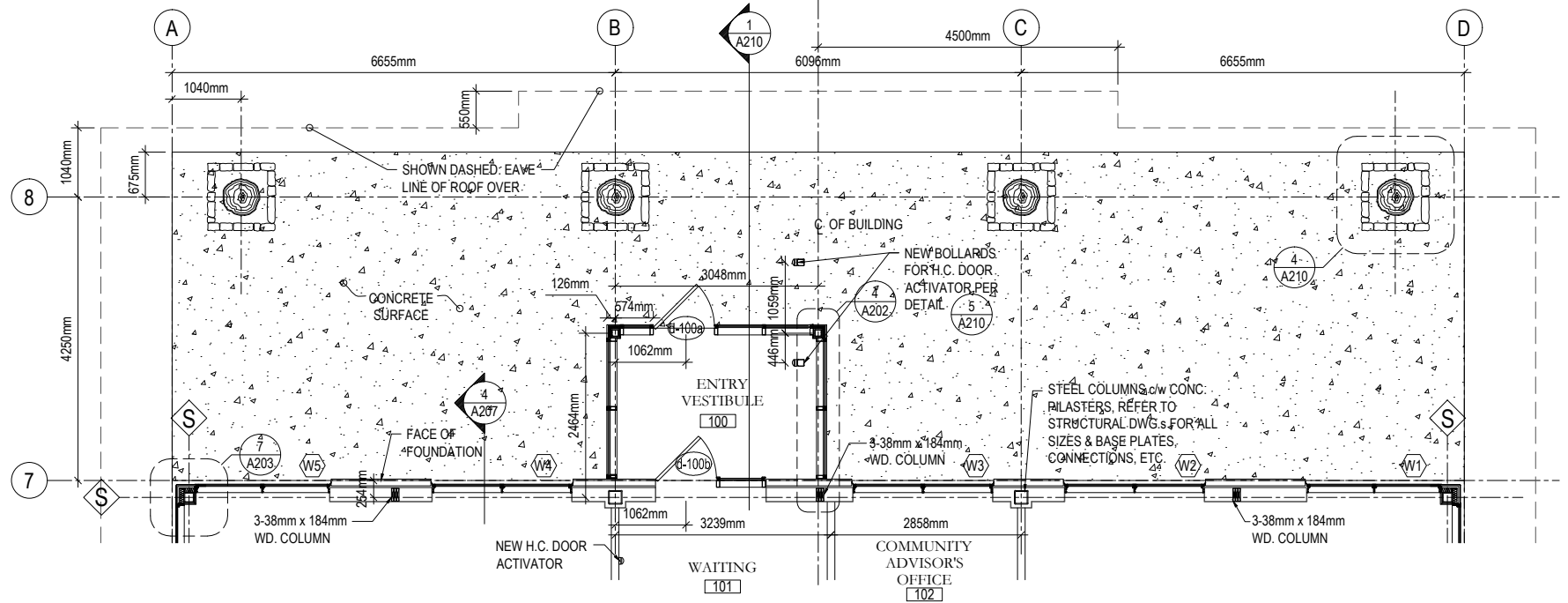
PRINT DATE: 2015-11-06 Z:\ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\PM DRAWINGS\213950-A206-A211-SNOOTLI CREEK HATCHERY DRAWINGS 2015.0918.DWG



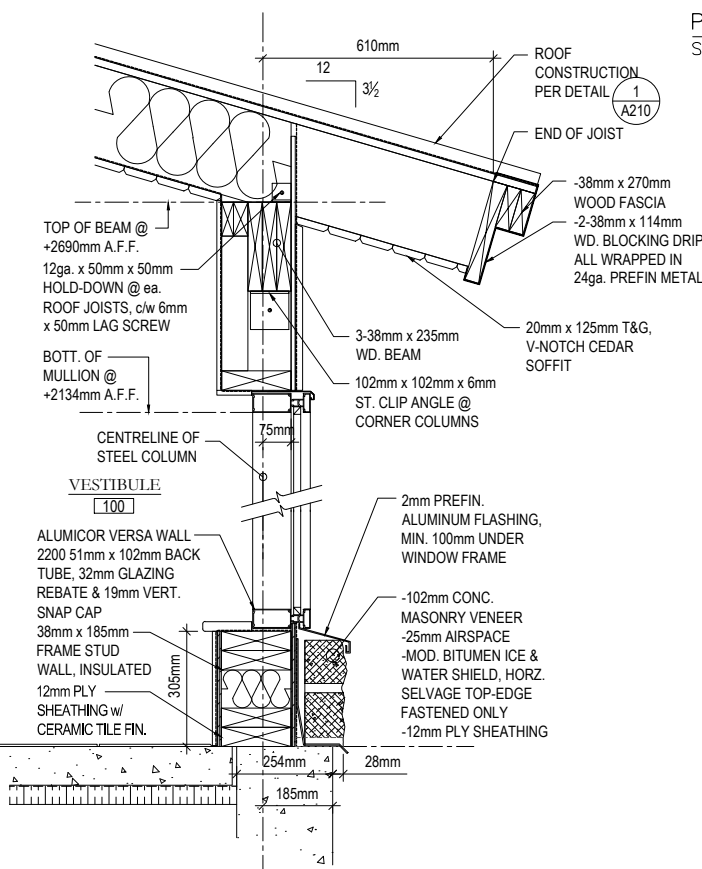
SECTION DETAIL FRONT ENTRY CANOPY
SCALE: 1 : 25

WOOD FRAMING NOTES:

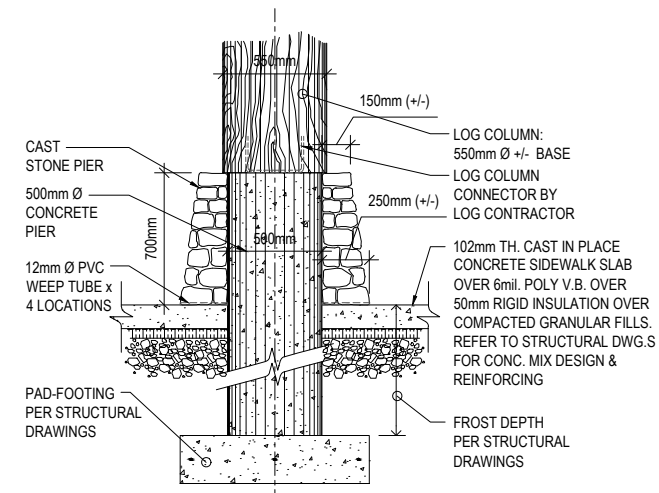
- PERFORM ALL WORK TO N.B.C.C. 2010/BCBC 2012 FOR WOOD, FASTENERS, METHODS.
- ALL FRAMING MATERIALS: N.L.G.A GRADED & STAMPED LUMBER:
-No. 1 & 2, KD, FOR JOISTS, LINTELS, HEADERS & BUILT-UP COLUMNS
-STUD, S-DRY, FOR STUDS
-NO S-GRN OR UMSTAMPED LUMBER
- PREMANUFACTURED / PRE-ENGINEERED WOOD MEMBERS, WOOD TRUSSES & FLOOR JOISTS: MANUFACTURER SHALL SUBMIT SHOP-DRAWINGS OF ALL COMPONENTS BEFORE MANUFACTURE BEGINS. GENERAL CONTRACTOR SHALL INSTALL ALL BRACING, HOLD-DOWN, AND FASTENERS AS CALLED FOR IN THE SHOP DRAWINGS.
- WHOLE LOG TIMBER:



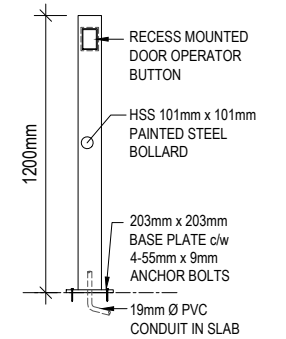
PLAN DETAIL: FRONT COVERED PORCH (SOUTH ELEVATION)
SCALE: 1 : 75



SECTION DETAIL: FRONT ENTRY VESTIBULE EAVE & SILL
SCALE: 1 : 10



SECTION DETAIL: TIMBER COLUMN PIERS (SOUTH ELEVATION)
SCALE: 1 : 20

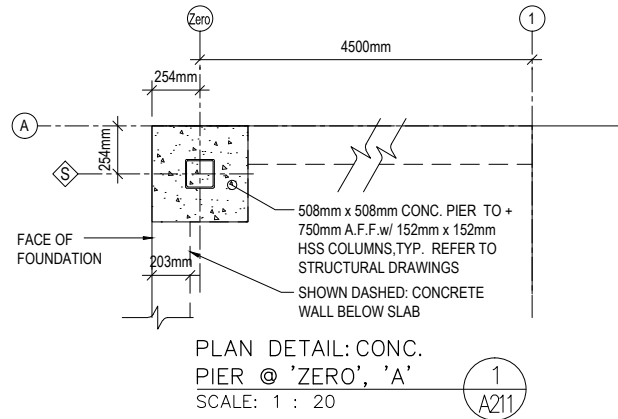


DETAIL: AC DOOR OPERATOR BOLLARD
SCALE: NOT TO SCALE

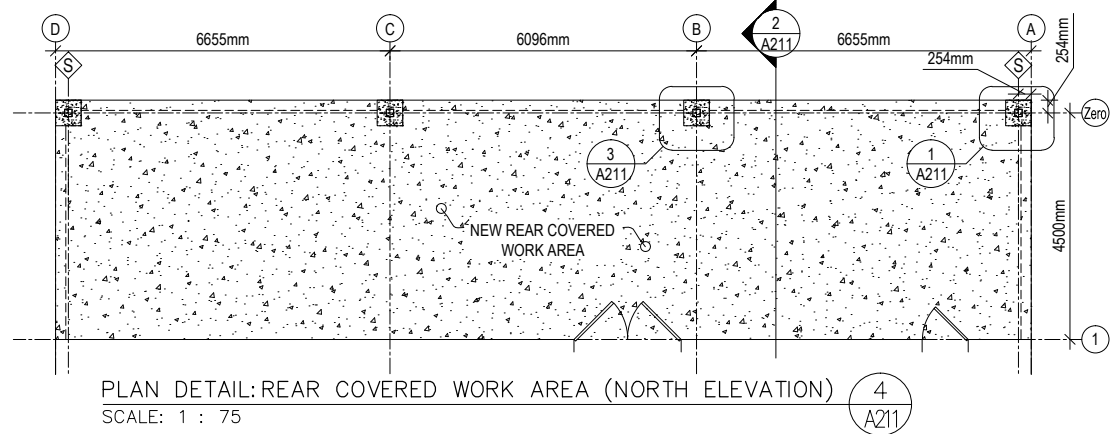
**REGISTRATION
PENDING**

25	 DESIGN & CONSULTING ENGINEERS	 COMEAU MACKENZIE ARCHITECTURE 183 CHARLOTTE STREET, SAINT JOHN, NB E2L 0C7 TEL: (506) 657-1611 mackarch@nbnet.nb.ca	DESIGNED P.G.M.	FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT	SCALE AS SHOWN
			DRAWN A.E.P.		HATCHERY COMPLEX PACKAGE
DWG. NO.	DRAWING REFERENCES	NOTES	CHECKED -	SNOOTLI CREEK HATCHERY ENTRY VESTIBULE DETAILS	DRAWING NUMBER A-210
NO.	DATE	ISSUED FOR TENDER	RECOMMENDED		REVISION
NO.	DATE	ISSUED FOR TENDER	APPROVED	REVISION	REVISION

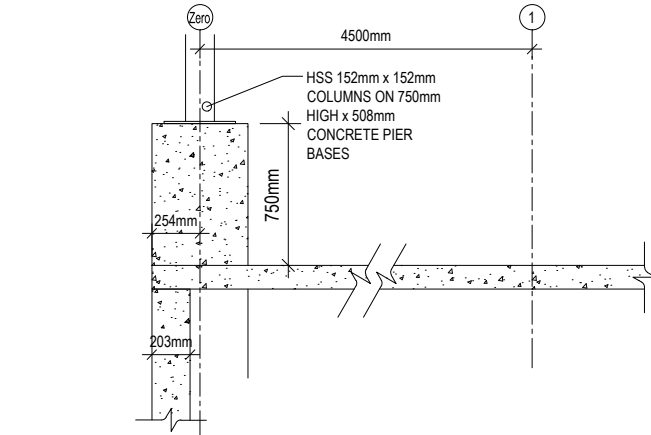
PRINT DATE: 2015-11-06 2:41-ACTIVE PROJECT FILES\13-20-007-01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\PM DRAWINGS\213950-A206-A211-SNOOTLI CREEK HATCHERY DRAWINGS 2015 0918.DWG



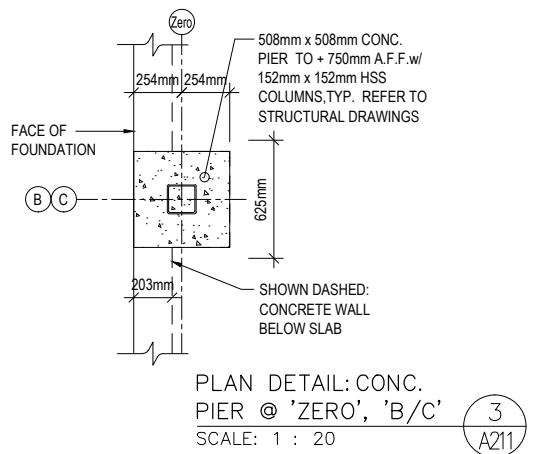
PLAN DETAIL: CONC. PIER @ 'ZERO', 'A'
SCALE: 1 : 20



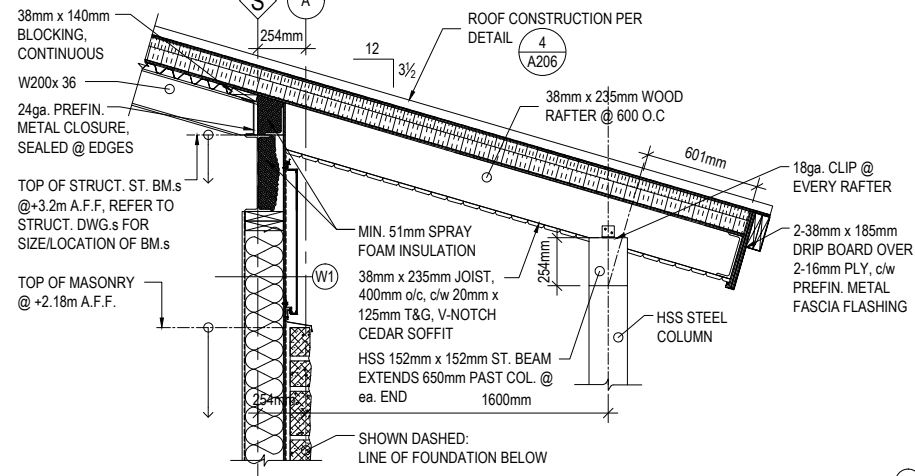
PLAN DETAIL: REAR COVERED WORK AREA (NORTH ELEVATION)
SCALE: 1 : 75



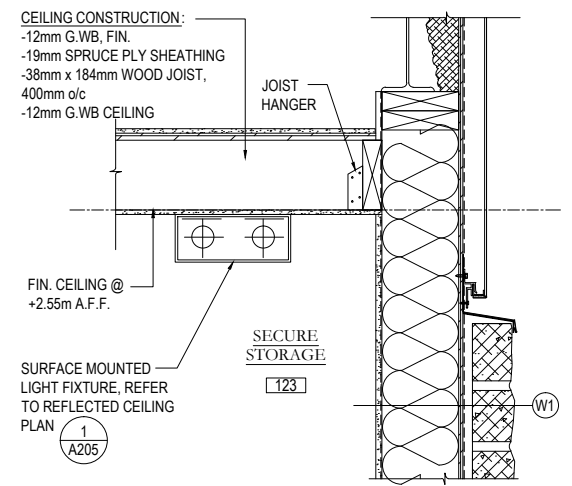
SECTION DETAIL: CONCRETE FOUNDATION WALL @ COLUMN PIERS
SCALE: 1 : 20



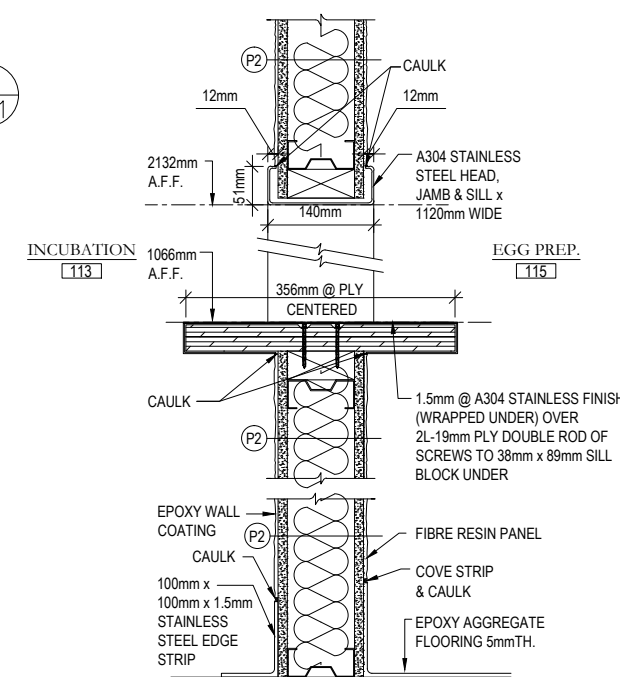
PLAN DETAIL: CONC. PIER @ 'ZERO', 'B/C'
SCALE: 1 : 20



SECTION DETAIL: CANOPY @ EAST ENTRY
SCALE: 1 : 20



SECTION DETAIL: CEILING @ SECURE SOTRAGE
SCALE: 1 : 10



SECTION DETAIL: PASS THRU @ EGG PREP/ INCUBATION & BASE @ PARTITION 'P2'
SCALE: 1 : 5

REGISTRATION PENDING

FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

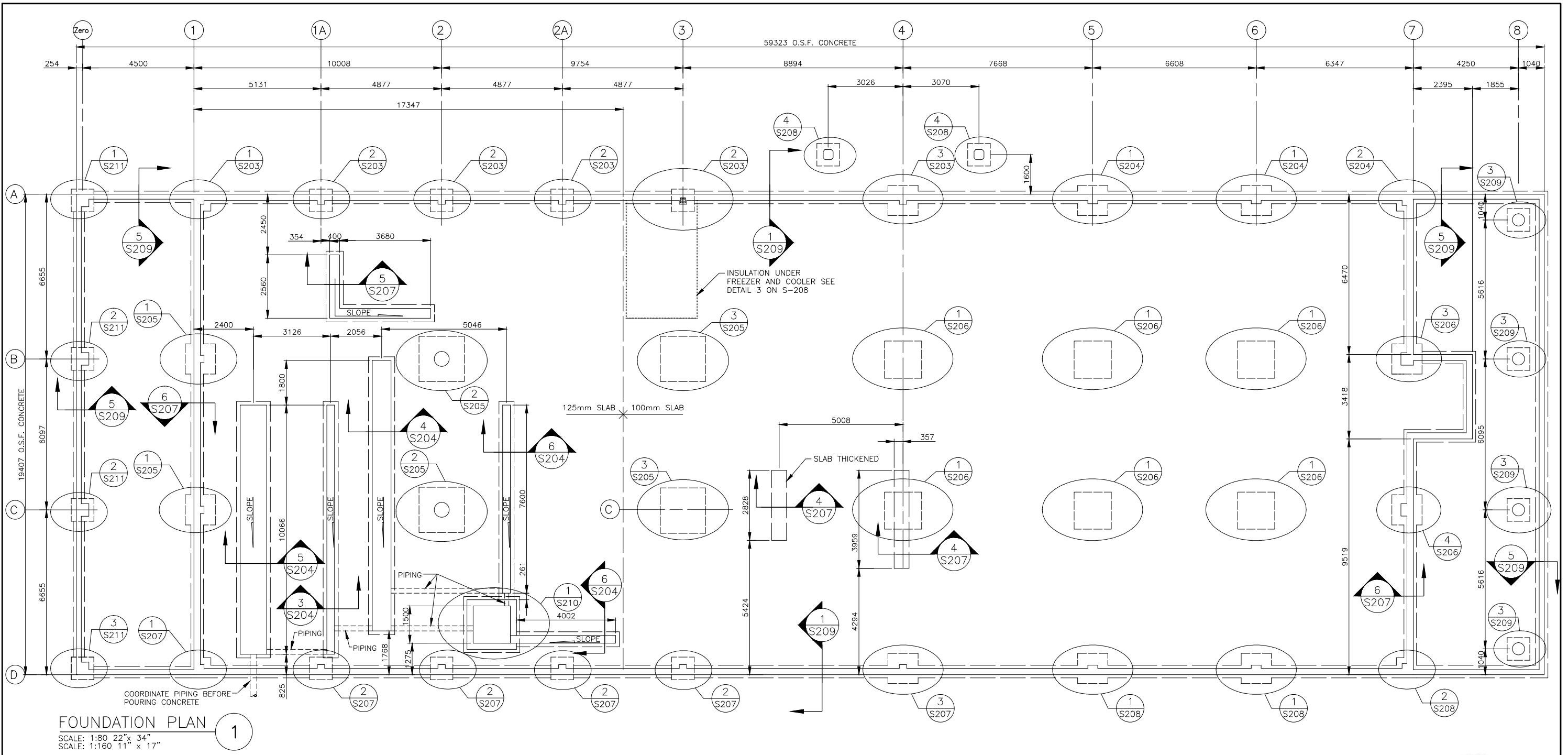
SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE
ENTRY CANOPY DETAILS

SCALE AS SHOWN
DATE 2015-10-20
DRAWING NUMBER **A-211**
REVISION

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DWG. NO.	DRAWING REFERENCES	NOTES		NO.	DATE	REVISIONS

DESIGNED P.G.M.
DRAWN A.E.P.
CHECKED
RECOMMENDED
APPROVED
APPROVED

PRINT DATE: 2015-11-06 2:11-ACTIVE PROJECT FILES\13-20-007.01 - DFO - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-201 TO S-211 - BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG



FOUNDATION PLAN

SCALE: 1:80 22" x 34"
SCALE: 1:160 11" x 17"

LOADING INFORMATION

SS= 5.5 kPa
Sr= 0.8
g50=0.3 kPa
Sa (0.2)=0.38
Dead Load = 1.0 kPa
I= 1.0




FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

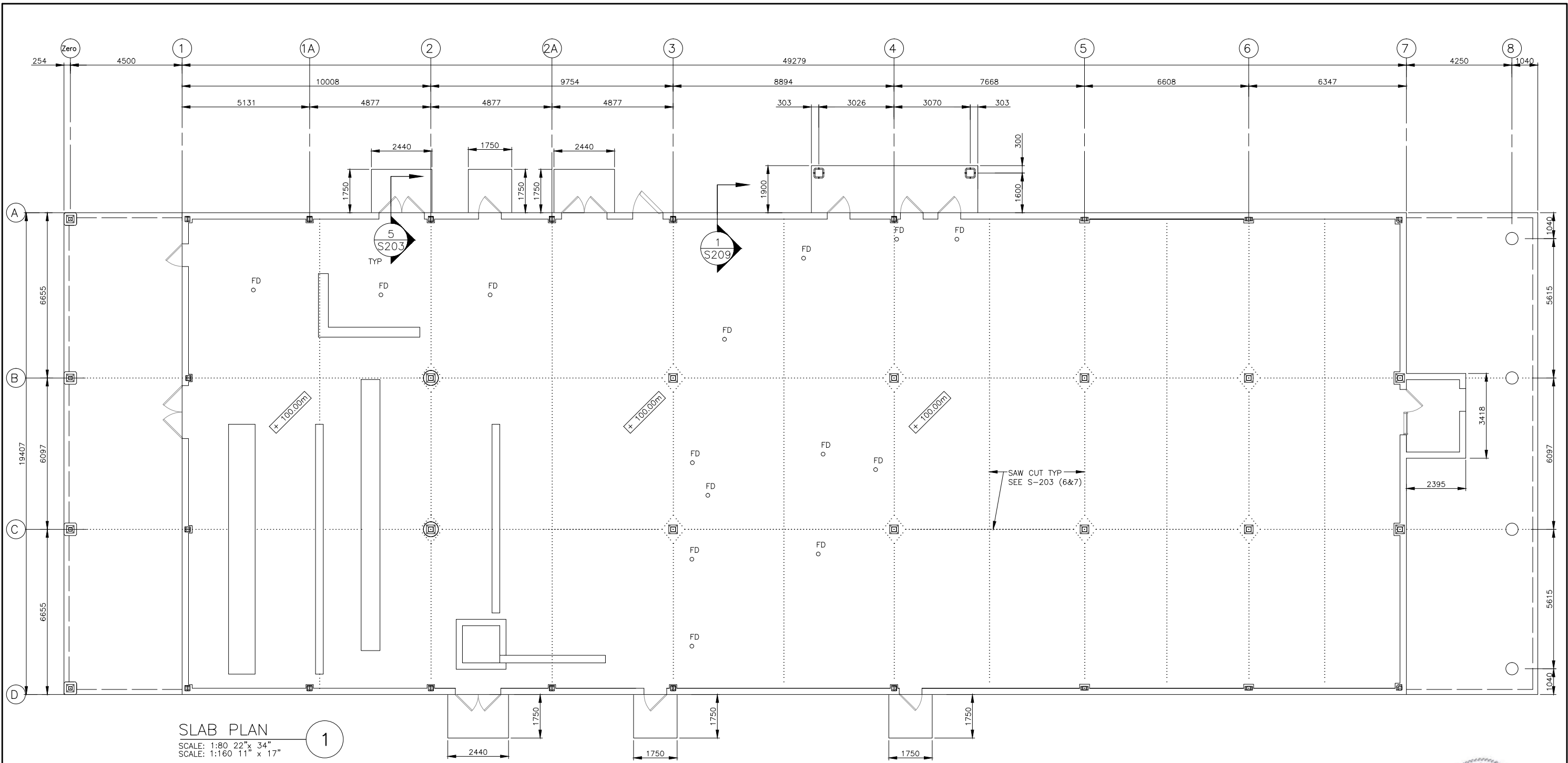
SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE

FOUNDATION PLAN

SCALE	AS SHOWN
DATE	2015-10-20
DRAWING NUMBER	S-201
REVISION	

27	 silk stevens limited DESIGN & CONSULTING ENGINEERS	PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS 262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5 506.455.8476	DESIGNED	M.P.			
			DRAWN	O.S.D.			
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	ISSUED FOR TENDER	APPROVED	APPROVED

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-00701 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-201 TO S-211 BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG



SLAB PLAN
 SCALE: 1:80 22" x 34"
 SCALE: 1:160 11" x 17"

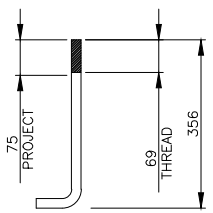
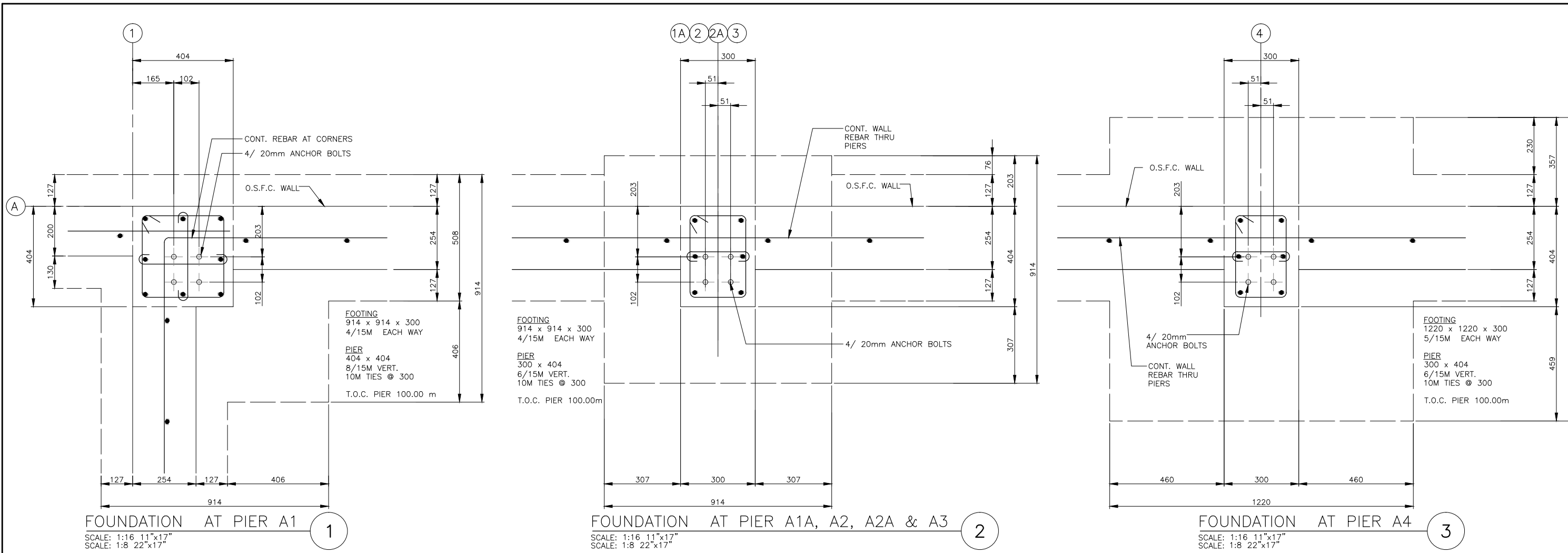
NOTES:
 1. COORDINATE PLUMBING, FLOOR DRAINS, TRENCH DRAINS AND ALL OTHER UNDERGROUND UTILITIES BEFORE POURING SLAB



FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

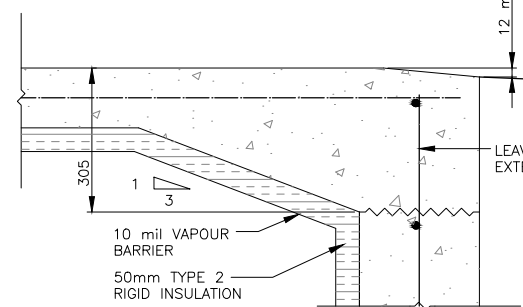
28	DRAWING REFERENCES	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> 262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5 506.455.8476	01	2015-10-20	ISSUED FOR TENDER	DESIGNED M.P.	<p>SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE</p> <p>SLAB PLAN</p>	SCALE AS SHOWN
							DRAWN O.S.D.		DATE 2015-10-20
CHECKED D.N.S.	DRAWING NUMBER S-202								
RECOMMENDED	REVISION								
APPROVED									
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	APPROVED		REVISION	

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007-01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC S-201 TO S-211 BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG

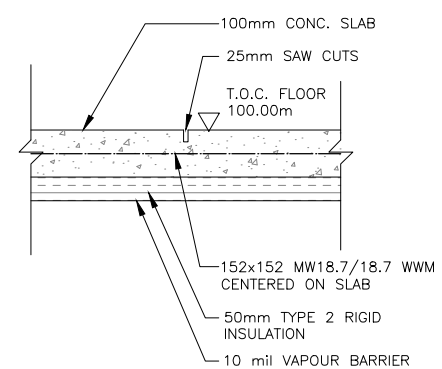


NOTE: ANCHOR BOLTS PROVIDED BY THE FOUNDATION CONTRACTOR

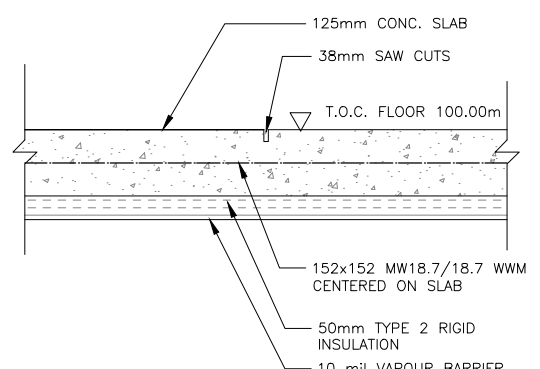
20mm ANCHOR BOLTS
 SCALE: NTS
 SCALE: NTS



SLAB DETAIL AT DOORS
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



SLAB DETAIL
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



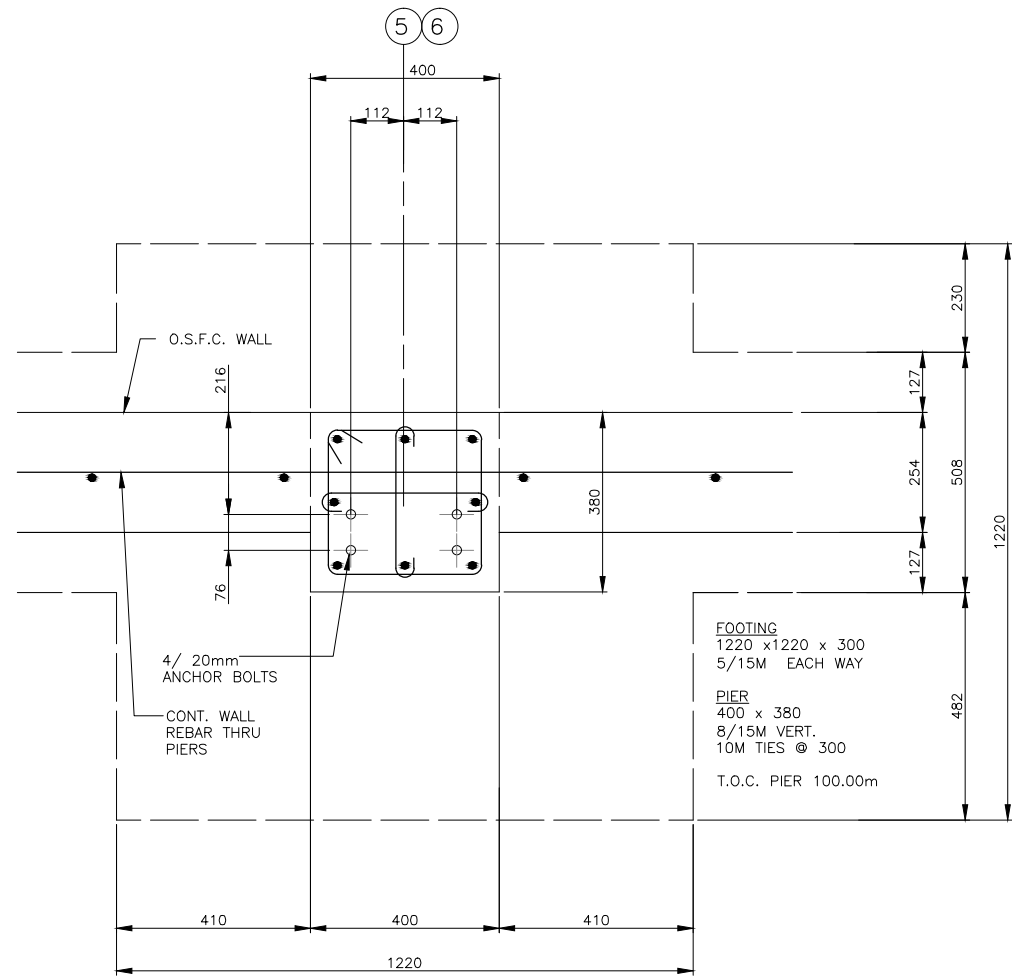
SLAB DETAIL AT INCUBATION ROOM
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



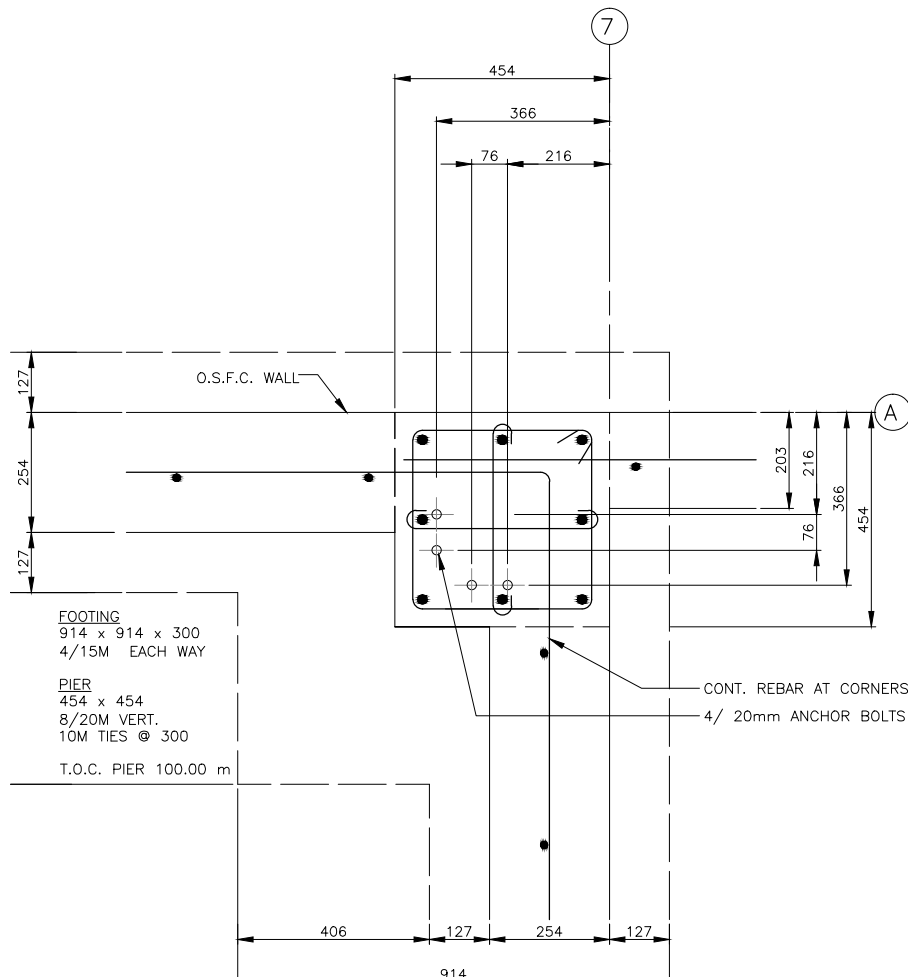
FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

29	 DESIGN & CONSULTING ENGINEERS	PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS 262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5 506.455.8476	01 2015-10-20 ISSUED FOR TENDER	NO. DATE REVISIONS	DESIGNED M.P.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE FOUNDATION DETAILS 1	SCALE AS SHOWN
					DRAWN O.S.D.		DATE 2015-10-20
CHECKED D.N.S.	DRAWING NUMBER S-203						
RECOMMENDED	REVISION						
APPROVED							

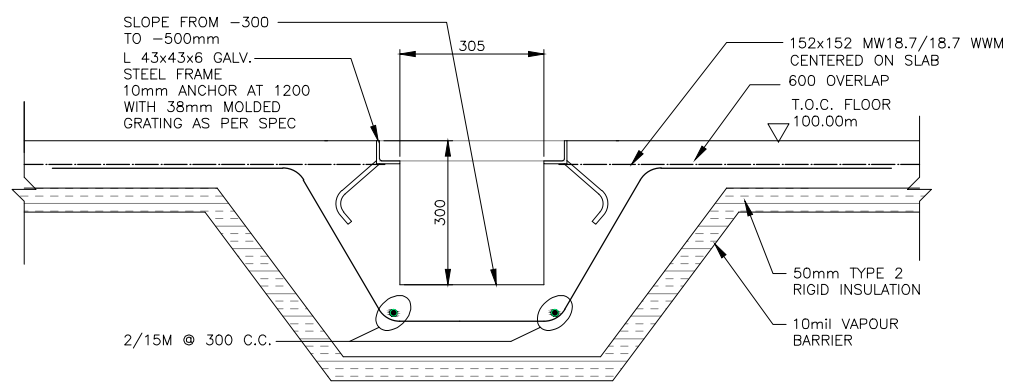
PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-00701 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\13-20-00701 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1) - ISSUED FOR TENDER.DWG



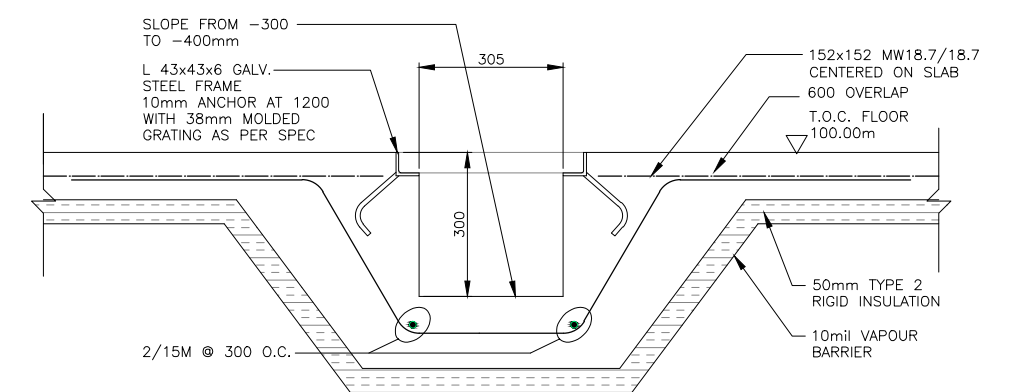
FOUNDATION AT PIER A5 & A6
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"



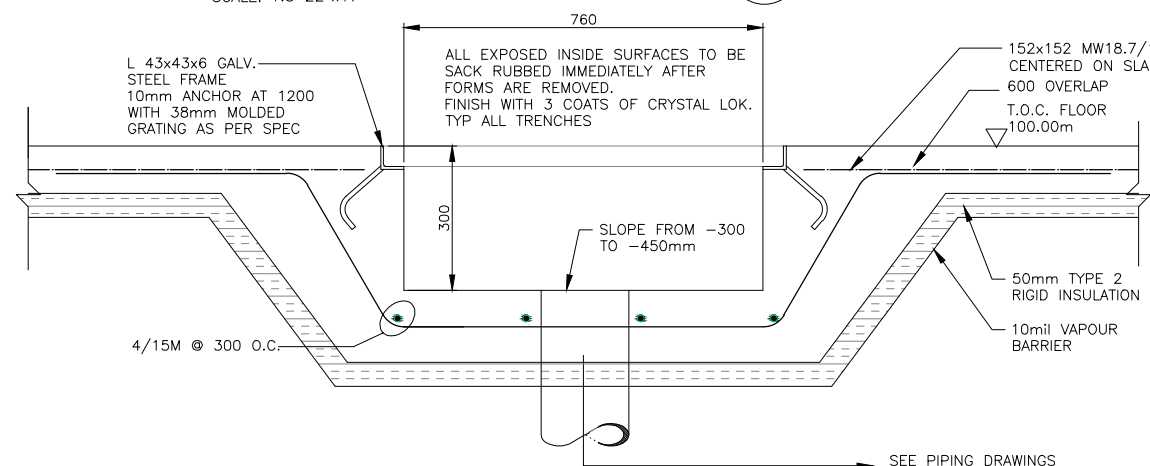
FOUNDATION AT PIER A7
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"



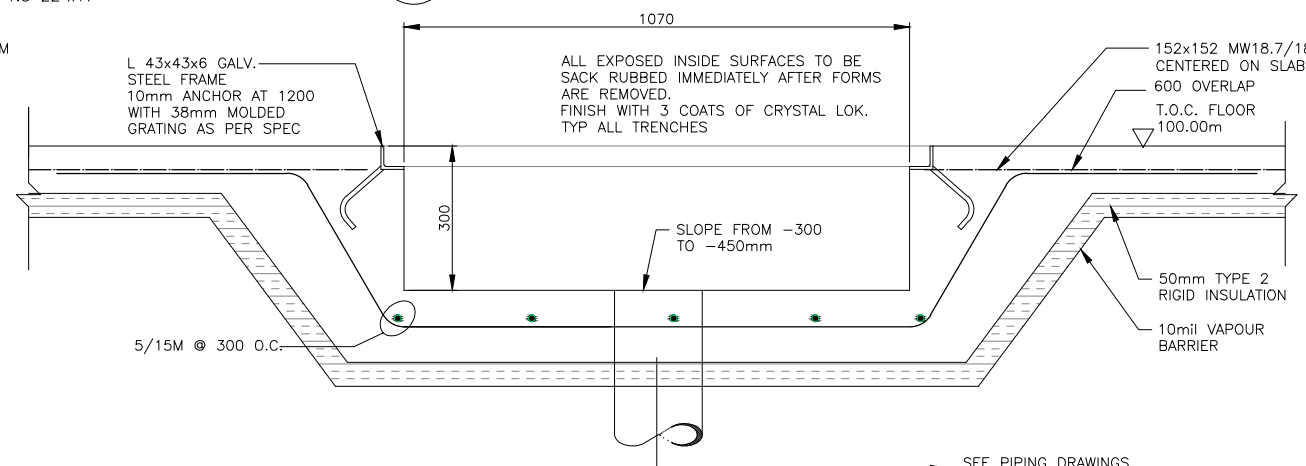
TRENCH DETAIL 3
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"



TRENCH DETAIL 6
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"



TRENCH DETAIL 4
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"



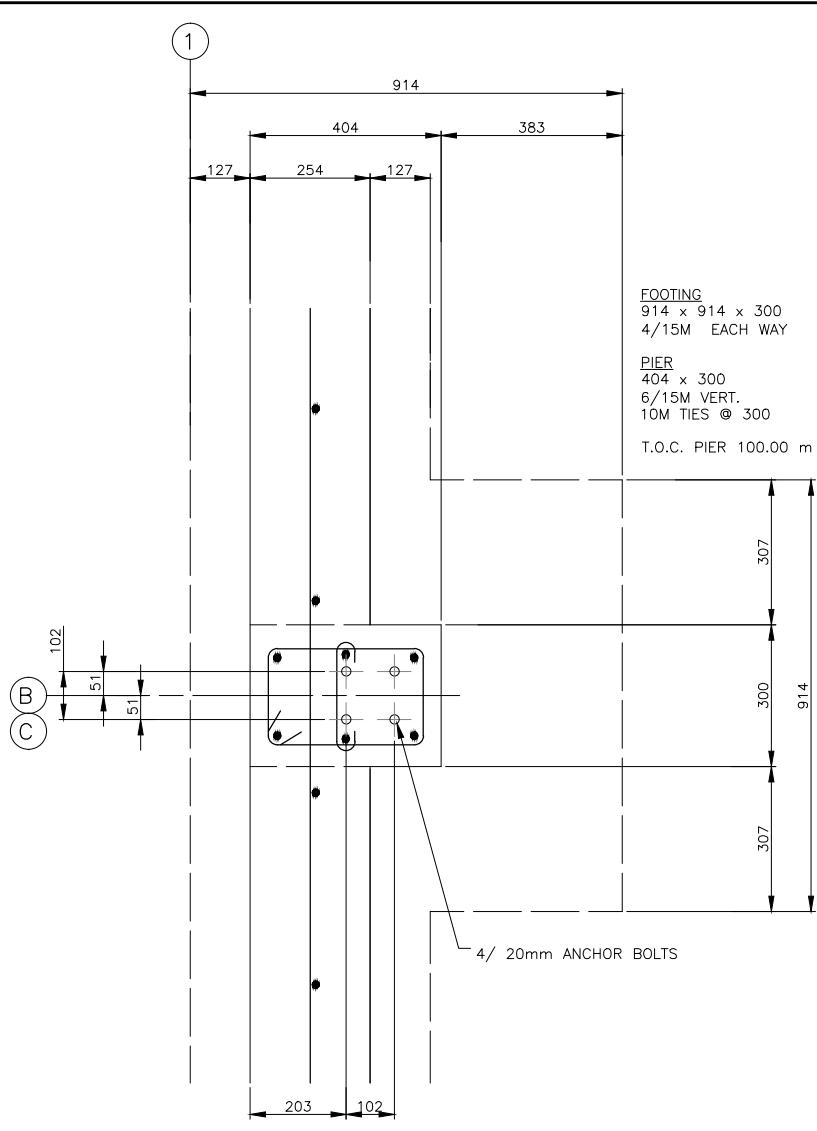
TRENCH DETAIL 5
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"

NOTE: BEFORE POURING CONCRETE COORDINATE ALL TRENCHES WITH PIPING DRAWINGS.

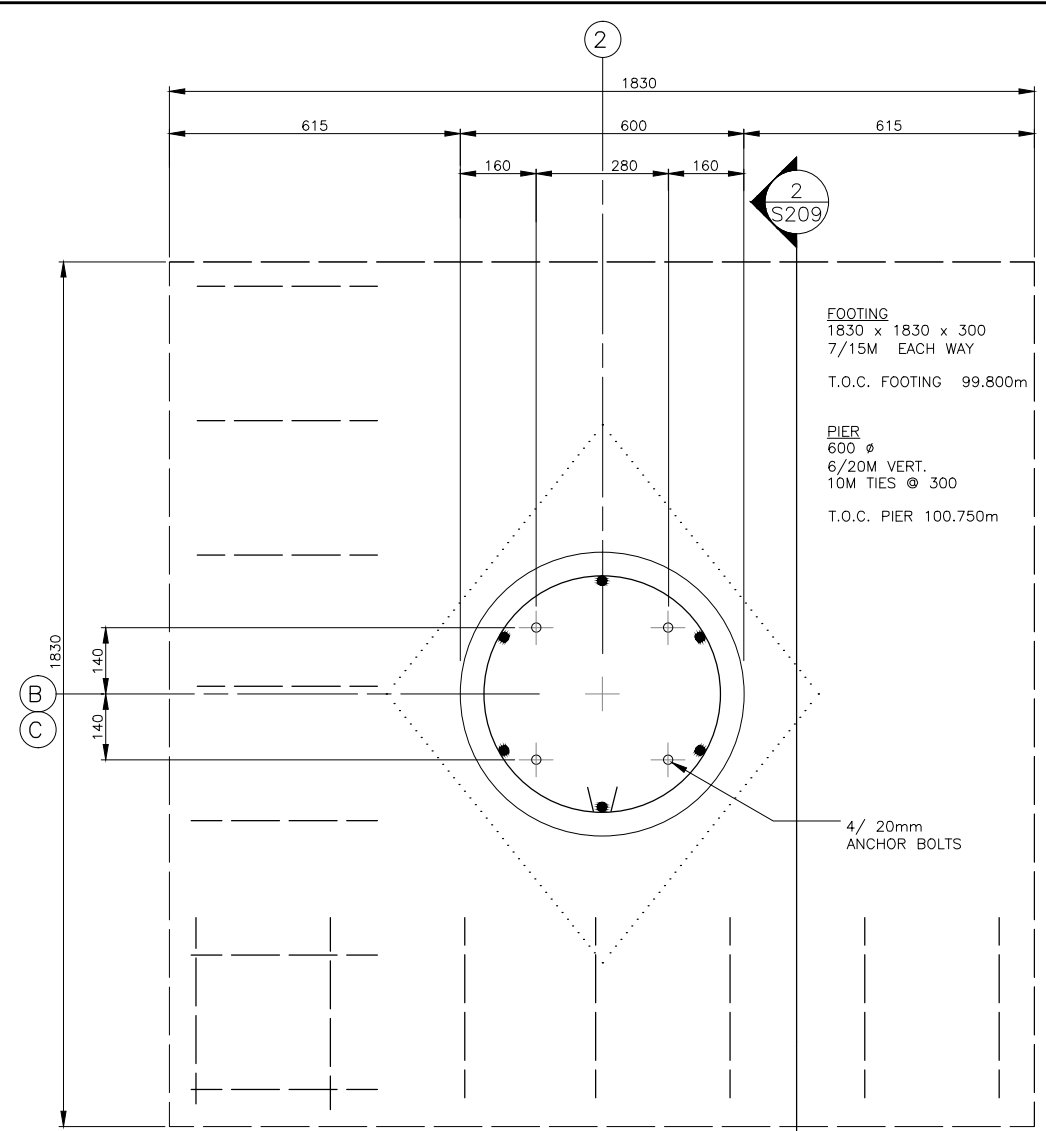


30	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	<p>01 2015-10-20 ISSUED FOR TENDER</p>	<p>DESIGNED M.P. DRAWN O.S.D. CHECKED D.N.S. RECOMMENDED APPROVED APPROVED</p>	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	<p>SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE</p>	<p>SCALE AS SHOWN DATE 2015-10-20 DRAWING NUMBER S-204</p>
					<p>FOUNDATION DETAILS 2</p>	<p>REVISION</p>	
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS		

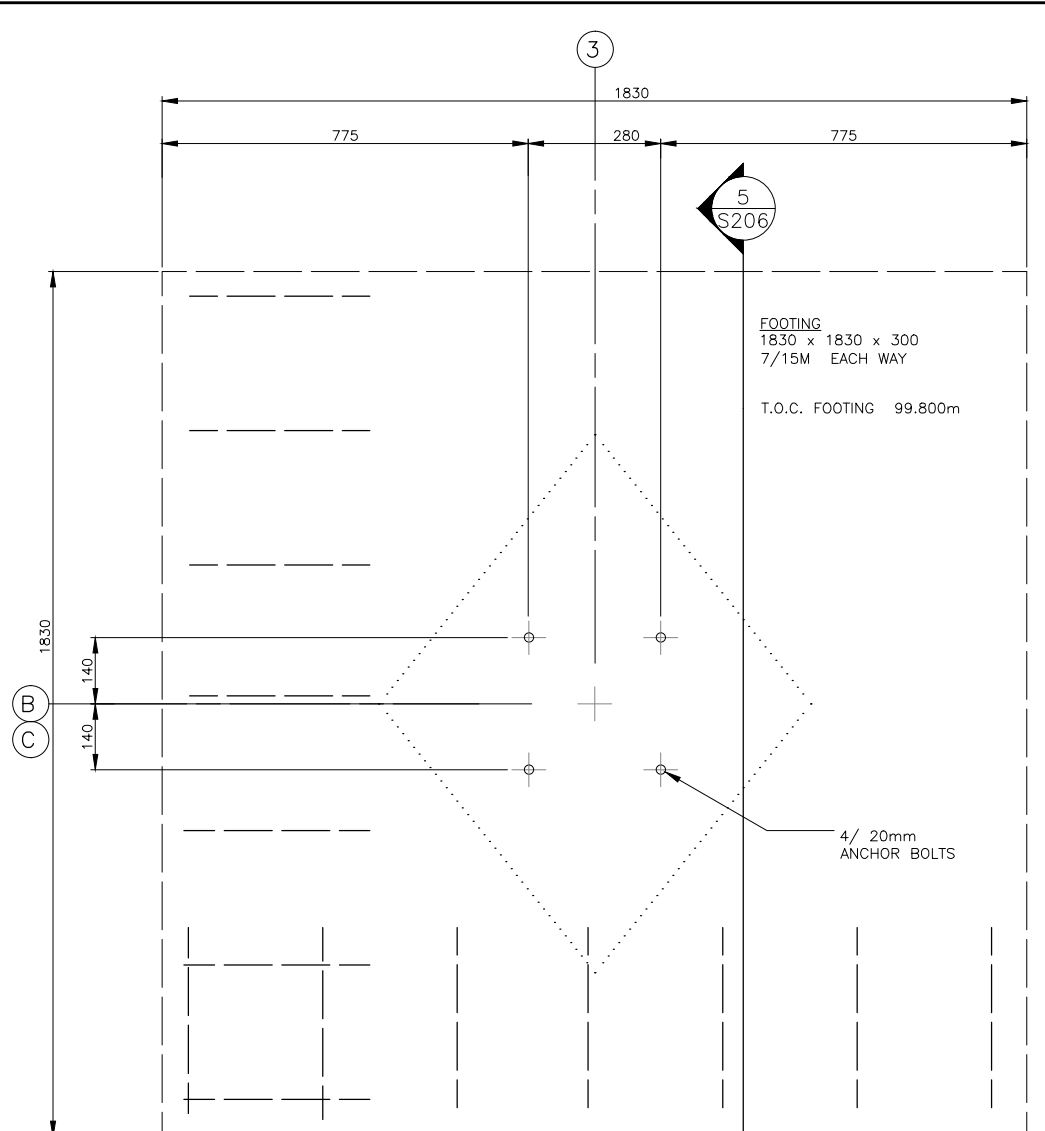
PRINT DATE: 2015-11-6 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC S-201 TO S-211 BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG



FOUNDATION AT PIER B1 & C1
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



FOUNDATION AT PIER B2 & C2
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



FOUNDATION AT PIER B3 & C3
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



31	DRAWING REFERENCES
DWG. NO.	DRAWING REFERENCES

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PHILLIPS ENGINEERING
 STRUCTURAL AND BUILDING ENGINEERS

262 GEORGE STREET
 FREDERICTON NEW BRUNSWICK
 E3B 1J5

506.455.8476

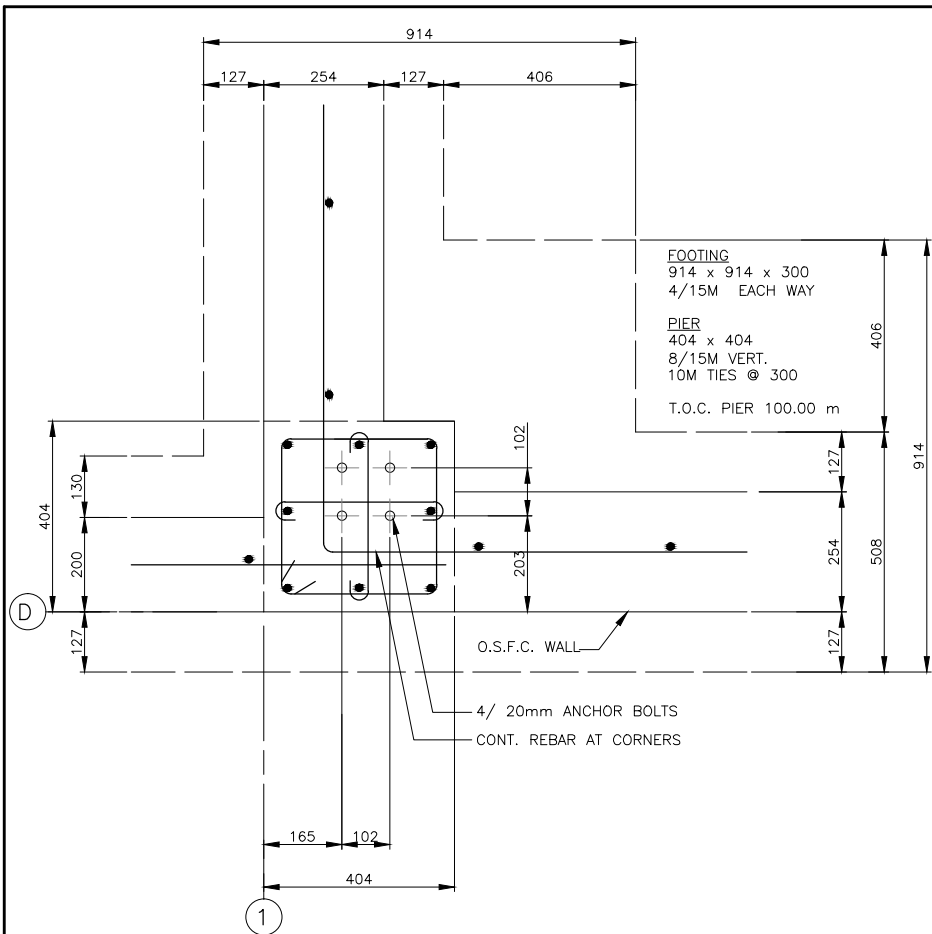
NO.	DATE	REVISIONS
01	2015-10-20	ISSUED FOR TENDER

DESIGNED	M.P.
DRAWN	O.S.D.
CHECKED	D.N.S.
RECOMMENDED	
APPROVED	
APPROVED	

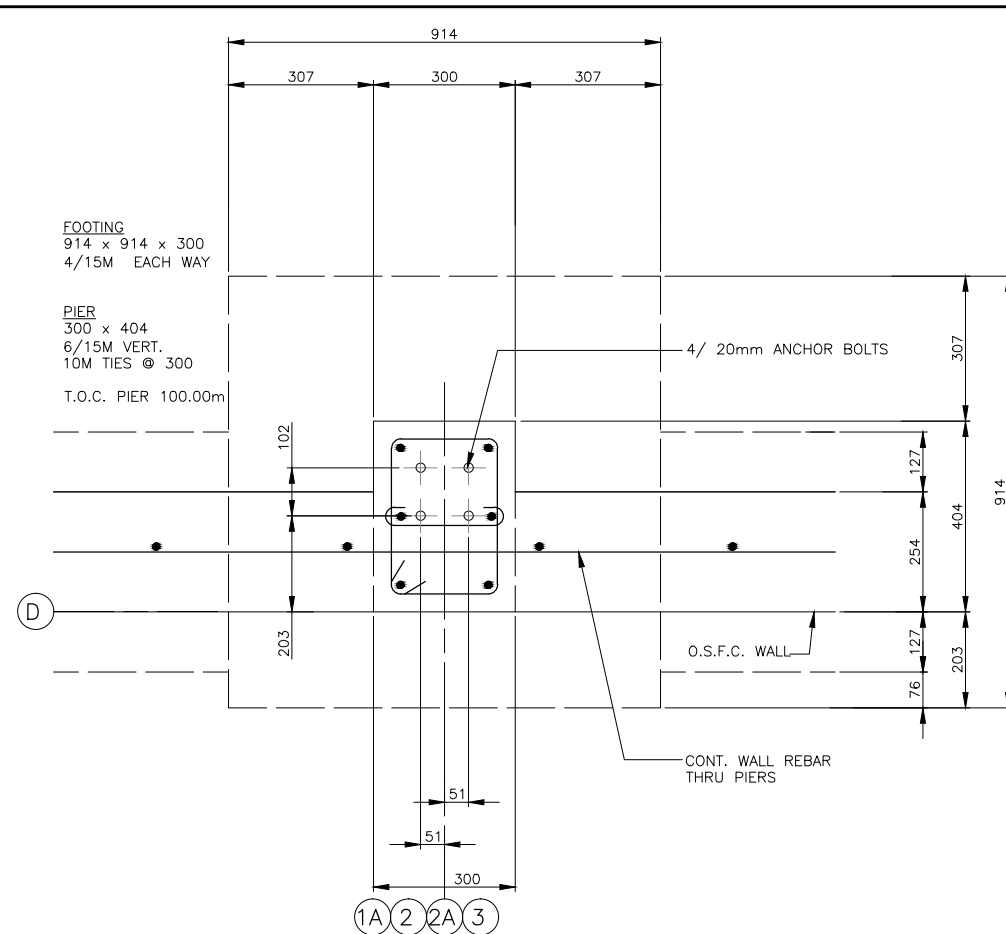
FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY	
HATCHERY COMPLEX PACKAGE	
FOUNDATION DETAILS 3	
SCALE AS SHOWN	DATE 2015-10-20
DRAWING NUMBER S-205	
REVISION	

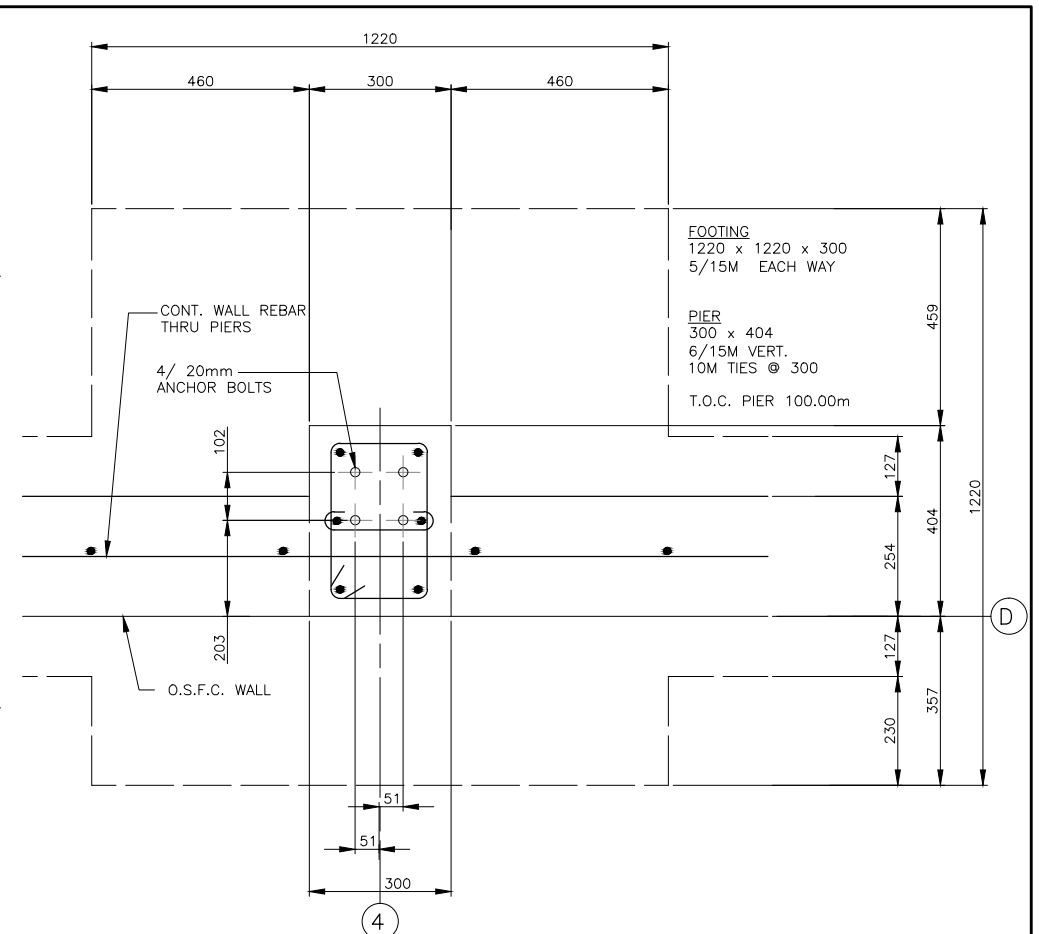
PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC S-201 TO S-211 BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG



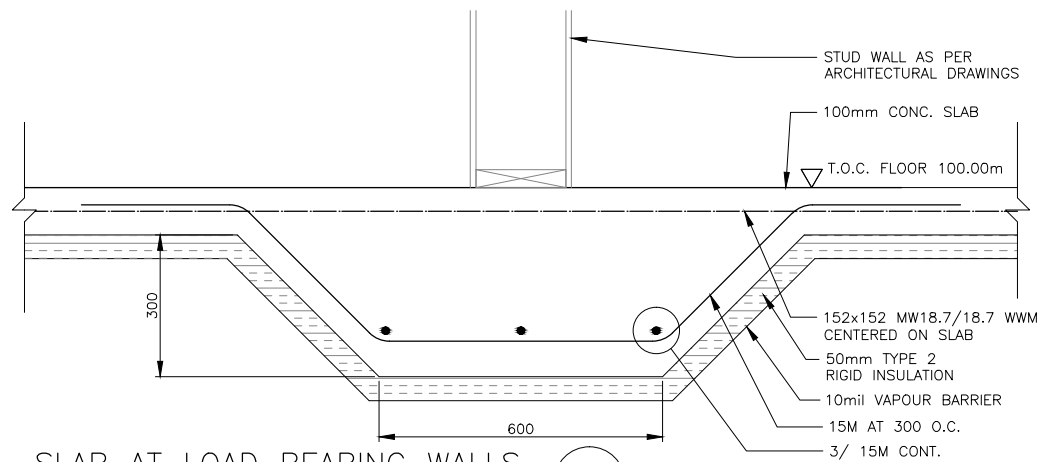
FOUNDATION AT PIER D1
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



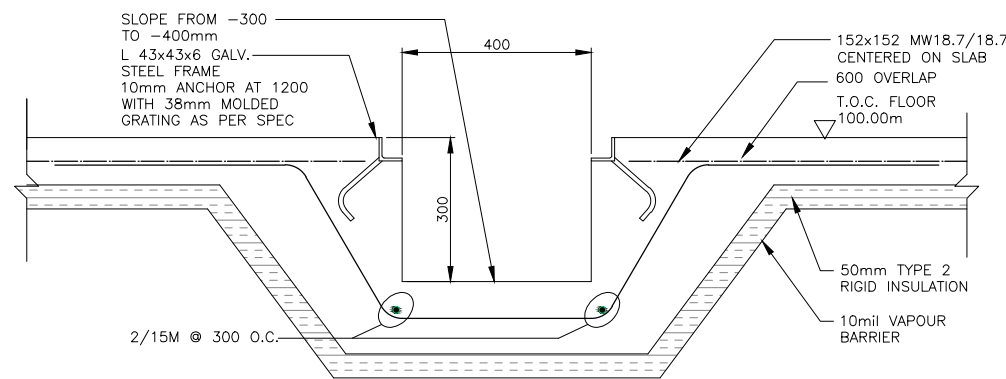
FOUNDATION AT PIER D1A, D2, D2A & D3
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



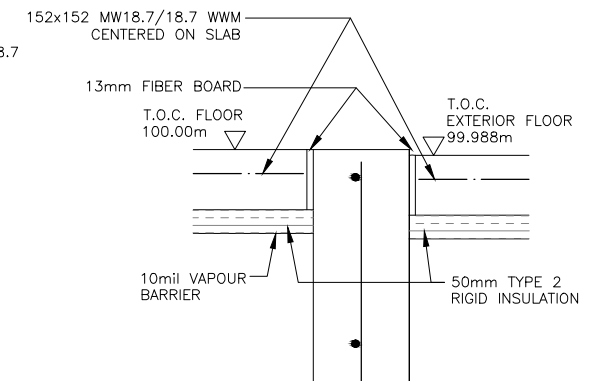
FOUNDATION AT PIER D4
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



SLAB AT LOAD BEARING WALLS
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



TRENCH DETAIL
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



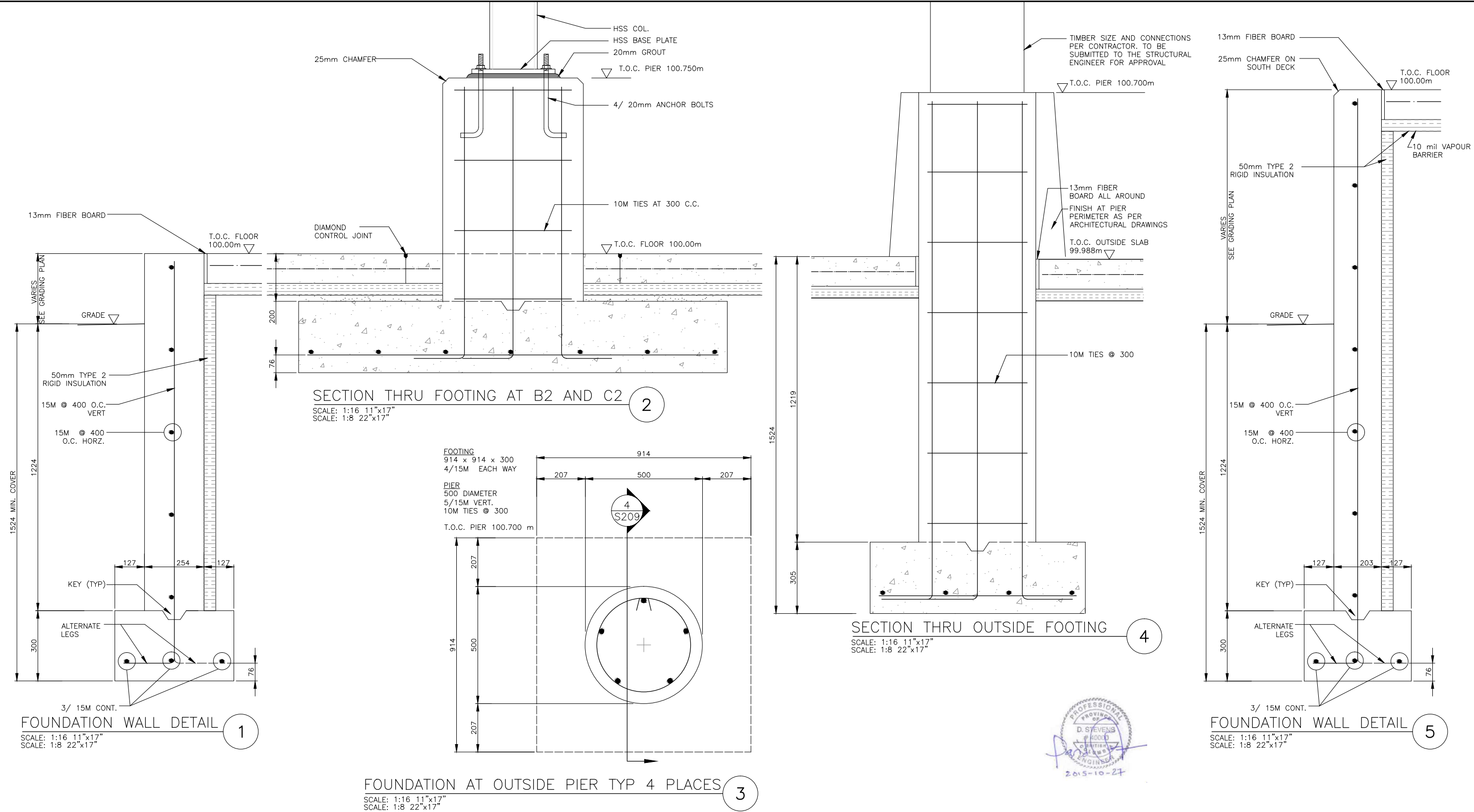
INTERIOR TO EXTERIOR SLAB
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



33	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	<p>01 2015-10-20 ISSUED FOR TENDER</p>	<p>NO. DATE REVISIONS</p>	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	<p>SNOOTLI CREEK HATCHERY</p> <p>HATCHERY COMPLEX PACKAGE</p> <p>FOUNDATION DETAILS 5</p>	<p>SCALE AS SHOWN</p> <p>DATE 2015-10-20</p> <p>DRAWING NUMBER S-207</p> <p>REVISION</p>
					<p>DESIGNED M.P.</p> <p>DRAWN O.S.D.</p> <p>CHECKED D.N.S.</p> <p>RECOMMENDED</p> <p>APPROVED</p> <p>APPROVED</p>	<p>REVISION</p>	

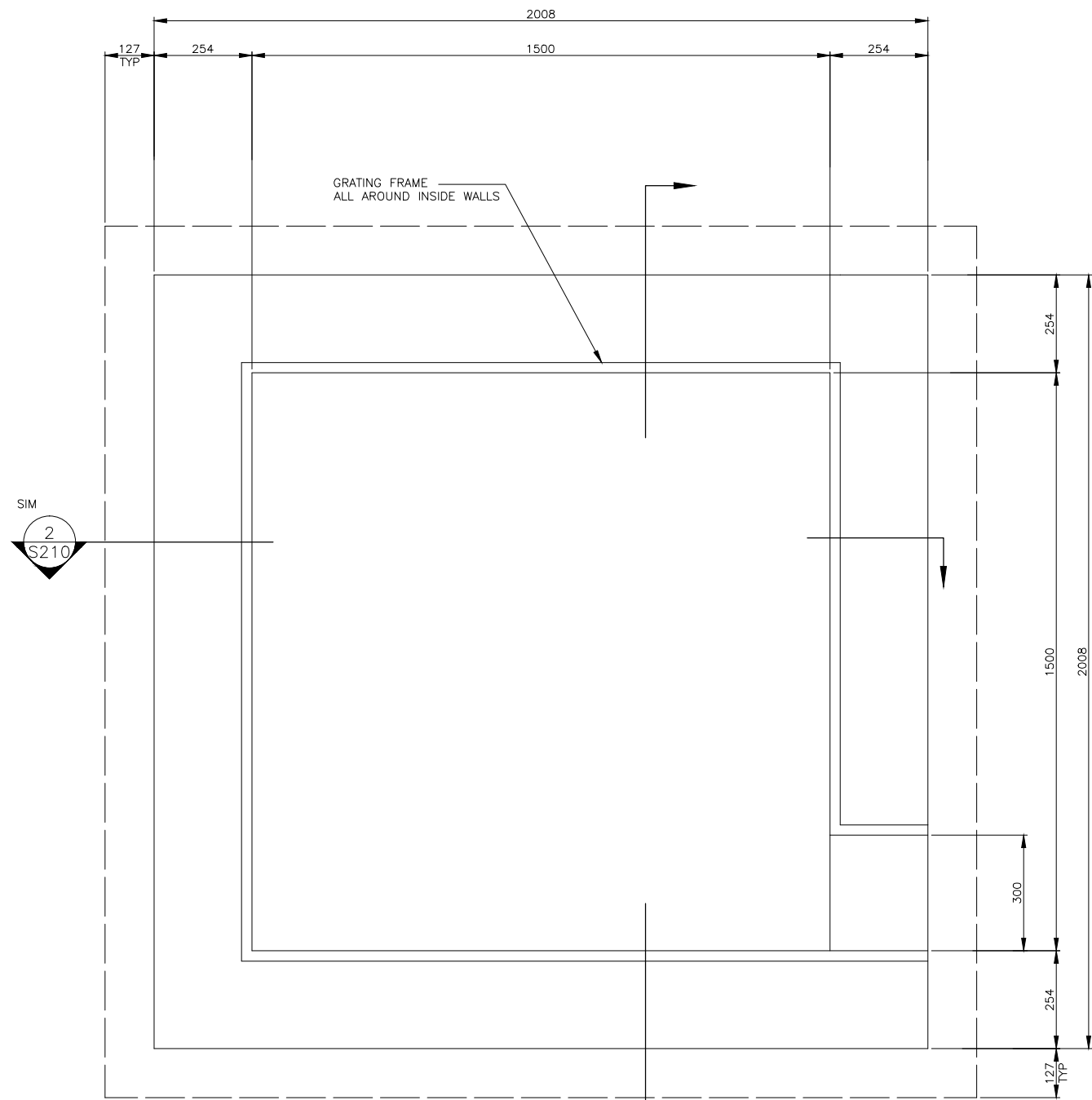
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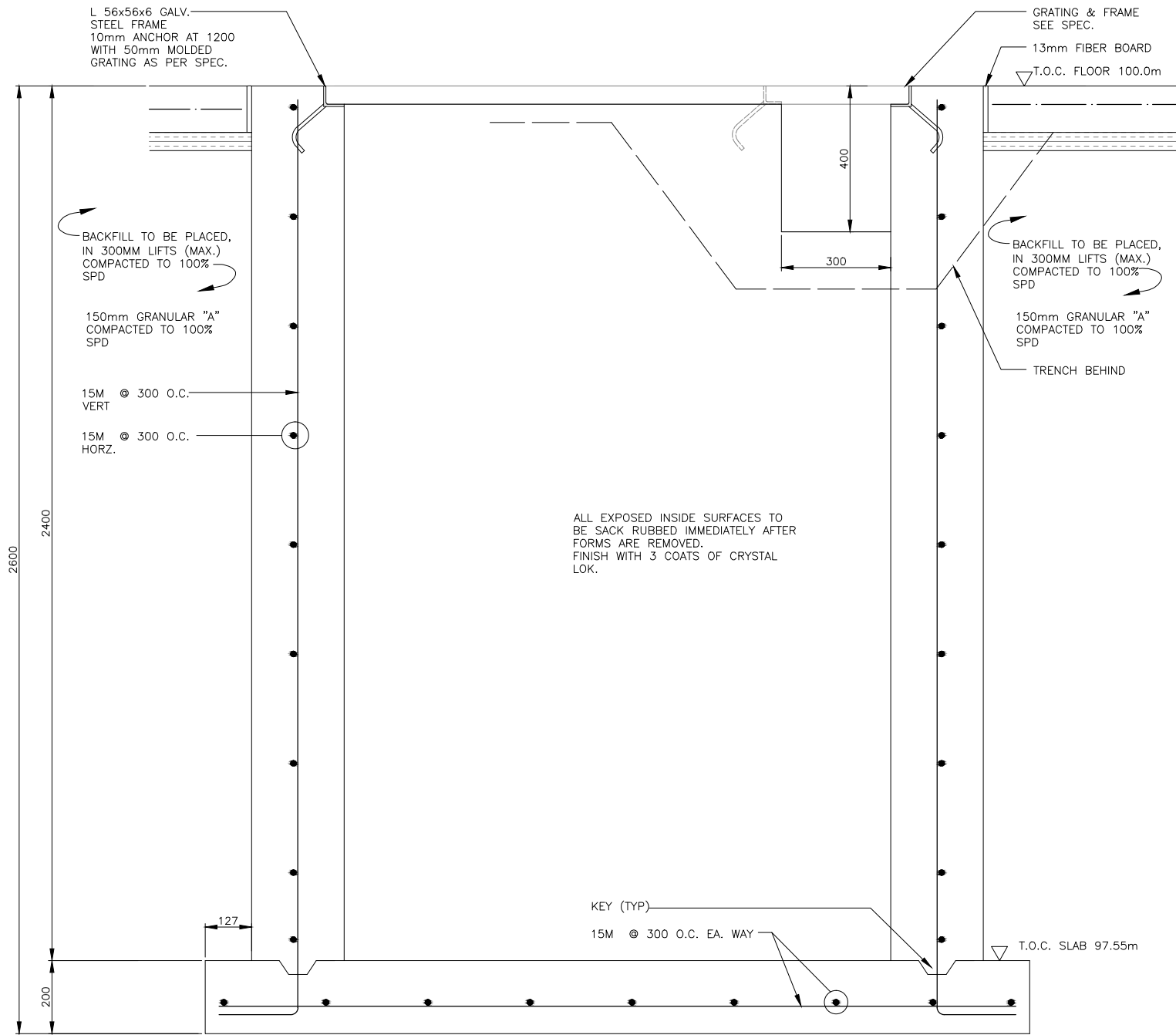


35	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	<p>01 2015-10-20 ISSUED FOR TENDER</p>	<p>NO. DATE REVISIONS</p>	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	<p>SNOOTLI CREEK HATCHERY</p>	<p>SCALE AS SHOWN</p>
					<p>HATCHERY COMPLEX PACKAGE</p>	<p>DATE 2015-10-20</p>	
<p>DWG. NO.</p>	<p>DRAWING REFERENCES</p>	<p>NOTES</p>	<p>NO. DATE</p>	<p>REVISIONS</p>	<p>DESIGNED M.P.</p>	<p>FOUNDATION DETAILS 7</p>	<p>DRAWING NUMBER S-209</p>
					<p>APPROVED</p>	<p>REVISION</p>	

PRINT DATE: 2015-11-6 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-201 TO S-211 - BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG



RECOVERY PIT PLAN 1
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"

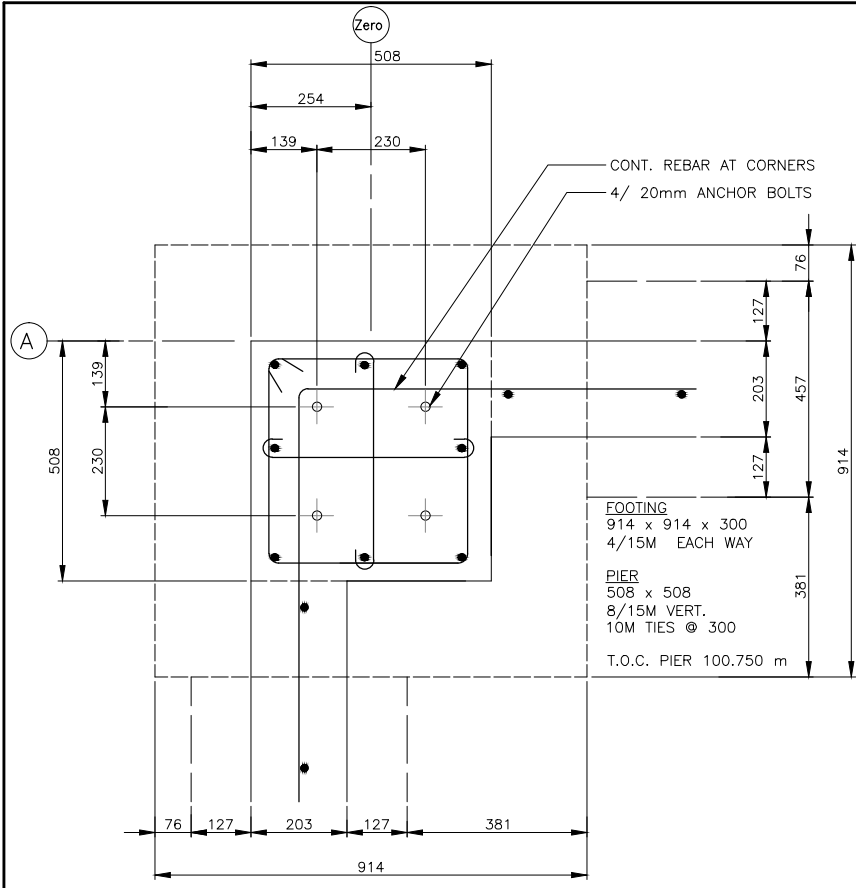


SECTION THRU RECOVERY PIT 2
SCALE: 1:16 11"x17"
SCALE: 1:8 22"x17"

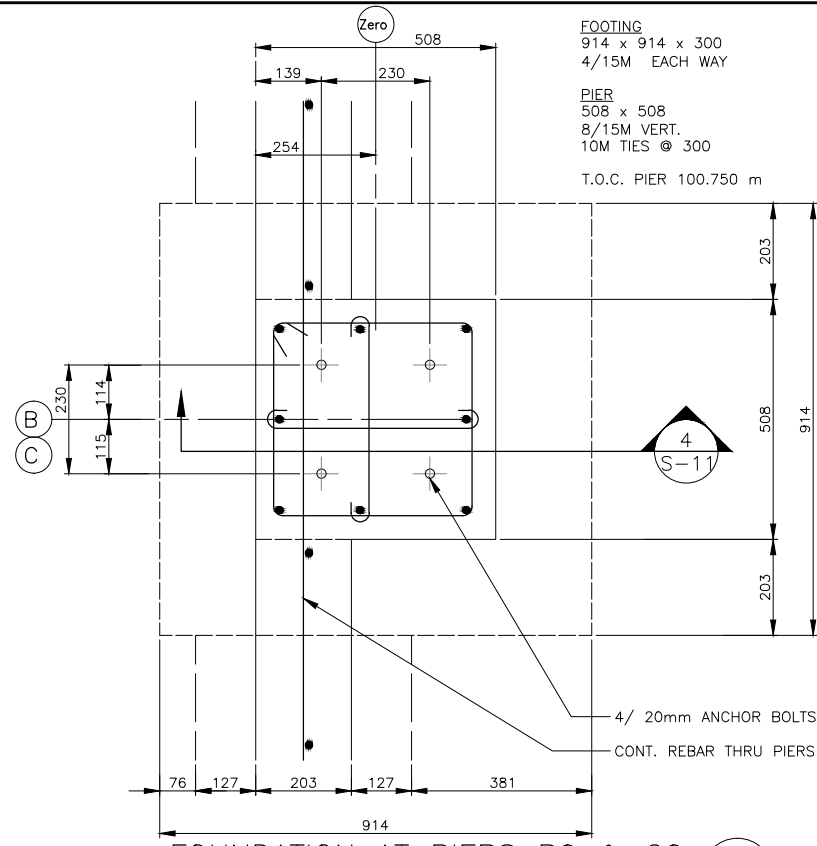


36	DRAWING REFERENCES	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	01 2015-10-20 ISSUED FOR TENDER	REVISIONS	DESIGNED M.P.	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	SCALE AS SHOWN
						DRAWN O.S.D.		DATE 2015-10-20
CHECKED D.N.S.	DRAWING NUMBER S-210							
RECOMMENDED	REVISION							
APPROVED								
DWG. NO.		NOTES				APPROVED		

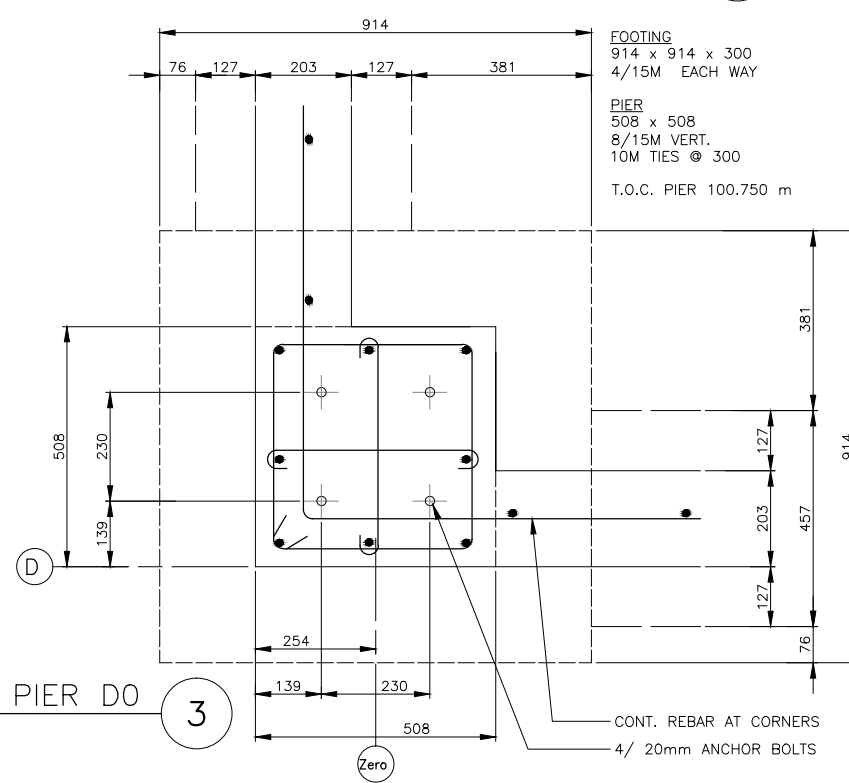
PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC S-201 TO S-211 BUILDING FOUNDATIONS 2015.09.18 ISSUED FOR TENDER.DWG



FOUNDATION AT PIER A0
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



FOUNDATION AT PIERS B0 & C0
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



FOUNDATION AT PIER D0
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"

FOOTING
 914 x 914 x 300
 4/15M EACH WAY

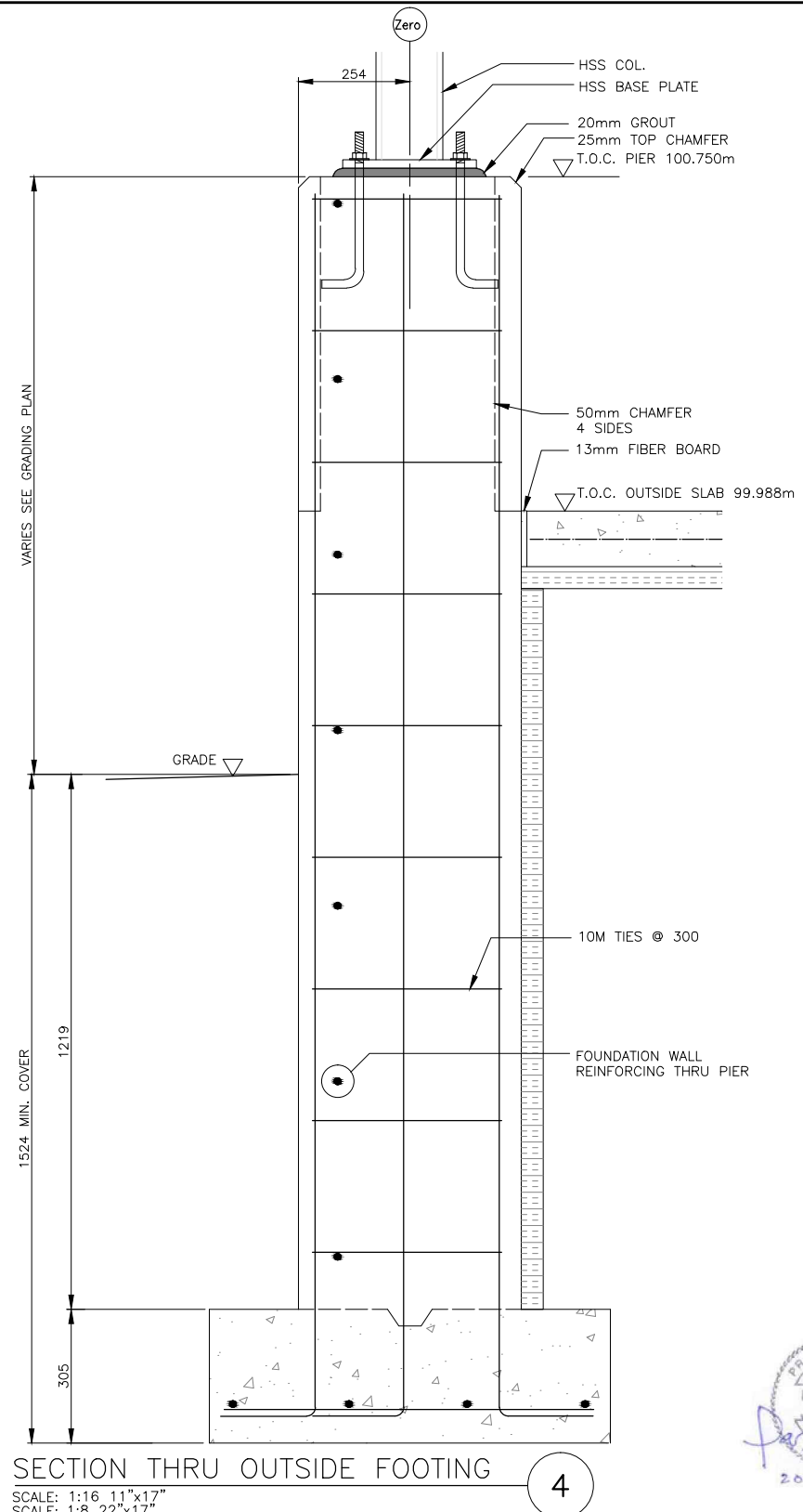
PIER
 508 x 508
 8/15M VERT.
 10M TIES @ 300

T.O.C. PIER 100.750 m

FOOTING
 914 x 914 x 300
 4/15M EACH WAY

PIER
 508 x 508
 8/15M VERT.
 10M TIES @ 300

T.O.C. PIER 100.750 m

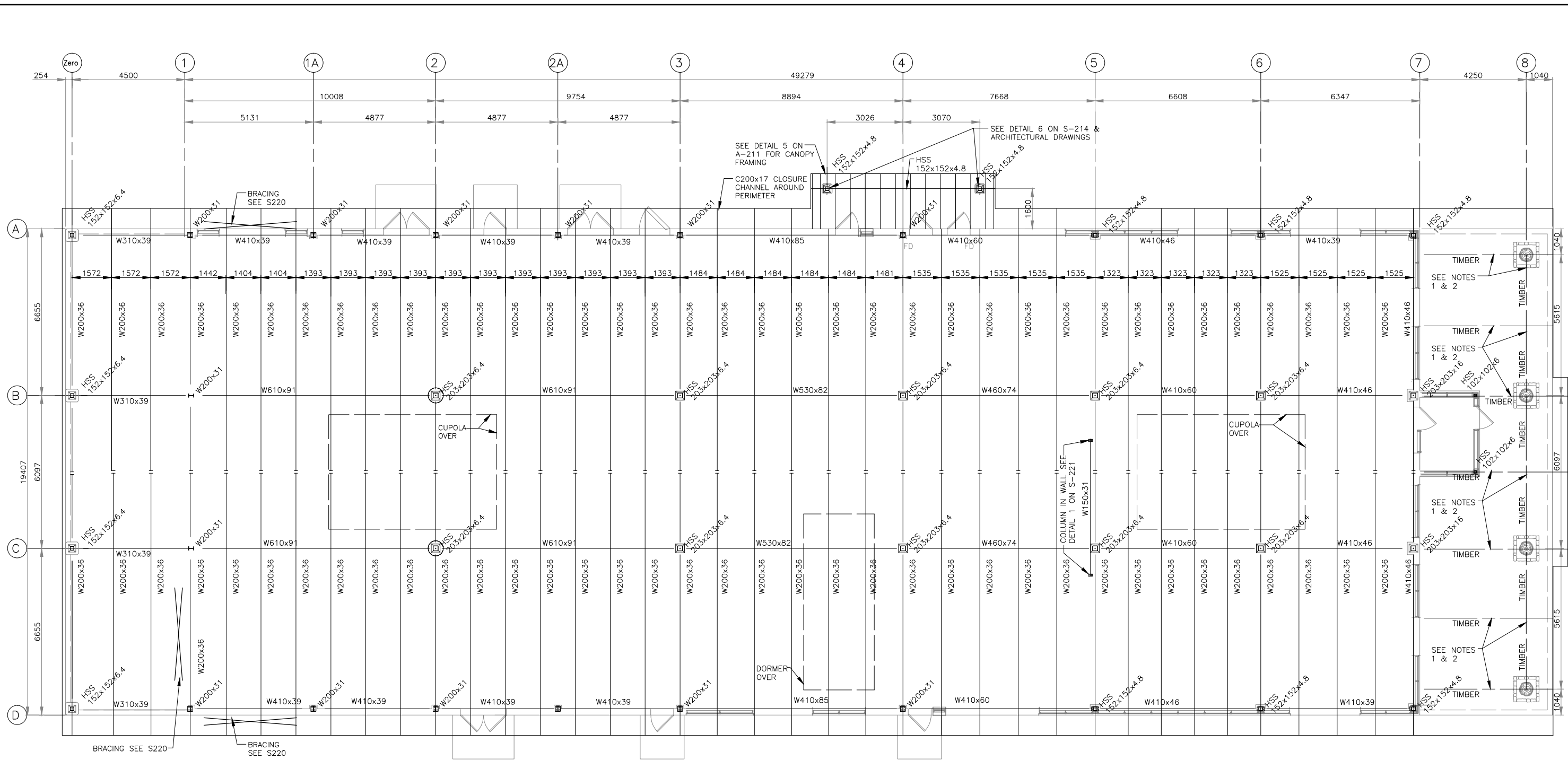


SECTION THRU OUTSIDE FOOTING
 SCALE: 1:16 11"x17"
 SCALE: 1:8 22"x17"



37	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	<p>01 2015-10-20 ISSUED FOR TENDER</p>	<p>DESIGNED M.P. DRAWN O.S.D. CHECKED D.N.S. RECOMMENDED APPROVED APPROVED</p>	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	<p>SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE</p>	<p>SCALE AS SHOWN DATE 2015-10-20 DRAWING NUMBER S-211</p>
					<p>FOUNDATION DETAILS 9</p>	<p>REVISION</p>	
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS		REVISION

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09.18.DWG



LOADING INFORMATION
 SS= 5.5 kPa
 Sr= 0.8
 q50=0.3 kPa
 Sa (0,2)=0.38
 Dead Load = 1.0 kPa
 I= 1.0

NOTES:
 1. TIMBER CONNECTIONS TO BE DESIGNED BY "TIMBER FRAME CONTRACTOR". SUBMIT SHOP DRAWINGS DETAILING CONNECTIONS STAMPED BY AN ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF BRITISH COLUMBIA.
 2. CONNECTION SHALL FOLLOW THE CONCEPT AS SHOWN BY ARCHITECT ON THE ARCHITECTURAL DRAWINGS. SUBMIT CONCEPT TO DEPARTMENTAL REPRESENTATIVE FOR APPROVAL BEFORE PREPARING SHOP DRAWINGS.



FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

38	DWG. NO.
	DRAWING REFERENCES

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PHILLIPS ENGINEERING
 STRUCTURAL AND BUILDING ENGINEERS

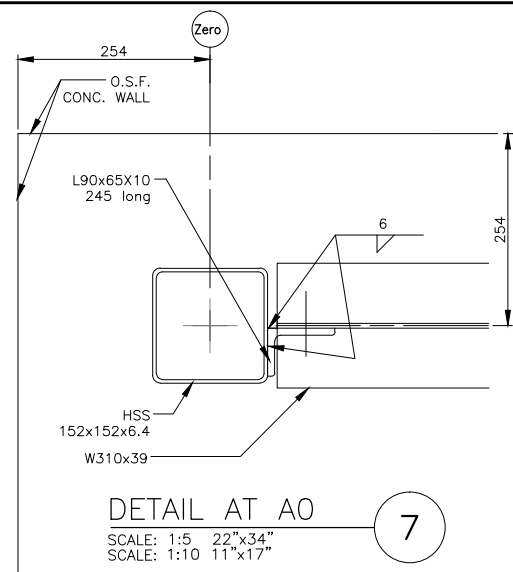
262 GEORGE STREET
 FREDERICTON NEW BRUNSWICK
 E3B 1J5

506.455.8476

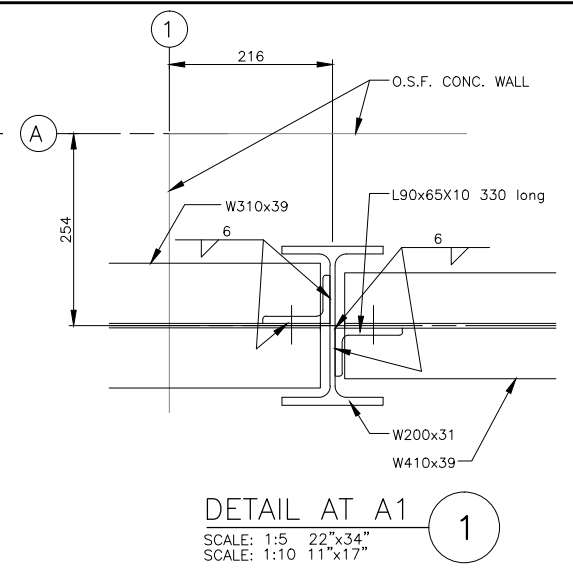
NO.	DATE	ISSUED FOR TENDER	REVISIONS
01	2015-10-20	ISSUED FOR TENDER	

DESIGNED M.P.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STEEL BEAMS AND COLUMNS PLAN	SCALE AS SHOWN
DRAWN O.S.D.		DATE 2015-07-31
CHECKED D.N.S.		DRAWING NUMBER S-212
RECOMMENDED		REVISION
APPROVED		

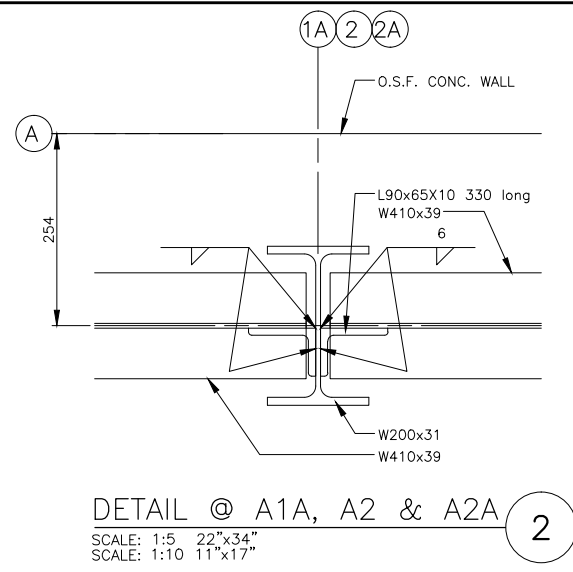
PRINT DATE: 2015-11-6 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09.18.DWG



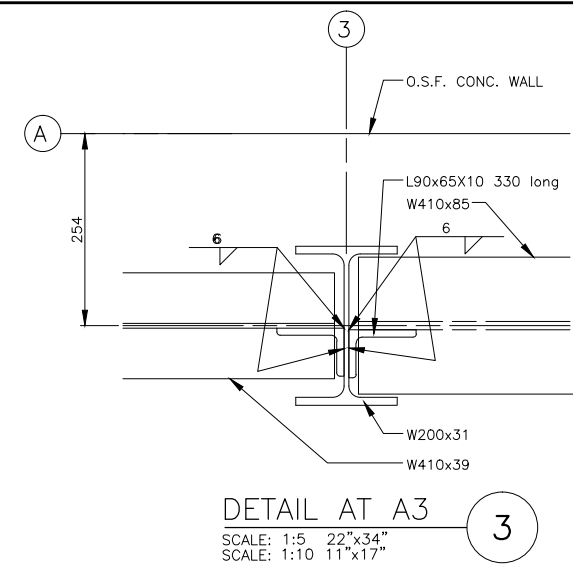
DETAIL AT A0
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



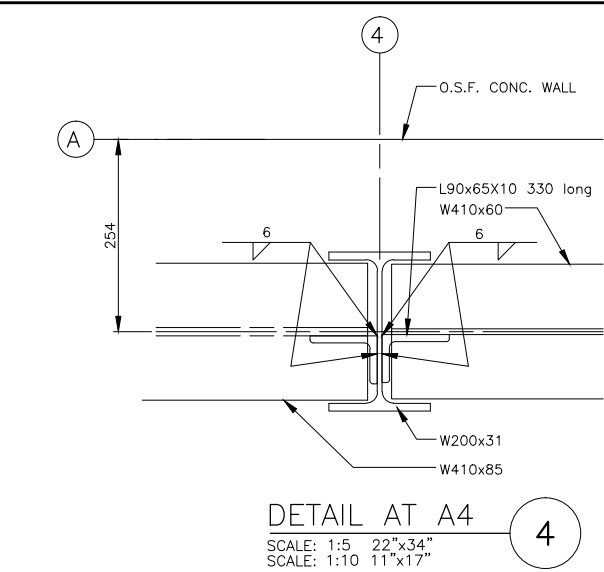
DETAIL AT A1
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



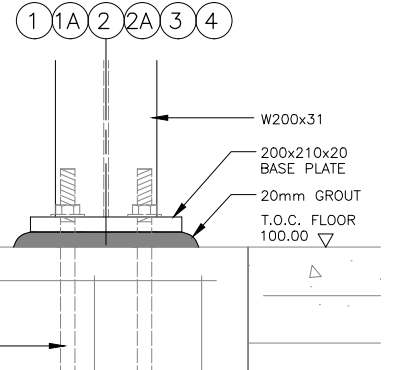
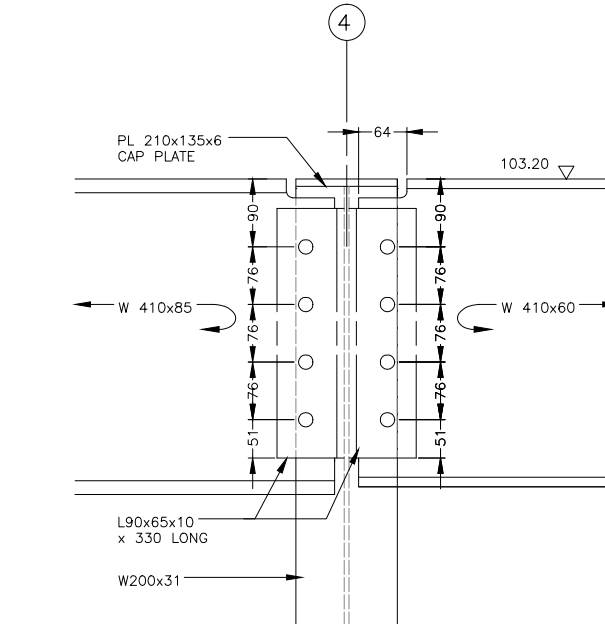
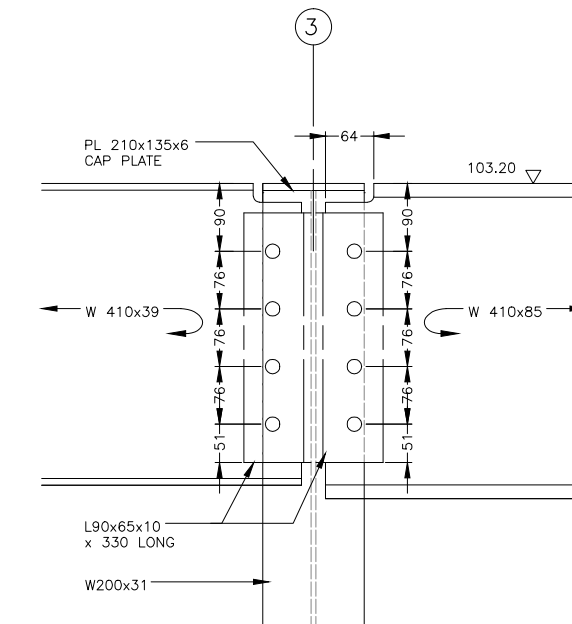
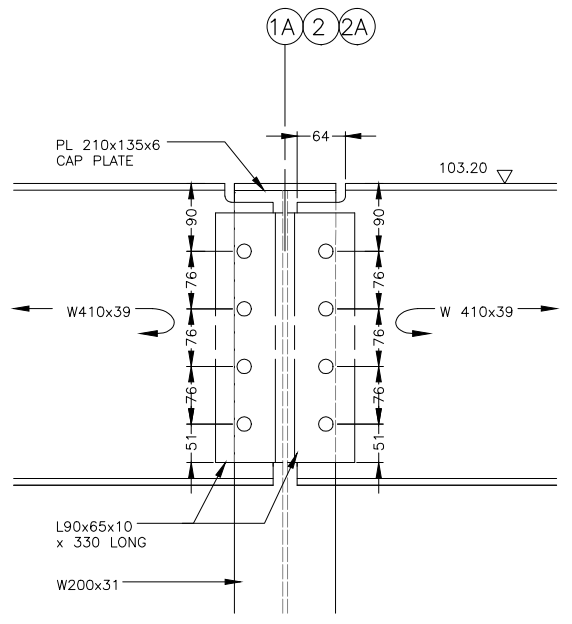
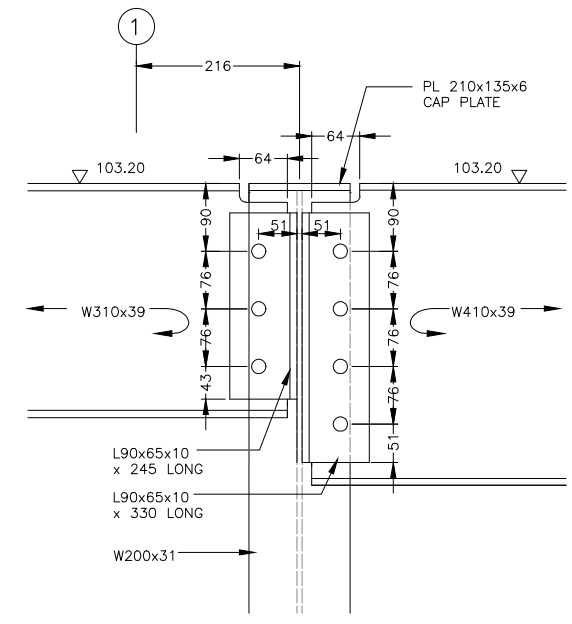
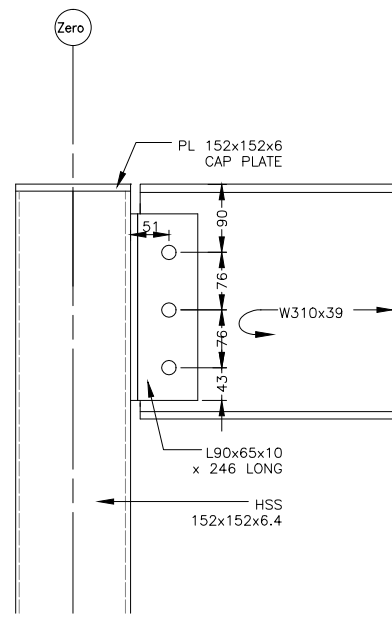
DETAIL @ A1A, A2 & A2A
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



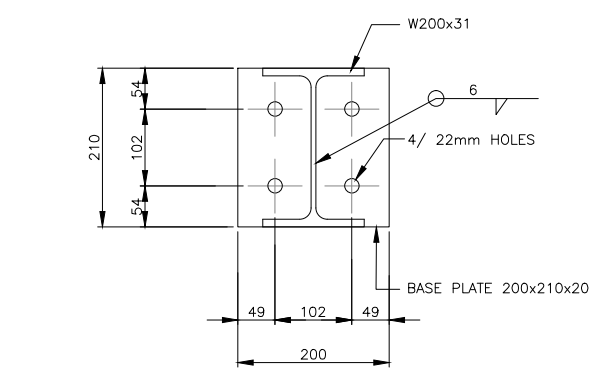
DETAIL AT A3
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



DETAIL AT A4
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



COLUMN BASE DETAIL
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



W200 BASE PLATE DETAIL
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"

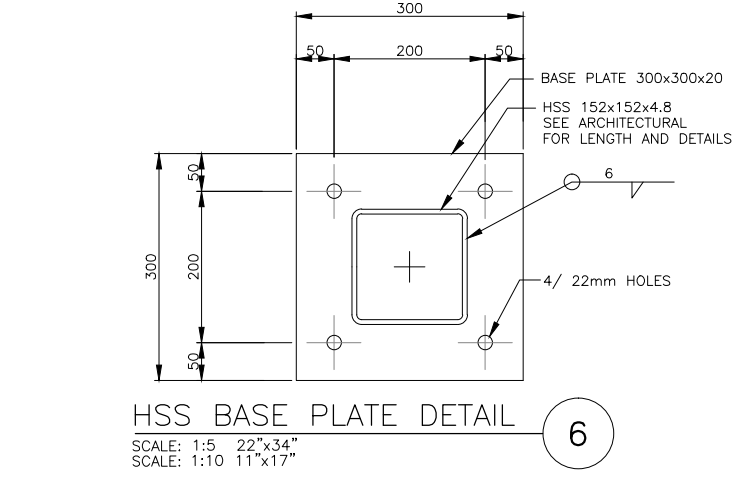
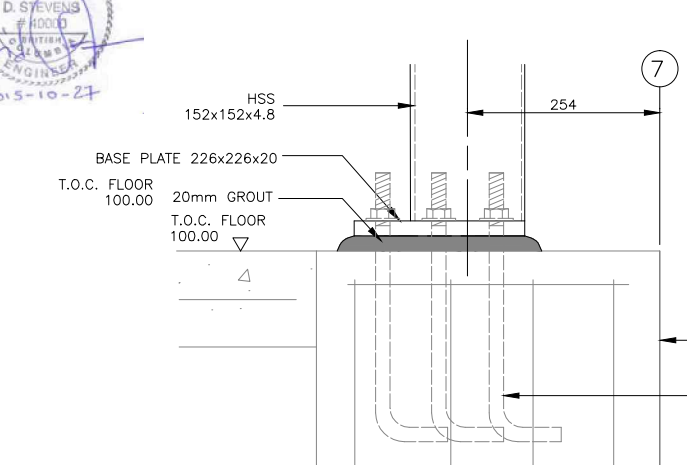
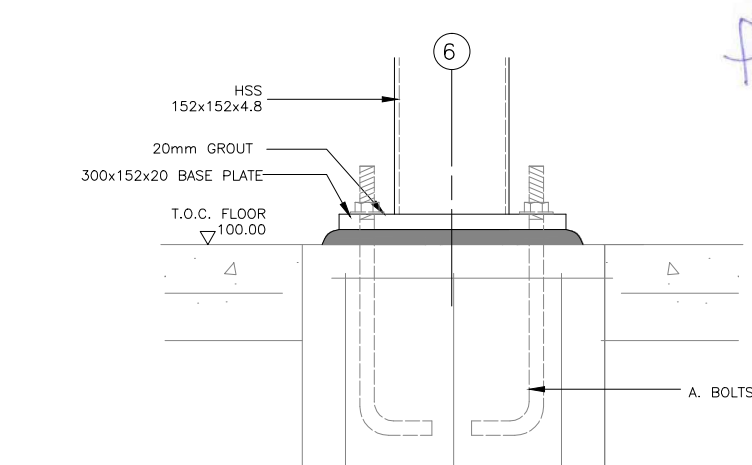
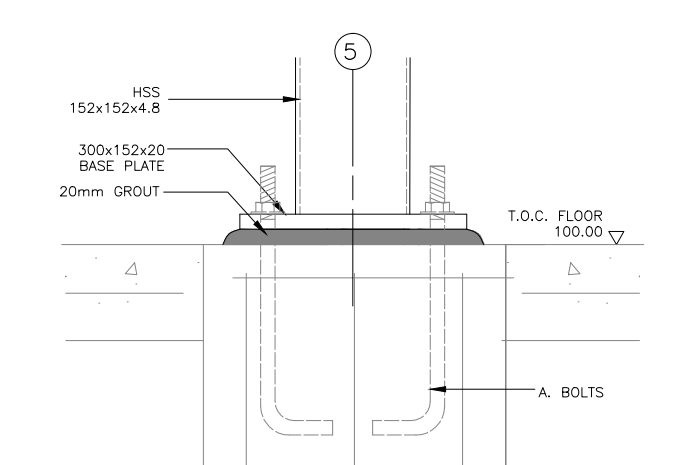
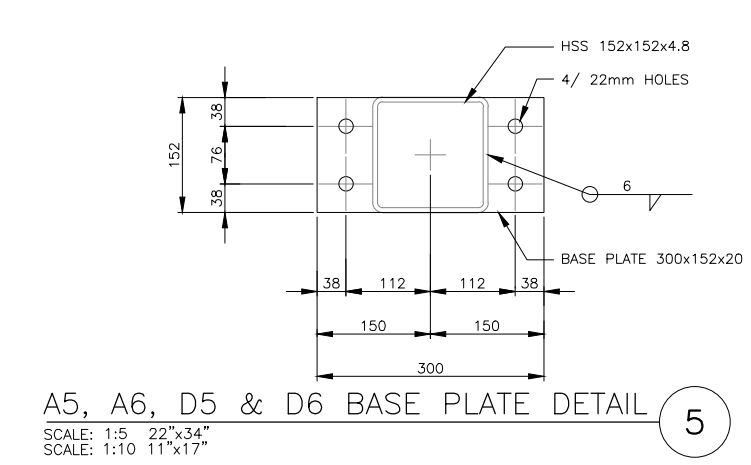
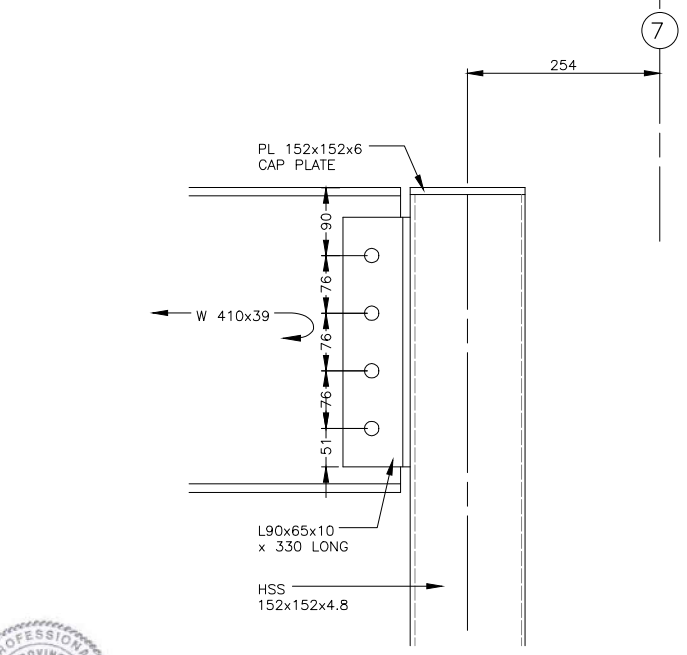
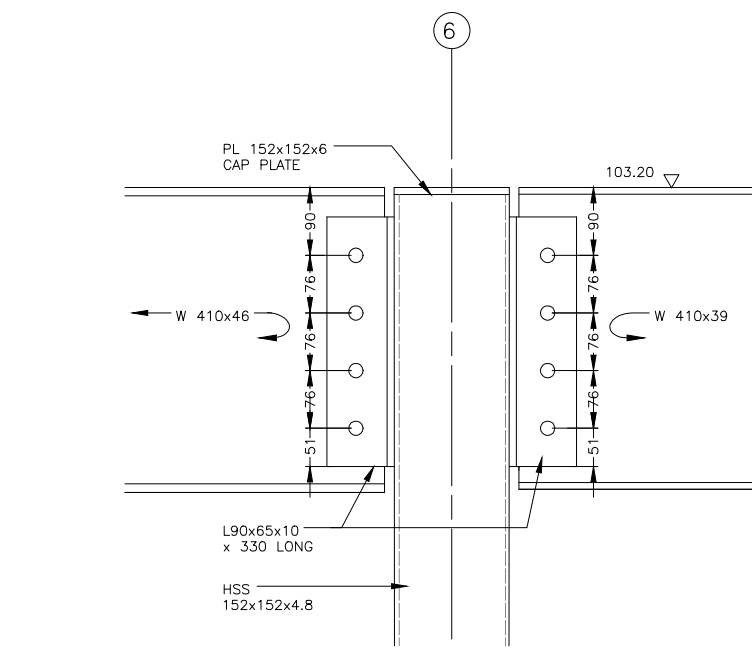
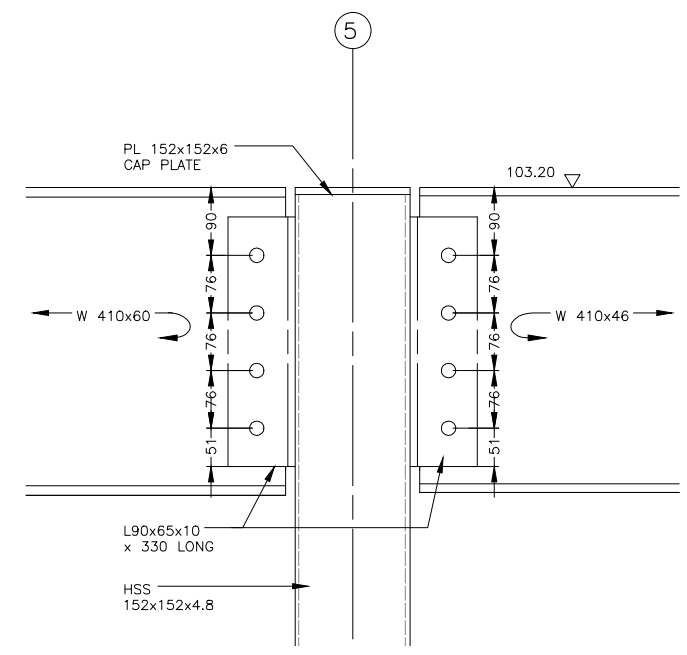
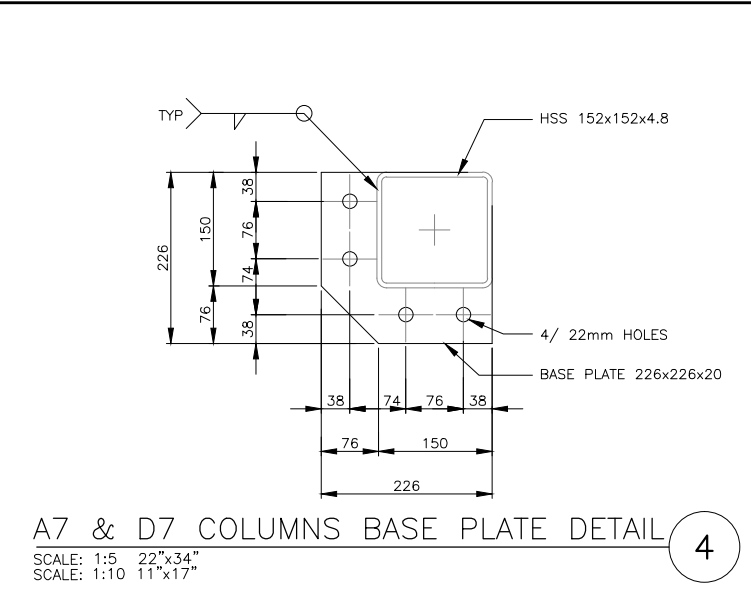
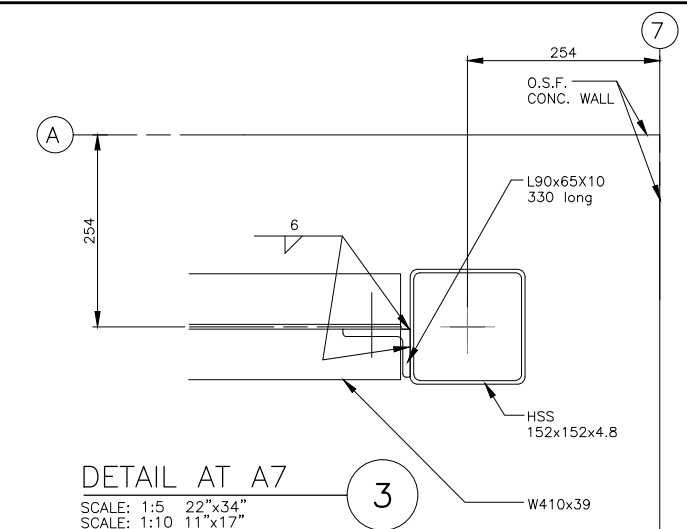
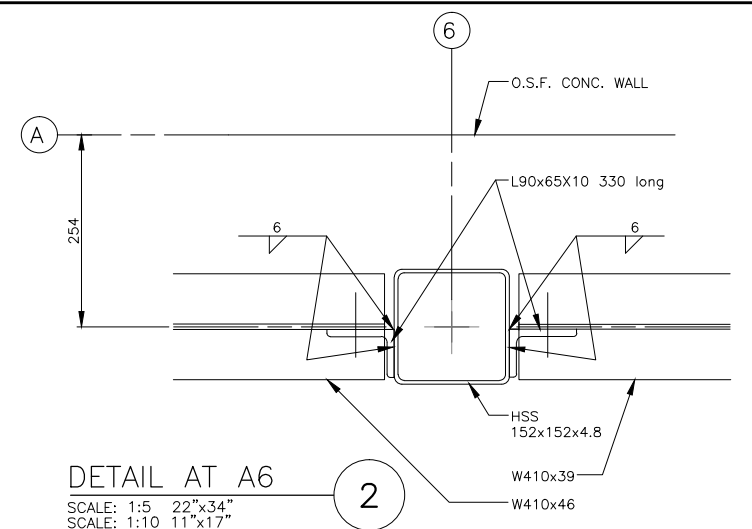
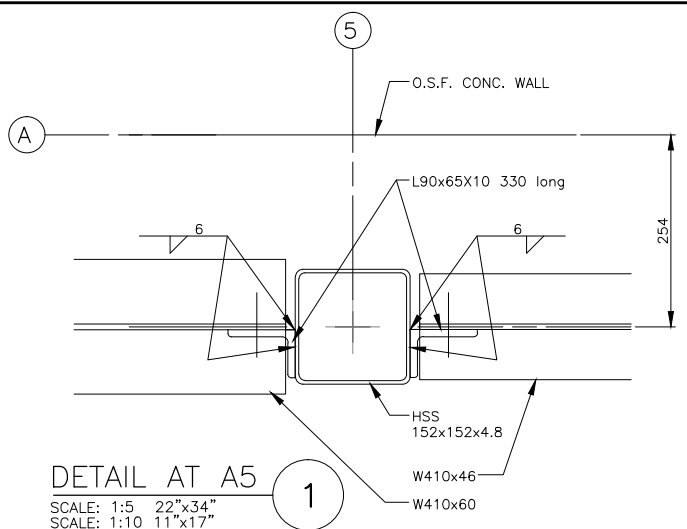
NOTES:
1. (D) LINE MIRRORS (A) LINE AS SHOWN



39

DWG. NO.	DRAWING REFERENCES	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	<p>01 2015-10-20 ISSUED FOR TENDER</p>	<p>DESIGNED M.P. DRAWN O.S.D. CHECKED D.N.S. RECOMMENDED APPROVED APPROVED</p>	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	SCALE AS SHOWN
							<p>SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE</p> <p>STEEL BEAMS AND COLUMNS DETAILS 1</p>
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		NOTES					REVISION

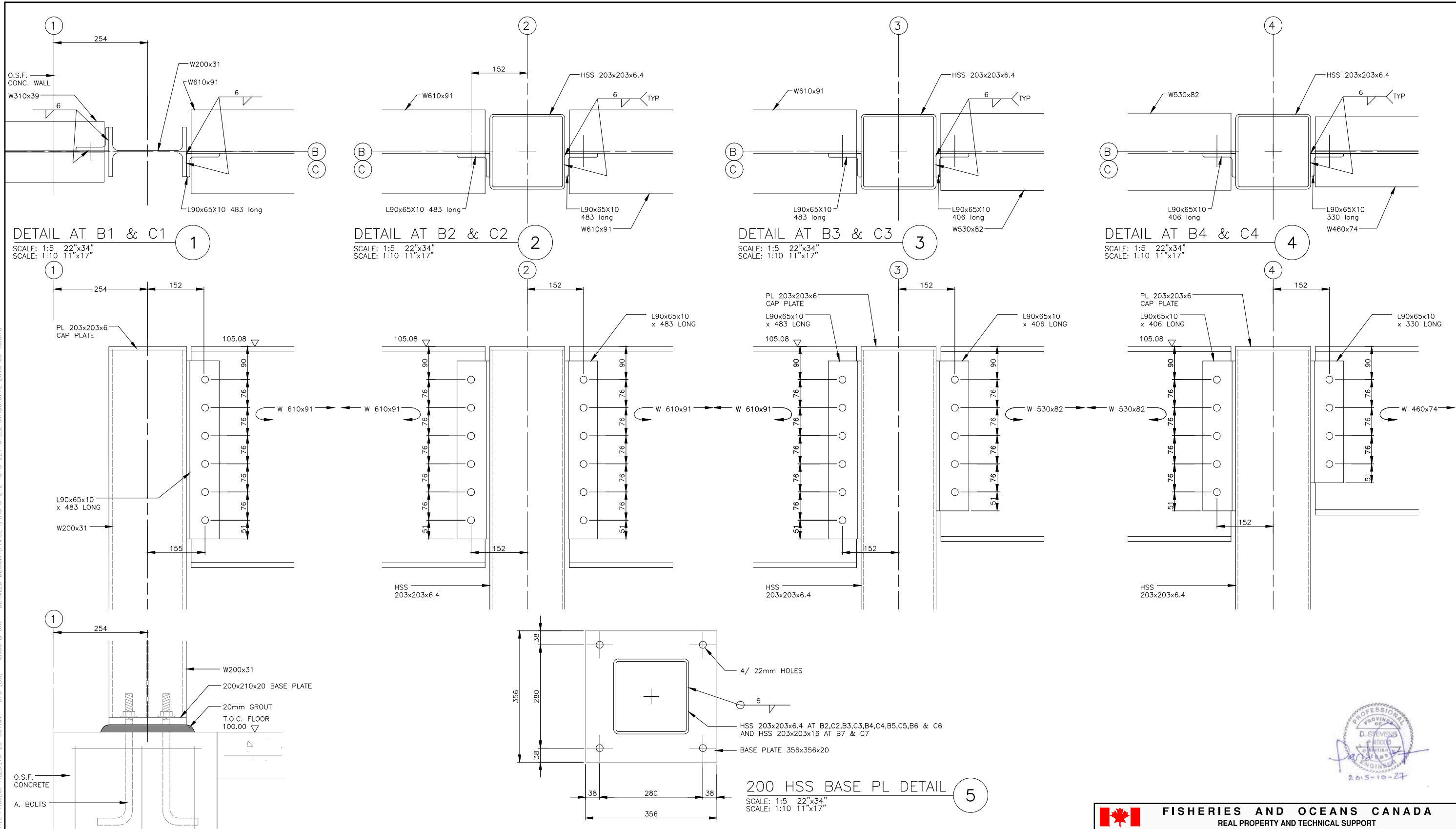
PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007-01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09.18.DWG



40	<p>silk stevens limited DESIGN & CONSULTING ENGINEERS</p>	<p>PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS</p> <p>262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5</p> <p>506.455.8476</p>	<p>01 2015-10-20 ISSUED FOR TENDER</p>	<p>DESIGNED M.P. DRAWN O.S.D. CHECKED D.N.S. RECOMMENDED APPROVED APPROVED</p>	<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	<p>SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE</p>	<p>SCALE AS SHOWN DATE 2015-07-31 DRAWING NUMBER S-214</p>
					<p>STEEL BEAMS AND COLUMNS DETAILS 2</p>	<p>REVISION</p>	
DWG. NO.	DRAWING REFERENCES	NOTES	NO. DATE	REVISIONS			REVISION

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PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09 18.DWG



41	DWG. NO.
	DRAWING REFERENCES

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262 GEORGE STREET
 FREDERICTON NEW BRUNSWICK
 E3B 1J5

506.455.8476

DESIGNED	M.P.
DRAWN	O.S.D.
CHECKED	D.N.S.
RECOMMENDED	
APPROVED	
APPROVED	

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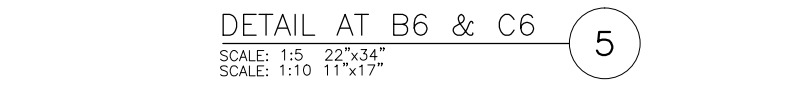
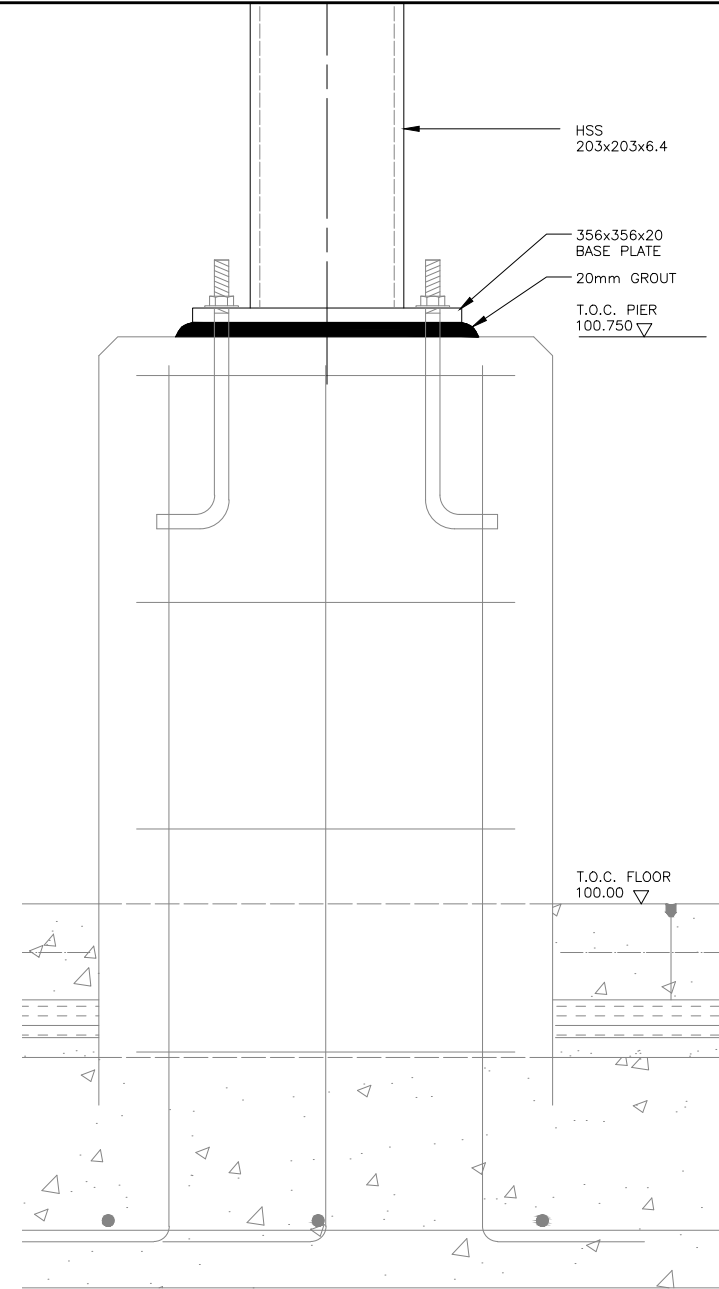
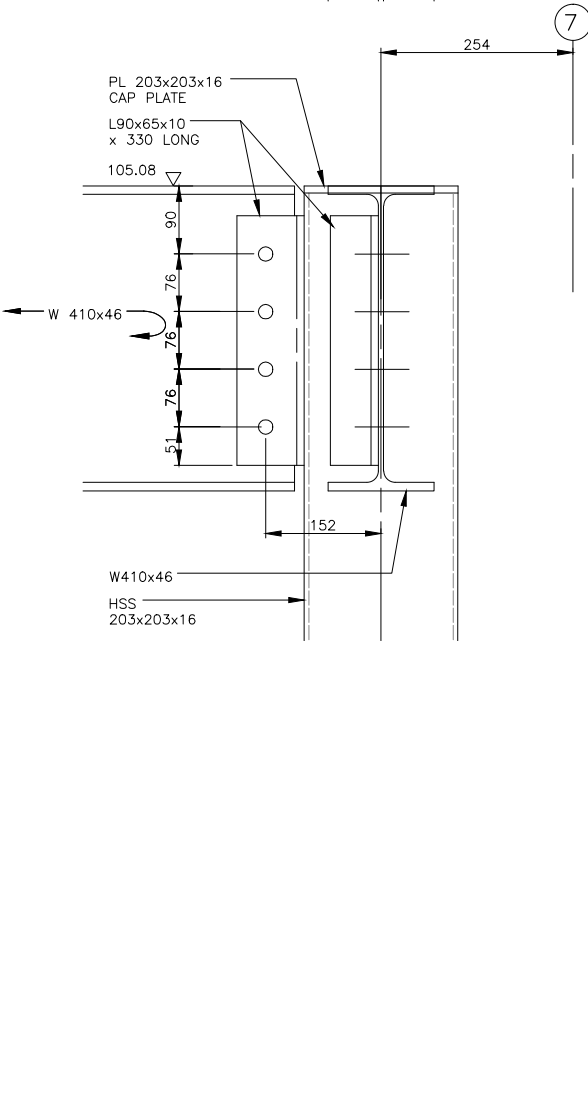
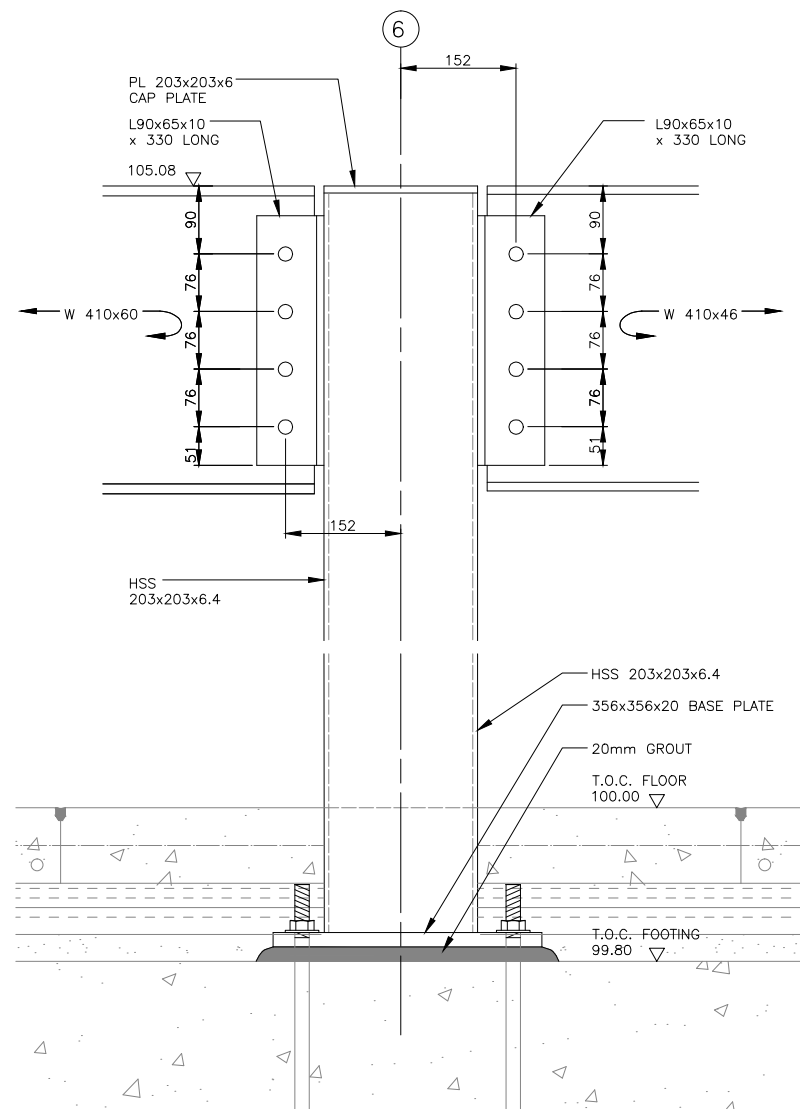
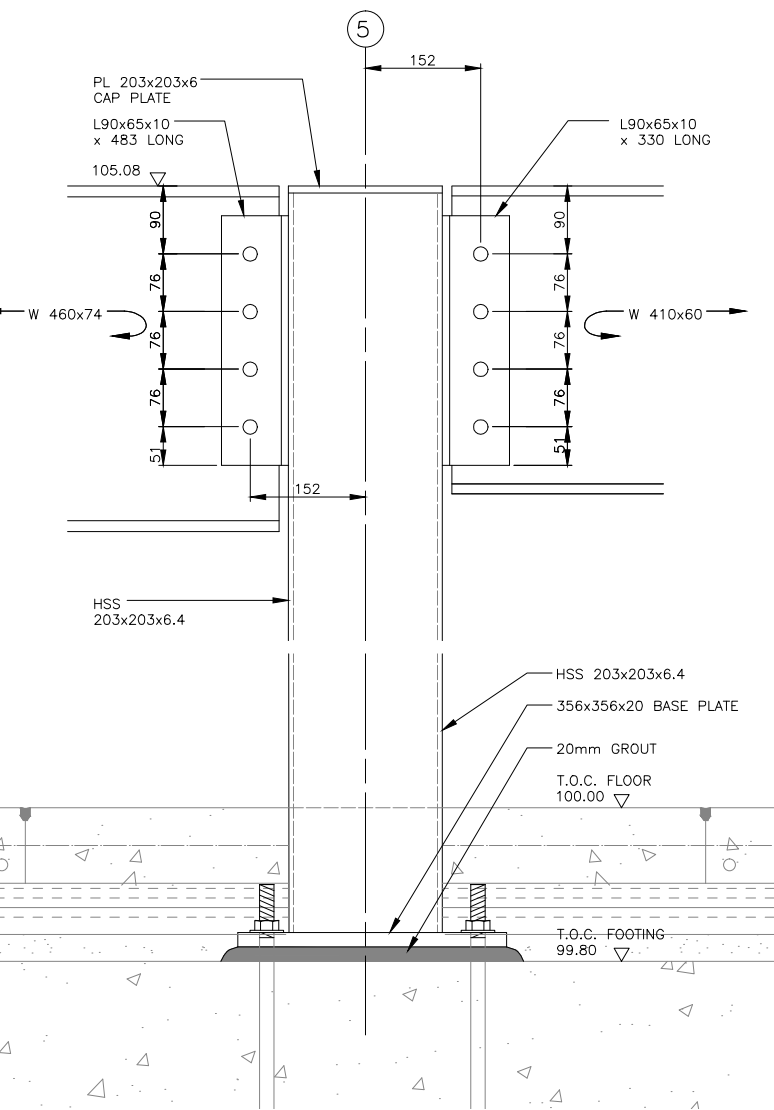
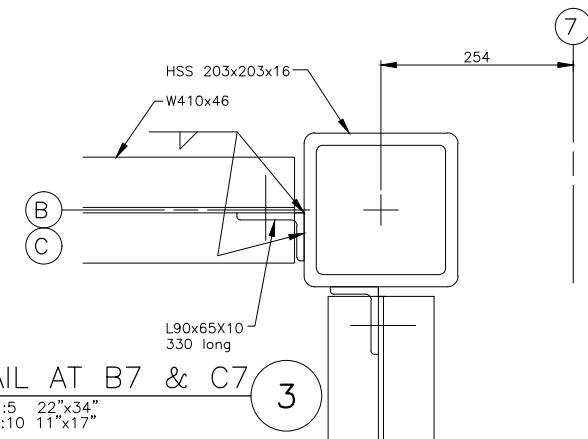
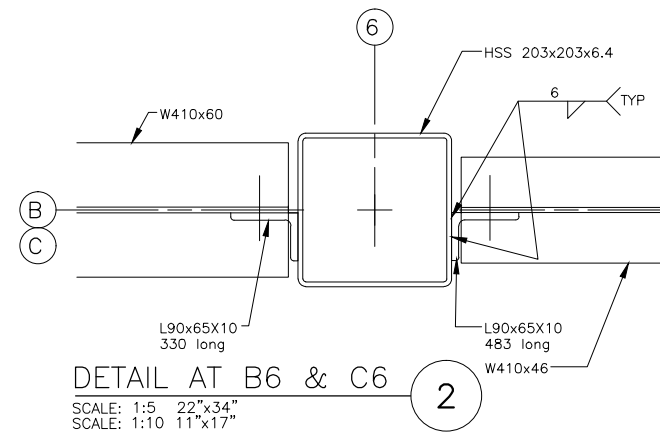
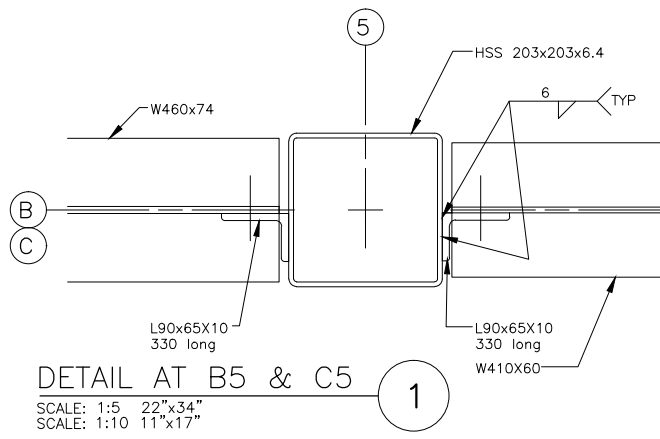
SNOOTLI CREEK HATCHERY

HATCHERY COMPLEX PACKAGE

STEEL BEAMS AND COLUMNS DETAILS 3

SCALE	AS SHOWN
DATE	2015-07-31
DRAWING NUMBER	S-215
REVISION	

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09 18.DWG



42

DWG. NO.	DRAWING REFERENCES
42	

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01	2015-10-20	ISSUED FOR TENDER	

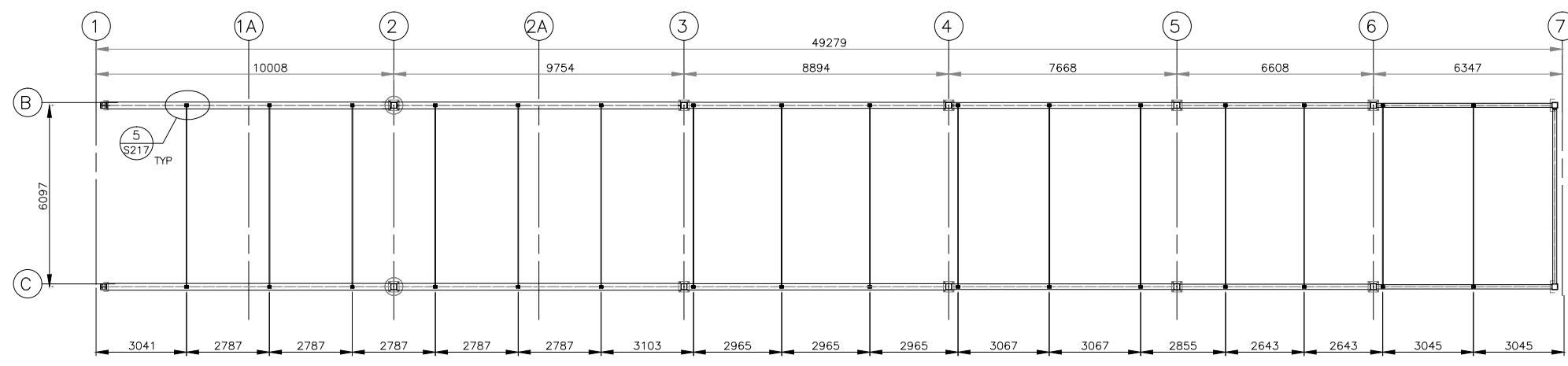
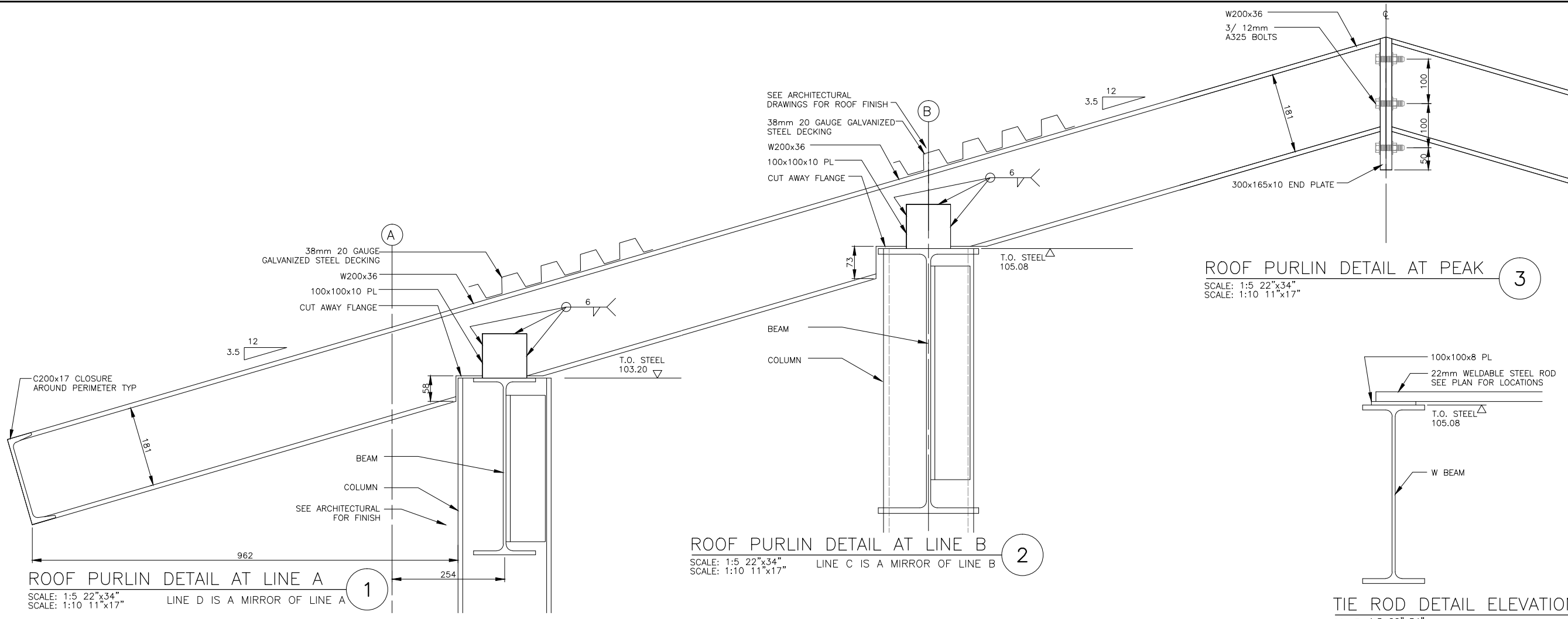
FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY
 HATCHERY COMPLEX PACKAGE

STEEL BEAMS AND COLUMNS DETAILS 4

DESIGNED M.P.	SCALE AS SHOWN
DRAWN O.S.D.	DATE 2015-07-31
CHECKED D.N.S.	DRAWING NUMBER S-216
RECOMMENDED	REVISION
APPROVED	
APPROVED	

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09.18.DWG

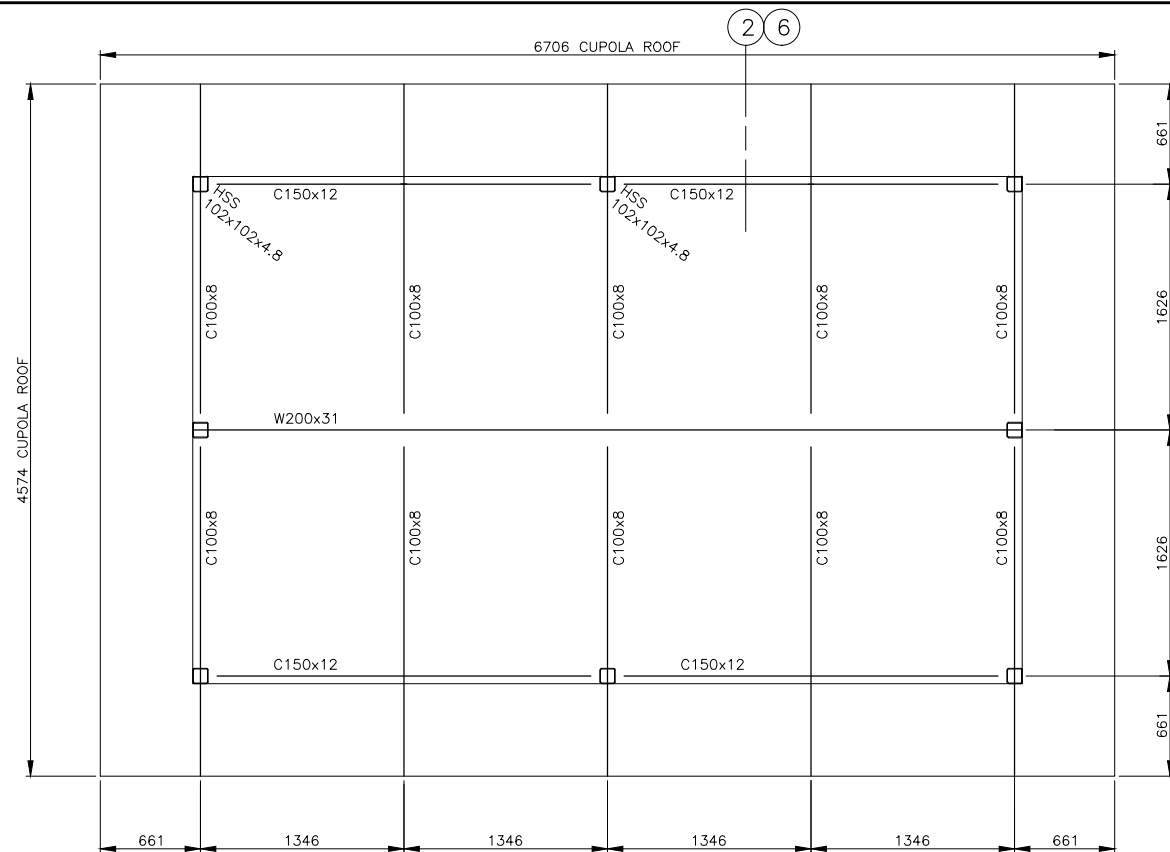


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43	 silk stevens limited DESIGN & CONSULTING ENGINEERS	PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS 262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5 506.455.8476	01	2015-10-20	ISSUED FOR TENDER
			NO.	DATE	REVISIONS

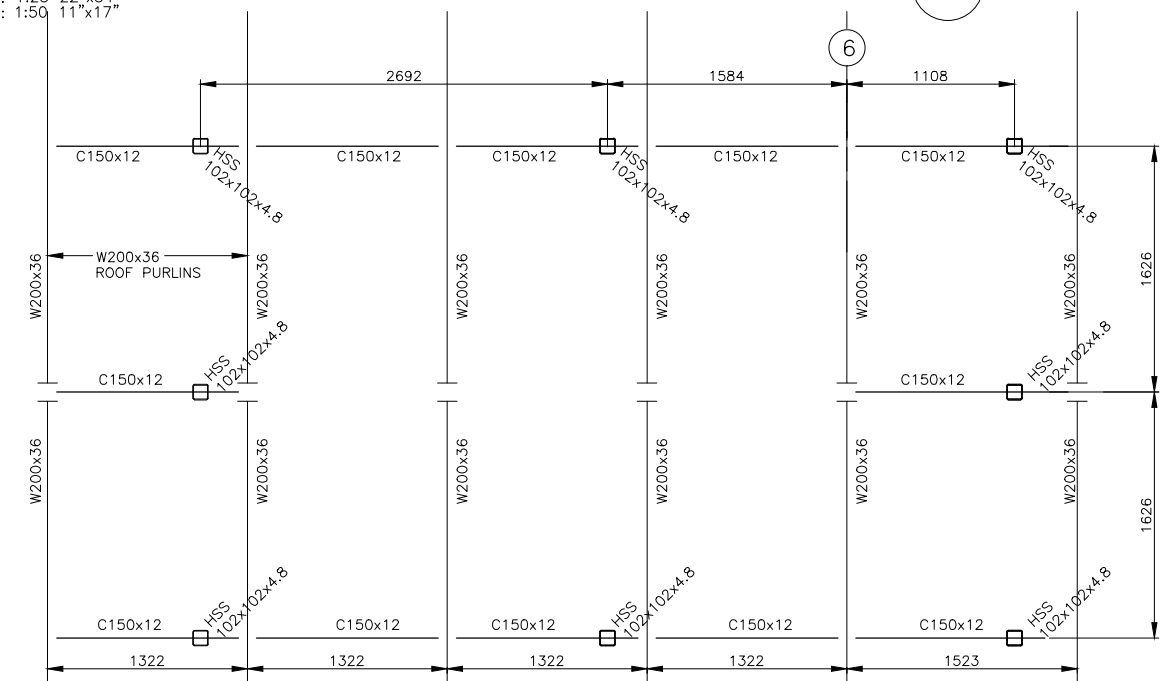
DESIGNED M.P. DRAWN O.S.D. CHECKED D.N.S. RECOMMENDED APPROVED APPROVED	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STEEL BEAMS AND COLUMNS DETAILS 5	SCALE AS SHOWN DATE 2015-07-31 DRAWING NUMBER S-217 REVISION
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PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09.18.DWG



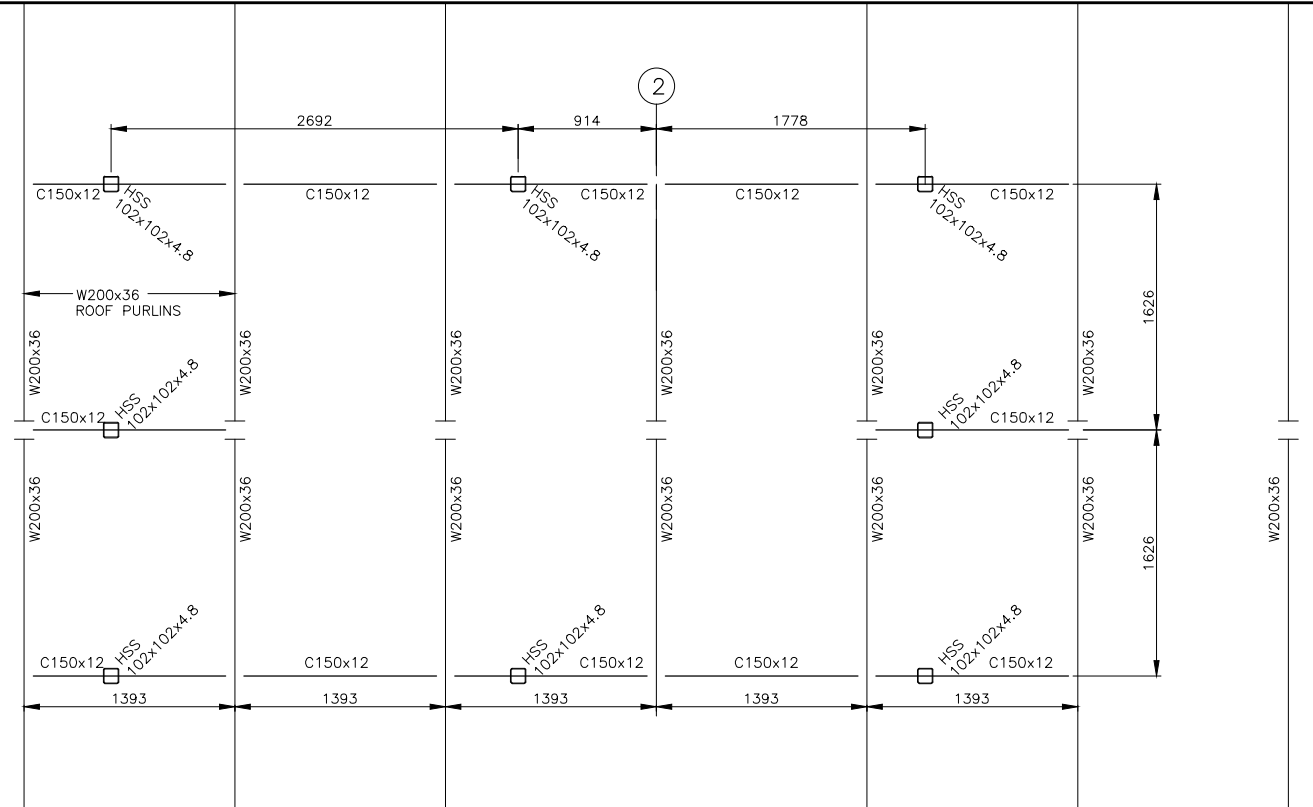
TOP STEEL PLAN DETAIL AT CUPOLA VENT LINE 2 AND 6

SCALE: 1:25 22"x34"
SCALE: 1:50 11"x17"



BOTTOM STEEL PLAN CUPOLA DETAIL AT LINE 6

SCALE: 1:25 22"x34"
SCALE: 1:50 11"x17"



BOTTOM STEEL PLAN CUPOLA DETAIL AT LINE 2

SCALE: 1:25 22"x34"
SCALE: 1:50 11"x17"



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SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE

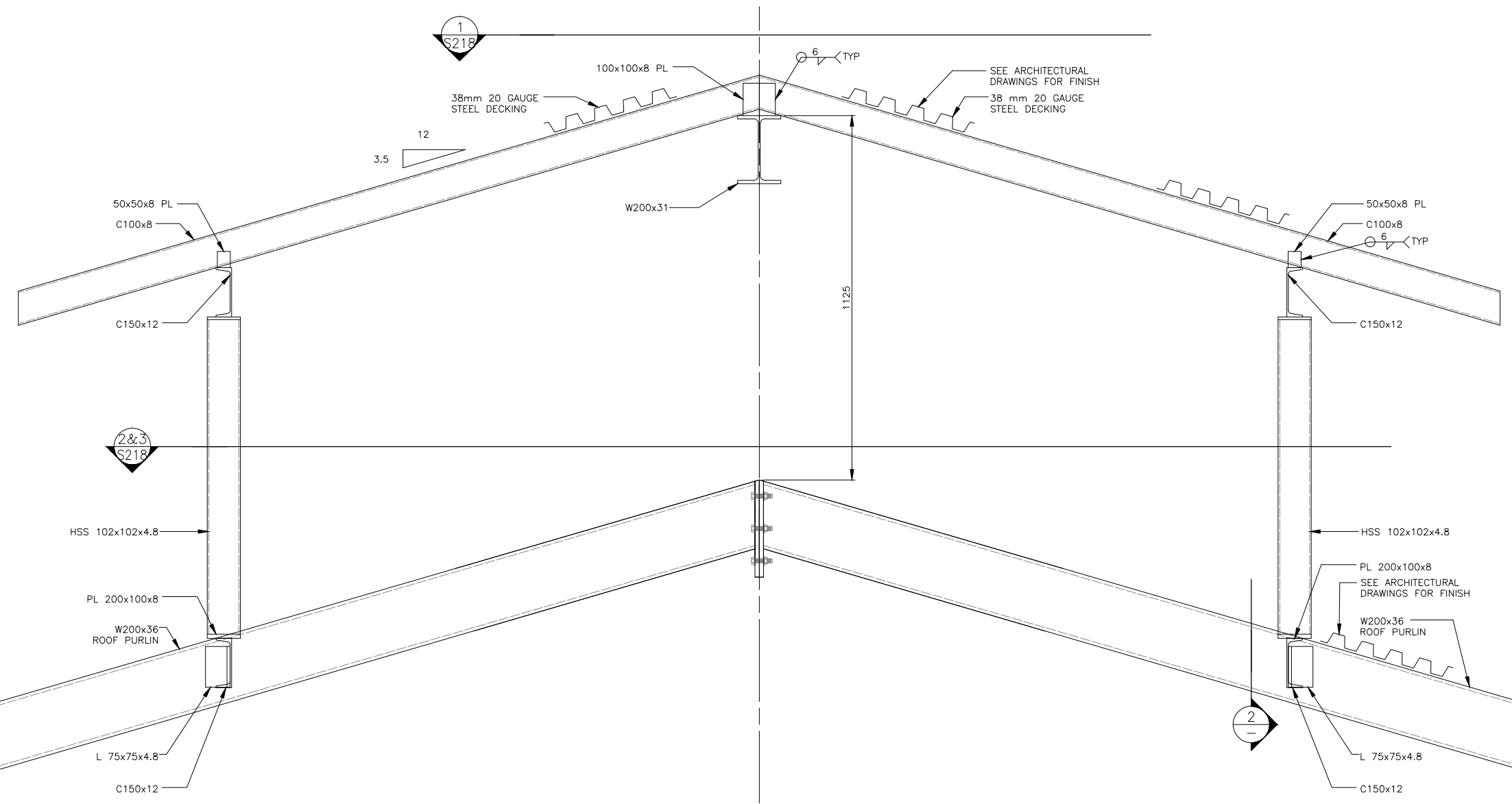
STEEL BEAMS AND
COLUMNS DETAILS 6

SCALE
AS SHOWN
DATE
2015-07-31
DRAWING NUMBER
S-218
REVISION

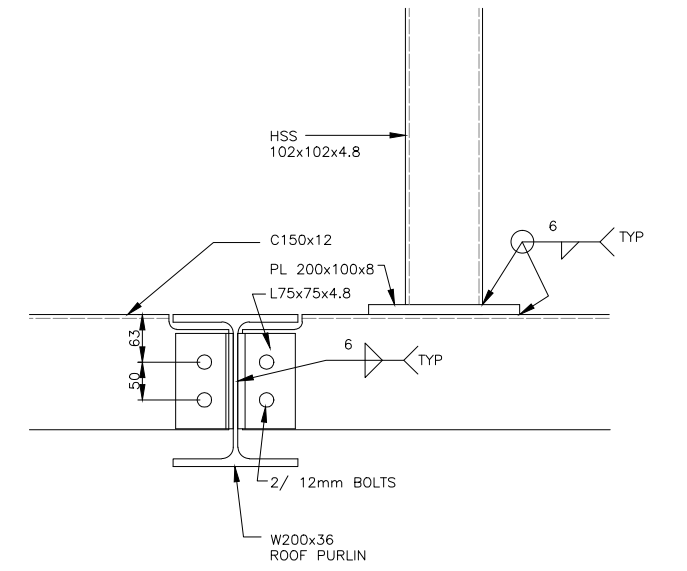
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	DESIGNED M.P.
						DRAWN O.S.D.
						CHECKED D.N.S.
						RECOMMENDED
						APPROVED
						APPROVED

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SECTION THRU CUPOLA 1
 SCALE: 1:8 22"x34"
 SCALE: 1:16 11"x17"



PURLIN TO CUPOLA CONNECTION 2
 SCALE: 1:5 22"x34"
 SCALE: 1:10 11"x17"



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45	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	DESIGNED M.P.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STEEL BEAMS AND COLUMNS DETAILS 7	SCALE AS SHOWN
						DRAWN O.S.D.		DATE 2015-07-31
CHECKED D.N.S.	DRAWING NUMBER S-219							
RECOMMENDED	REVISION							
APPROVED								
APPROVED								

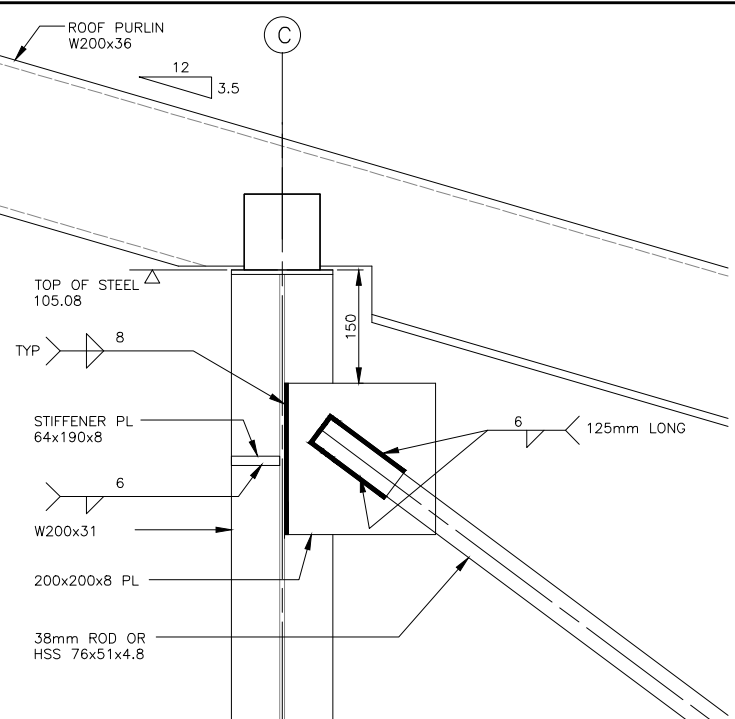
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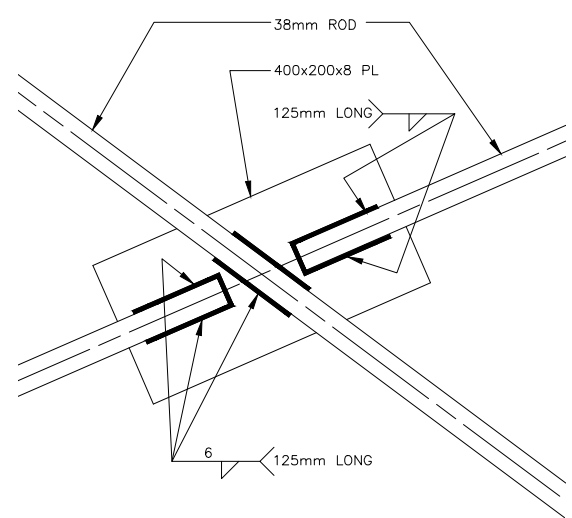
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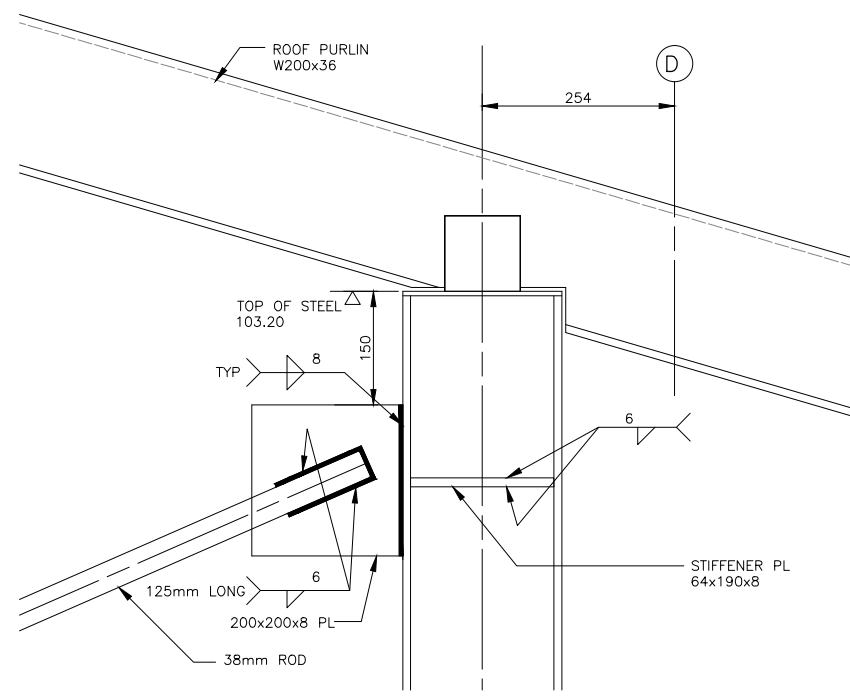
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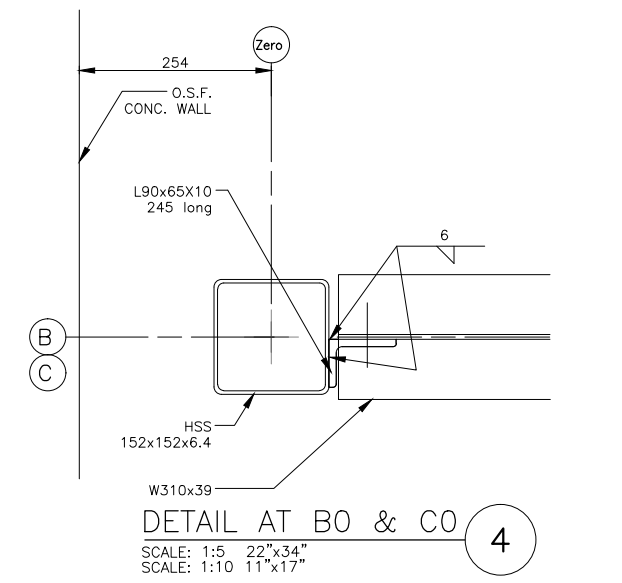
TOP BRACING CONNECTION 1
 SCALE: 1:5 22"x34"
 SCALE: 1:10 11"x17"



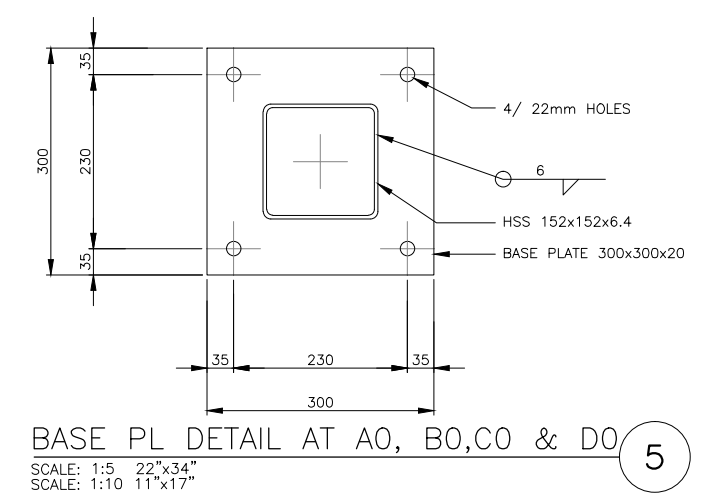
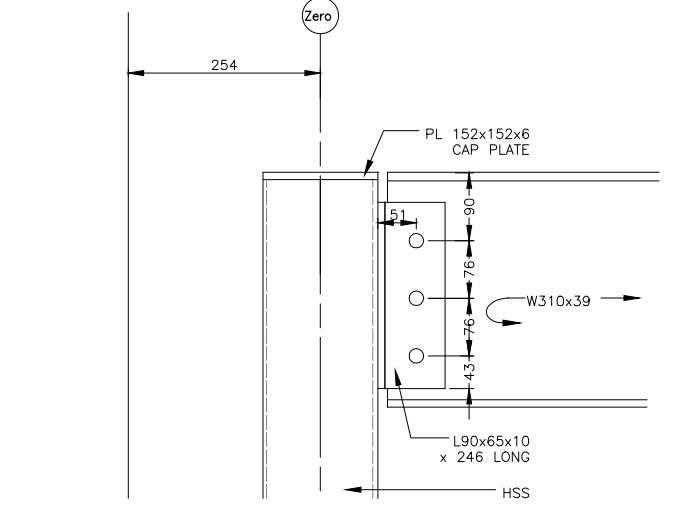
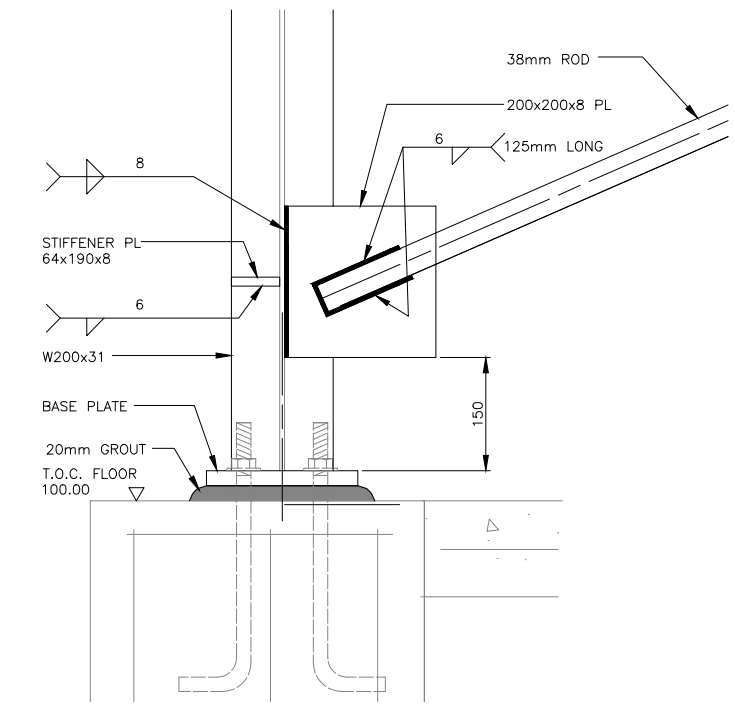
BRACING AT INTERSECTION 3
 SCALE: 1:5 22"x34"
 SCALE: 1:10 11"x17"



TOP BRACING CONNECTION 2
 SCALE: 1:5 22"x34"
 SCALE: 1:10 11"x17"



DETAIL AT B0 & C0 4
 SCALE: 1:5 22"x34"
 SCALE: 1:10 11"x17"



BASE PL DETAIL AT A0, B0, C0 & D0 5
 SCALE: 1:5 22"x34"
 SCALE: 1:10 11"x17"



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FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

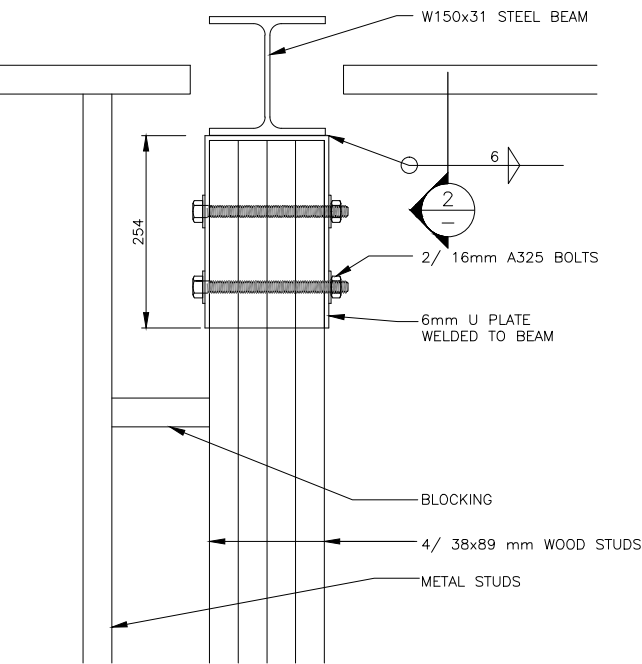
SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE

STEEL BEAMS AND COLUMNS DETAILS 8

SCALE AS SHOWN
 DATE 2015-07-31
 DRAWING NUMBER **S-220**
 REVISION

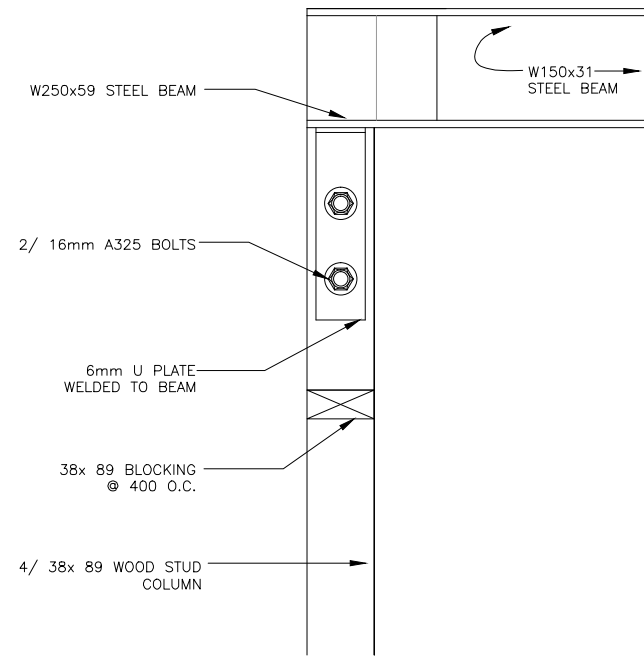
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	DESIGNED M.P.	DRAWN O.S.D.	CHECKED D.N.S.	RECOMMENDED	APPROVED	APPROVED
46			01	2015-10-20	ISSUED FOR TENDER						

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC S-212 TO S-221 STEEL STRUCTURAL 2015.09.18.DWG



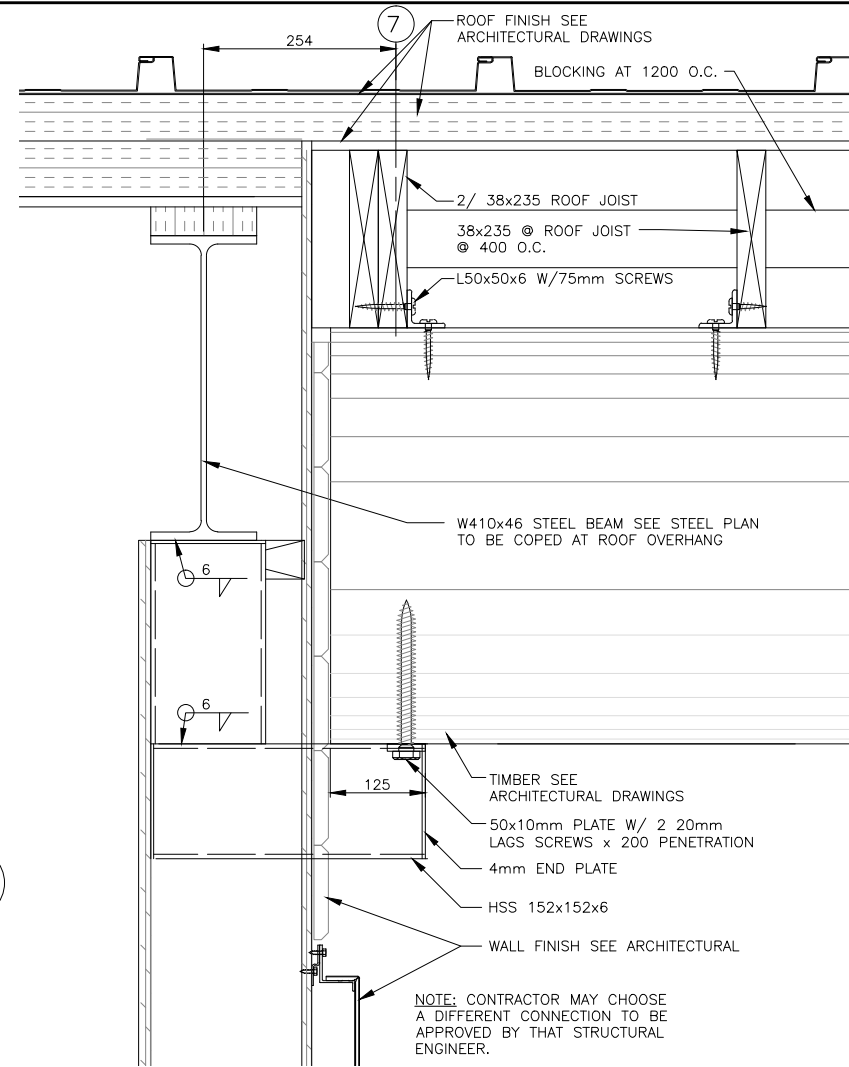
MOVBLE PARTITION BEAM DETAIL 1

SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



MOVBLE PARTITION BEAM DETAIL 2

SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



TIMBER CONNECTION AT LINE 7 3

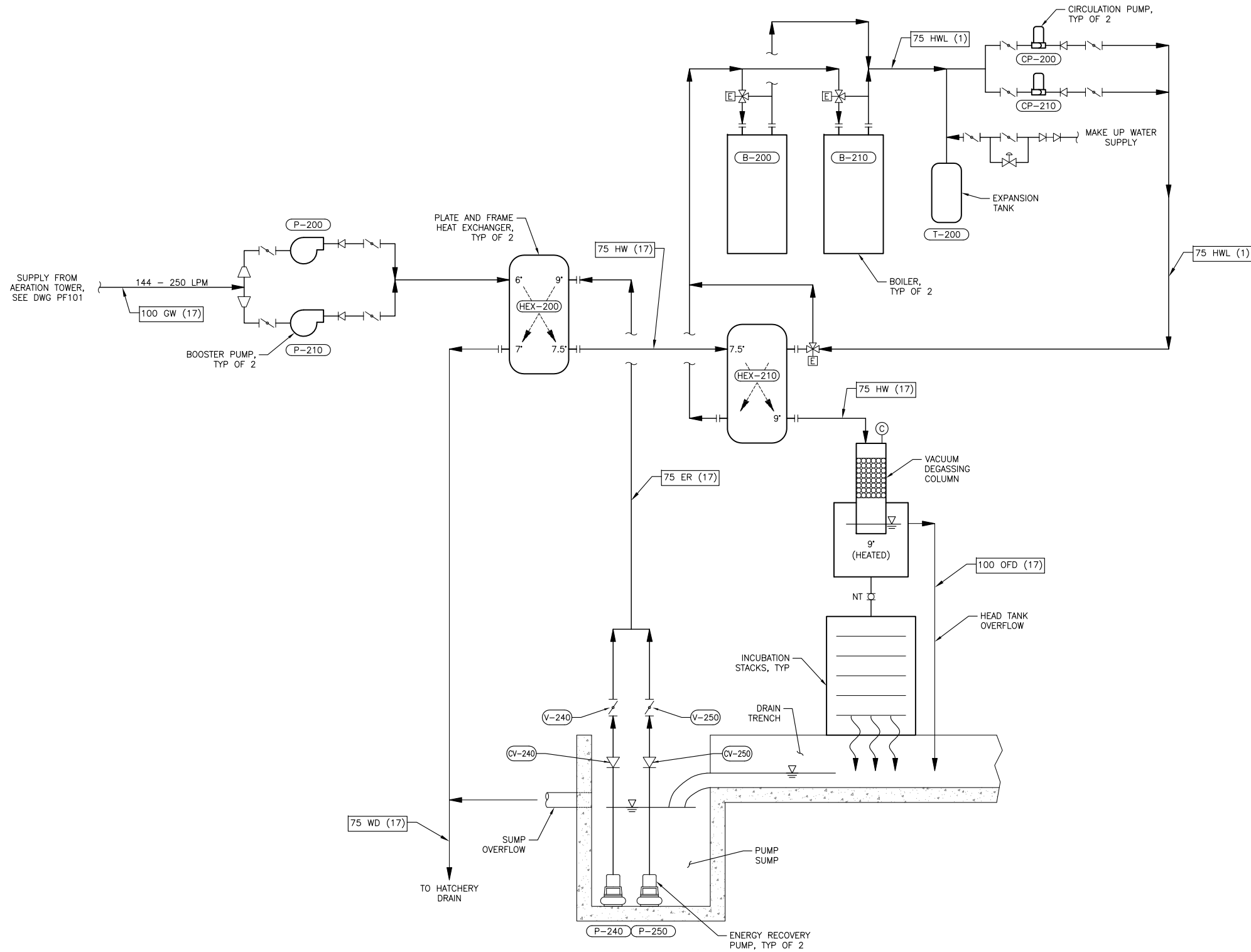
SCALE: 1:5 22"x34"
SCALE: 1:10 11"x17"



FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

47	DRAWING REFERENCES	silk stevens limited DESIGN & CONSULTING ENGINEERS	PHILLIPS ENGINEERING STRUCTURAL AND BUILDING ENGINEERS 262 GEORGE STREET FREDERICTON NEW BRUNSWICK E3B 1J5 506.455.8476	01 2015-10-20 ISSUED FOR TENDER	REVISIONS	DESIGNED M.P.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STEEL BEAMS AND COLUMNS DETAILS 9	SCALE AS SHOWN
						DRAWN O.S.D.		DATE 2015-07-31
CHECKED D.N.S.	DRAWING NUMBER S-221							
RECOMMENDED	REVISION							
APPROVED								

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\CAD\HATCHERY COMPLEX PACKAGE\HC_PF102.DWG



FISHERIES AND OCEANS CANADA
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49	DRAWING REFERENCES
DWG NO.	DRAWING REFERENCES

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McMILLEN JACOBS ASSOCIATES

DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HEATED WATER PROCESS FLOW SCHEMATIC	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER PF-102
RECOMMENDED		REVISION
APPROVED M.C.R.		
APPROVED		
NO.	DATE	REVISIONS

01	2015-10-20	ISSUED FOR TENDER
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VALVE SCHEDULE (75 mm AND LARGER)

EQUIPMENT NUMBER	LOCATION	FLUID / SERVICE	TYPE	DIAMETER (mm)	PRESSURE CLASS	ENDS	ACTUATOR TYPE	BODY/DISC MATERIAL
V-203	INCUBATION ROOM	GW/TO VERTICAL STACK TROUGHS	BUTTERFLY	100	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-204	INCUBATION ROOM	GW/TO KITOI TROUGH	BUTTERFLY	150	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-205	INCUBATION ROOM	GW/TO KITOI TROUGH	BUTTERFLY	150	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-206	INCUBATION ROOM	GW/TO ATKINS & VERTICAL TROUGH	BUTTERFLY	150	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-207	INCUBATION ROOM	GW/TO HEATED WATER SYSTEM	BUTTERFLY	100	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-208	INCUBATION ROOM	HW/TO DEGASSER	BUTTERFLY	75	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-209	INCUBATION ROOM	SW/GW INTERCONNECT	BUTTERFLY	200	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-240	INCUBATION ROOM	ERW/PUMP DISCHARGE	BUTTERFLY	75	150	FLANGED	GEAR W/HANDWHEEL	PVC
V-250	INCUBATION ROOM	ERW/PUMP DISCHARGE	BUTTERFLY	75	150	FLANGED	GEAR W/HANDWHEEL	PVC
CV-240	INCUBATION ROOM	ERW/PUMP DISCHARGE	SILENT CHECK	75	125	FLANGED	N/A	CAST IRON
CV-250	INCUBATION ROOM	ERW/PUMP DISCHARGE	SILENT CHECK	75	125	FLANGED	N/A	CAST IRON

ELECTRIC BOILER SCHEDULE

ITEM NO.	CAPACITY (KW)	NUMBER OF ELEMENTS	MAX FLOW (LPM)	INLET SIZE (MM)	OUTLET SIZE (MM)	VOLUME (L)	VOLTS/ PHASE	REMARKS
B-200	60	4	250	3	3	107	600/3	ASME REGISTERED PRESSURE VESSEL. INCLUDE ASME PRESSURE RELIEF VALVE AND PRESSURE GAUGE WITH COCK.
B-210	60	4	250	3	3	107	600/3	ASME REGISTERED PRESSURE VESSEL. INCLUDE ASME PRESSURE RELIEF VALVE AND PRESSURE GAUGE WITH COCK.

HEAT EXCHANGER SCHEDULE

ITEM NO.	CAPACITY (KW)	FLOW RATE (LPM)	HOT INLET TEMP (°C)	HOT OUTLET TEMP (°C)	COLD INLET TEMP (°C)	COLD OUTLET TEMP (°C)	HOT CONN SIZE (MM)	COLD CONN SIZE (MM)	REMARKS
HEX-200	26.3	250	9.0	7.5	6.0	7.5	50	50	PLATE AND FRAME STYLE HEAT EXCHANGER
HEX-210	26.3	250	60	58.45	7.5	9	50	50	PLATE AND FRAME STYLE HEAT EXCHANGER

PUMP SCHEDULE

ITEM NO.	HEAD (M)	FLOW RATE (LPM)	MIN PUMP EFF (%)	INLET SIZE (MM)	OUTLET SIZE (MM)	PUMP TYPE	PUMPING MEDIUM	POWER (KW)	VOLTS/ PHASE	REMARKS
P-200	14	250	55	50	50	INLINE	GROUND WATER	0.8	208/3	
P-210	14	250	55	50	50	INLINE	GROUND WATER	0.8	208/3	
P-240	12	250	55	N/A	50	SUMP PUMP	EFFLUENT WATER	0.7	208/3	
P-250	12	250	55	N/A	50	SUMP PUMP	EFFLUENT WATER	0.7	208/3	
CP-200	10	250	55	50	50	INLINE	HOT WATER LOOP	0.5	208/3	
CP-210	10	250	55	50	50	INLINE	HOT WATER LOOP	0.5	208/3	

TANK SCHEDULE

ITEM NO.	CAPACITY (L)	PRESSURE RATING (KPA)	MEDIUM	INLET SIZE (MM)	INLET LOCATION	OUTLET SIZE (MM)	OUTLET LOCATION	REMARKS
T-200	150	700	60°C WATER	50	TOP	50	SIDE	EPOXY LINED AND COATED STEEL FLOW THROUGH TANK. FLOOR MOUNTED. PROVIDE WITH PRESSURE RELIEF VALVE.



FISHERIES AND OCEANS CANADA
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SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE
MECHANICAL SCHEDULES

SCALE AS SHOWN
DATE 2015-10-20
DRAWING NUMBER **GM-001**
REVISION

DESIGNED M.C.R./O.S.D.
DRAWN D.L.
CHECKED D.S.N.
RECOMMENDED
APPROVED M.C.R.
APPROVED

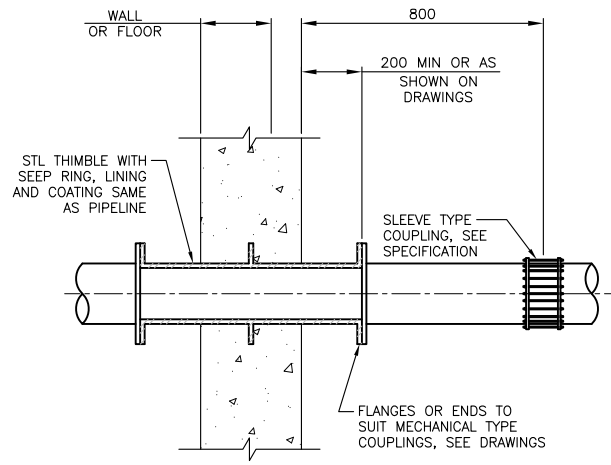
01 2015-10-20 ISSUED FOR TENDER



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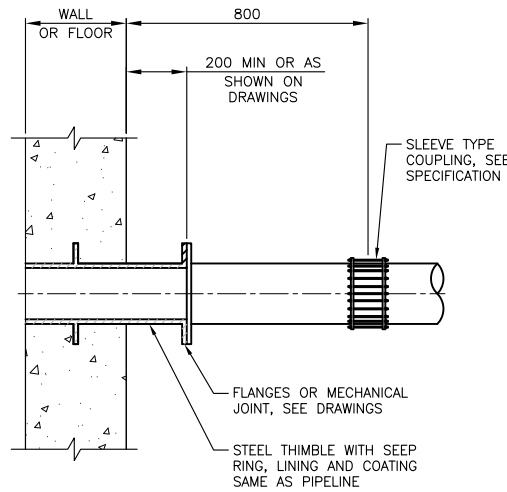
PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS\CANADA\SNOOTLI CREEK HATCHERY\CAD\HATCHERY COMPLEX PACKAGE\HC_GM001.DWG



FLANGED THIMBLE

SCALE: NTS

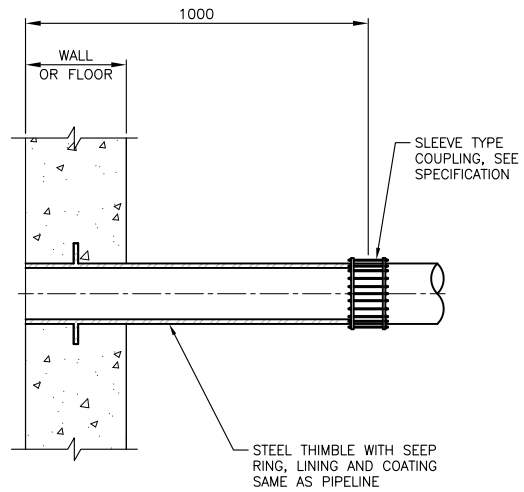
M101



THIMBLE

SCALE: NTS

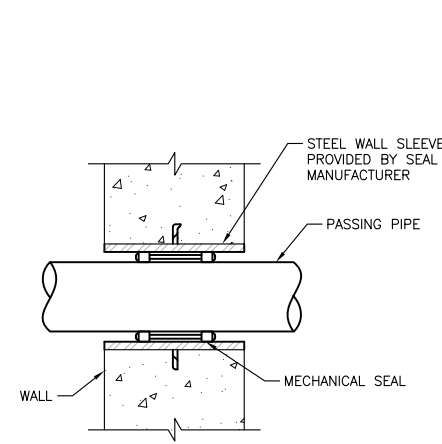
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THIMBLE

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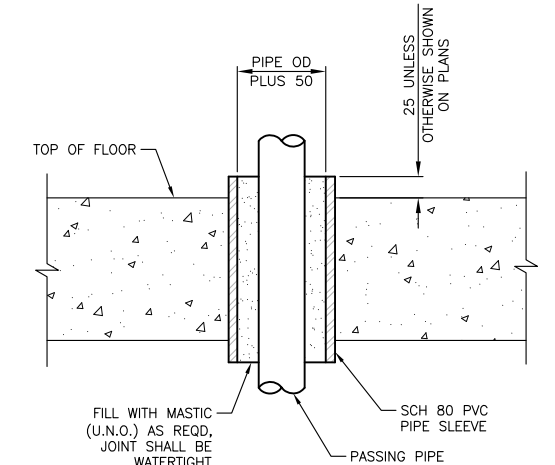
M103



WALL SLEEVE

SCALE: NTS

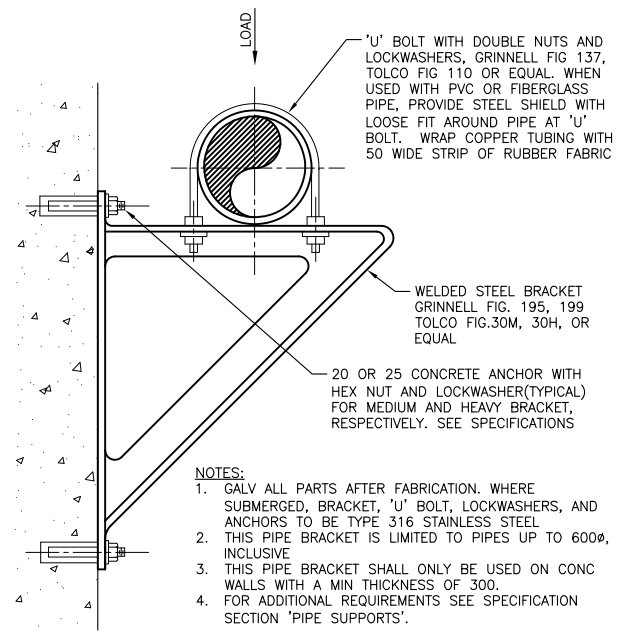
M104



FLOOR SLEEVE

SCALE: NTS

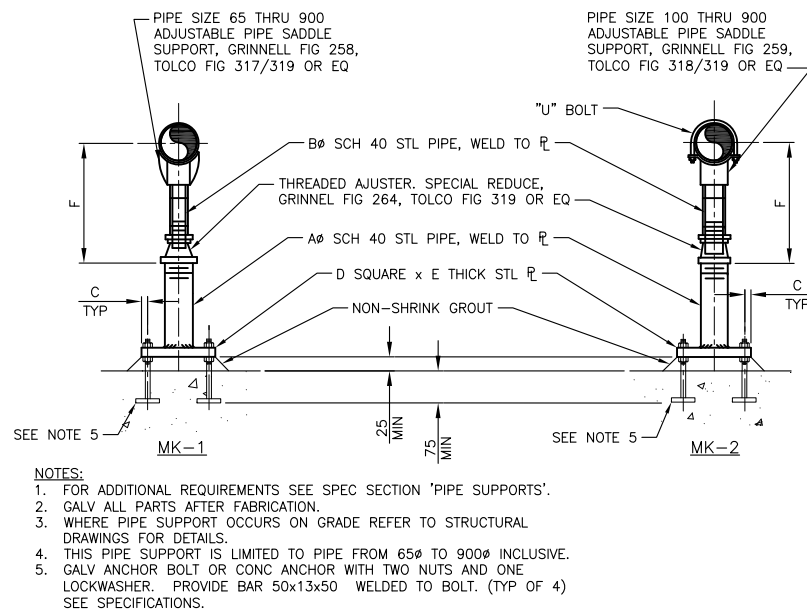
M105



**PIPE BRACKET
(FOR PIPE 600 DIAMETER AND SMALLER)**

SCALE: NTS

M107



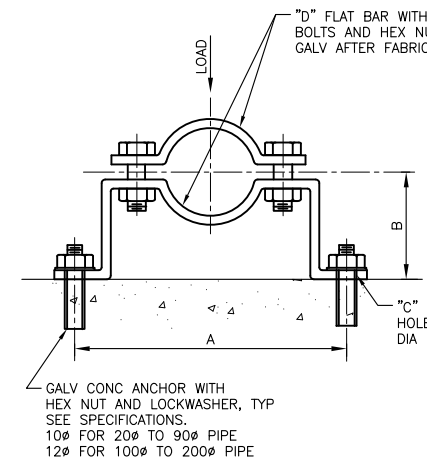
ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT "U" BOLT

SCALE: NTS

M108

NOMINAL PIPE SIZE	DIMENSIONS IN MM						F (APPROX)	
	A	B	C	D	E	(MIN)	(MAX)	
	65	50	40	50	150	10	178	290
80	50	40	50	150	10	185	300	
90	50	40	50	150	10	192	305	
100	75	*63.5/75	30	190	13	260	375	
150	75	*63.5/75	30	190	13	295	410	
200	75	*63.5/75	30	190	13	345	460	
250	75	*63.5/75	30	190	13	370	485	
300	75	*63.5/75	30	190	13	400	511	
350	100	75	35	230	15	480	590	
400	100	75	35	230	15	505	620	
450	150	100	40	280	20	565	680	
500	150	100	40	280	20	590	705	
600	150	100	40	280	20	675	790	
750	150	100	40	280	20	750	870	
800	150	100	40	280	20	780	890	
900	150	100	40	280	20	830	945	

* SEE MANUFACTURER



PIPE CLAMP FOR INDIVIDUAL PIPES

SCALE: NTS

M131

PIPE DIAMETER	DIMENSIONS IN MM				LOAD RATING Kg
	A	B SEE NOTE 3	C HOLE DIA	D FLAT BAR SIZE	
20	150	65	12	5x32	86
25	160	67	12	5x32	86
32	170	70	12	5x32	86
40	175	75	12	5x32	86
50	210	80	12	6x32	190
65	225	90	12	6x32	190
80	230	95	12	6x32	190
90	255	100	12	6x32	190
100	270	110	15	6x40	275
125	300	120	15	6x40	275
150	365	135	15	10x40	395
200	425	160	15	10x40	395

- NOTES:
- WHERE SUBMERGED, PIPE CLAMP, ANCHORS, SHIELD, NUTS AND LOCKWASHER TO BE TYPE 316 SS.
 - WHEN USED WITH PVC OR FIBERGLASS PIPE, PROVIDE STL SHIELD WITH LOOSE FIT AROUND PIPE AT CLAMP. WRAP COPPER TUBING WITH 50MM WIDE STRIP OF RUBBER AT CLAMP.
 - FOR FLANGED PIPING, INCREASE 'B' DIMENSION AS REQD.

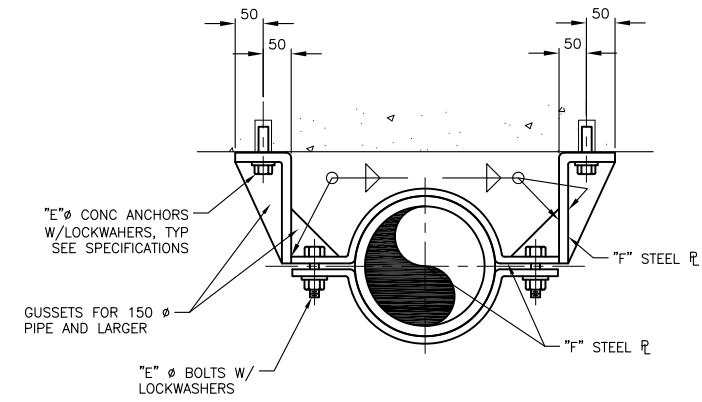
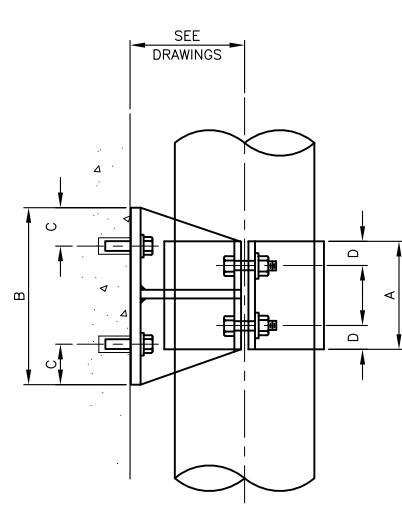


FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

DESIGNED M.C.R./O.S.D	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STANDARD MECHANICAL DETAILS 1	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER GM-002
RECOMMENDED		REVISION
APPROVED M.C.R.		



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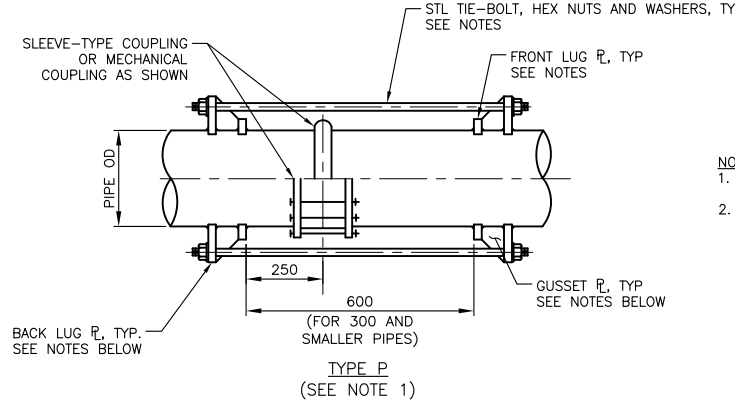
- NOTES:
1. GALV ALL PARTS AFTER FABRICATION.
 2. ALL BOLTS, ANCHORS, NUTS AND LOCKWASHERS EXPOSED TO WATER SHALL BE TYPE 316 SS.
 3. FOR 400-600 PIPES, PROVIDE THREE CONC ANCHORS (SEE SPECS) AT 150 SPACING AND TWO GUSSETS AT 100 SPACING EACH SIDE OF HANGER.
 4. FOR ADDITIONAL REQUIREMENTS SEE SPECIFICATIONS SECTION 'PIPE SUPPORTS'.

DIMENSIONS IN MM						
NOMINAL PIPE SIZE	A	B	C	D	E	F
80 TO 200	150	250	40	25	16	7
250 TO 350	200	600	50	40	20	10
400 TO 600	600	400	50	40	20	10

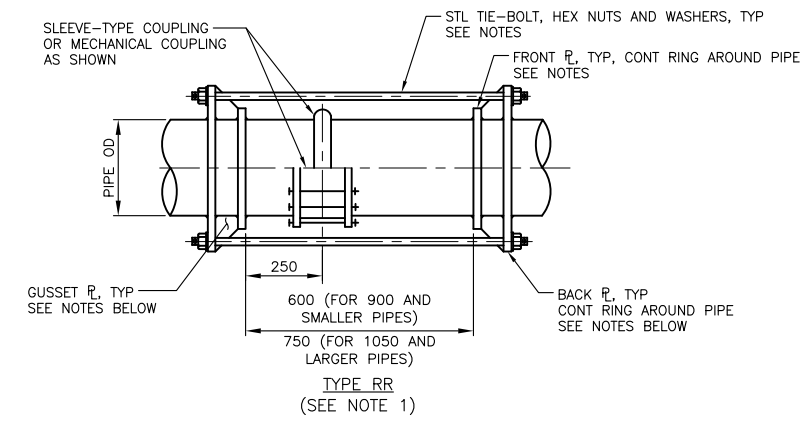
PIPE ANCHOR FOR INDIVIDUAL PIPE

SCALE: NTS

M154



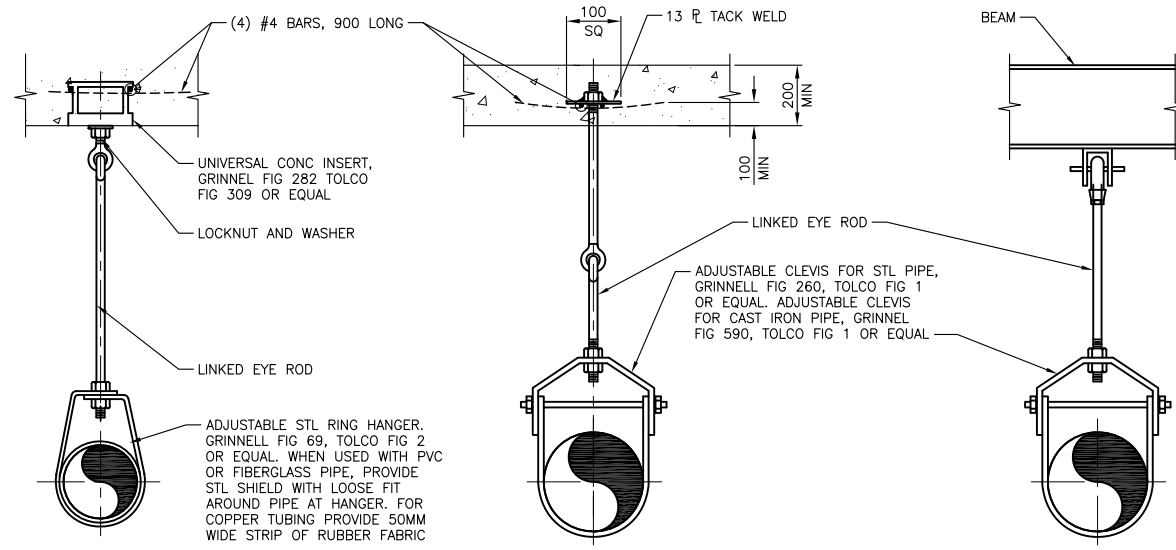
- NOTES:
1. SEE AWWA MANUAL M-11 FOR HARNESS SET SIZE, TYPE AND DESIGN REQUIREMENTS.
 2. WHERE BURIED TIE-BOLTS, HEX NUTS AND WASHERS SHALL BE TYPE 316 SS.



HARNESSED JOINT

SCALE: NTS

M156



TYPE A
FOR HANGER RODS
20 AND SMALLER

TYPE B
FOR HANGER RODS 22 AND
LARGER AND MIN 200 THICK CONC

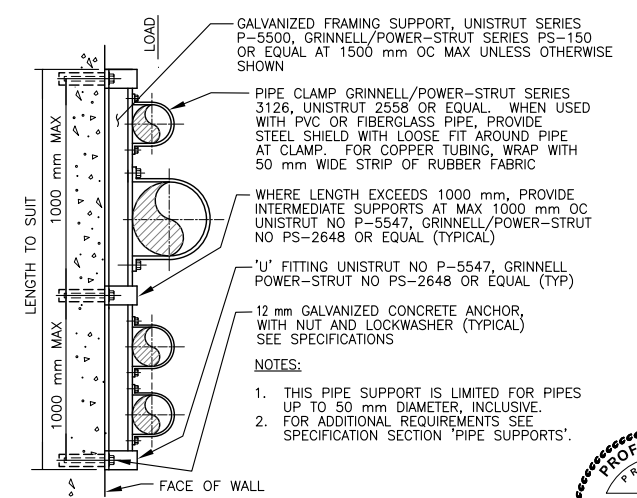
PIPE HANGER DETAIL

SCALE: NTS

M251

PIPE HANGER RODS AND SUPPORT SPACING						
PIPE DIA (MM)	ROD DIA (MM)	MAX SUPPORT SPACING (MM)			WEIGHT UNIT (KG)	
		STL PIPE	CI PIPE	PVC PIPE	TYPE "A"	TYPE "B"
25 AND SMALLER	10	1830	1500	750	275	770
32 TO 50	10	2750	1500	1400	275	770
65 TO 90	13	3660	1500	1500	515	1450
100 TO 125	16	4300	1500	1830	650	1750
150, 200	20	4900	1500	2000	650	1750
250, 300	22	5500	--	2450	650	1750
350, 400, 450	25	6100	--	2600	650	1750
500, 600	32	6100	--	2600	--	1815

- NOTES:
1. GALVANIZE ALL PARTS AFTER FABRICATION.
 2. FOR PIPES 50MM DIAMETER AND SMALLER, EYE BOLTS IN CONCRETE ANCHORS MAY BE USED SEE SPECIFICATIONS.
 3. TYPE A - FOR CONCRETE INSERT, ALLOW 650 KG LOAD MAXIMUM.
 4. TYPE B - FOR 100 SQ BEARING PLATE, ALLOW 1725 KG LOAD MAXIMUM.
 5. CONCRETE STRENGTH TO BE 20684 kPa MINIMUM.
 6. DESIGN IS FOR STATIC LOAD ONLY.
 7. FOR ADDITIONAL REQUIREMENTS SEE SPECIFICATION SECTION 'PIPE SUPPORTS'.



**FLUSH MOUNTED PIPE SUPPORT
(FOR PIPE 100 mm DIAMETER AND SMALLER)**

SCALE: NTS

PROFESSIONAL
OF
D.S. NELSON
175036
BRITISH
COLUMBIA
ENGINEER

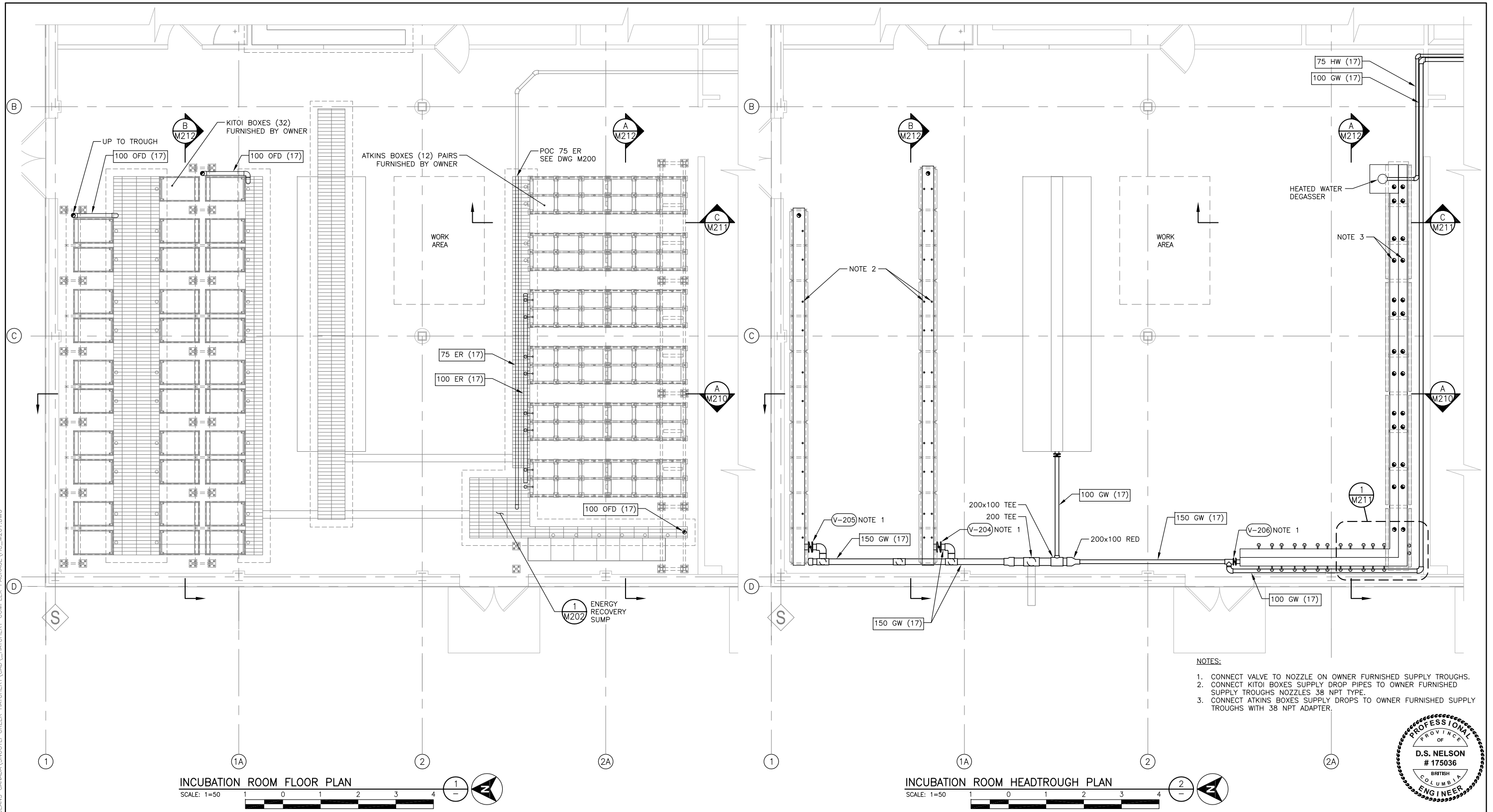
FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

52

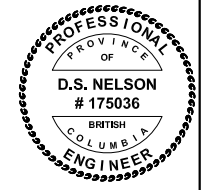
DWG NO.	DRAWING REFERENCES	NOTES	NO.	DATE	ISSUED FOR TENDER	REVISIONS	DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE STANDARD MECHANICAL DETAILS 2	SCALE AS SHOWN
							DRAWN D.L.		DATE 2015-10-20
							CHECKED D.S.N.		DRAWING NUMBER GM-003
							RECOMMENDED		REVISION
							APPROVED M.C.R.		

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PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_M201.DWG



- NOTES:**
1. CONNECT VALVE TO NOZZLE ON OWNER FURNISHED SUPPLY TROUGHS.
 2. CONNECT KITOI BOXES SUPPLY DROP PIPES TO OWNER FURNISHED SUPPLY TROUGHS NOZZLES 3/8 NPT TYPE.
 3. CONNECT ATKINS BOXES SUPPLY DROPS TO OWNER FURNISHED SUPPLY TROUGHS WITH 3/8 NPT ADAPTER.

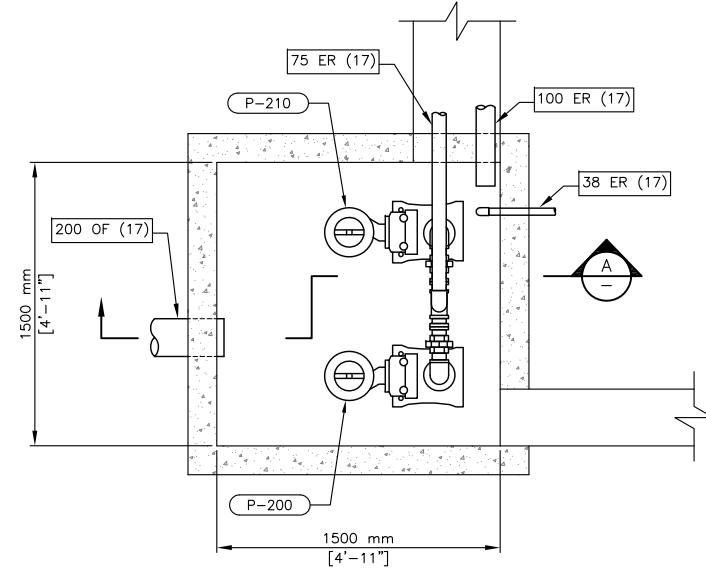


INCUBATION ROOM FLOOR PLAN
SCALE: 1=50

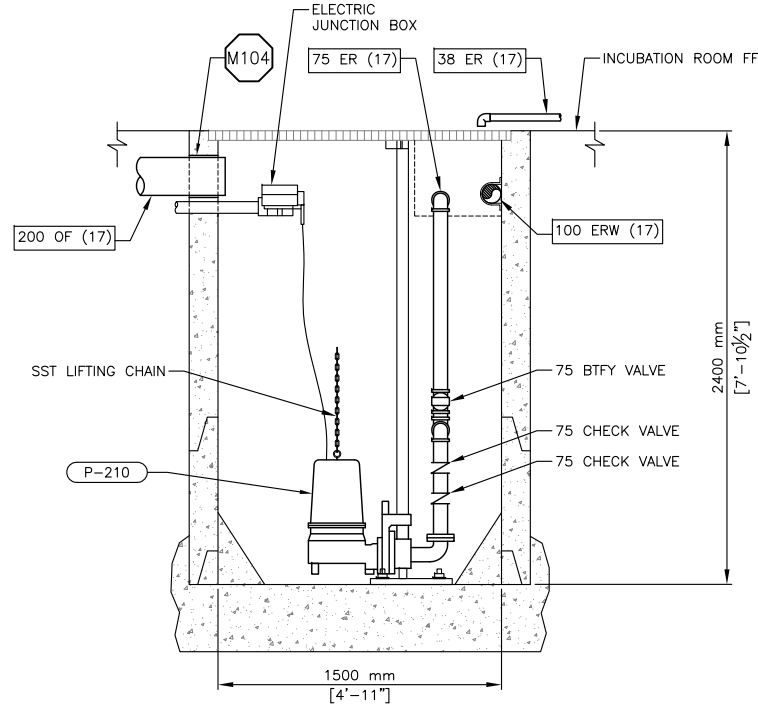
INCUBATION ROOM HEADTROUGH PLAN
SCALE: 1=50

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			DESIGNED M.C.R./O.S.D.	DRAWN D.L.	CHECKED D.S.N.		RECOMMENDED
DWG NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	INCUBATION ROOM PIPING PLAN	REVISION

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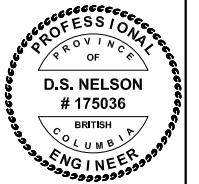
ENERGY RECOVER SUMP PLAN @ 300 mm BELOW FF
SCALE: 1=20



ENERGY RECOVER SUMP SECTION
SCALE: 1=20

SHEET NOTES:

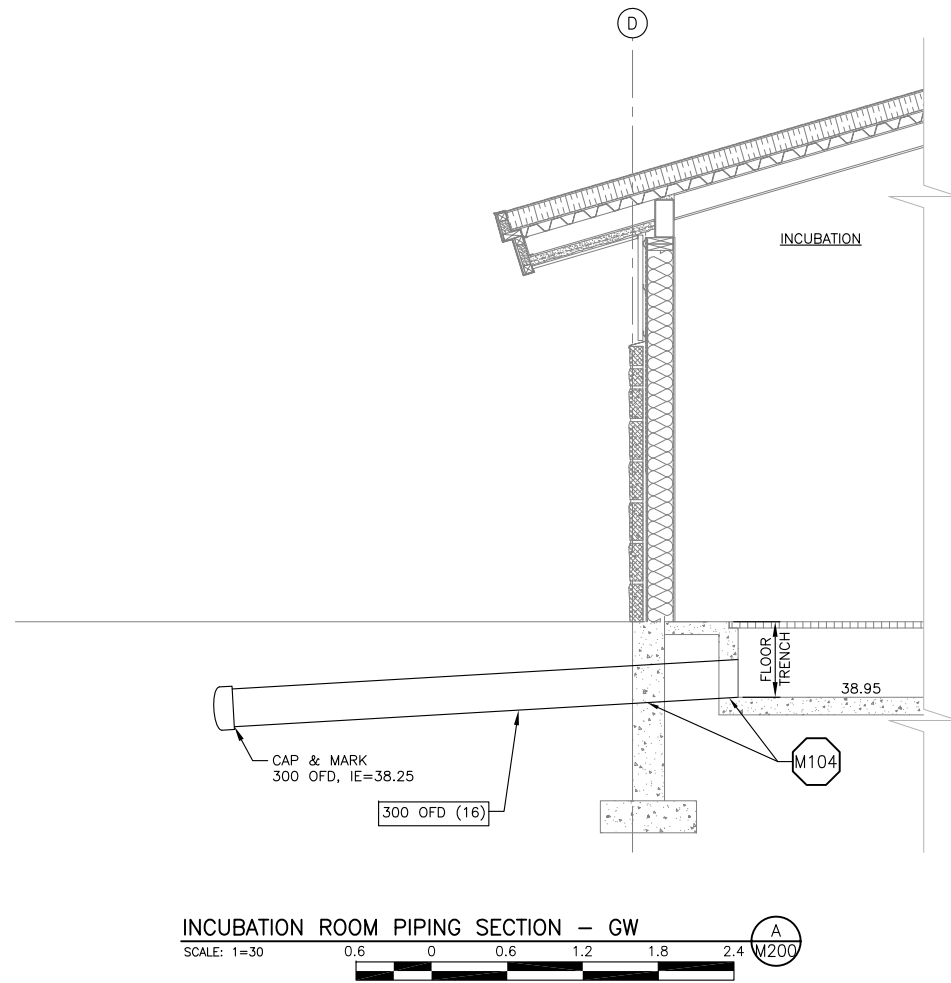
1. PUMP AND BASE WITH GUIDE RAILS TO BE MOUNTED AND INSTALLED BEFORE FLOOR GROUTING FROM OUTSIDE EDGES INWARD.
2. MANWAY SIZE MUST ACCOMMODATE PUMPS, PIPING AND RAIL SYSTEM FOR REMOVAL OF BOTH PUMPS.



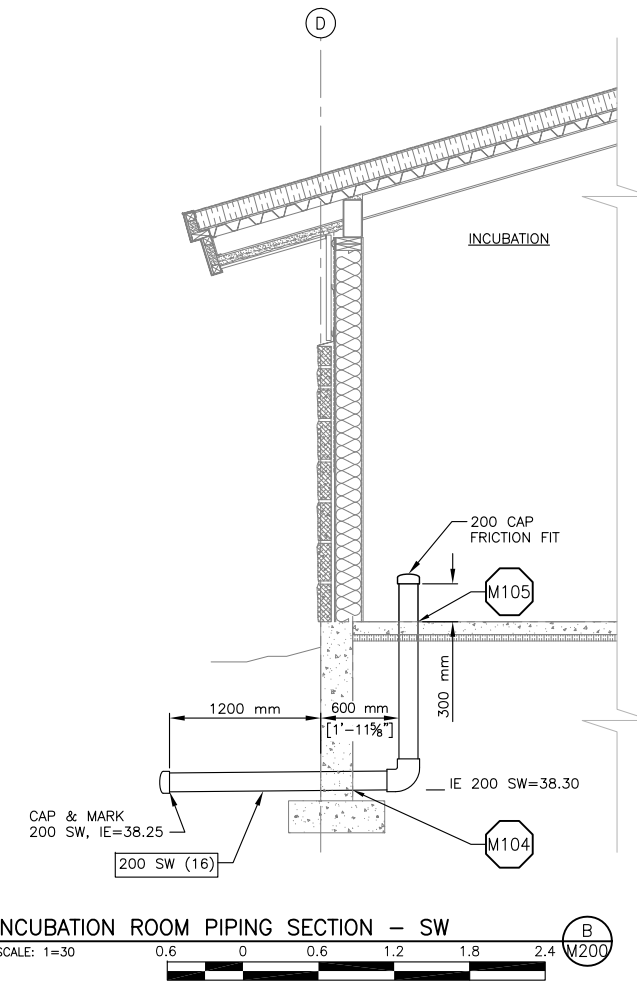
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REAL PROPERTY AND TECHNICAL SUPPORT

55	 silk stevens limited DESIGN & CONSULTING ENGINEERS	 McMILLEN JACOBS ASSOCIATES	DESIGNED M.C.R./O.S.D.	01 2015-10-20 ISSUED FOR TENDER	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE ENERGY RECOVERY PUMPS PLANS AND SECTIONS	SCALE AS SHOWN
			DRAWN D.L.			DATE 2015-10-20
DWG NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	REVISION

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INCUBATION ROOM PIPING SECTION - GW
SCALE: 1=30



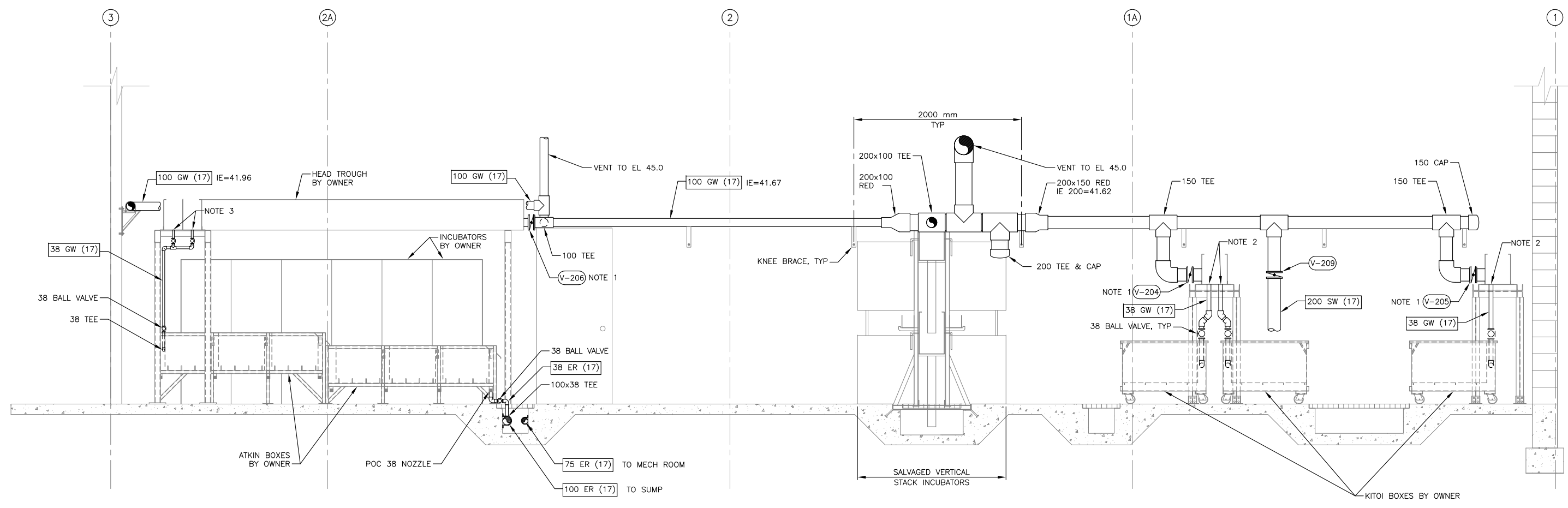
INCUBATION ROOM PIPING SECTION - SW
SCALE: 1=30



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			NO.	DATE	REVISIONS			DRAWING NUMBER	

- NOTES:
1. CONNECT VALVE TO NOZZLE ON OWNER FURNISHED SUPPLY TROUGHS.
 2. CONNECT KITOI BOXES SUPPLY DROP PIPES TO OWNER FURNISHED SUPPLY TROUGHS NOZZLES 38 NPT TYPE.
 3. CONNECT ATKINS BOXES SUPPLY DROPS TO OWNER FURNISHED SUPPLY TROUGHS WITH 38 NPT ADAPTER.



INCUBATION ROOM SECTION
SCALE: 1=25

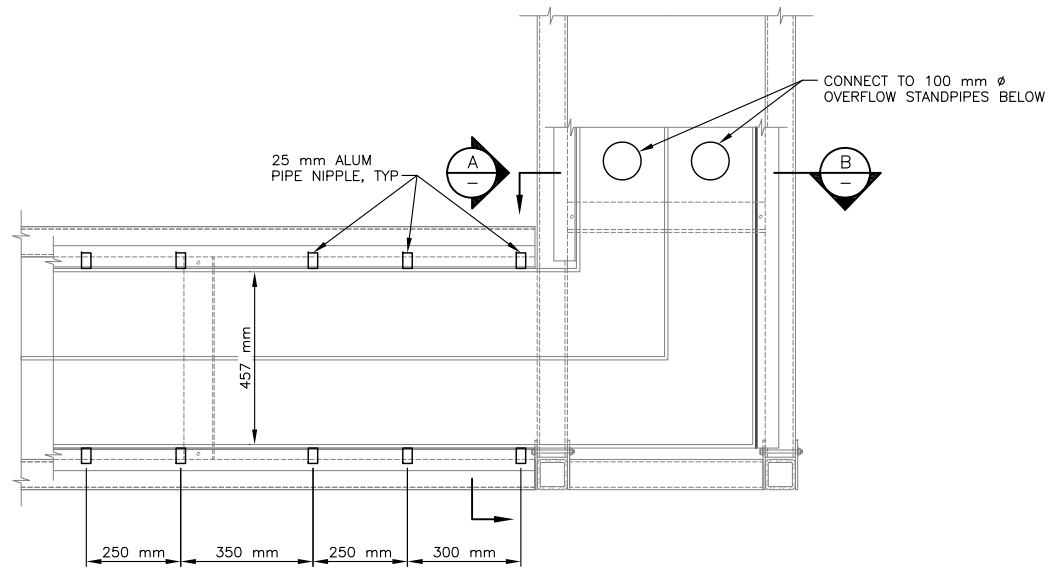


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							DRAWN D.L.		DATE 2015-10-20
			CHECKED D.S.N.	DRAWING NUMBER M-210					
			RECOMMENDED	REVISION					
			APPROVED M.C.R.						

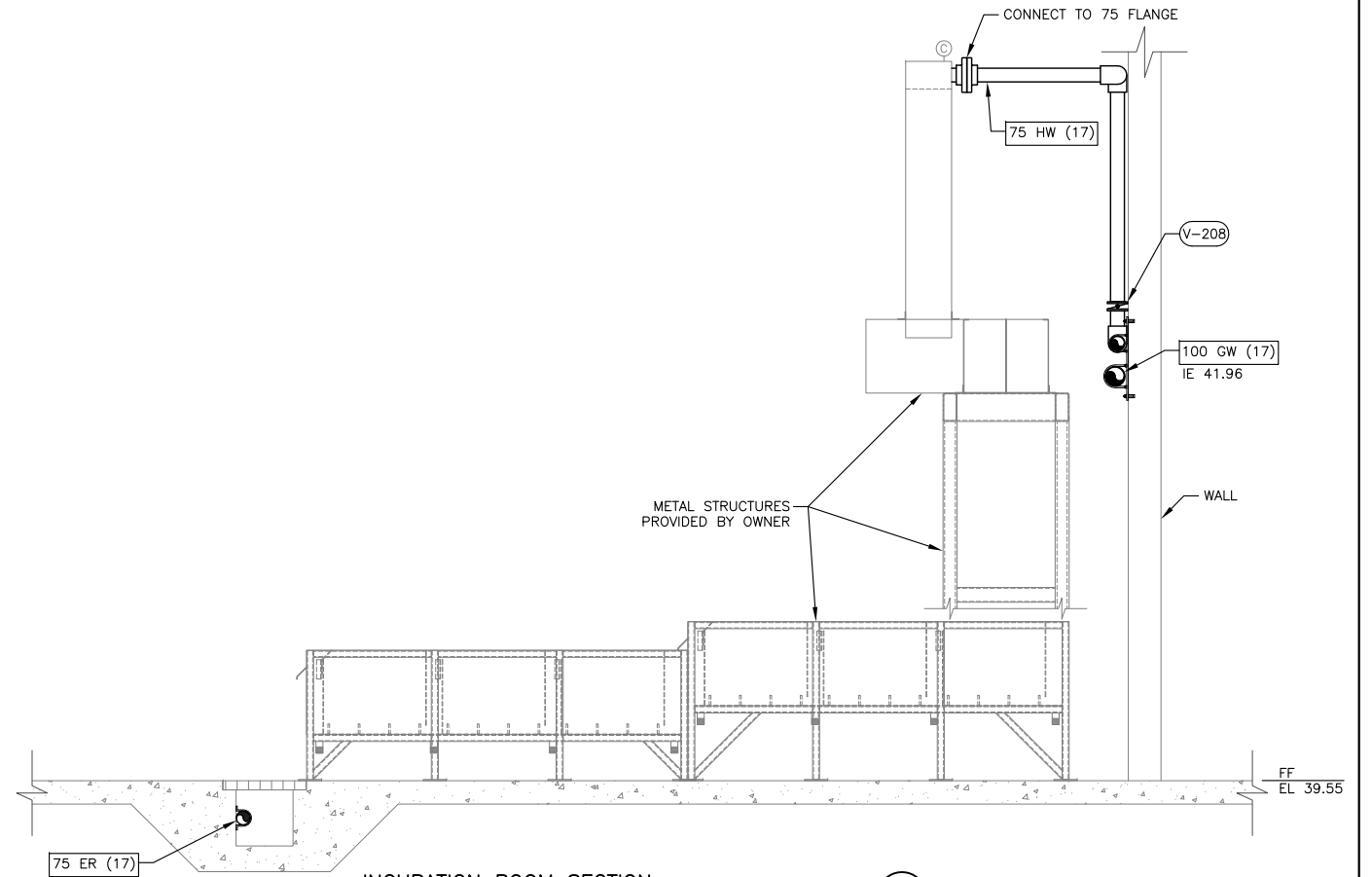
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PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_M211.DWG



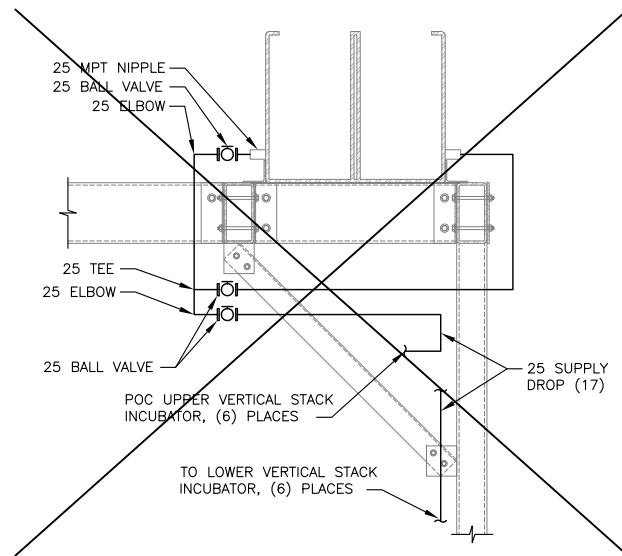
DETAIL
SCALE: 1=10

1 M201



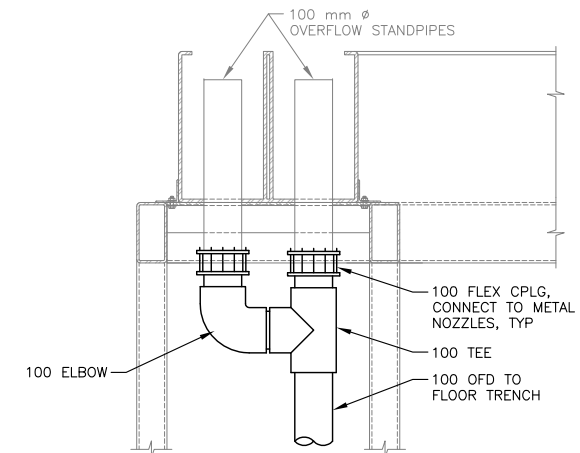
INCUBATION ROOM SECTION
SCALE: 1=20

C M201



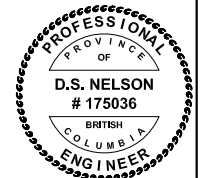
SECTION - NOT IN CONTRACT
SCALE: 1=10

A



SECTION
SCALE: 1=10

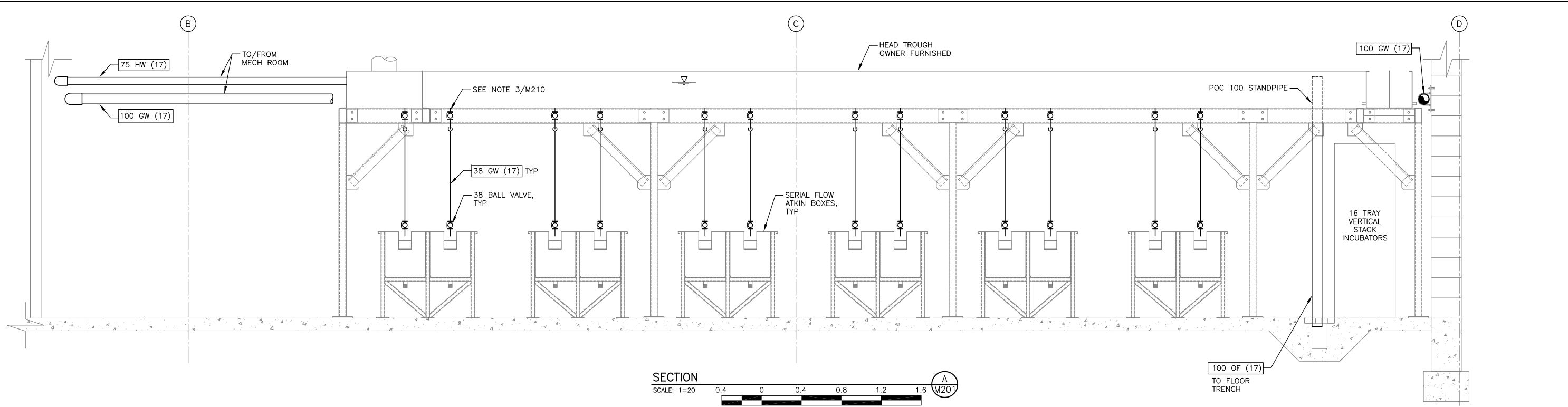
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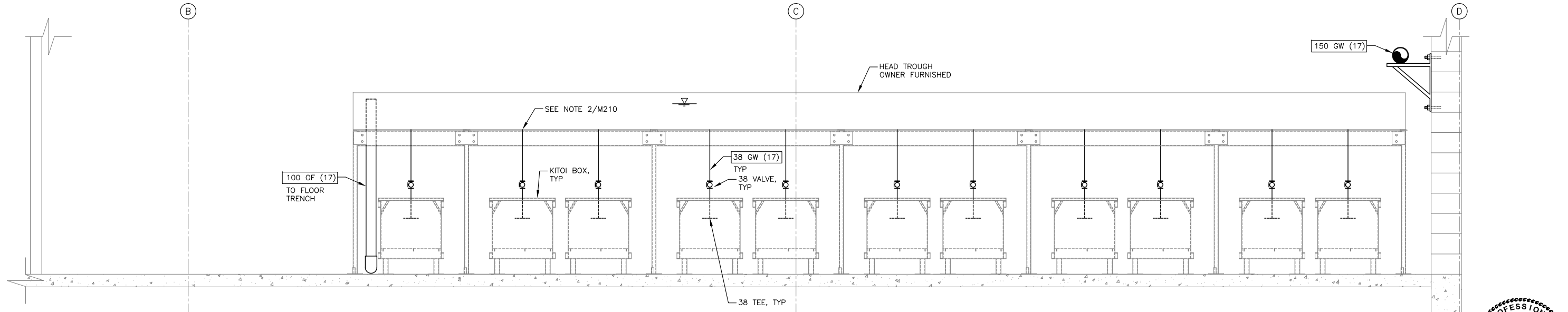
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			DWG NO.	DRAWING REFERENCES	NOTES			NO.

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_M212.DWG



SECTION
SCALE: 1=20



SECTION
SCALE: 1=20



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59	DWG NO.
	DRAWING REFERENCES

silk stevens limited
DESIGN & CONSULTING ENGINEERS

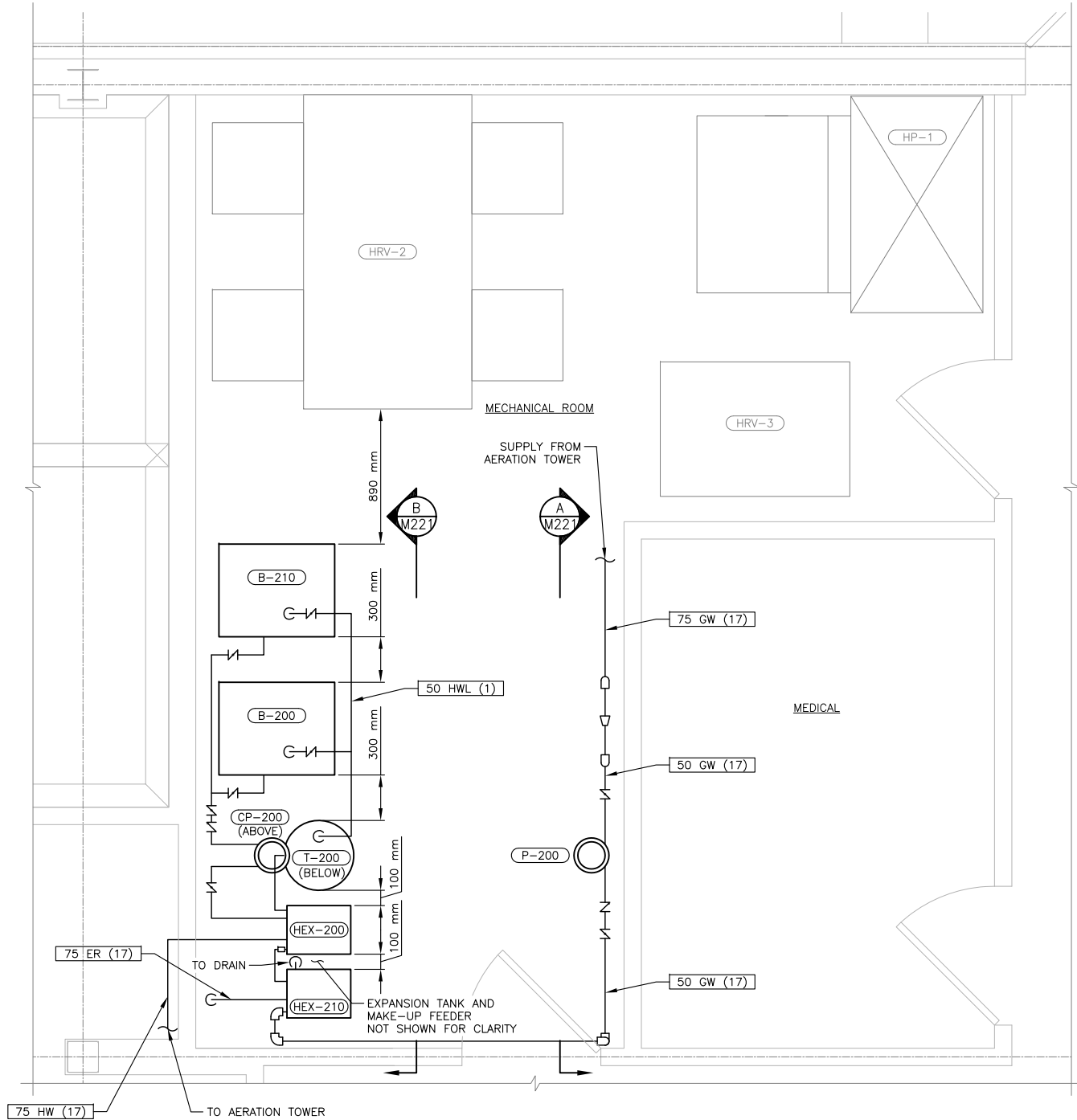
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**McMILLEN
JACOBS
ASSOCIATES**

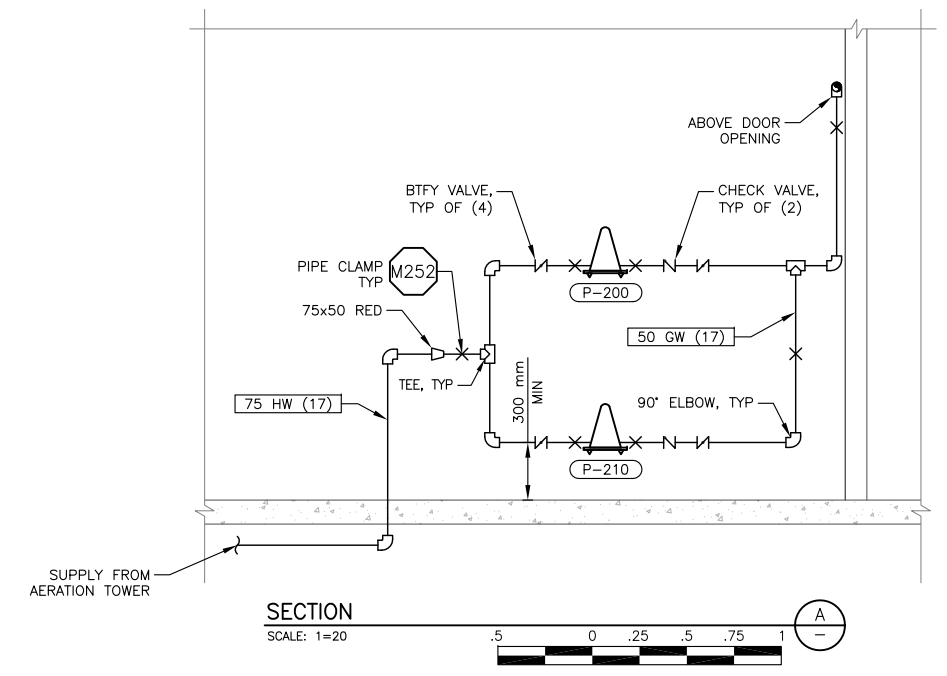
DESIGNED M.C.R./O.S.D.	ISSUED FOR TENDER	
DRAWN D.L.		
CHECKED D.S.N.		
RECOMMENDED		
APPROVED M.C.R.		
APPROVED		
NO.	DATE	REVISIONS

SNOOTLI CREEK HATCHERY	
HATCHERY COMPLEX PACKAGE	
INCUBATION ROOM PIPING SECTIONS 3	
SCALE AS SHOWN	DRAWING NUMBER M-212
DATE 2015-10-20	REVISION

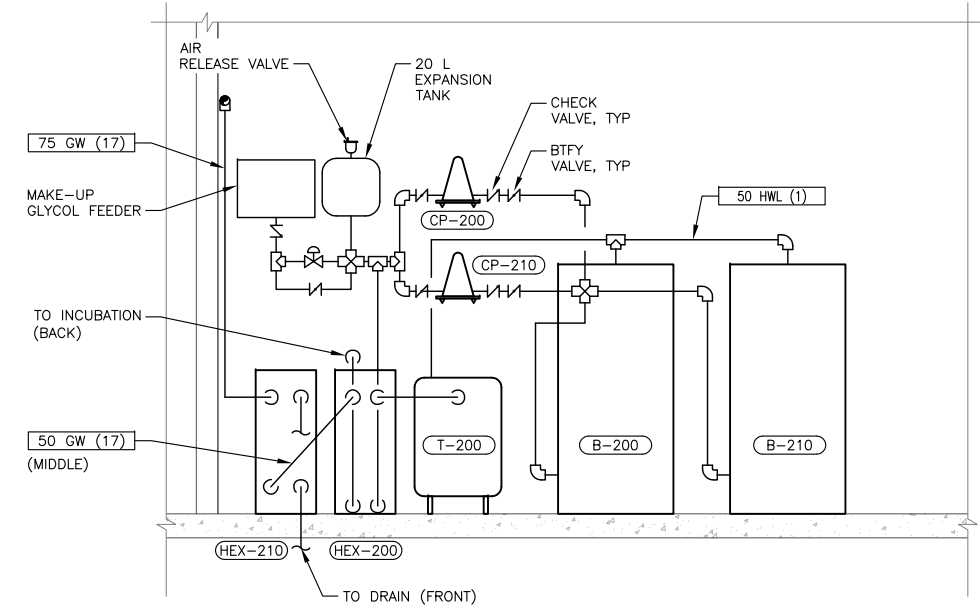
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MECHANICAL ROOM EQUIPMENT PLAN
SCALE: 1=20



SECTION A-A
SCALE: 1=20



SECTION B-B
SCALE: 1=20



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			DRAWN D.L.		DATE 2015-10-20
DWG NO.	DRAWING REFERENCES	NOTES	CHECKED D.S.N.	REVISIONS	DRAWING NUMBER M-220
			RECOMMENDED		REVISION
			APPROVED M.C.R.		
			APPROVED		

PRINT DATE: 2015-10-27 X:\FISHERIES & OCEANS\CANADA\SNOOTLI CREEK_HATCHERY\CAD\HATCHERY_COMPLEX_PACKAGE\HC_GP001.DWG

PLUMBING FIXTURE SCHEDULE

WC-

FIXTURE NO.	DESCRIPTION	SIZE	PIPING CONNECTIONS (mm)					FEATURES & ACCESSORIES	
			TRAP	WASTE	VENT	CW	HW		
S-1	MUD ROOM	915 mm HALF CIRCLE	50	50	50	25	25	3-PERSON, 915 mm ø SEMI CIRCULAR WASH BASIN, 5 LPM INTEGRAL SPRAY HEAD WITH FOOT LEVER.	
S-2	TEMP RESIDENCE W. R.	486 mm ø x 190 mm	50	50	40	13	13	VITREOUS CHINA; SELF-RIMMING WITH CUTOUT TEMPLATE SUPPLIED. FRONT OVER FLOW AND FAUCET LEDGE. INCLUDE 2.4 LPM AERATOR AND POP UP WASTE.	
S-3	TEMP RESIDENCE	470 mm x 790 mm x 200 mm	50	50	40	13	13	TYPE 18-8 STAINLESS STEEL, DUAL SINK, 20 GAUGE BOWL WITH 3 FIXTURE MOUNTING HOLES. SATIN-NICKEL DUAL SPRAY PULL DOWN FAUCET KNOBS. 8.3 MAX LPM AERATOR.	
S-4	BREAK ROOM SINK	470 mm x 790 mm x 200 mm	50	50	40	13	13	TYPE 18-8 STAINLESS STEEL, 20 GAUGE LARGE BOWL/ SMALL BOWL WITH 4 FIXTURE MOUNTING HOLES. SATIN-NICKEL DUAL SPRAY PULL DOWN FAUCET KNOBS. 8.3 MAX LPM AERATOR.	
S-5	CUSTODIAN FLOOR SINK	610 mm x 610 mm x 400 mm	50	50	40	13	13	MOLDED STONE; FLOOR MOUNTED, SQUARE. INTEGRAL DRAIN. STOPS IN SHANK. CAST IRON TRAP. MOLDED HOSE AND WALL HOOK, STAINLESS STEEL MOP HANGER AND STAINLESS STEEL SPLASH PANELS. PROVIDE WITH WALL CLEANOUT.	
FD-1	FLOOR DRAIN	-	75	75	50	TRAP PRIMER	-	ROUND NICKEL BRONZER STRAINER; TRAP PRIMER CONNECTION	
FD-2	FLOOR DRAIN	400 mm x 200 mm	100	100	50	-	-	SQUARE NICKEL BRONZER STRAINER; PROVIDE W/BACKSPLASH TO 1 m AFF.	
L-1	LAVATORY (WALL HUNG, ACCESSIBLE)	533 mm x 463 mm	40	40	40	10	10	VITREOUS CHINA; 2.4 LPM VANDAL RESISTANT AERATOR AND POP UP WASTE. ANGLE STOP WITH OVAL HANDLE AND FLEXIBLE RISERS; 17 GAUGE TRAP. OFFSET GRID DRAIN ASSEMBLY FOR WHEELCHAIR; PROVIDED ADA INSULATION KIT. FURNISH WITH WALL CARRIER. MOUNT PER CSA B651-12 ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT.	
WC-1	WATER CLOSET (FLUSH VALVE, ACCESSIBLE)	432 mm	-	75	50	25	25	VITREOUS CHINA; WALL HUNG WATER CLOSET WITH EXPOSED FLUSH VALVE. 6.2 L/FLUSH. PROVIDE SEAT FLANGE AND GASKET. OPEN FRONT SEAT, WHITE. MOUNT PER CSA B651-12 ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT.	
WC-2	WATER CLOSET (TANK)	410 mm	-	75	50	13	13	VITREOUS CHINA; FLOOR MOUNTED TOILET WITH TANK AND FLUSH VALVE. 6.2 L/FLUSH. PROVIDE SEAT FLANGE AND GASKET.	
U-1	URINAL	387 mm	-	75	50	25	25	VITREOUS CHINA; WALL MOUNTED URINAL WITH HIGH EFFICIENCY FLUSH VALVE. 0.5 L/FLUSH. INCLUDE FLUSHING RIM WITH EXTENDED PRIVACY SIDES.	
SH-1	SHOWER	1295 mm x 970 mm x 2145 mm	40	40	32	13	13	VACUUM FORMED ACRYLIC REINFORCED WITH FIBERGLASS ACCESS SHOWER WITH 4 SHELVES. INCLUDE FACTORY MOUNTED GRAB PARS. SHOWER SHALL MEET CAN/CSA B651-04 BARRIER FREE REQUIREMENTS. PROVIDE 12 LPM FLOW RESTRICTOR AND BRASS PRESSURE BALANCING VALVE WITH WITH TEMPERATURE LIMIT STOP AND INTEGRAL SHUT-ODD VALVE STOPS. SHOWER HEAD AND VALVE COVER SHALL BE SATIN-NICKEL.	
SH-2	TEMP RESIDENCE SHOWER	1524 mm x 813 mm x 545 mm	40	40	32	13	13	VACUUM FORMED ACRYLIC REINFORCED WITH FIBERGLASS DROP IN BATH TUB. PROVIDE 12 LPM FLOW RESTRICTOR AND BRASS PRESSURE BALANCING VALVE WITH WITH TEMPERATURE LIMIT STOP AND INTEGRAL SHUT-ODD VALVE STOPS. SHOWER HEAD/ TUB SPOUT, AND VALVE COVER SHALL BE SATIN-NICKEL.	
BFP-1	BACKFLOW PREVENTER	LINE SIZE	SEE PLANS						PROVIDE WITH ¼ TURN BALL VALVE AND BRONZE STRAINER
ES-1	EMERGENCY SHOWER/EYE WASH	-	50	50	40	19	19	COMBINATION EYE WASH/SHOWER STATION WITH STAINLESS STEEL SHOWER HEAD, STAINLESS STEEL BOWL. UNIT SHALL HAVE (2) POLYPROPYLENE "GS PLUS" SPRAY HEADS WITH INTEGRAL "FLIP-TOP" DUST COVERS, FILTERS AND 8.7 LPM FLOW CONTROL ORIFICES MOUNTED ON A CHROME PLATED BRASS EYE WASH ASSEMBLY, THERMOSTATIC MIXING VALVE. PROVIDE WITH PRESSURE REDUCING VALVE AT EYE WASH, SET TO 205 kPa. INSTALL PER MANUFACTURER'S INSTRUCTIONS.	

ELECTRIC WATER HEATER SCHEDULE

WH-



ITEM NO.	LOCATION	CAPACITY (L)	RECOVERY LPH @ 56C RISE	KW	VOLTS/PHASE	WATER CONN	REMARKS
WH-1	LABORATORY	114	68	4.5	600/3	19 mm	FOAM INSULATION. MAGNESIUM ANODE ROD. PROVIDE WITH 8 LITRE EXPANSION TANK.
WH-2	MECHANICAL	190	68	4.5	600/3	19 mm	FOAM INSULATION. MAGNESIUM ANODE ROD. PROVIDE WITH 8 LITRE EXPANSION TANK.
WH-3	CUSTODIAL	114	68	4.5	600/3	19 mm	FOAM INSULATION. MAGNESIUM ANODE ROD. PROVIDE WITH 8 LITRE EXPANSION TANK.

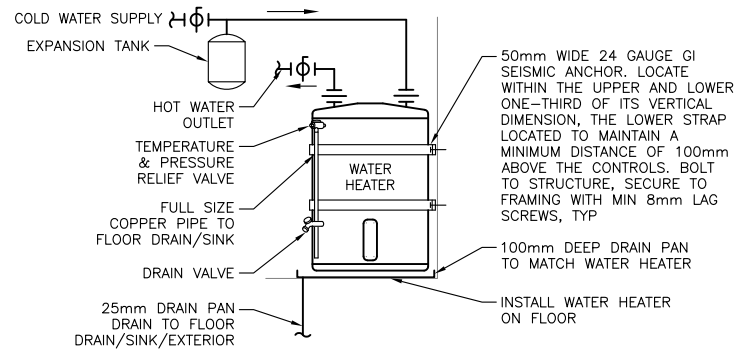
GENERAL SCHEDULE NOTES

1. FIXTURES INDICATED AS ACCESSIBLE MUST COMPLY WITH CSA B651-12 ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT.
2. ALL HW PIPING AND DRAIN LINES BENEATH ADA COMPLIANT LAVATORIES MUST BE INSULATED TO PREVENT BURNS. REF. ARCHITECTURAL PLANS. INSULATE WITH MOLDED CLOSED CELL VINYL INSULATION - TRUEBRO OR EQUAL.
3. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS (PPP INC., OR EQUAL). PROVIDE ACCESS PANELS AS REQUIRED.
4. EACH FIXTURE SHALL BE INDIVIDUALLY VENTED WITH THE VENT SIZE INDICATES IN THE FIXTURE SCHEDULE. FIXTURE VENTS MAY BE COMBINED NOT LESS THAN 150 mm ABOVE FLOOD RIM LEVEL FROM ALL FIXTURES BEING COMBINED. ALL COMBINED VENTS SHALL BE OF THE SIZE LISTED FOR THE FIXTURE WITH THE LARGEST VENT.
5. ALL DRAIN AND SANITARY SEWER PIPING SHALL BE SLOPED AT A MINIMUM OF 1% OR 1 IN 100.



FISHERIES AND OCEANS CANADA
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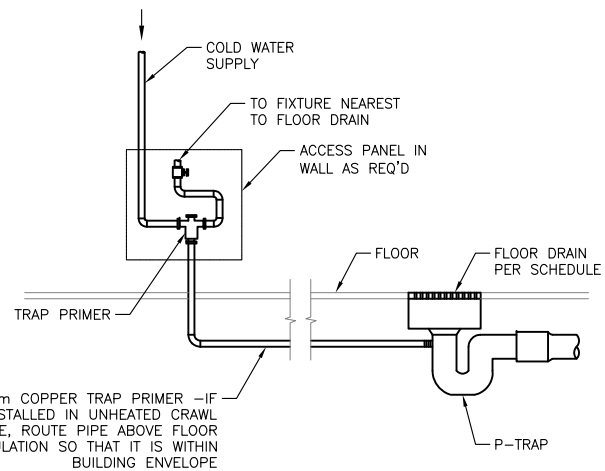
61	 This Copyright design and drawing is the sole and exclusive property of SILK STEVENS LIMITED. Reproduction or use of this drawing without the prior written consent is strictly prohibited.		DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE PLUMBING GENERAL NOTES AND EQUIPMENT SCHEDULES	SCALE AS SHOWN
			DRAWN D.L.		DATE 2015-10-20
			CHECKED D.S.N.		DRAWING NUMBER GP-001
			RECOMMENDED		REVISION
			APPROVED M.C.R.		
DWG NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS



ELECTRIC WATER HEATER DETAIL

SCALE: NTS

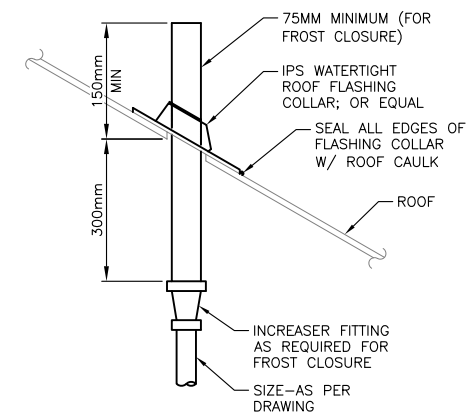
P101



TRAP PRIMER DETAIL

SCALE: NTS

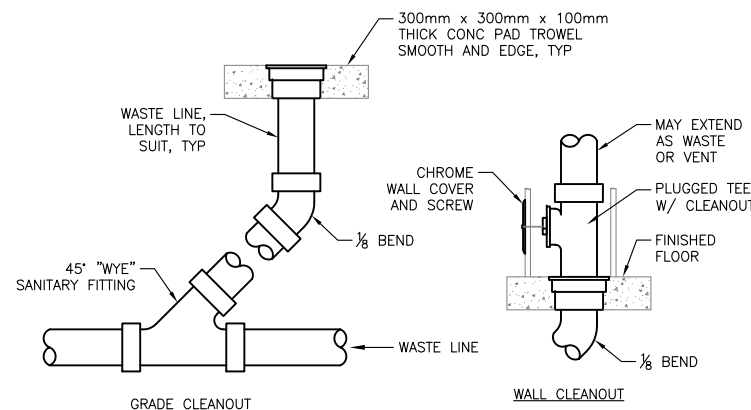
P102



PVC - VENT THROUGH ROOF

SCALE: NTS

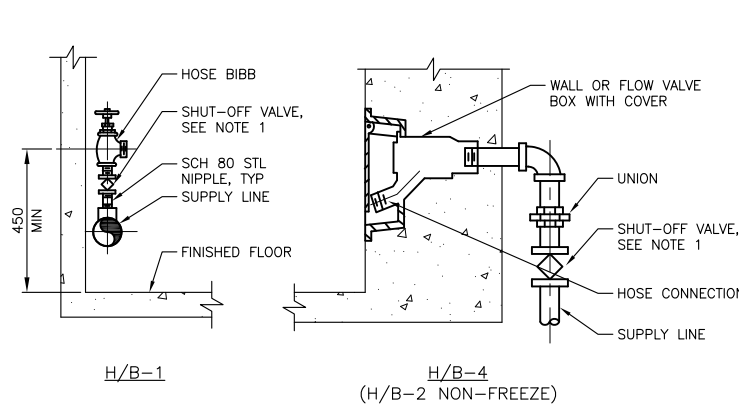
P103



CLEANOUT DETAIL

SCALE: NTS

P104

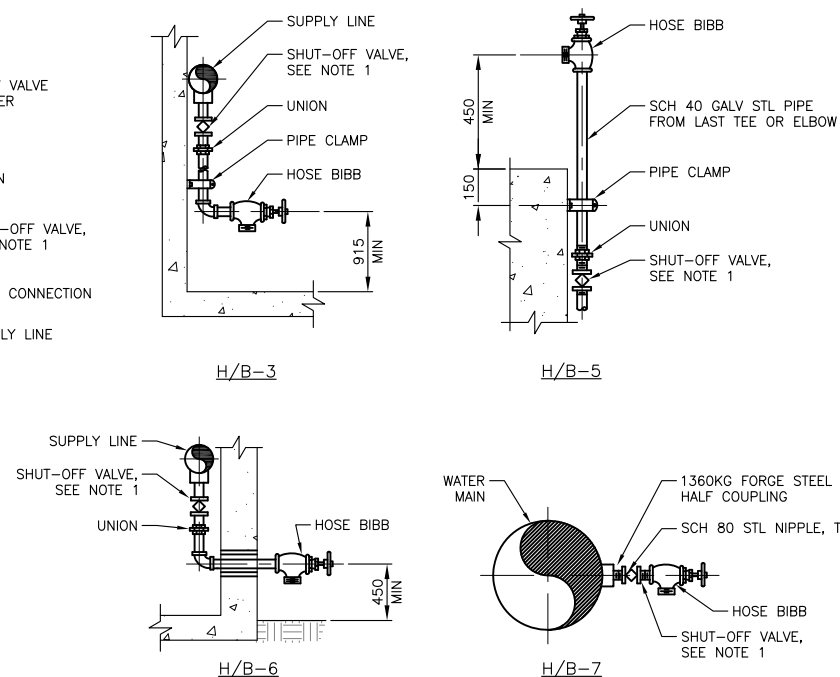


HOSE BIBS

SCALE: NTS

P105

- NOTES:
1. ALL HOSE VALVES TO BE CONTROLLED BY INDIVIDUAL SHUT-OFF VALVES (BALL OR PLUG VALVES) EXCEPT WHERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES HOSE VALVES ONLY.
 2. FOR SIZE AND LOCATION, SEE DRAWINGS.
 3. PROVIDE WARNING SIGN WHEN USED FOR NON-POTABLE WATER.



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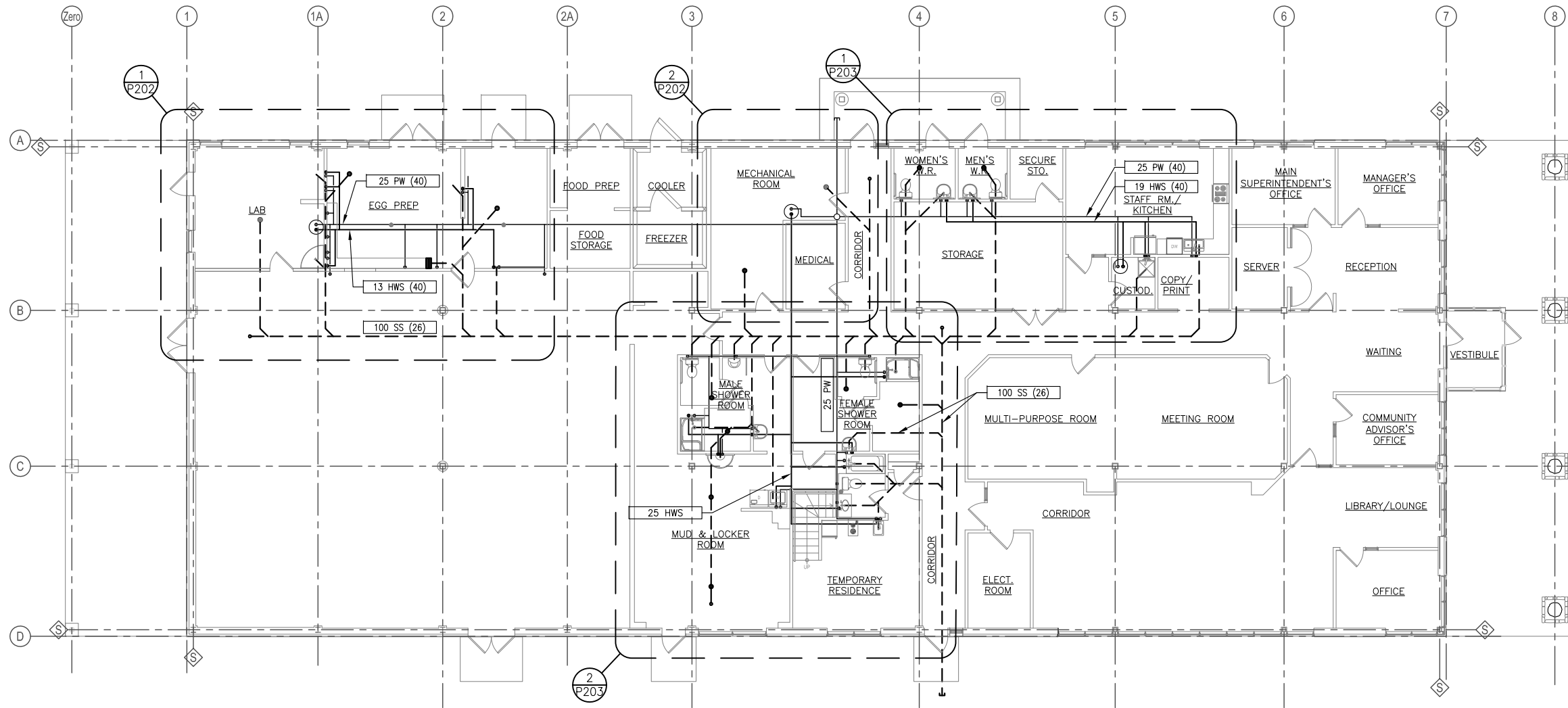


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62	DRAWING REFERENCES	NOTES	NO.	DATE	ISSUED FOR TENDER	DESIGNED M.C.R./O.S.D.	SCALE AS SHOWN
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						CHECKED D.S.N.	DRAWING NUMBER GP-002
						RECOMMENDED	REVISION
						APPROVED M.C.R.	
						APPROVED	

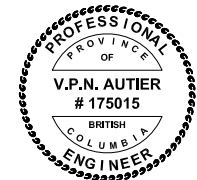
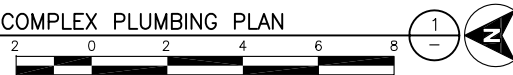
SNOOTLI CREEK HATCHERY	
HATCHERY COMPLEX PACKAGE	
STANDARD PLUMBING DETAILS	

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HATCHERY COMPLEX PLUMBING PLAN

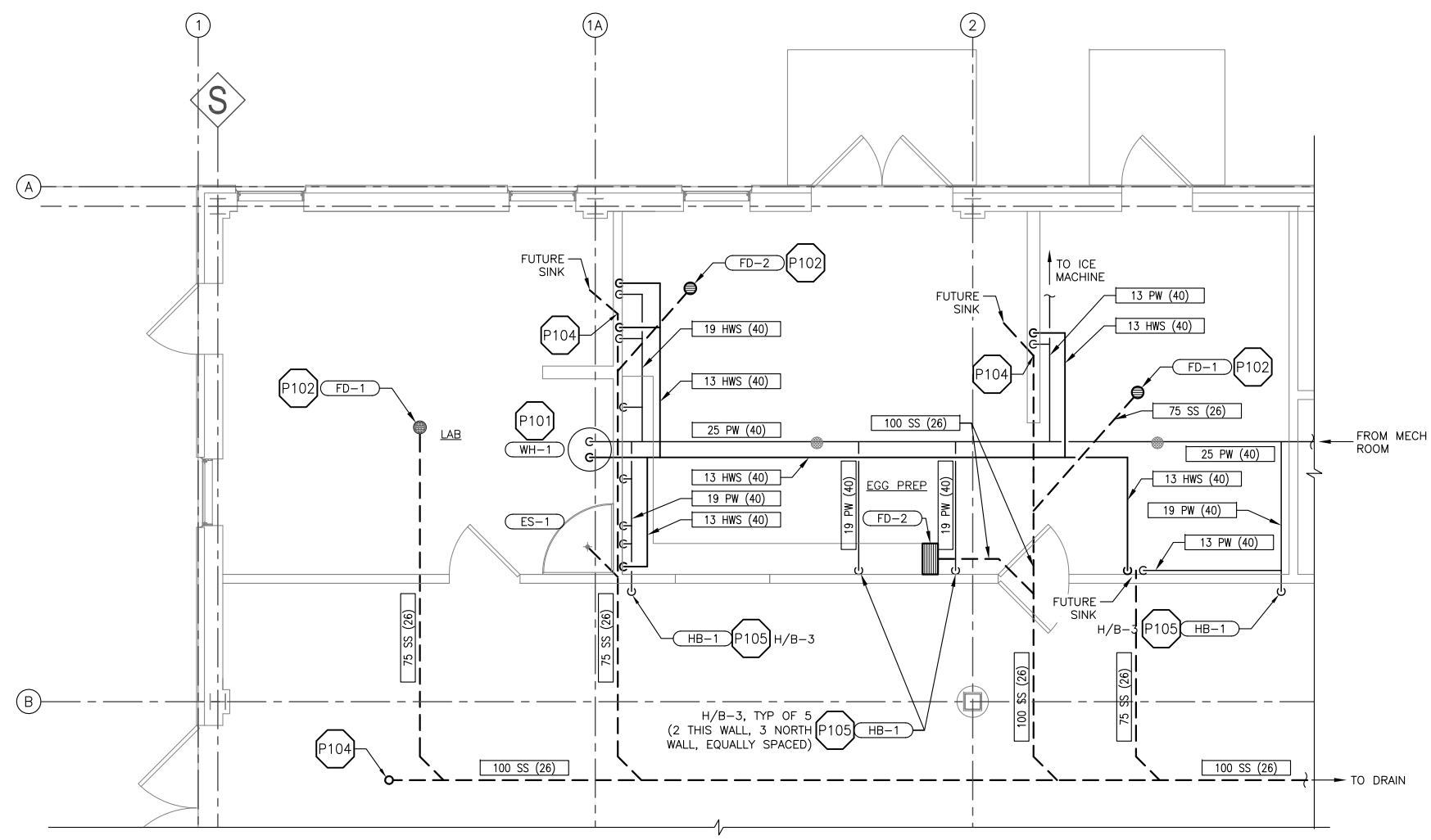
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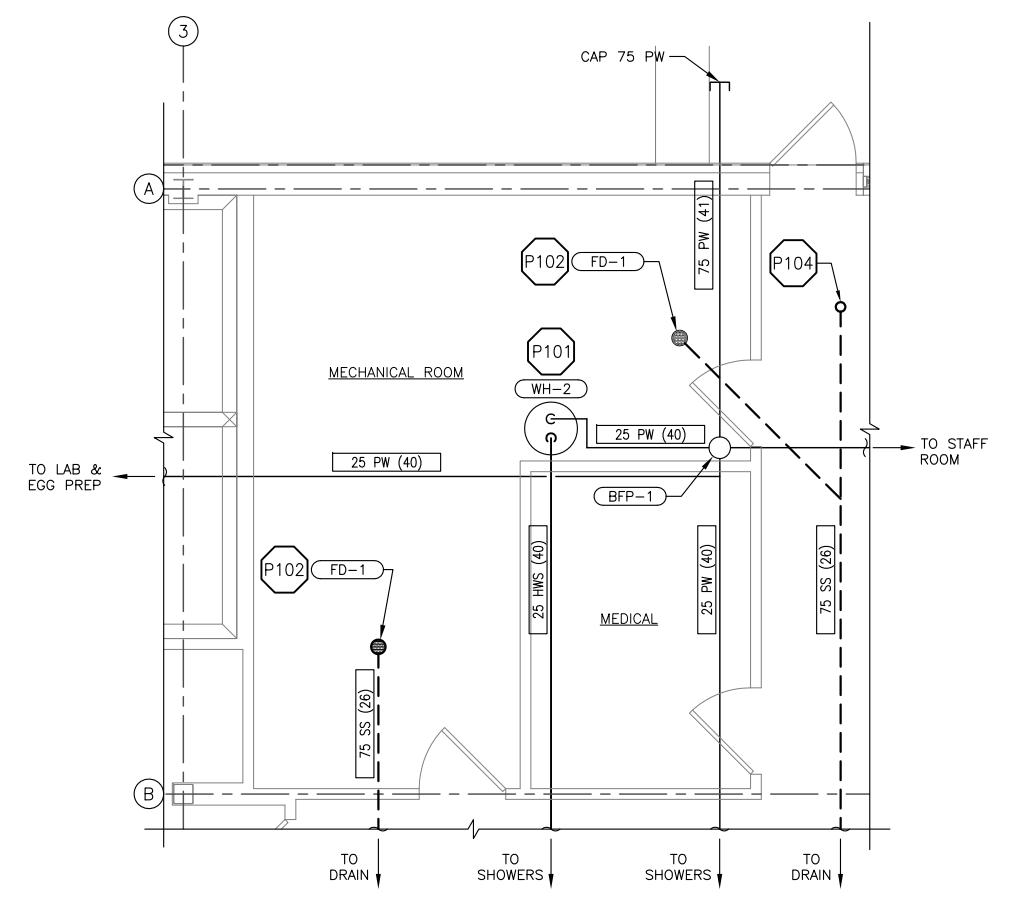
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63	 DESIGN & CONSULTING ENGINEERS		01 2015-10-20 ISSUED FOR TENDER	NO. DATE REVISIONS	DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HATCHERY COMPLEX PLUMBING PLAN	SCALE AS SHOWN
					DRAWN D.L.		DATE 2015-10-20
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						APPROVED M.C.R. APPROVED	REVISION

SHEET NOTES:
 1. ALL CONNECTIONS AND VENTS AT FIXTURES SHALL BE PER SCHEDULE.

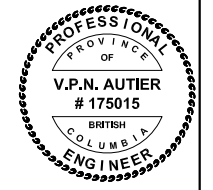


HATCHERY COMPLEX ENLARGED PLUMBING PLAN
 SCALE: 1=40
 1 P201



HATCHERY COMPLEX ENLARGED PLUMBING PLAN
 SCALE: 1=40
 2 P201

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY COMPLEX PACKAGE\HC_P202.DWG



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64	DWG NO.
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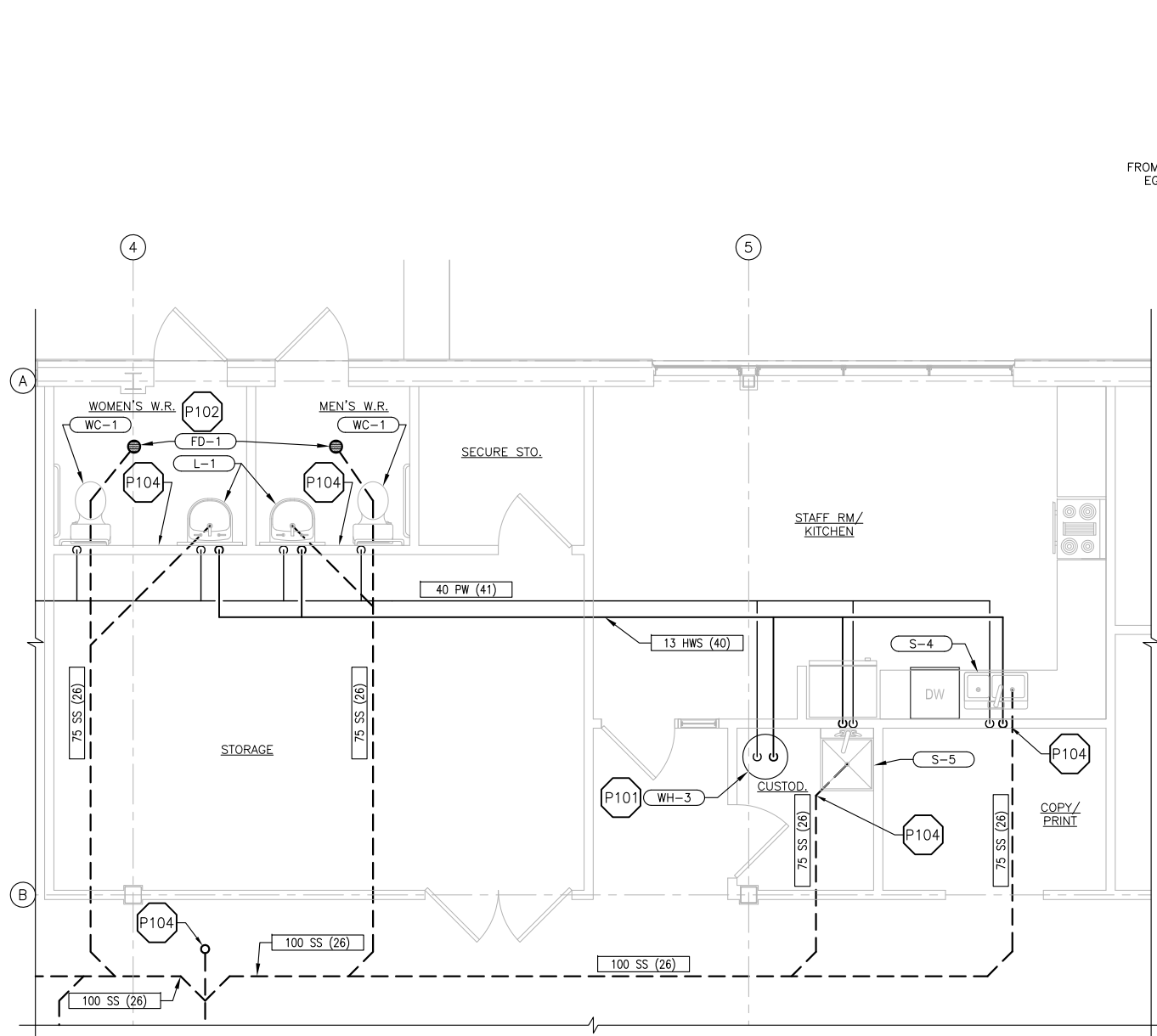
McMILLEN JACOBS ASSOCIATES

DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HATCHERY BUILDING ENLARGED PLUMBING PLAN 1	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER P-202
RECOMMENDED		REVISION
APPROVED M.C.R.		

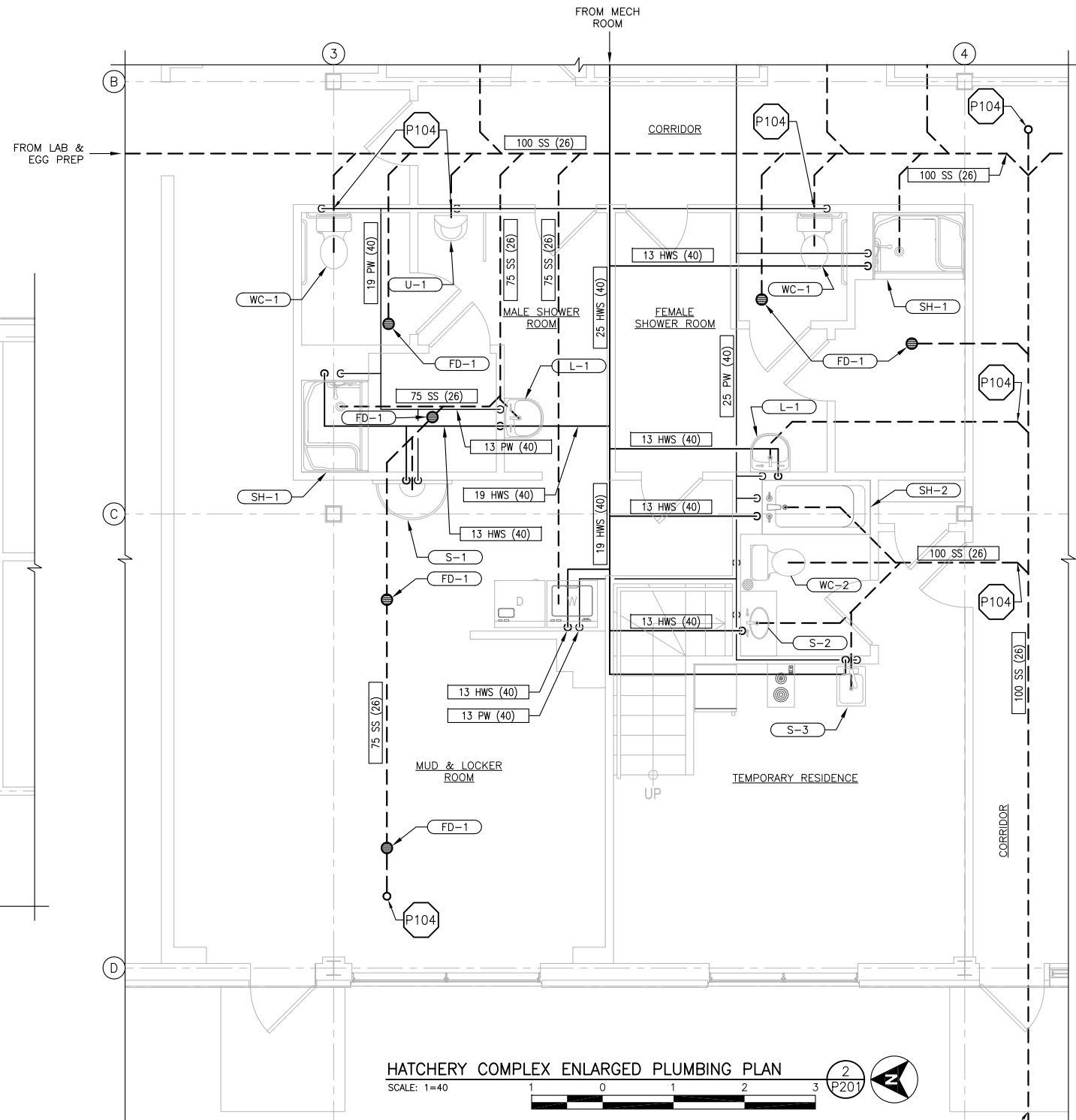
DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HATCHERY BUILDING ENLARGED PLUMBING PLAN 1	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER P-202
RECOMMENDED		REVISION
APPROVED M.C.R.		

NO.	DATE	ISSUED FOR TENDER	REVISIONS				

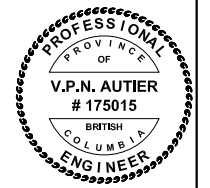
SHEET NOTES:
 1. ALL CONNECTIONS AND VENTS AT FIXTURES SHALL BE PER SCHEDULE.



HATCHERY COMPLEX ENLARGED PLUMBING PLAN
 SCALE: 1=40
 1 P201



HATCHERY COMPLEX ENLARGED PLUMBING PLAN
 SCALE: 1=40
 2 P201



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65

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DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HATCHERY BUILDING ENLARGED PLUMBING PLAN 2	SCALE AS SHOWN
DRAWN D.L.		DATE 2015-10-20
CHECKED D.S.N.		DRAWING NUMBER P-203
RECOMMENDED		REVISION
APPROVED M.C.R.		

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AIR SOURCE HEAT PUMPS													HP--	
EQUIPMENT NO.	AREA SERVED	SUPPLY AIR (L/S)	OUTSIDE AIR (L/S)	ESP (kPa)	HEATING		COOLING			VOLT-PH-CY	FLA	MCA	MOPD	OPTIONS-ACCESSORIES
					TOTAL CAPACITY (kW)	COP	TOTAL CAPACITY (kW)	EDB/EWB (C)	EER					
HP-1	ADMIN	2,830	410	0.2	30		48	23.8/17.7	12	575/3/60	13.2	16	20	

MINI SPLIT HEAT PUMPS													MS--	
EQUIPMENT NO.	AREA SERVED	AIR FLOW (L/S)	ESP (kPa)	HEATING		COOLING			VOLT-PH-CY	FLA	MCA	MOPD	OPTIONS-ACCESSORIES	
				TOTAL CAPACITY (kW)	COP	TOTAL CAPACITY (kW)	EDB/EWB (C)	EER						
MS-1	TEMP RESIDENCE	275	0.05	6.33	3.7	6.33	23.8/17.7	20.3	208/1/60	5				

OUTDOOR HEAT PUMP SCHEDULE													CU--
EQUIPMENT NO.	CORRESPONDING UNIT	COOLING CAPACITY (kW)	HEATING CAPACITY (kW)	SEER	REFRIG PIPING		ELECTRICAL (V/PH/CY)	MCA	FLA	MOPD	WEIGHT (LBS)	OPTIONS-ACCESSORIES	
					LIQUID (MM)	VAPOR (MM)							
CU-1	HP-1	48	30	12	10	19	575/3/60	24	22	30	980		
CU-2	MS-1	6.33	6.33	20.3	6	13	208/1/60	13.75	5.9	20	104		

HEAT RECOVERY VENTILATOR															HRV--	
EQUIPMENT NO.	AREA SERVED	AIR FLOW (L/S)	ESP (kPa)	HEATING				COOLING					VOLT-PH-CY	FLA	OPTIONS ACCESSORIES	
				OA DB TEMP (C)	OA WB TEMP (C)	HEAT RECOV (KW)	INDOOR DRY BULB (C)	INDOOR REL HUM	OA DB TEMP (C)	OA WB TEMP (C)	HEAT RECOV (TON)	INDOOR DRY BULB (C)				INDOOR REL HUM
HRV-1	TEMP RESIDENCE	40	0.05	-17.7	-18.3	1.6	21.1	35%	24.44	18.3	0	23.8	50%	120/1/60	2	
HRV-2	PRODUCTION	1650	0.125	-17.7	-18.3	58.5	18.33	35%	24.44	18.3	1.0	23.8	50%	575/3/60	10.6	
HRV-3	ADMIN AREA	410	0.125	-17.7	-18.3	16.0	21.1	35%	24.44	18.3	0.2	23.8	50%	208/3/60	10.2	

EXHAUST FAN SCHEDULE													EF--
EQUIPMENT NO.	LOCATION	L/S	STATIC PRESS. (kPa)	MOTOR				SONES	WEIGHT (LBS)	CONTROL	OPTIONS-ACCESSORIES		
				WATTS	HP	RPM	VOLT-PH-CY						
EF-1	MECH ROOM	125	0.09	170	--	1145	120/1/60	2.9	30	TEMP SWITCH			
EF-2, 3	MALE SHOWER ROOM 1 & 2	50	0.09	98	--	1100	120/1/60	3.2	15	LIGHT SWITCH			
EF-4, 5	FEMALE SHOWER ROOM 1 & 2	50	0.09	98	--	1100	120/1/60	3.2	15	LIGHT SWITCH			
EF-6	WOMEN'S WR	25	0.09	50	--	800	120/1/60	2.0	13	LIGHT SWITCH			
EF-7	MEN'S WR	25	0.09	50	--	800	120/1/60	2.0	13	LIGHT SWITCH			
EF-8	KITCHEN	25	0.09	50	--	800	120/1/60	2.0	13	LIGHT SWITCH			
EF-9	COPY/PRINT	25	0.09	50	--	800	120/1/60	2.0	13	LIGHT SWITCH			
EF-10	CUSTODIAN	25	0.09	50	--	800	120/1/60	2.0	13	LIGHT SWITCH			
EF-11	INCUBATION	1735	0.05	--	3/4	1725	120/1/60	23	125	HUMIDISTAT			
EF-12	TEMP RESIDENCE	25	0.09	50	--	800	120/1/60	2.0	13	SWITCH	RANGE HOOD W/LIGHT AND GREASE FILTER		
EXF-2	SEE ELECTRICAL												

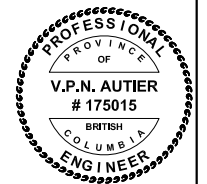
LOUVER SCHEDULE									L--
EQUIPMENT NO.	SERVICE	WIDTH (M)	HEIGHT (M)	FREE AREA (SM)	FRAME DEPTH (M)	MATERIAL	SCREEN	OPTIONS-ACCESSORIES	
L-1	EF-1	0.30	0.30	0.03	0.15	ALUM	EXP ALUM		
L-2	EF-11	1.07	0.76	0.41	0.15	ALUM	EXP ALUM		

ELECTRIC UNIT HEATER SCHEDULE										UH--
EQUIPMENT NO.	SERVICE	L/S	HEATING			VOLT-PH-CY	WEIGHT (LBS)	CONTROL	OPTIONS-ACCESSORIES	
			KW	FLA	RPM					
UH-1	FOOD PREP/STORAGE	330	5	14.6	1,550	208/3/60	45	TEMP SWITCH		
UH-2,3	EGG PREP	330	5	14.6	1,550	208/3/60	45	TEMP SWITCH		
UH-4	LAB	400	7.5	7.6	1,550	575/3/60	50	TEMP SWITCH		
UH-5,6,7	INCUBATION	585	20	19.6	1,725	575/3/60	75	TEMP SWITCH		
WHR	VESTIBULE	-	1.75	8.4	1,550	208/1/60	12	TEMP SWITCH		

BASE BOARD HEATER SCHEDULE								BB--
EQUIPMENT NO.	SERVICE	KW	FLA	VOLT-PH-CY	WEIGHT (LBS)	CONTROL	OPTIONS-ACCESSORIES	
BB-1	MUD ROOM	1.7	8.3	208/1/60	16	WALL SWITCH	1220 mm LONG, TYP OF 2 FOR DRYING GEAR	

GENERAL HVAC NOTES:

1. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL THERMOSTATS AND REQUIRED LOW VOLTAGE WIRING. ALL THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE OWNER.
2. ALL OUTSIDE AIR DUCTS SHALL BE EXTERNALLY INSULATED. ALL DUCTING THAT EXTENDS THROUGH NON-CLIMATE CONTROLLED AREAS SHALL ALSO BE EXTERNALLY INSULATED.
3. DUCTWORK LAYOUTS ARE PARTIAL SCHEMATIC. NOT ALL REQUIRED OFFSET OR ADJUSTMENTS ARE SHOWN. CONTRACTOR SHALL COORDINATE DUCT ROUTING WITH LIGHTING, DUCTS, PLUMBING, AND STRUCTURE.
4. ALL SHEET METAL AND DUCTWORK SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
5. SEE SPECIFICATIONS FOR COMPLETE COMPONENT REQUIREMENTS.



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66			DESIGNED M.C.R./O.S.D.		SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE HVAC GENERAL NOTES AND EQUIPMENT SCHEDULES 1	SCALE AS SHOWN
			DRAWN D.L.			DATE 2015-10-20
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			RECOMMENDED			REVISION
DWG NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS	REVISION

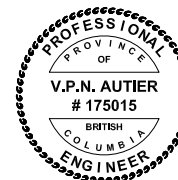
AIR DISTRIBUTION DEVICES

(A), (B) SD-1, 100
(C) 250 L/S

SYMBOL KEY:
A. FIRST LETTER: S-SUPPLY, R-RETURN, E-EXHAUST, T-TRANSFER
SECOND LETTER: D-DIFFUSER R-REGISTER G-GRILLE
B. LEAD-IN DUCT DIAMETER, IN MM, UNLESS NOTED OTHERWISE
C. LITERS PER SECOND

SYMBOL	SIZE (mm)		MOUNTING				MATERIAL		ACCESSORIES		NOTES	
	FACE	NECK	SIDEWALL	LAY-IN CEILING	HARD CEILING	DUCT	FLOOR	STEEL	ALUM.	FACE DAMPER		LAY-IN PANEL
SD-101	600 SQ	300		X					X			
SD-102	600 SQ	150		X					X			
SD-103	600 SQ	150		X					X			
SD-104	600 SQ	150		X					X			
SD-105	600 SQ	200		X					X			
SD-106	600 SQ	100		X					X			TYP OF 3
SD-107	600 SQ	150		X					X			
SD-108												NOT USED
SD-109	600 SQ	150		X					X			
SD-110	600 SQ	150		X					X			
SD-111	600 SQ	300		X					X			
SD-112	600 SQ	150		X					X			
SD-113	--	--				X						TYP OF 3
SD-114	600 SQ	200		X					X			
SD-115	600 SQ	200		X					X			TYP OF 2
SD-116	600 SQ	200		X					X			
SD-118	--	150				X						
SD-119	600 SQ	150		X					X			
SD-120	600 SQ	100		X					X			
SD-121	600 SQ	100		X					X			
SD-122	600 SQ	100		X					X			
SD-123	600 SQ	100		X					X			
SD-124	600 SQ	250		X					X			
SD-125	600 SQ	250		X					X			TYP OF 2
SD-126	600 SQ	100		X					X			TYP OF 2
SD-127	600 SQ	100		X					X			
SD-128	600 SQ	200		X					X			
SD-129	600 SQ	100		X					X			
SD-130	600 SQ	300		X					X			
SD-131	600 SQ	250		X					X			
SD-132	600 SQ	150		X					X			
SD-133	600 SQ	150		X					X			
SD-134	600 SQ	100		X					X			
SD-140	600 SQ	100		X					X			TYP OF 2
RG-105	600 SQ	350		X					X			
RG-106	600 SQ	100		X					X			
RG-111	600 SQ	350		X					X			
RG-113	--	--				X						TYP OF 3
RG-114	600 SQ	200		X					X			
RG-115	600 SQ	300		X					X			
RG-116	600 SQ	200		X					X			
RG-118	600 SQ	150		X					X			
RG-124	600 SQ	200		X					X			
RG-125	600 SQ	400		X					X			
RG-126	600 SQ	200		X					X			
RG-128	600 SQ	200		X					X			TYP OF 2
RG-130	600 SQ	400		X					X			
RG-140	600 SQ	100		X					X			TYP OF 2

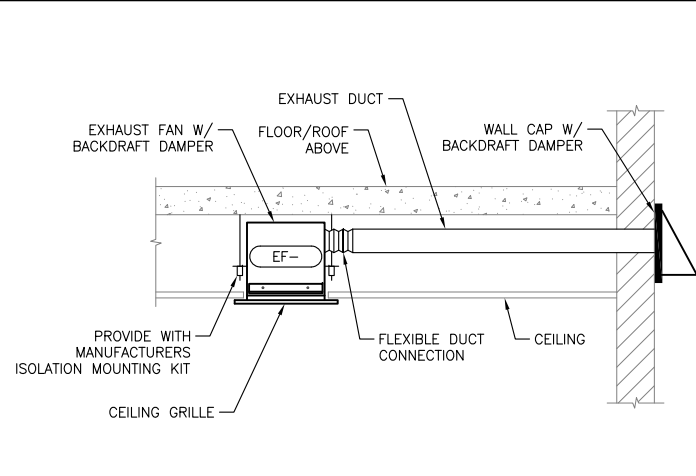
NOTES:
1. CONTRACTOR TO VERIFY FRAME STYLES WITH CEILING TYPES.
2. FINISH TO BE MODEL'S STANDARD FINISH UNLESS DIRECTED OTHERWISE BY THE ARCHITECT.



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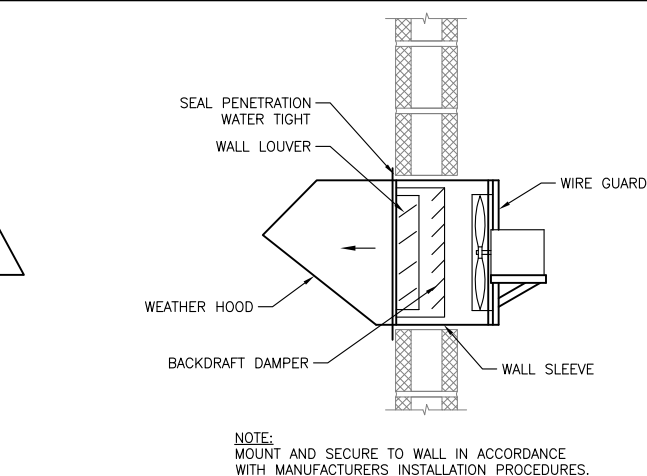
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				DWG NO.	NOTES	NO.	DATE	REVISIONS

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TYPICAL EXHAUST FAN

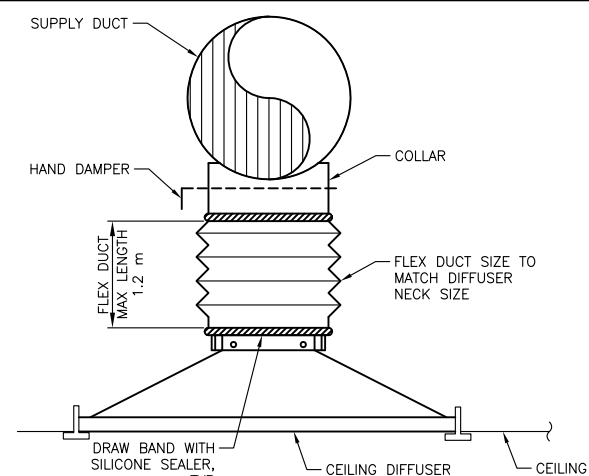
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H101 SIDEWALL EXHAUST FAN

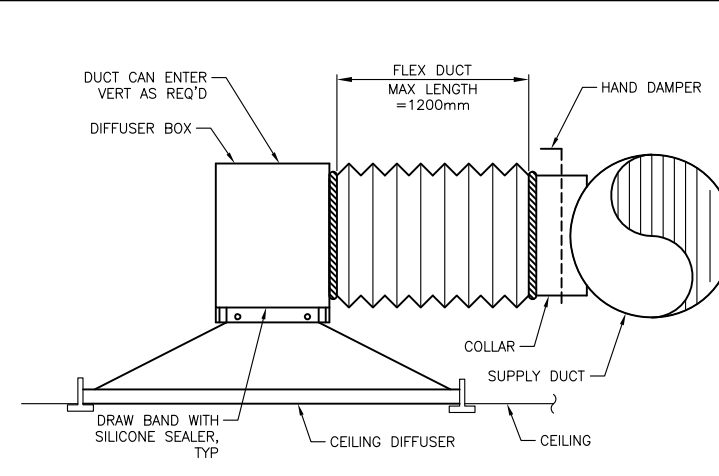
SCALE: NTS

NOTE:
MOUNT AND SECURE TO WALL IN ACCORDANCE WITH MANUFACTURERS INSTALLATION PROCEDURES.



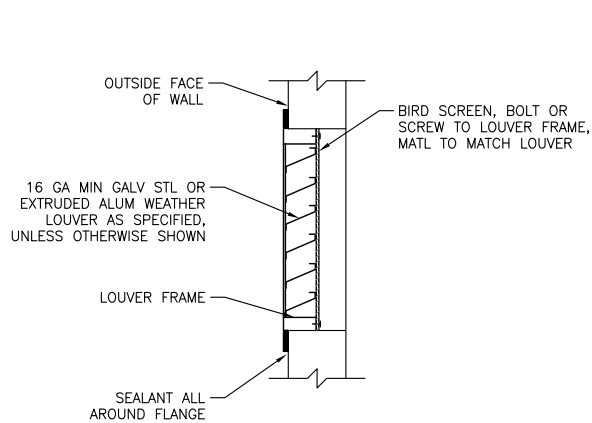
H102 TYPICAL DIFFUSER CONNECTION

SCALE: NTS



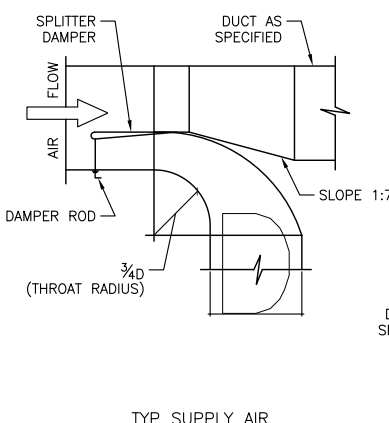
H103 TYPICAL DIFFUSER CONNECTION

SCALE: NTS



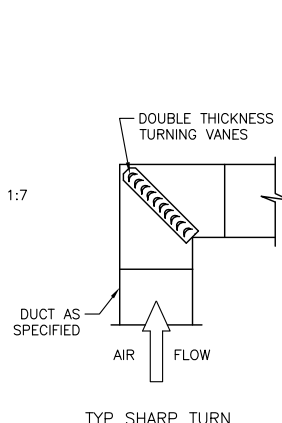
FIXED WEATHER LOUVER

SCALE: NTS

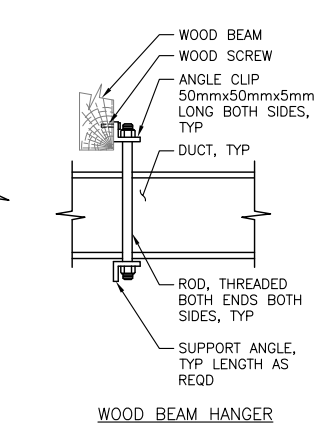


M105 AIR DUCT

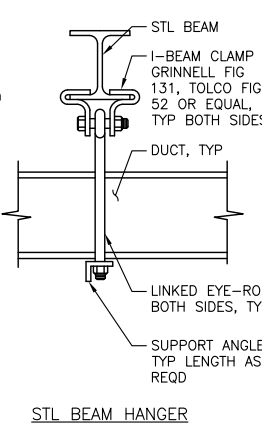
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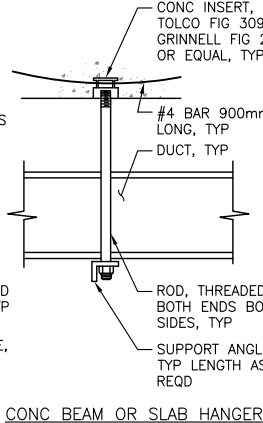
TYP SHARP TURN W/ TURNING VANES



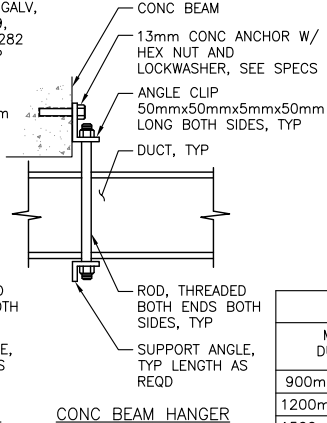
WOOD BEAM HANGER



STL BEAM HANGER



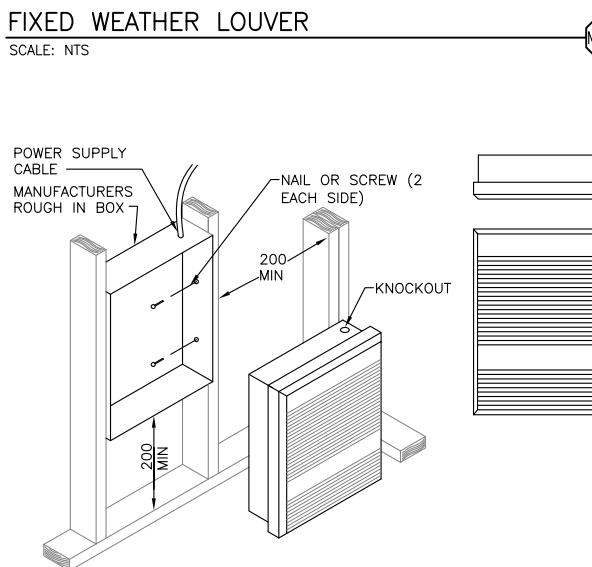
CONC BEAM OR SLAB HANGER



CONC BEAM HANGER

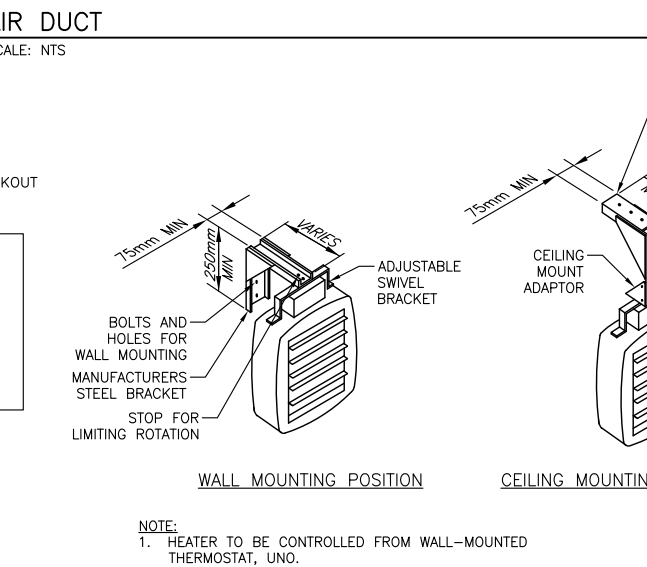
NOTE:
1. GALV ALL PARTS AFTER FABRICATION.

HANGER SIZING AND SPACING (mm)			
MAXIMUM DUCT SIZE	ROD DIA	SUPPORT ANGLE	MAXIMUM SPACING
900mm x 300mm	10mm	40mm x 40mm x 4mm	2400mm OC
1200mm x 450mm	13mm	50mm x 50mm x 4mm	2400mm OC
1500mm x 600mm	13mm	50mm x 50mm x 6mm	1800mm OC
2000mm x 600mm	13mm	50mm x 50mm x 6mm	1800mm OC



ELECTRIC WALL HEATER DETAIL

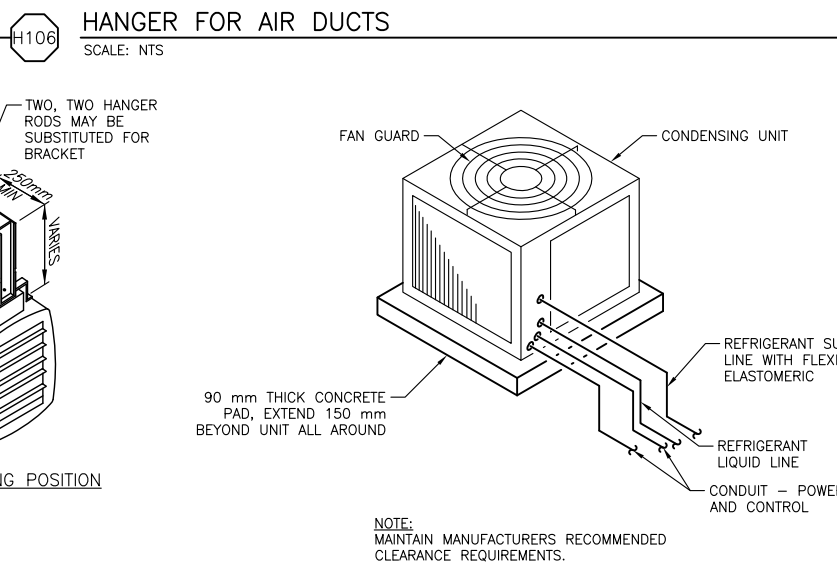
SCALE: NTS



H108 UNIT HEATER MOUNTING

SCALE: NTS

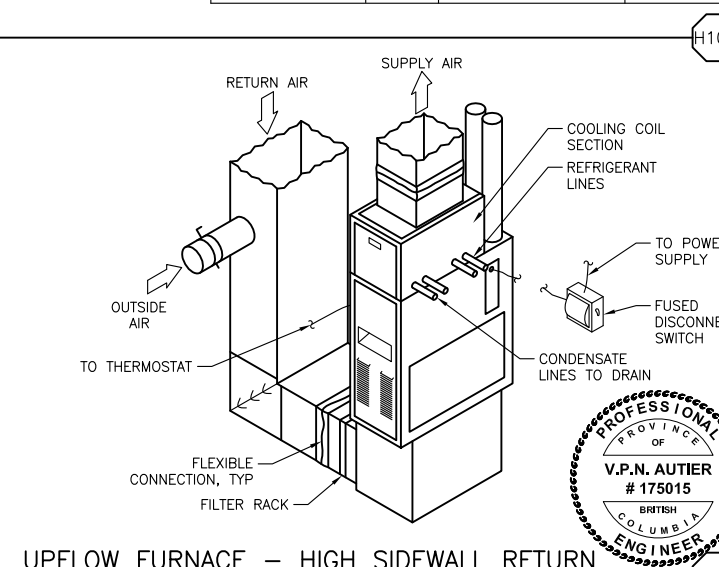
NOTE:
1. HEATER TO BE CONTROLLED FROM WALL-MOUNTED THERMOSTAT, UNO.
2. HEATING COIL PIPING PER DETAIL H108.



H109 OUTDOOR CONDENSING UNIT

SCALE: NTS

NOTE:
MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCE REQUIREMENTS.



H111 UPFLOW FURNACE - HIGH SIDEWALL RETURN

SCALE: NTS

68

DWG NO. DRAWING REFERENCES

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McMILLEN JACOBS ASSOCIATES

NO.	DATE	ISSUED FOR TENDER	REVISIONS
01	2015-10-20	ISSUED FOR TENDER	







FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

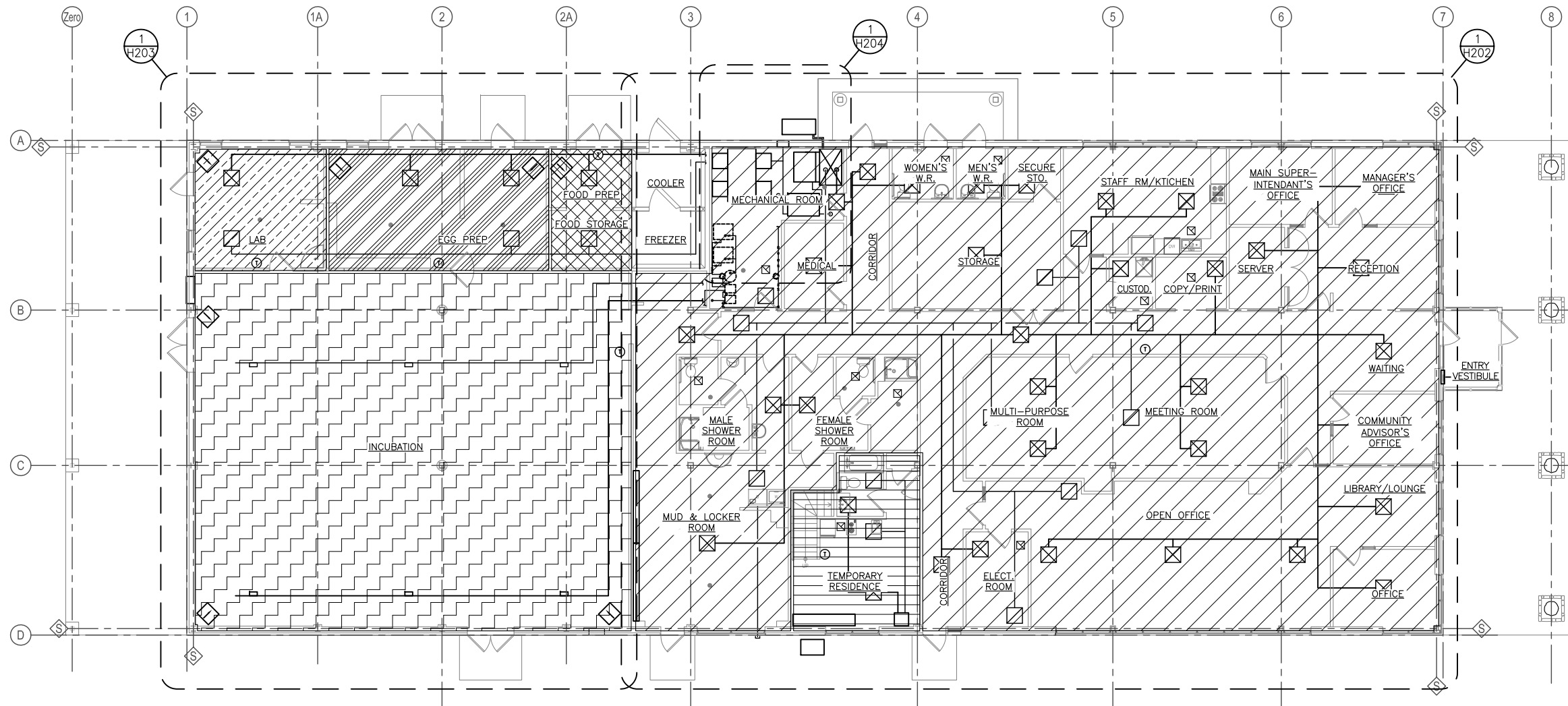
SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE

STANDARD HVAC DETAILS

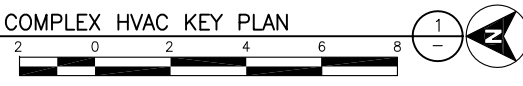
SCALE AS SHOWN
DATE 2015-10-20
DRAWING NUMBER **GH-003**
REVISION

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS\CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_GH003.DWG



- LEGEND:
-  ZONE 1 - ADMIN
 -  ZONE 2 - TEMPORARY RESIDENCE
 -  ZONE 3 - INCUBATION
 -  ZONE 4 - FOOD STORAGE
 -  ZONE 5 - EGG PREPARATION
 -  ZONE 6 - LAB



HATCHERY COMPLEX HVAC KEY PLAN
 SCALE: 1=100

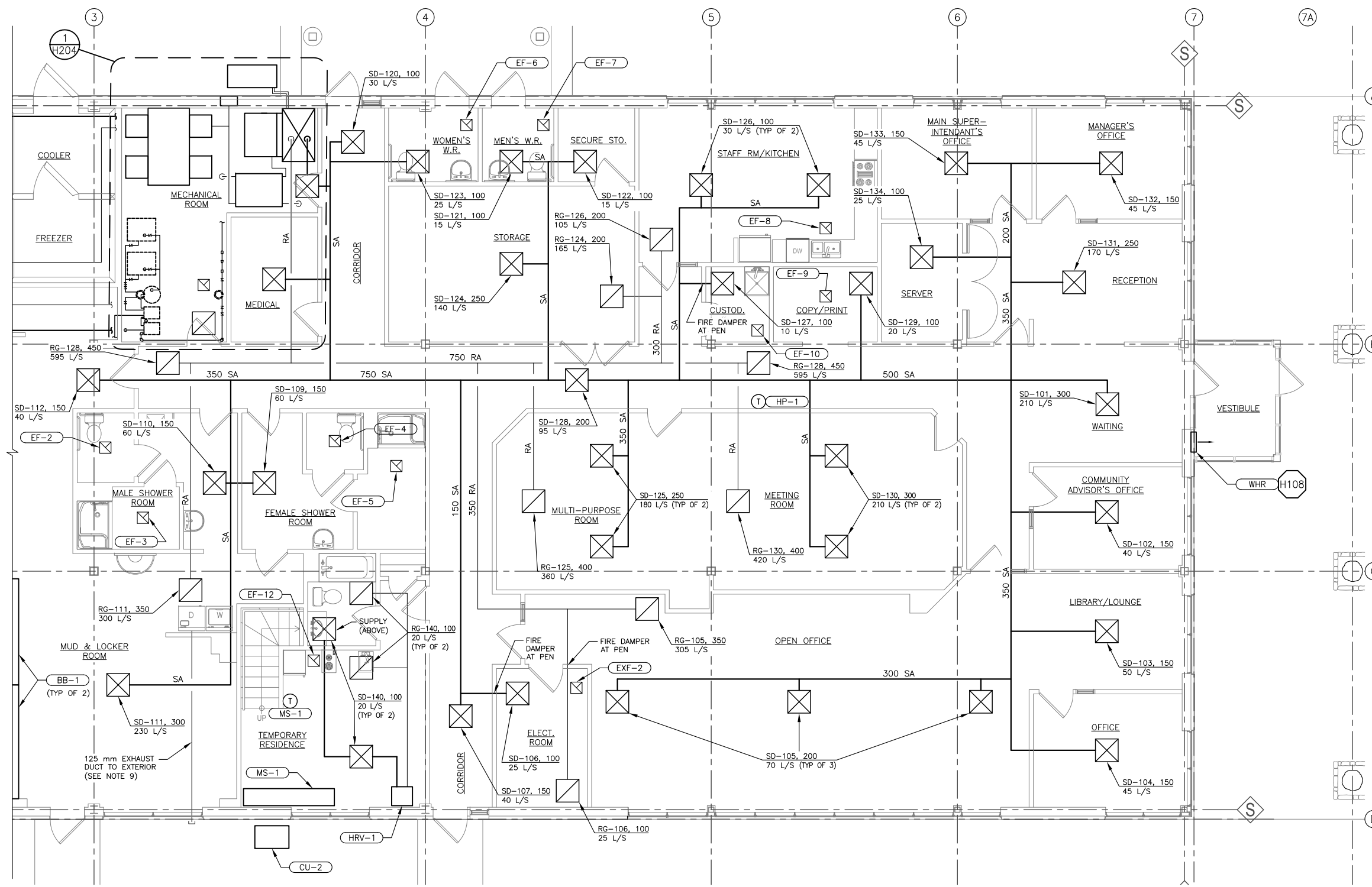



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69	 silk stevens limited DESIGN & CONSULTING ENGINEERS	 McMILLEN JACOBS ASSOCIATES	DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY	SCALE AS SHOWN
			DRAWN D.L.		HATCHERY COMPLEX PACKAGE
DWG NO.	DRAWING REFERENCES	NOTES	CHECKED D.S.N.	HATCHERY COMPLEX HVAC KEY PLAN	
			RECOMMENDED		REVISION
			APPROVED M.C.R.		
			APPROVED		
			NO.	DATE	REVISIONS

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_H201.DWG

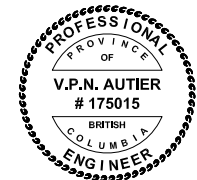
PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS\CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_H202.DWG



- SHEET NOTES:**
- CONTRACTOR SHALL COORDINATE ALL FINAL EQUIPMENT LOCATIONS AND PENETRATIONS WITHIN THE SCOPE OF THIS PROJECT. EXHAUST AIR OUTLETS MUST BE A MINIMUM OF 4500 mm AWAY FROM OUTSIDE AIR INTAKE LOCATIONS.
 - ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTS TO BE INSULATED PER 2009 IECC.
 - ALL EXHAUST AIR AND EXHAUST FAN DISCHARGES SHALL BE ROUTED UP TO CLOSEST BUILDING CUPOLA.
 - ALL DUCTING SHALL BE GALVANIZED STEEL UNLESS NOTE OTHERWISE.
 - ALL DUCTING SHALL BE CEILING INSTALLED ABOVE FALSE CEILING UNLESS NOTED OTHERWISE.
 - ALL DUCT SIZES SHOWN SHALL BE THE NET INSIDE CLEAR DIMENSION.
 - ALL THERMOSTATS SHALL HAVE A DIGITAL DISPLAY AND CODED ACCESS.
 - ALL DUCTING IN TEMP RESIDENCE SHALL BE APPEARANCE-GRADE EXPOSED ROUND DUCT.
 - DRYER EXHAUST DUCT SHALL BE 125 mm ROUND SMOOTH DUCT ROUTED IN THE SHORTEST PATH, WITH MINIMAL BENDS, TO EXTERIOR. PROVIDE WITH DRYER MANUFACTURER'S BOOSTER FAN.

- LEGEND:**
- (T) THERMOSTAT LOCATION
 - ⊗ SUPPLY DIFFUSER
 - ⊠ RETURN DIFFUSER
 - ⊞ EXHAUST FAN
 - SA SUPPLY AIR
 - RA RETURN AIR
 - ▭ TRANSFER GRILL
 - ▬ WALL HEATER

HATCHERY COMPLEX HVAC PARTIAL PLAN
SCALE: 1=60

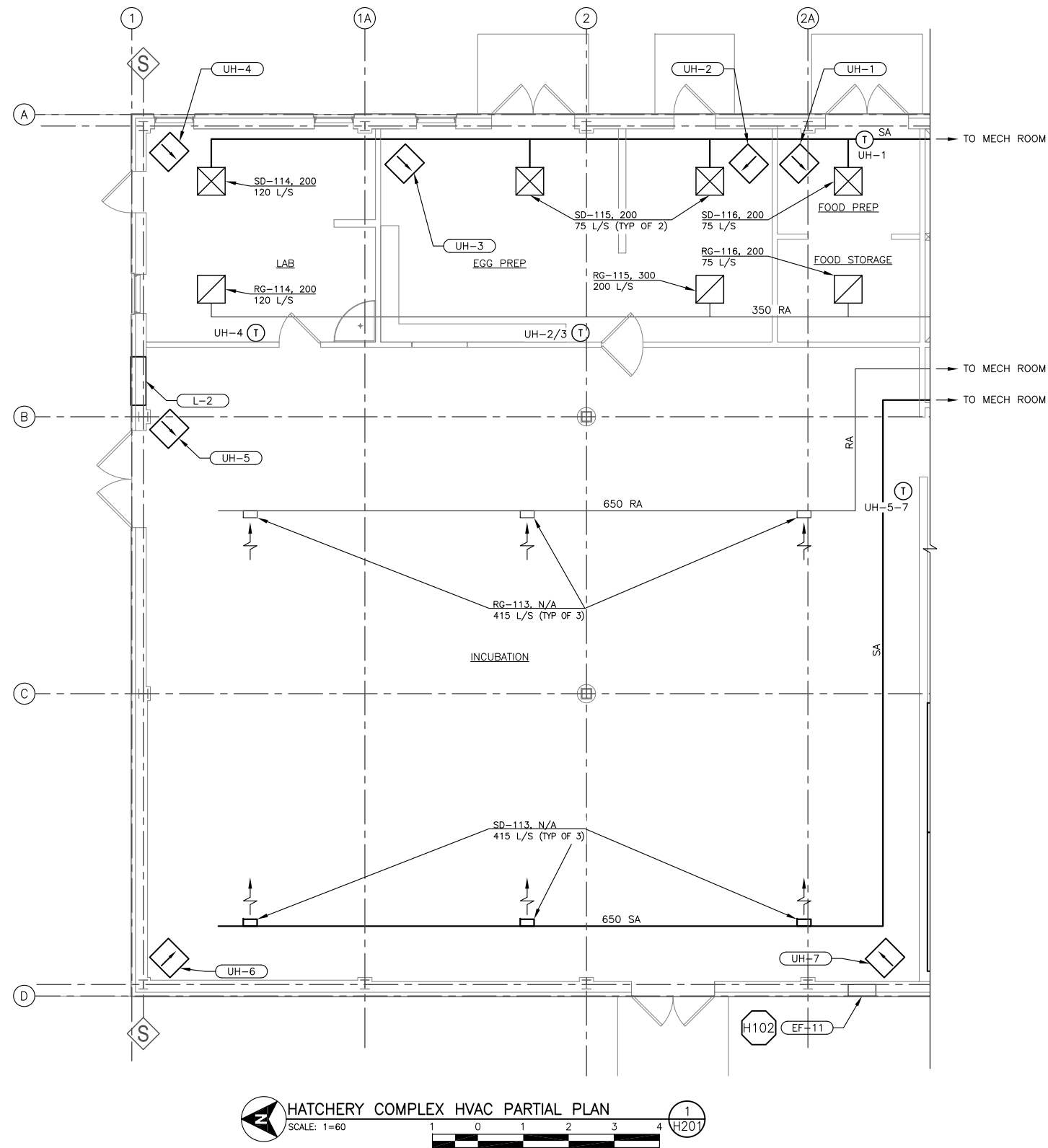


FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

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			DRAWN D.L. CHECKED D.S.N. RECOMMENDED APPROVED M.C.R. APPROVED		
DWG NO.	DRAWING REFERENCES	NOTES			

<p>SNOOTLI CREEK HATCHERY</p> <p>HATCHERY COMPLEX PACKAGE</p> <p>ENLARGED HVAC PLAN 1</p>		SCALE AS SHOWN
		DATE 2015-10-20
		DRAWING NUMBER H-202
		REVISION

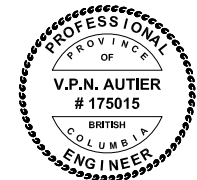
PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS CANADA\SNOOTLI CREEK HATCHERY\COMPLEX PACKAGE\HC_H203.DWG



- SHEET NOTES:**
1. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTS TO BE INSULATED PER 2009 IECC.
 2. ALL THERMOSTATS SHALL HAVE A DIGITAL DISPLAY AND CODED ACCESS.
 3. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
 4. ALL DUCTING SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE.

- LEGEND:**
- T THERMOSTAT LOCATION
 - X SUPPLY DIFFUSER
 - RETURN DIFFUSER
 - EXHAUST FAN
 - SA SUPPLY AIR
 - RA RETURN AIR
 - TRANSFER GRILL
 - UNIT HEATER

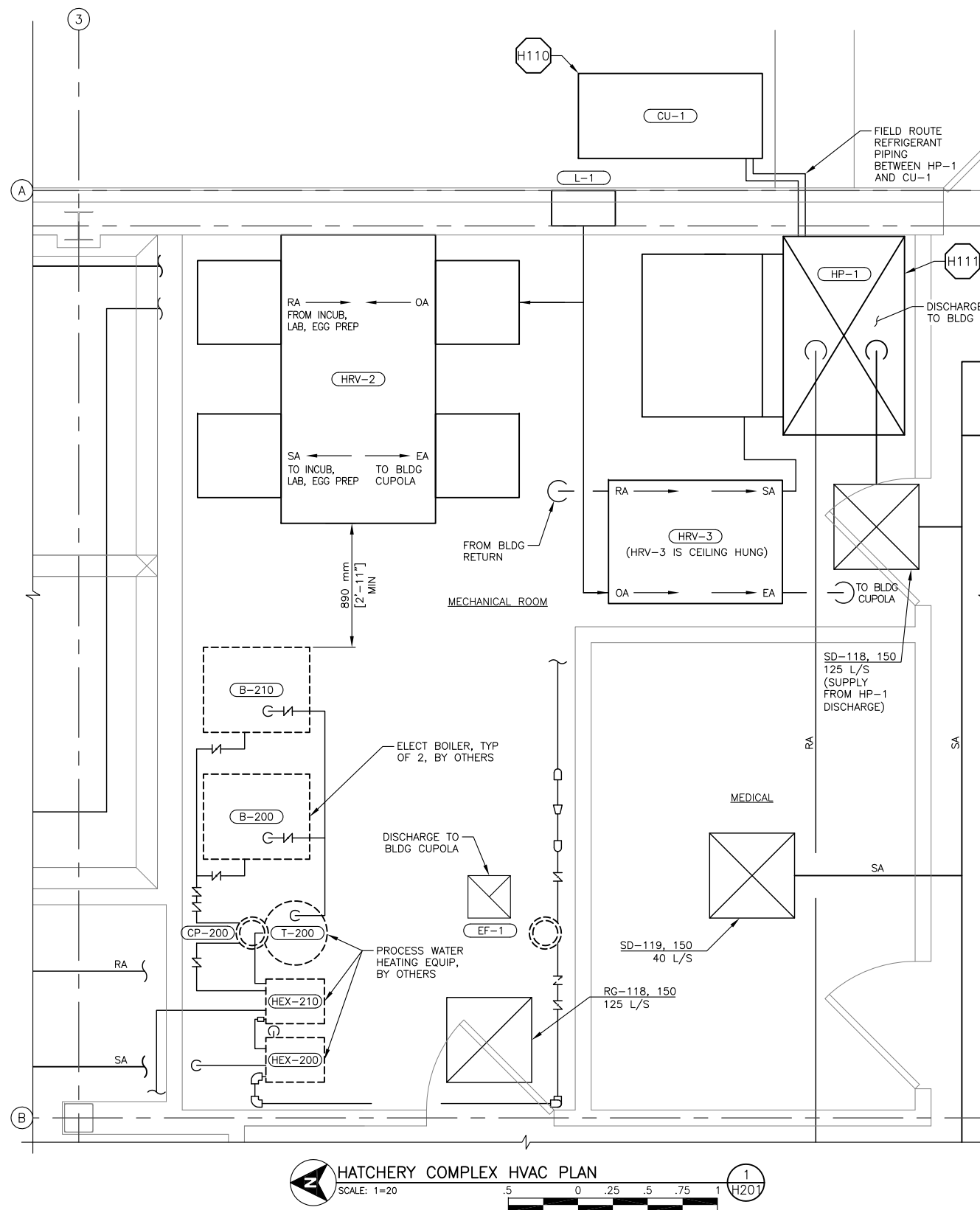
HATCHERY COMPLEX HVAC PARTIAL PLAN
SCALE: 1=60



FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

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			DRAWN D.L.		HATCHERY COMPLEX PACKAGE
DWG NO.	DRAWING REFERENCES	NOTES	CHECKED D.S.N.	ENLARGED HVAC PLAN 2	
			RECOMMENDED		
			APPROVED M.C.R.		
			APPROVED		
			NO.	DATE	REVISIONS
			01	2015-10-20	ISSUED FOR TENDER

PRINT DATE: 2015-10-26 X:\FISHERIES & OCEANS\CANADA\SNOOTLI CREEK HATCHERY\CAD\HATCHERY COMPLEX PACKAGE\HC_H204.DWG



- SHEET NOTES:**
1. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTS TO BE INSULATED PER 2009 IECC.
 2. ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
 3. ALL DUCTING SHALL BE GALVANIZED STEEL UNLESS NOTED OTHERWISE.
 4. EQUIPMENT LAYOUT SHALL BE FIELD ADJUSTED TO ACCOMMODATE FINAL EQUIPMENT SELECTIONS. ALL MANUF MIN ACCESS CLEARANCES SHALL BE MAINTAINED.
 5. ALL EXHAUST AIR AND EXHAUST FAN DISCHARGES SHALL BE ROUTED UP TO CLOSEST BUILDING CUPOLA.

- LEGEND:**
- T THERMOSTAT LOCATION
 - X SUPPLY DIFFUSER
 - RETURN DIFFUSER
 - EXHAUST FAN
 - SA SUPPLY AIR
 - RA RETURN AIR
 - TRANSFER GRILL

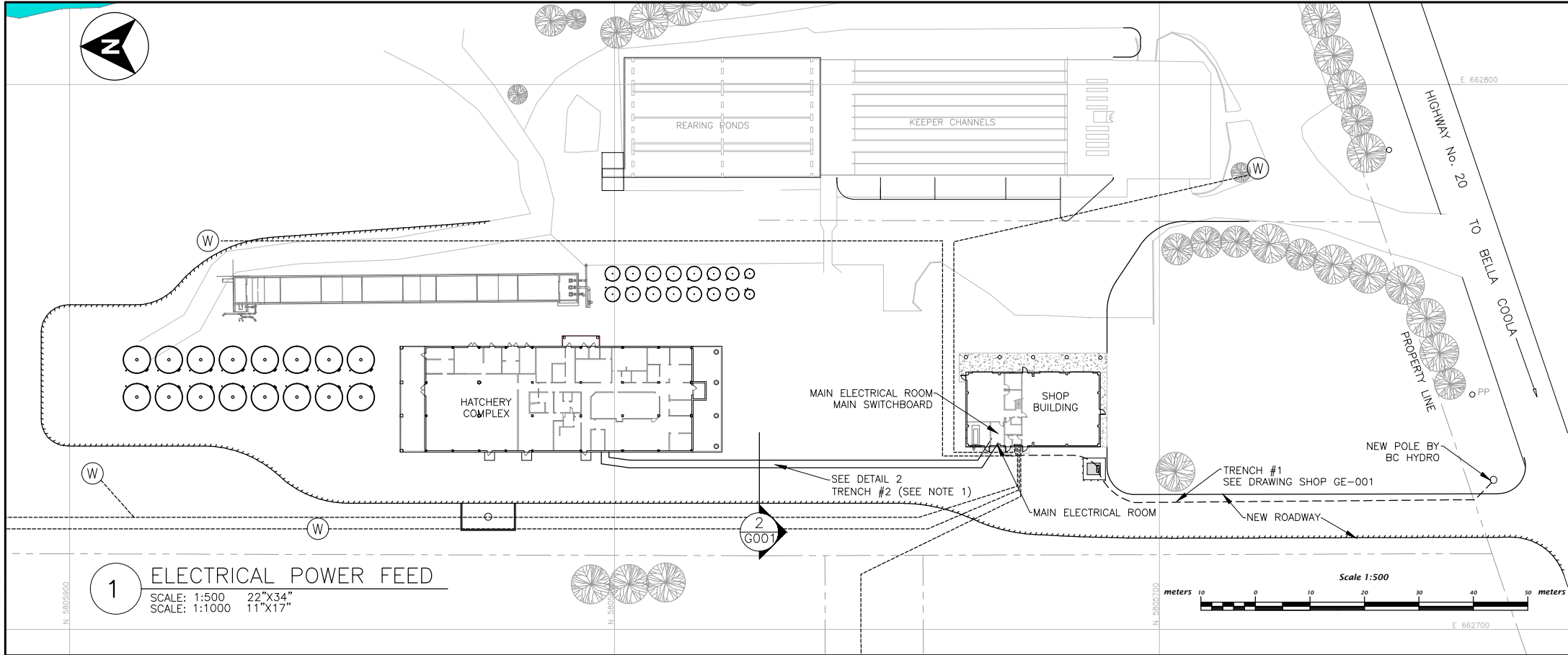
HATCHERY COMPLEX HVAC PLAN
 SCALE: 1=20
 1 H204



FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

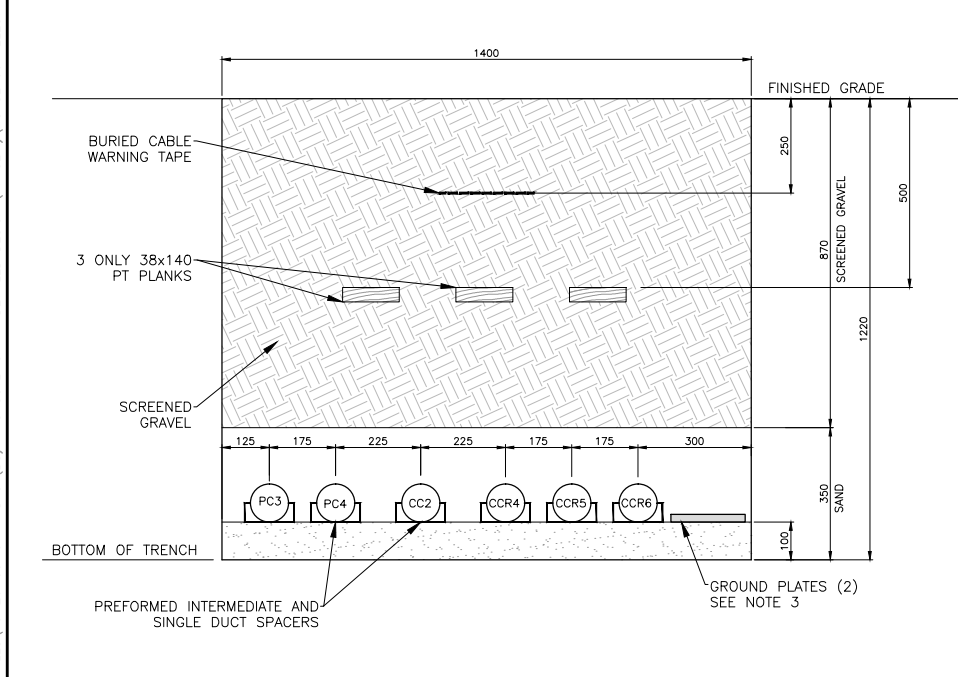
72	silk stevens limited DESIGN & CONSULTING ENGINEERS	McMILLEN JACOBS ASSOCIATES	DESIGNED M.C.R./O.S.D.	SNOOTLI CREEK HATCHERY	SCALE AS SHOWN
			DRAWN D.L.		DATE 2015-10-20
DWG NO.	DRAWING REFERENCES	NOTES	CHECKED D.S.N.	HATCHERY COMPLEX PACKAGE	DRAWING NUMBER H-204
			RECOMMENDED		REVISION
			APPROVED M.C.R.	ENLARGED HVAC PLAN 3	
			APPROVED		
			NO. DATE	ISSUED FOR TENDER	
				REVISIONS	

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007-01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC GE 001 ELECTRICAL POWER FEED 2015.09.14.DWG

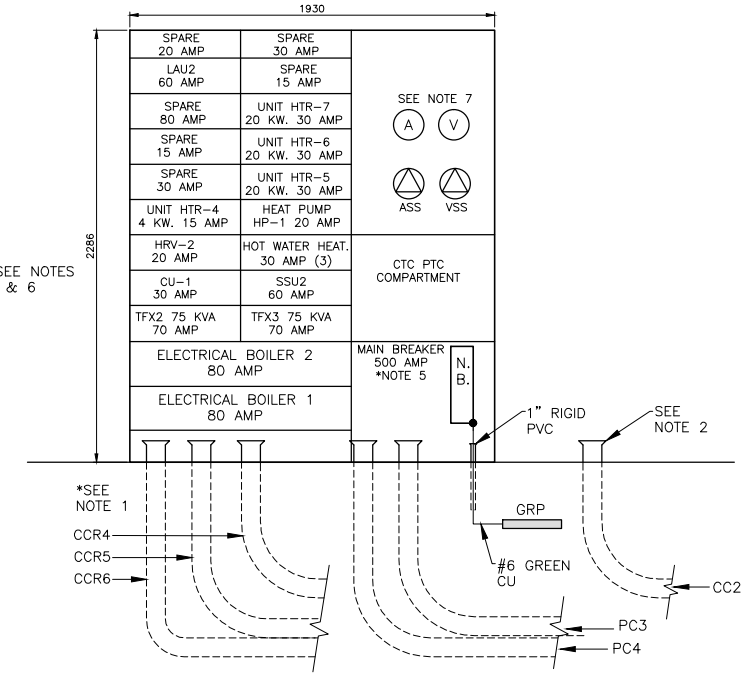


LEGEND	
SYMBOL	DESCRIPTION
PC3, PC4	100mm RIGID PVC CONDUIT EACH CONTAINING 3 ONLY 300 MCM AND 1 ONLY 4/0 NEUTRAL COPPER OR IN ALUMINUM NUAL MAY USE 3 ONLY 500 MCM AND 1 ONLY 350 MCM NEUTRAL, ALL TYPE RWU CONDUCTORS.
CC2	100mm RIGID PVC FOR COMMUNICATION CABLE(S). CONTRACTOR MUST PULL A 6mm NYLON ROPE IN THIS CONDUIT TO BE LEFT FOR COMMUNICATIONS PERSONNEL.
CCR4 CCR5 & CCR6	100mm RIGID PVC FOR FUTURE USE OF CABLE SUCH AS TECK. THESE CONDUIT TERMINATE AND CAPPED 3.05M FROM BUILDING.
GRP	GROUND PLATE BRONZE STEEL APPROX. 250mm x 250mm x 16mm.
SSB2	SUBSWITCHBOARD 2 - 600/347 VOLT 3 PHASE 4 WIRE 50000 AMP BUS BRACING AND DRIPSHIELD HOOD. C/W AMMETER AND VOLTMETER TO MEASURE ALL PHASES AND VOLTAGE TO GROUND. MAIN BREAKER RATED 100%. ALL OTHER BREAKERS RATED 80%.
CTC/PTC	CURRENT AND POTENTIAL TRANSFORMERS CUSTOMER OWNED.
N.B.	NEUTRAL BLOCK
AM AND ASS	AMMETER C/W AMMETER SELECTOR SWITCH 3 POSITION PLUS OFF, * NOTE 7.
VM AND VSS	VOLTMETER C/W VOLTMETER SELECTOR SWITCH 4 POSITION PLUS OFF AMMETER AND VOLTMETER ARE CUSTOMER OWNED. * NOTE 7.
TXF2, TXF3	TRANSFORMERS 2 & 3 75KVA INPUT 600 VOLT 3 PHASE 3 WIRE. OUTPUT: 208/120 VOLT 3 PHASE 4 WIRE MUST HAVE COPPER WINDINGS C/W DRIPSHIELD. SIDE ENTRY ONLY.
LAU2	LIGHTNING ARRESTOR UNIT, 600 VOLT 3 PHASE 4 WIRE 60 AMP.
SSU2	SURGE SUPPRESSOR UNIT 600 VOLT 3 PHASE 4 WIRE 60 AMP.

- NOTES**
- CCR4, CCR5 & CCR6 TO TERMINATE 3.05M. FROM BUILDING AND CAPPED. THEY ARE FOR FUTURE USE TO CONTAIN TECK CABLE ETC. TO FIELD DEVICES.
 - CC2 EMERGES FROM FLOOR BENEATH TELECOMMUNICATIONS PANEL SEE GE-002.
 - IN LIEU OF GROUND PLATES, GROUND RODS 3.05M x 19mm MAY BE USED. CHECK TO GET APPROVAL FROM LOCAL AUTHORITY.
 - SEE MATERIALS SPECIFICATIONS SHEET FOR DETAILED DESCRIPTION OF MATERIAL AND INSTALLATION OF SAME.
 - ALL BREAKERS TO BE RATED MINIMUM OF 22 KAIC EXCEPT MAIN BREAKER WHICH IS RATED 25 KAIC. WITH PADMOUNT TRANSFORMER OF 750 KVA AND A MINIMUM IMPEDANCE OF 4% THE AVAILABLE FAULT CURRENT. (KAIC) WILL BE 18,064. ALL BREAKERS RATED AT LEAST 22 KAIC FOR A FULLY RATED SYSTEM. WHILE MAIN BREAKER MAY BE RATED FOR 600 AMP, IT SHOULD BE SET TO TRIP AT 500 AMP.
 - AFTER COMPLETION OF PROJECT, THE POWER FACTOR (PF) SHOULD BE MEASURED AT MAIN SWITCH IN SHOP BUILDING. IF PF IS BELOW 90% THEN A CAPACITOR OF APPROPRIATE SIZE SHOULD BE ADDED AT SSB2. MEASUREMENT SHOULD TAKE PLACE AT OR NEAR FULL LOAD CONDITIONS.
 - IN LIEU OF AMMETER/VOLTMETER/SELECTOR SWITCHES CONTRACTOR MAY SUBSTITUTE ELECTRONIC METER THAT MEASURES VOLTS/AMPS/KWH CONSUMPTION/KW DEMAND AND POWER FACTOR.



2 TRENCH #2 SUB FEED TO HATCHERY BLDG.
 SCALE: 1:10 22"x34"
 SCALE: 1:20 11"x17"

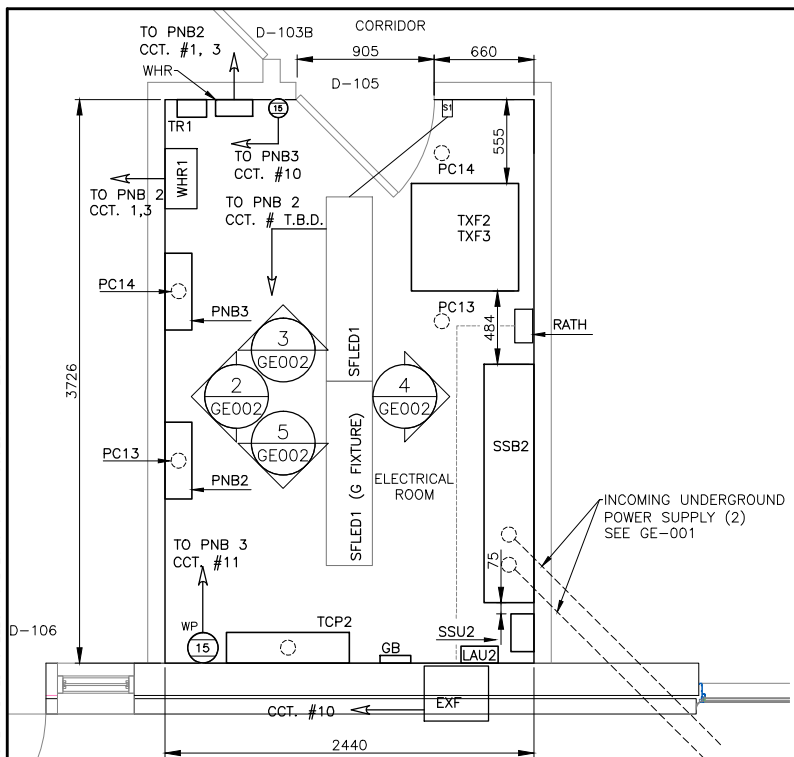


3 SUB SWITCHBOARD #2 (SSB2) LAYOUT
 SCALE: 1:20 22"x34"
 SCALE: 1:40 11"x17"

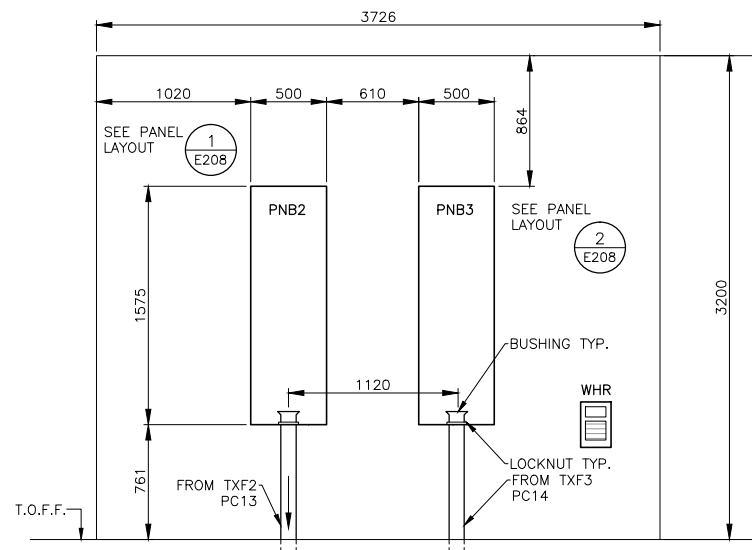


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			<p>SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE ELECTRICAL POWER FEED</p>		<p>DATE 2015-10-20</p>	<p>DRAWING NUMBER GE-001</p>	
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	ISSUED FOR TENDER	REVISIONS	REVISION

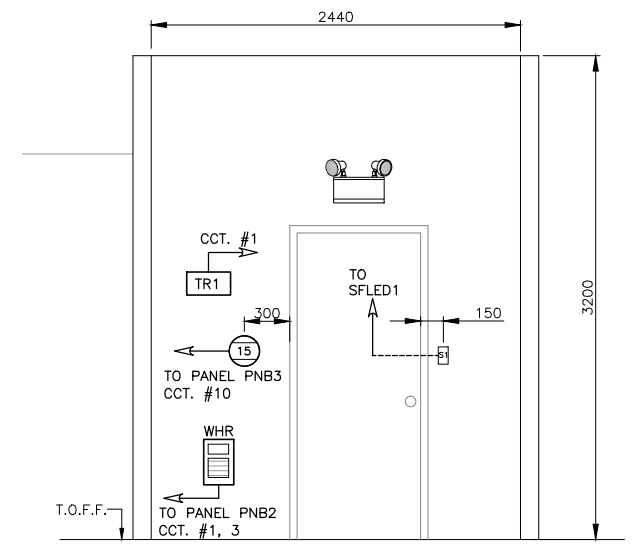
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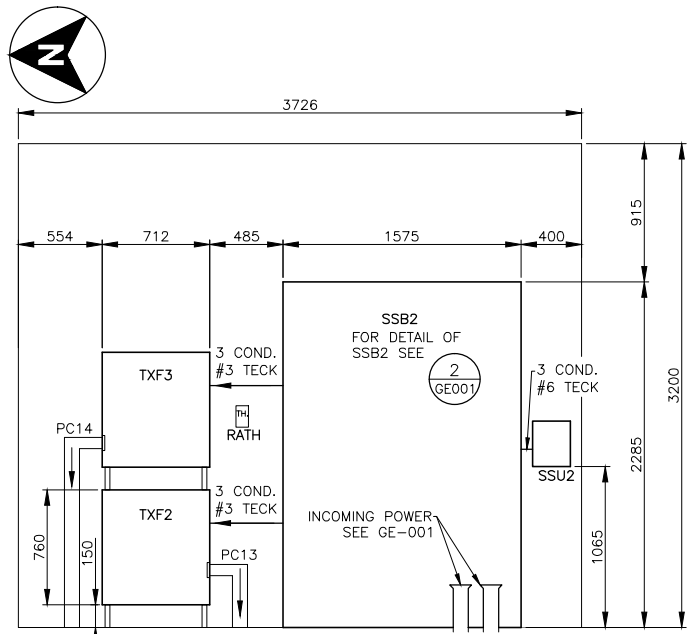
1 ELECTRICAL ROOM LAYOUT
 SCALE: 1:25 22"X34"
 SCALE: 1:50 11"X17"



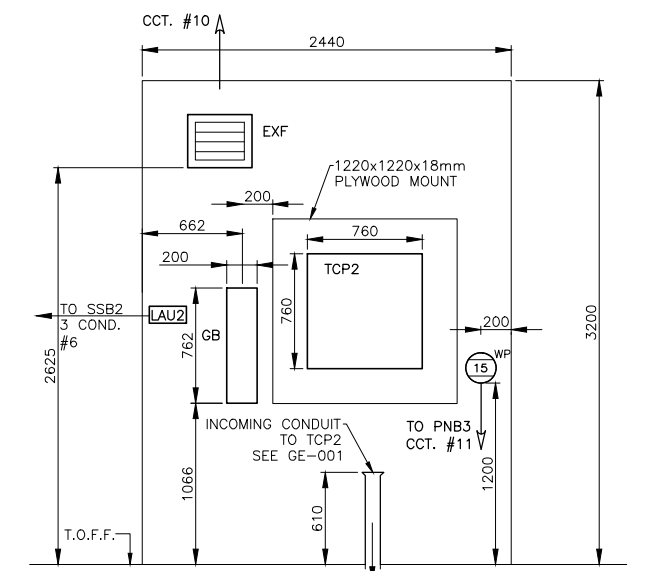
2 NORTH WALL ELECTRICAL ROOM
 SCALE: 1:25 22"X34"
 SCALE: 1:50 11"X17"



3 EAST WALL ELECTRICAL ROOM
 SCALE: 1:25 22"X34"
 SCALE: 1:50 11"X17"



4 SOUTH WALL ELECTRICAL ROOM
 SCALE: 1:25 22"X34"
 SCALE: 1:50 11"X17"



5 WEST WALL ELECTRICAL ROOM
 SCALE: 1:25 22"X34"
 SCALE: 1:50 11"X17"

LEGEND	
SYMBOL	DESCRIPTION
SSB2	SUBSWITCHBOARD 2 - 600/347 VOLT 3 PHASE 4 WIRE 50000 AMP BUS BRACING AND DRIPSHIELD HOOD. C/W 500 AMP MAIN BREAKER, AMMETER AND VOLTMETER TO MEASURE ALL PHASES AND VOLTAGE TO GROUND.
TCP2	TELECOMMUNICATIONS PANEL 2 C/W 1220mm x 1220mm x 18mm PLYWOOD MOUNT. SEE NOTE 6.
TFX2, TFX3	TRANSFORMERS 2 & 3 75 KVA INPUT 600 VOLT 3 PHASE 3 WIRE. OUTPUT: 208/120 VOLT 3 PHASE 4 WIRE. MUST HAVE COPPER WINDINGS C/W DRIPSHIELD. SIDE ENTRY ONLY.
PNB2, PNB3	PANEL BOARDS 2 & 3 225 AMP 208/120 VOLTS 3 PHASE 4 WIRE 78 CIRCUIT MIN. CAPACITY C/W 225 AMP MAIN BREAKER RATED 22 KAIC. SEE NOTE 5 ON PRINT GE-001.
GB	GROUND BUS COPPER APPROX. 762mm x 200mm x 3mm 100 AMP RATING.
KAIC	AMP INTERRUPTING CAPACITY IN 000'S.
T.B.D.	TO BE DETERMINED.
SSU2	SURGE SUPPRESSOR UNIT 600 VOLT 3 PHASE 4 WIRE 600/347 VOLT 60 AMP. 320 K AMPS PEAK CAPACITY, 200 K AMPS SHORT CIRCUIT PROTECTION C/W DISCONNECT AND SURGE COUNTER. BOLT DOWN REPLACEABLE MODULES AND LED/ALARM STATUS INDICATORS WILL COME WITH 3 SPARE MODULES. CLAMPING VOLTAGE TO BE 2000 VOLTS.
AM	VOLTMETER C/W VOLTMETER SELECTOR SWITCH 3 POSITION PLUS OFF AMMETER AND VOLTMETER ARE CUSTOMER OWNED.
VM	VOLTMETER C/W VOLTMETER SELECTOR SWITCH 4 POSITION PLUS OFF AMMETER AND VOLTMETER ARE CUSTOMER OWNED.
T.O.F.F.	TOP OF FINISH FLOOR.
PC13, PC14	100mm RIGID PVC CONDUIT EACH CONTAINING THE FOLLOWING: 3 - ONLY "HOT" CONDUCTORS, BLACK RW90 4/0 CU OR 300 MCM ALUMINUM AND 1 - ONLY NEUTRAL CONDUCTOR WHITE RW90 2/0 OR 4/0 ALUMINUM AND 1 - ONLY BARE OR GREEN BOND #4 CU OR #2 ALUMINUM.
Ⓜ15	DUPLEX RECEPTACLE, 15 AMP 125 VOLT.
EXL	EXIT LIGHT C/W 2 HEADS 90 MIN. RATING 120 VOLTS.
S1	SINGLE POLE SWITCH RATED 15 AMP 120 VOLTS
SFLED1	SURFACE LED 2 LAMP FIXTURE 1220mm L. APPROX 15 WATTS PER LAMP. (SAME AS "G" FIXTURE")
TR1	TIMER CONTROL FOR OUTSIDE LIGHTS 120 VAC.
EXF	EXHAUST FAN 120 VOLT 1350 RPM 1/15 HP.
RATH	REVERSE ACTING THERMOSTAT CLOSES AT 75' 120 VOLT 15 AMP 1 POLE. CONTROLS EXF.
WHR	WALL HEATER 208 VOLT 2 WIRE 1 PH. 1.5 KW C/W BUILT IN THERMOSTAT.
LAU2	LIGHTNING ARRESTER 600 VOLTS 3 PH. 4 WIRE 60 AMP.

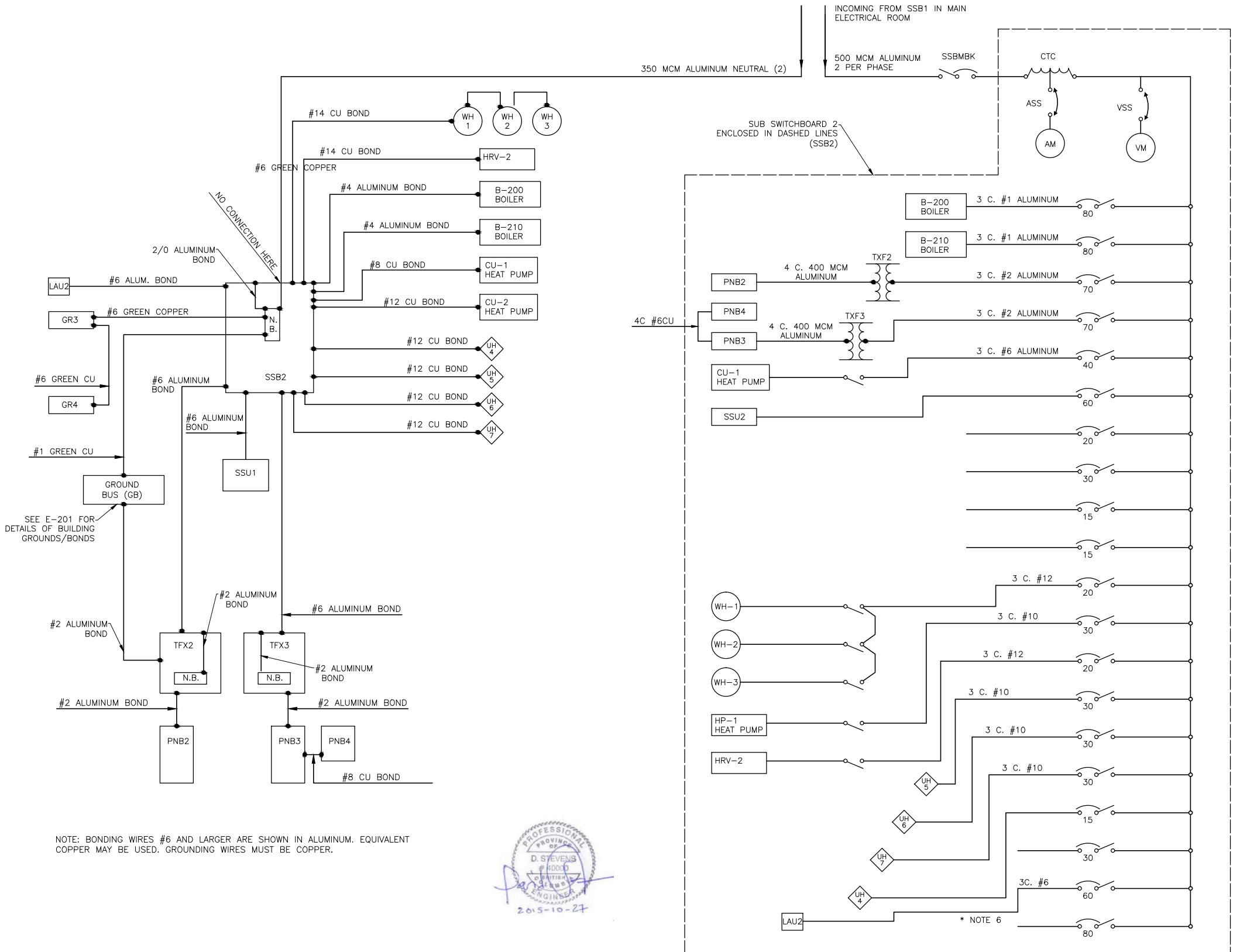
- NOTES**
- DIMENSIONS GIVEN FOR DEVICES ARE APPROX. ONLY. CONTRACTOR TO DETERMINE EXACT SIZES.
 - RATING OF 600 VOLT BREAKERS TO BE ALL RATED 22 KAIC AND BE LABELED AS SUCH. 208/240 VOLT BREAKERS TO BE RATED AS SHOWN ON PANEL LAYOUTS. SEE NOTE 5 ON PRINT GE-001.
 - DETAIL OF WIRE SIZES ARE SHOWN ON GE-003.
 - ENTRY INTO TFX2, TFX3 TO BE SIDE ENTRY ONLY. TOP ENTRY IN SSB2 TO USE SEALING RINGS AND WATER TIGHT CONNECTORS IN ORDER TO MAINTAIN DRIPSHIELD INTEGRITY.
 - SEE MATERIALS SPECIFICATIONS SHEETS FOR DETAILS DESCRIPTION OF MATERIAL AND INSTALLATION OF SAME.
 - ELECTRICAL CONTRACTOR TO SUPPLY PLYWOOD AND MOUNT SAME AS WELL AS SUPPLY/MOUNT TELECOM PANEL AS PER LOCAL UTILITY SPECS.



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					<p>SNOOTLI CREEK HATCHERY</p> <p>HATCHERY COMPLEX PACKAGE</p> <p>ELECTRICAL ROOM LAYOUT</p>	
					<p>SCALE AS SHOWN</p> <p>DATE 2015-10-20</p> <p>DRAWING NUMBER GE-002</p>	
					<p>REVISION</p>	
					<p>DWG. NO. DRAWING REFERENCES NOTES</p>	

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007-01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC GE-002 TO GE-003 & E200 TO E210 HATCHERY BUILDING ELECTRICAL_2015_09_14_ISSUED FOR TENDER.DWG



LEGEND	
SYMBOL	DESCRIPTION
SSBMBK	HATCHERY SUB SWITCHBOARD MAIN BREAKER 500 AMP RATED FOR 100 % LOAD AND 25 KAMPS INTERRUPTING CAPACITY. SEE NOTE 5.
CTC	CUSTOMER OWNED CURRENT TRANSFORMER.
ASS	4 POSITION AMPS SELECTOR SWITCH MEASURE 3 PHASES PLUS OFF POSITION.
AM	AMMETER HAS SCALE ANALOG OF 0 TO 600 OR MAY BE DIGITAL TYPE.
VSS	VOLTMETER SELECTOR SWITCH 5 POSITION MEASURES ALL 3 PHASES PLUS VOLTAGE. TO BE GROUND AND HAS OFF POSITION, MAY BE ANALOG OR DIGITAL.
	CIRCUIT BREAKER SWITCH AMP RATING AS INDICATED.
B-200, B-210	ELECTRIC BOILERS 600 VOLT 3 PHASE, 52-60 KW. 70-80 AMPS, 100 AMP MAIN BREAKER SEE NOTE 4.
TFX2, TFX3	TRANSFORMER 75KVA INPUT 600 VOLT 3 PHASE 3 WIRE OUTPUT 208/120 VOLT 3 PHASE 4 WIRE C/W DRIPSHIELD COPPER WINDINGS AND SIDE ENTRY ONLY.
PNB2, PNB3	PANELBOARDS 2 & 3 208/120 VOLT 3 PHASE 4 WIRE BREAKER PANEL C/W MINIMUM OF 78 SPACES AND 225 AMP MAIN BREAKER RATED 22 KAIC.
CU-1	HEAT PUMP 575 VOLTS 3 PHASE 4 WIRE 24 AMPS, MAX. CURRENT, SUPPLIED BY OTHERS.
NFDS1	NON-FUSIBLE SAFETY DISCONNECT SWITCH RATED 600 VOLTS 3 PHASE 3 WIRE 60 AMP RATED TYPE 3R ENCLOSURE.
NFDS2-6	NON FUSIBLE SAFETY DISCONNECT SWITCHES RATED 600 VOLTS, 3 PH. 3 WIRE 30 AMP TYPE 1 ENCLOSURE.
SSU2	SURGE SUPPRESSOR UNIT 2 RATED 600 VOLT 3 PHASE 3 WIRE 60 AMP. SEE DESCRIPTION GE-002.
MS1-MS4	MANUAL MOTOR STARTERS, CONSISTING OR STARTER AND ENCLOSURE RATED EEMAC 4 (IP65) FIBREGLASS ENCLOSURE. SIZE TO HP MUST BE LOCKABLE IN OFF POSITION.
OLR	OVERLOAD RELAY BUILT INTO MANUAL MOTOR STARTER.
T.B.D.	TO BE DETERMINED.
PMP1-PMP4	PUMPS 1 TO 4 SIZE HP ETC TO BE DETERMINED.
HP	HORSE POWER.
SSB2	SUB SWITCHBOARD 2 C/W 600 AMP MAIN BREAKER 600 VOLT 3 PHASE 4 WIRE 50 KAMP BUS BRACING, SEE GE-001 FOR MORE DETAIL. * NOTE 6.
N.B.	NEUTRAL BLOCK.
GR3, GR4	GROUND PLATE BRONZE STEEL APPROX. 250mm x 250mm x 16mm. CONTRACTOR MAY SUBSTITUTE GROUND 3.05M L. x 20mm Ø RODS IF LOCAL INSPECTION AUTHORITY APPROVES.
GB	GROUND BUS COPPER MINIMUM OF 100 AMP RATING.
WH1-WH3	ELECTRIC WATER HEATERS, 600 VOLT 3 PH., 3 WIRE 4.5 KW. EACH, 13.5 AMPS. - SEE E-204 FOR CAPACITY.
HP-1	AIR SOURCE HEAT PUMP, MECHANICAL ROOM, 575 VOLT 3 PH. 3 WIRE, 16 AMP.
HRV-2	HEAT RECOVERY VENTILATOR 2, MECHANICAL ROOM 575 VOLT 3 PH. 3 WIRE 10.6 AMPS.
UH4	UNIT HEATER, LAB 4 KW. 575 V. 3 PH. 3 WIRE.
UH5-7	UNIT HEATERS, INCUBATION 20 KW. EA., 575 VOLT 3 PH. 3 WIRE.
LAU2	LIGHTNING ARRESTER UNIT - 600 VOLT 3 PH. 4 WIRE 60 AMP.
PNB4	208/120 VOLT 3 PH. 4 WIRE BREAKER PANEL C/W MIN. OF 12 SPACES AND 60 AMP MAIN LUGS - SAME KAIC AS PNB3

- NOTES**
- UNLESS INDICATED OTHERWISE WIRE TO BE COPPER (CU). SEE MATERIALS SPEC. SHEET FOR DETAILED DESCRIPTION OF MATERIALS. SEE MASTER SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION ON MATERIAL AND INFORMATION ON THE INSTALLATION OF MATERIALS.
 - KEEP SURGE SUPPRESSOR POWER FEEDS AS SHORT AS POSSIBLE AND IN NO CASE LONGER THAN 7.0M. SERVES ALSO AS LIGHTNING ARRESTOR.
 - GROUNDING AND BONDING WIRES MUST BE 75' C. RATED
 - MANUAL STARTERS MS1-MS4 AND NFDS1 MUST BE LOCATED WITHIN 7.0M AND SIGHT OF THE PUMPS THAT THEY CONTROL AND READILY ACCESSIBLE. ALSO IF A SAFETY DISCONNECT IS NOT PROVIDED BY MANUFACTURER OF ELECTRIC BOILERS, B-200 AND B-210, THEN A NON-FUSIBLE 200 AMP DISCONNECT WILL HAVE TO BE PROVIDED FOR EACH.
 - ALL 600 VOLT BREAKERS RATED 22 KAIC. WHILE MAIN BREAKER SSBMBK MAY BE RATED AT 600 AMP, IT SHOULD BE SET TO TRIP AT 500 AMP.
 - AFTER COMPLETION OF PROJECT, THE POWER FACTOR (PF.) SHOULD BE MEASURED AT MAIN SWITCH IN SHOP BUILDING. OF P.F. IS BELOW 90% THEN A CAPACITOR OF APPROPRIATE VALUE SHOULD BE ADDED AT SSB2. MEASUREMENT SHOULD TAKE PLACE AT OR NEAR FULL LOAD CONDITIONS.



FISHERIES AND OCEANS CANADA
REAL PROPERTY AND TECHNICAL SUPPORT

SNOOTLI CREEK HATCHERY

HATCHERY COMPLEX PACKAGE

GENERAL ELECTRICAL SCHEMATIC
INCLUDING GROUNDING AND BONDING

SCALE
AS SHOWN
DATE
2015-10-20
DRAWING NUMBER
GE-003
REVISION

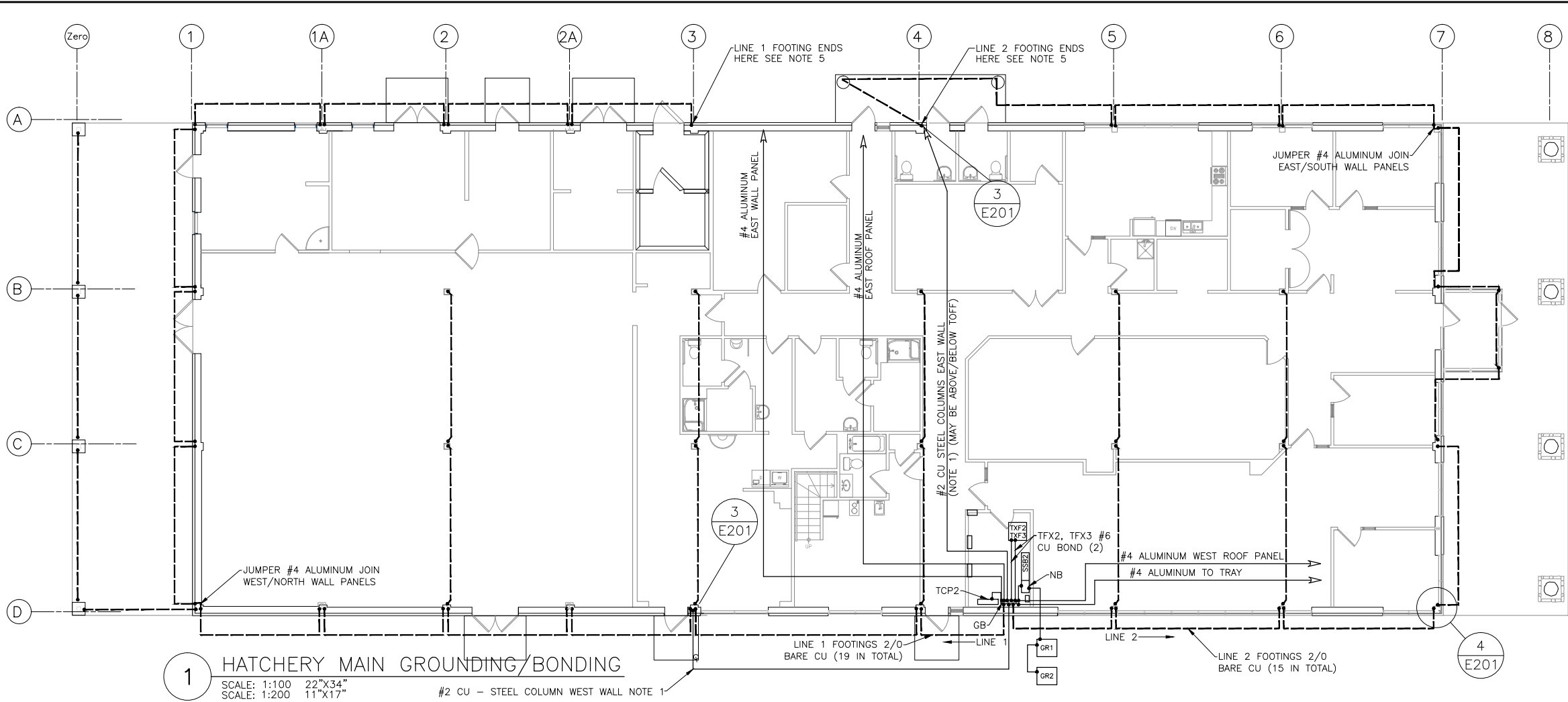
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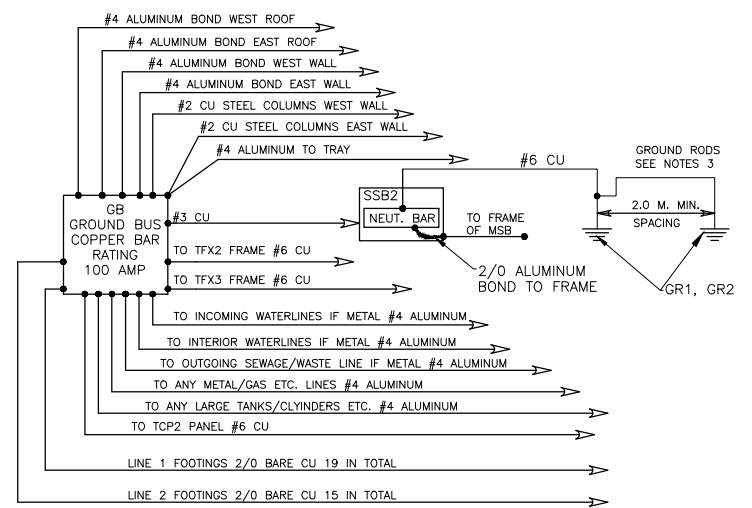
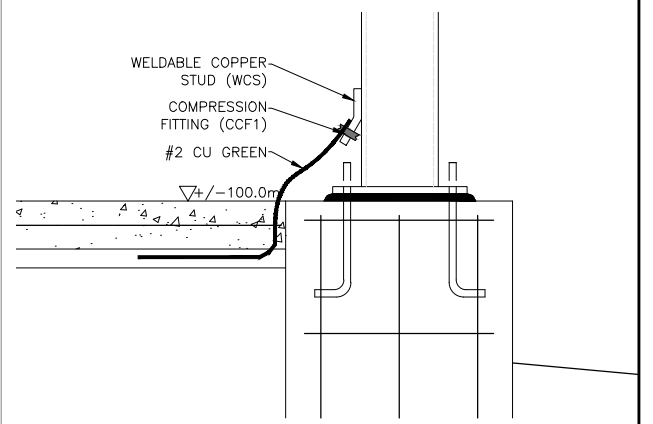
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	ISSUED FOR TENDER	REVISIONS
			01	2015-10-20		

PRINT DATE: 2015-11-06 Z:\ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE 1)\HC GE-002 TO GE-003 & E200 TO E210 HATCHERY BUILDING ELECTRICAL 2015.08.14 ISSUED FOR TENDER.DWG



1 HATCHERY MAIN GROUNDING/BONDING
 SCALE: 1:100 22"x34"
 SCALE: 1:200 11"x17"

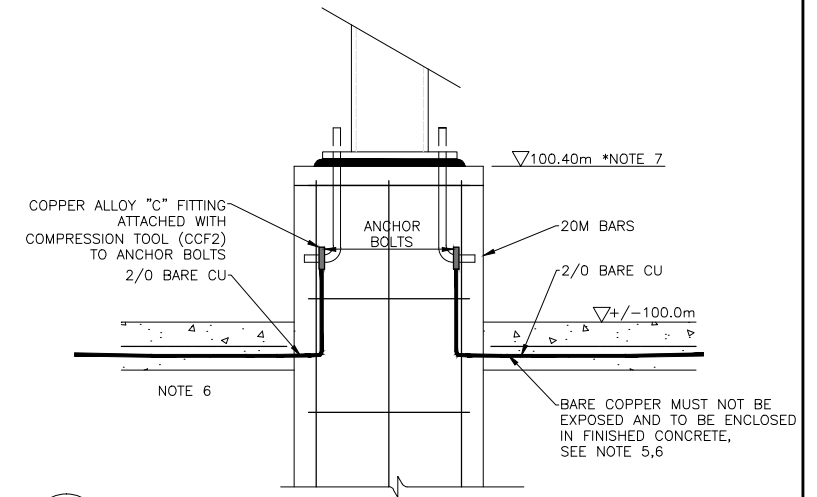
3 BONDING AT COLUMNS A4 & D3
 SCALE: 1:10 11"x17"
 SCALE: 1:20 22"x17"



2 GROUNDING/BONDING SCHEMATIC
 SCALE: 1:20 22"x34"
 SCALE: 1:40 11"x17"

LEGEND	
SYMBOL	DESCRIPTION
GB	GROUND BUS COPPER MINIMUM 100 AMP AMPACITY.
NB	NEUTRAL BLOCK.
CU	COPPER.
TFX2, TFX3	TRANSFORMERS 2 AND 3.
GR	GROUNDING RODS - 18mm Ø 3.05M L. STEEL.
SSB2	SUB SWITCHBOARD 2.
PNB2, PNB3	PANELBOARDS 2 AND 3.
A.F.F.	ABOVE FINISHED FLOOR.
ALUM.	ALUMINUM.
CCF1	COPPER COMPRESSION FITTING TYPE 1 #2 CU TO STUD.
CCF2	COPPER COMPRESSION FITTING TYPE 2 2/0 CU TO REBAR.
WCS	WELDABLE COPPER STUD SIZE TO ACCOMMODATE #2 CU.
TCP2	TELECOMMUNICATIONS PANEL 2 C/W 1220x1220x18 PLYWOOD.
---	BONDING AT FOOTINGS.
→	BONDING AT ANCHOR BOLTS BELOW T.O.F.G.
●	BONDING AT BEAMS ABOVE T.O.F.G.
SSB2	SUB SWITCH BOARD 2 C/W 500 AMP MAIN BREAKER RATED 100% 600/347 VOLT 3PH. 4 WIRE. 50000 AMP BUS BRACING - SEE GE-001 FOR MORE DETAIL.

- NOTES**
- UNLESS NOTED OTHERWISE ALL BONDINGS TO BE #6 COPPER OR #4 ALUMINUM GREEN INSTALLATION, OR BARE WHERE INDICATED. ALL CONNECTORS EXCEPT THOSE AT GROUND BUS TO BE COMPRESSION TYPE, AND INSTALLED WITH AN APPROVED COMPRESSION TOOL. ALL CONNECTIONS FROM CONNECTOR TO STEEL COLUMNS TO BE WELDED VIA A WELDABLE COPPER/BRONZE STUD. SINCE ALL THE STEEL BEAMS ARE INTERCONNECTED VIA BRACES BETWEEN COLUMNS, PURLINS AND JOISTS, THE STEEL COLUMNS ARE ONLY CONNECTED TO THE GROUND BUS ON 2 WALLS, METAL WATER, GAS, AIR ETC. LINES, IF NOT CONTINUOUS MUST HAVE EACH SECTION CONNECTED TO GROUND BUS. BOND WIRE FOR TRAY (#6 CU OR #4 ALUMINUM MUST BE RUN THROUGHOUT TRAY AND CONNECTED EVERY 15.0m UNLESS TRAY IS BOLTED EVERY SECTION (3 OR 6m) TO THE BLDG. FRAME.
 - FOR DETAIL OF GROUNDING/BONDING IN ELECTRICAL ROOM SEE GE-003.
 - GROUND PLATES MAY BE SUBSTITUTED FOR RODS IF HYDRO AND LOCAL INSPECTION AUTHORITY APPROVED.
 - SEE MATERIALS SPECIFICATIONS SHEETS FOR DETAILS DESCRIPTION OF MATERIAL AND INSTALLATION OF SAME.
 - BARE COPPER MAY BE EXPOSED WHERE IT EMERGES IN ELECTRICAL ROOM BUT MUST BE PROTECTED TO 1525mm A.F.F. ALSO BARE COPPER LINES MUST BE OPEN ENDED IE. NOT JOINED.
 - WHERE THERE ARE (3) BARE COPPER LINES AT A COLUMN, THEN 2 OF THE LINES WILL FASTEN TO THE SAME ANCHOR BOLT OR ATTACH TWO OF THE COPPER LINES TOGETHER.
 - COLUMN HEIGHT AND THUS ANCHOR BOLT HEIGHTS WILL VARY AT COLUMNS IN ④.



4 BONDING AT ALL OTHER COLUMNS
 SCALE: 1:10 22"x34"
 SCALE: 1:20 11"x17"

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 DWG. NO. DRAWING REFERENCES

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NOTES

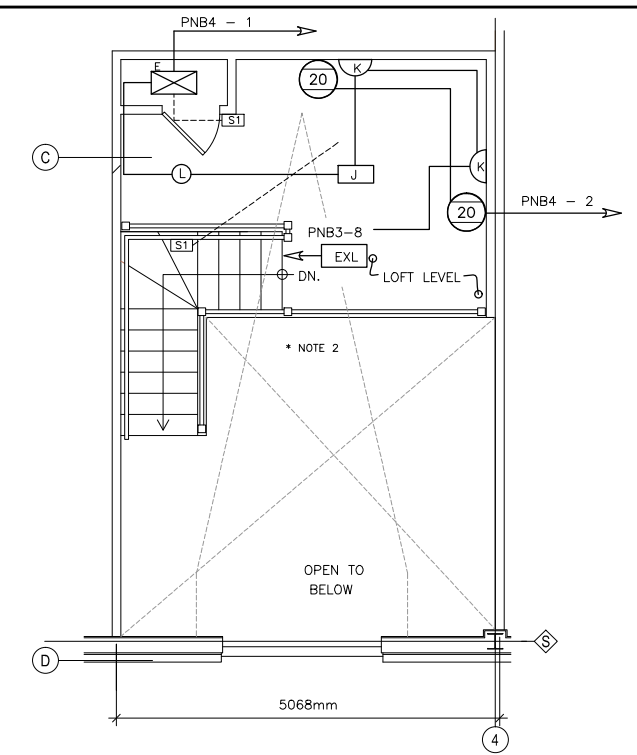
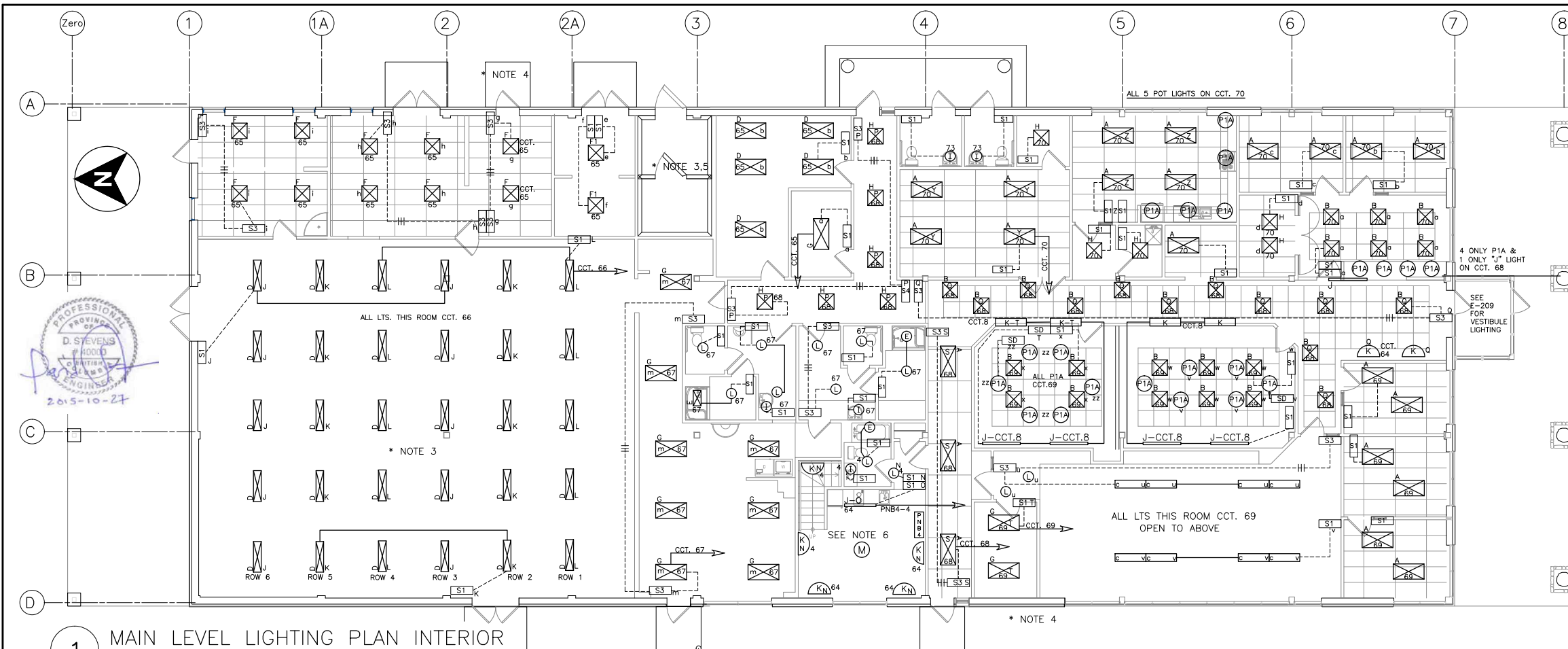
NO.	DATE	ISSUED FOR TENDER	REVISIONS
01	2015-10-20	ISSUED FOR TENDER	

DESIGNED
D.B.
 DRAWN
J.D.D.
 CHECKED
D.N.S.
 RECOMMENDED
 APPROVED
 APPROVED

SNOOTLI CREEK HATCHERY
HATCHERY COMPLEX PACKAGE
MAIN GROUNDING AND BONDING

SCALE
AS SHOWN
 DATE
2015-10-20
 DRAWING NUMBER
E-201
 REVISION

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007-01 - DFO (GC) - SNOOTLI CREEK - DETAILED DESIGN (PHASE 1)\HC GE-002 TO GE-003 & E200 TO E210 HATCHERY BUILDING ELECTRICAL 2015.09.14 ISSUED FOR TENDER.DWG




2 TEMP. RESIDENCE-LOFT LEVEL
 SCALE: 1:50 22"x34"
 SCALE: 1:100 11"x17"

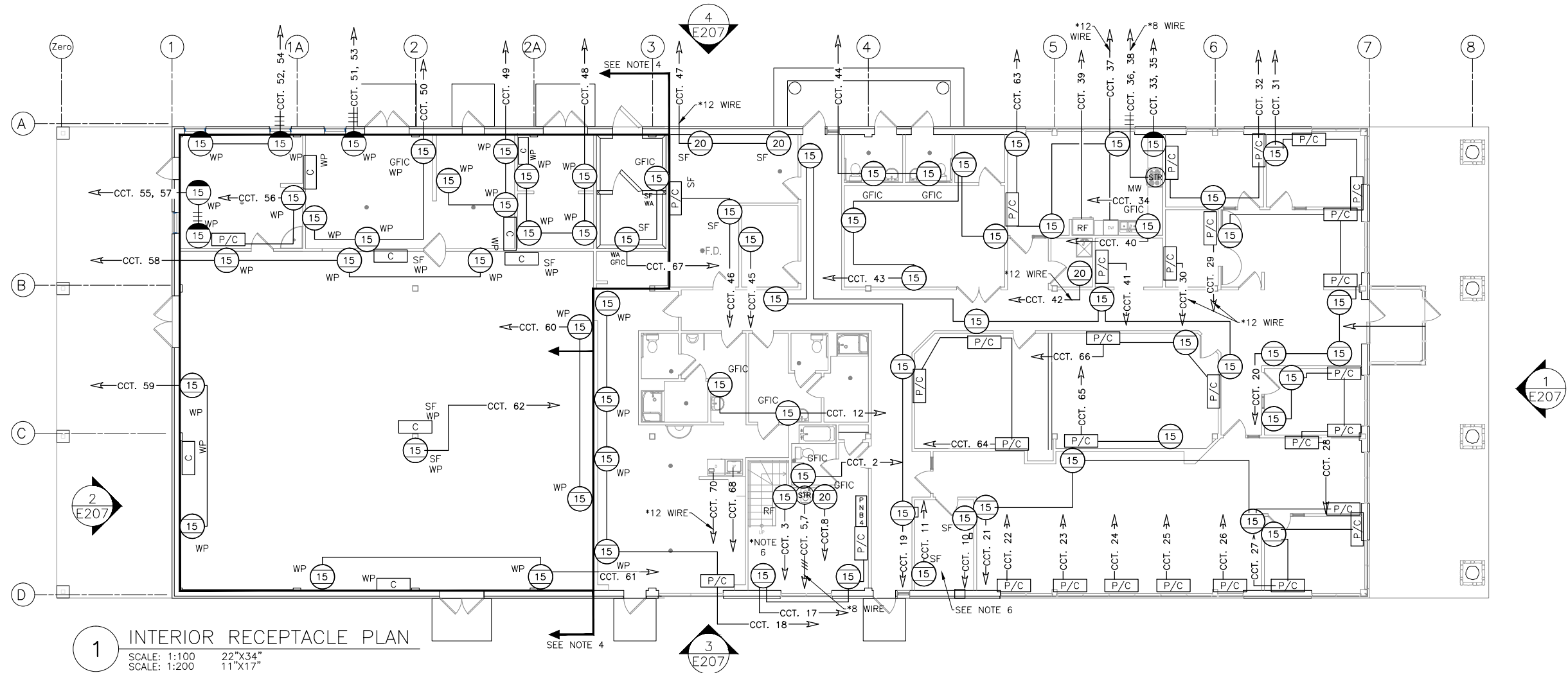
1 MAIN LEVEL LIGHTING PLAN INTERIOR
 SCALE: 1:100 22"x34"
 SCALE: 1:200 11"x17"

LIGHTING SCHEDULE - FOR THIS PRINT AND E-210

LEGEND		SYMBOL		SIZE	MM	TYPE	WATTS	DESCRIPTION	SYMBOL	SIZE	MM	TYPE	WATTS	DESCRIPTION
S1	SINGLE POLE LIGHT SWITCH - IVORY COLOUR	A	1220x610	GRID	RECESSED	49	EXTRUDED ALUMINUM FRAME, APPROX. 120mm DEEP, DAMP LOCATION RATED, SPECIFICATION GRADE TROFFER, STANDARD 0-10V DIMMING CONTROL, TYPICAL CRI OF 85 CUL US AND LM79, LM80 COMPLIANT, PROJECTED LIFE OF 60000 HRS @ 84% LUMEN OUTPUT, RATED LUMEN OUTPUT OF 4800, 5 YR. WARRANTY.	J	1220	TRACK	(3)-50	3 ONLY 50 WATT TYPE GU10 LAMPS, 700 CENTER BEAM CANDLE POWER @ 25° BEAM SPREAD, 3000 RATED HOUR LIFE C/W DIE CAST ALUMINUM FRONT RING AND OPEN BACK COMES C/W 1220mm CLEAR ANODIZED SUSPENSION BEAM TRACK. TRACK IS RATED 20 AMPS @ 120 VAC. TRACK UNITS ARE POLARIZED AND CONTINUALLY GROUNDED. ELECTRICAL CONDUCTORS ARE CONTAINED IN THE POLYCARBONATE EXTRUSION. SILVER FINISH. cULus LABEL.		
S3	3 WAY LIGHT SWITCH - IVORY COLOUR	B	610x610	GRID	RECESSED	30	EXTRUDED ALUMINUM FRAME, APPROX 120mm DEEP, DAMP LOCATION RATED, SPECIFICATION GRADE TROFFER, 0-10V. DIMMING CONTROL, TYP. CRI OF 85, SAME COMPLIANT AND PROJECTED LIFE AS "A" FIXTURE. LUMEN OUTPUT IS 2900. 5 YR. WARRANTY.	K	210x146	WALL	SCONCE	(2)-15	WALL VANITY - SURFACE MOUNT ON STANDARD RECESSED BOX. POLISHED CHROME FINISH. MEDIUM BASE SOCKET C/W CFL LAMP (2).	
S4	4 WAY LIGHT SWITCH - IVORY COLOUR	C	1326x305	SUSPEND		57	EXTRUDED ALUMINUM HOUSING / #20 GA. STEEL GEAR TRAY, 43mm DEEP, DAMP LOCATION RATED, STANDARD 0-10V. DIMMING CONTROL, TYPICAL CRI OF 82, LUMENS OF 5500, 80% OF LUMENS AFTER 50,000 HOURS, 5 YR. WARRANTY, C/W 472mm AIRCRAFT CABLE, POWER FEED THROUGH FLEX CORD FROM JXT. BOX.	L	160x310	CEILING	SURFACE	(2)-15	TWO LIGHT SEMI-FLUSH MOUNT NICKEL FINISH WITH CLEAR PRISMATIC GLASS. MEDIUM BASE SOCKETS AND 2 ONLY CFL LAMPS. 5 YEAR WARRANTY.	
SD	DIMMER SWITCH, USUALLY THIS WILL BE 0-10 VOLT FOR LED; HOWEVER WHERE STANDARD LIGHTING IS INVOLVED SUCH AS THE "J" FIXTURE THEN A STANDARD 120V DIMMER SWITCH RATED FOR 1200 WATT SHOULD BE USED.	C1	178x914 x102	SURFACE		50 W.	120 VOLT - LED NICKEL OR DARK BRONZE FINISH - MOUNTS ON 100mm OCTAGONAL SURFACE BOX. FIXTURE cUL US APPROVED FOR OUTDOOR APPLICATIONS. 2 INTERMEDIATE BASE SOCKETS (APPROX x 2 ONLY 25 WATT LED). MUST BE CAPABLE OF ILLUMINATING CEILING WITH A MINIMUM 1800x1800mm BEAM SPREAD. SEE DRAWING E-207 FOR MOUNTING.	M	333x762	SUSPEND	CEILING	(2)-25	SUSPENDED 2 LIGHT CHANDELIER MEDIUM BASE C/W 2 ONLY 25 WATT CFL LAMPS, POLISHED CHROME WITH PRISMATIC GLASS. COMES C/W 3000mm CHAIN; OVERALL USABLE LENGTH 2235mm. CUT TO FIT ON SITE.	
PNB1	PANELBOARD 4 - 208/120 VOLT 3 PH. 4 WIRE MINIMUM OF 60 AMPS AND 12 CIRCUITS	C1A	178x610 x102	SURFACE		40 W.	SAME AS C1 ABOVE EXCEPT DIMENSIONS AND 40 WATT, OR MAY BE THE SAME AS C1.	P1	178	RECESSED	LED	45	SLOPED CEILING POT LIGHT 2800 LUMENS C/W FRAME-IN KIT AND HEAT SINK. NON IC CEILING, MUST BE KEPT 75mm FROM INSULATION. WET LOCATION LISTED FOR UNDER CEILING. LM79 TESTED. RATED LIFE OF 50000 HRS @ 70% LUMEN OUTPUT. 5 YR. WARRANTY. WHITE REFLECTOR AND WHITE TRIM FINISH. FRAME-IN KIT C/W THROUGH BRANCH WIRING, GROUNDED JXT. BOX, ELECTRO GALVANIZE STEEL BARS ADJ. 610mm C/W 0-10 V DC DIMMING AS STANDARD. FOR NEW INSTALLATION. CEILING ANGLE 15° TO 45°.	
NOTES		D	1265x178	SUSPEND OR SURFACE		57	FIBREGLASS HOUSING IS REINFORCED POLYESTER, GRAY COLOUR. WATER TIGHT 1.3mm HUBS ARE PROVIDED AT EACH END BOTH SIDE AND TOP (4). FIXTURES ARE UL/CUL LISTED FOR WET LOCATION. 6000 LUMENS, PROJECTED LIFE OF 50000 HRS @ 70% LUMEN OUTPUT. 0-10 VOLT DIMMING CONTROL INCLUDED. IP65 RATED. 5 YEAR WARRANTY. 100% HIGH IMPACT PRISMATIC LENS C/W STAINLESS STEEL LATCHES AND THE FOLLOWING ACCESSORIES: CHAIN HANGING SET AND STAINLESS STEEL MOUNTING BRACKET.	P2	102	RECESSED		10.5	NEW CONSTRUCTION INSULATED CEILING C/W LED MODULE AND HOUSING. LED SUITABLE FOR RETROFIT WITH REGRESSED WHITE BAFFLE, LENS AND RING. 80 CRI, 3500 K COLOUR. HOUSING FOR NEW CONSTRUCTION AND ULC LISTED. 650 LUMENS. 70% OUTPUT AFTER 50000 HRS. 5 YR. WARRANTY. SLOPED CEILING.	
1.	ALL LIGHTING TO BE LED UNLESS NOTED OTHERWISE 120 VAC, K COLOUR TO BE 4000. ALL AREAS TO BE HAVE SAME K COLOUR FIXTURE UNLESS NOTED OTHERWISE. FIXTURE NORTH OF HEAVY LINE TO BE SUITABLE FOR WET LOCATION. ALSO FIXTURES IN ROOM 108A, 108B, 109, 109B, 110, 110A AND 110B TO BE RATED FOR DAMP LOCATIONS. ALL OTHER AREAS MAY BE RATED FOR DAY AREAS. ALL AREAS TO BE 30-50 FC, (AVG. 40) AT THE 1.2M LEVEL AFF. PLEASE GIVE EXPECTED LIFE IN HRS AND WARRANTY DURATIONS. ALL WIRING TO BE COPPER #12 - 2 WIRE UNLESS STATED OTHERWISE. ALL CIRCUITS REFER TO PANEL PNB-2. WATTAGE AND LUMENS OUTPUT MAY BE +/- 10%.	E	84x84	RECESSED		10.2	APPROVED FOR SHOWERS. 12 VOLT, 47 DEGREE DOWN LIGHT, WARM WHITE, 2800 K COLOUR, 80 CRI, TEMPERED GLASS LENS, ALUMINUM CONSTRUCTION, 70% LUMEN OUTPUT AFTER 50000 HRS C/W NEW CONSTRUCTION HOUSING WHICH INCLUDES DIMMABLE ELECTRONIC POWER SUPPLY. DIMMER NOT INCLUDED HERE.	P1A	178	RECESSED		45	SAME SPECS AS P1 EXCEPT HORIZONTAL CEILING. CEILING ANGLE 0-10°	
2.	ALL LEVEL 1 TEMPORARY RESIDENCE LIGHTS ARE ON PNB4-4.	F	603x603 127 (WxHxD)	RECESSED		39	FAIL-SAFE APPROVED FOR FOOD PREPARATION AND WET LOCATION. 2500 LUMENS. ALUMINUM DOOR IS SECURED BY FLUSH MOUNTED STAINLESS STEEL SCREWS. AIRCRAFT CABLES ATTACH DOOR TO THE ALUMINUM WHITE HOUSING. PROJECTED LIFE IS 50000 HRS AT 70% LUMEN OUTPUT. LENS TO BE CLEAR POLYCARBONATE 6.4mm THICK. COMES C/W STANDARD 0-10 VOLT DIMMING CONTROL.	YL1	117x305x 205	WALL	SURFACE		71	SHOULD MATCH IN STYLE AND LIGHT OUTPUT AS THOSE ON THE SHOP BLDG. SPECS AS FOLLOWS: 5700 LUMENS. EXPECTED LIFE OF 60000 HRS. LM79, LM80 COMPLIANT. ALUMINUM HOUSING (COLOUR TO MATCH SHOP YL) MOUNTS TO STANDARD JXT. BOX. SUITABLE FOR WET LOCATION. UL 1598 STANDARD. 5 YR. WARRANTY.
3.	WHILE THE INCUBATION ROOM FIXTURES ARE SUSPENDED, THOSE IN THE COOLER/FREEZER SHALL BE SURFACE MOUNT OR SUSPENDED.	F1	603x603	SURFACE		39	SAME SPECS AS "F" BUT WILL COME WITH A SURFACE MOUNT KIT FOR SURFACE MOUNTING.	SPECIFICATIONS FOR FIXTURES EXL, EXT W, EML W, EML CM, EXL →, EXL R, RH AND RH W ARE ON PRINT E-210.						
4.	WHILE STANDARD 120 VOLT SWITCHING IS SHOWN FOR LIGHT CIRCUITS, MOST OF THE ABOVE LED LIGHT FIXTURES HAVE A 0-10 VOLT DIMMING CONTROL COME AS STANDARD. IF DIMMING IS REQUIRED PLEASE CONSULT SILK STEVENS. SEE PRINT E-206 FOR COMPLETE WIRING OF COOLER/FREEZER ROOMS.	G	1220x603	SURFACE		45	HOUSING IS CONSTRUCTED OF COLD ROLLED STEEL AND 83mm DEEP. INCLUDES 0-10 VOLT DIMMING CONTROL AS STANDARD. DIMMER NOT INCLUDED HERE. TYPICAL CRI OF 85. LUMENS OUTPUT OF 4900. PROJECTED LIFE IS 60000 HRS AT 92% LUMEN OUTPUT. WHITE ENAMEL FINISH. cULus CERTIFIED, DAMP LOCATION LISTED AND LM79/LM80 COMPLIANT, SPECIFICATION GRADE TROFFER. 5 YEAR WARRANTY. COMES C/W DRYWALL FRAMING KIT FOR SURFACE MOUNT.	b - TYPICAL L - CAPITAL LETTER INDICATES FIXTURE TYPE. LOWER CASE LETTER INDICATES SWITCHING. NUMBER INDICATES CIRCUIT.						
5.	SEE PRINT E-206 FOR COMPLETE WIRING OF COOLER/FREEZER ROOMS.	H	603x610	SURFACE		36	SPECIFICATION GRADE TROFFER MOUNTED ON SURFACE WITH A SURFACE MOUNT KIT. THE 83mm DEEP HOUSING IS FORMED OF COLD ROLLED STEEL AND INCLUDES CONTROL. TYPICAL CRI OF 85. PROJECTED LIFE OF 60000 HRS @ 79% LUMEN OUTPUT. 5 YR. WARRANTY. THE FIXTURE IS DAMP LOCATION LISTED AND cULus CERTIFIED AND LM79/LM80 COMPLIANT. DIMMER SWITCH NOT INCLUDED.							
6.	ALL CIRCUITS IN TEMPORARY RESIDENCE COME FROM PANELBOARD PNB4 LOCATED ON BOTTOM FLOOR EXCEPT FOR EXIT/EMERGENCY LIGHTS WHICH ARE LOCATED ON CCT.8 PANEL PNB3.	I	667x222	WALL SURFACE		3x15	BATHROOM WALL LIGHT - POLISHED CHROME - 3 LAMPS. TRADITIONAL CLASSIC STYLE - MEDIUM BASE SOCKETS. LAMPS TO BE 15 WATT CFL. - FIXTURE MOUNTS ON STANDARD RECESSED BOX - RATED FOR DAMP LOCATION. FIXTURE MAY MOUNT FACING UP OR DOWN.							

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					DRAWN J.D.D.		DATE 2015-10-20	
DWG. NO. DRAWING REFERENCES		NOTES		APPROVED		HATCHERY COMPLEX PACKAGE		DRAWING NUMBER
						GENERAL LIGHTING INSIDE		E-202
APPROVED		APPROVED		REVISIONS		REVISION		
						REVISION		

PRINT DATE: 2015-11-06 Z:\1-ACTIVE PROJECT FILES\13-20-007.01 - DFO (BC) - SNOOTLI CK. - DETAILED DESIGN (PHASE I)\HC GE-002 TO GE-003 & E200 TO E210 HATCHERY BUILDING ELECTRICAL_2015.08.14_ISSUED FOR TENDER.DWG



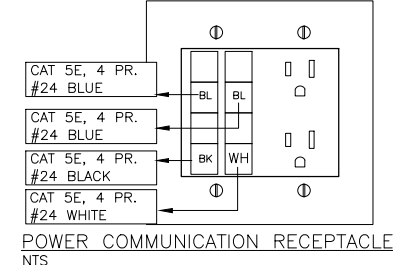
1 INTERIOR RECEPTACLE PLAN
 SCALE: 1:100 22"x34"
 SCALE: 1:200 11"x17"



LEGEND			
	DUPLEX RECEPTACLE - NUMBER INDICATES AMPERAGE, GROUND FAULT INTERRUPT CIRCUIT.		COMMUNICATION OUTLET ONLY, SHOULD BE MAXIMUM OF 2M IN A STRAIGHT LINE FROM NEAREST POWER RECEPTACLE.
	WEATHERPROOF COVER AND/OR ALUMINUM WEATHERPROOF BOX.		CIRCUIT NUMBER.
	SURFACE MOUNTED DUPLEX RECEPTACLE, UTILITY BOX, CONDUCTORS EITHER AC, TECK OR RW90 TO BE RUN IN CONDUIT FROM JOIST DOWNWARD TO BOX. SEE NOTE 3.		DISHWASHER 120 V. 20 AMP RECEPTACLE.
	SURFACE MOUNTED DUPLEX RECEPTACLE, UTILITY BOX, CONDUCTORS EITHER AC, TECK OR RW90 TO BE RUN IN CONDUIT FROM JOIST DOWNWARD TO BOX. SEE NOTE 3.		WASHER 120 V. 15 AMP RECEPTACLE.
	SURFACE MOUNTED DUPLEX RECEPTACLE, UTILITY BOX, CONDUCTORS EITHER AC, TECK OR RW90 TO BE RUN IN CONDUIT FROM JOIST DOWNWARD TO BOX. SEE NOTE 3.		DATA CABLE BLUE.
	SURFACE MOUNTED DUPLEX RECEPTACLE, UTILITY BOX, CONDUCTORS EITHER AC, TECK OR RW90 TO BE RUN IN CONDUIT FROM JOIST DOWNWARD TO BOX. SEE NOTE 3.		DATA CABLE WHITE.
	SURFACE MOUNTED DUPLEX RECEPTACLE, UTILITY BOX, CONDUCTORS EITHER AC, TECK OR RW90 TO BE RUN IN CONDUIT FROM JOIST DOWNWARD TO BOX. SEE NOTE 3.		DATA CABLE BLACK.
	SURFACE MOUNTED DUPLEX RECEPTACLE, UTILITY BOX, CONDUCTORS EITHER AC, TECK OR RW90 TO BE RUN IN CONDUIT FROM JOIST DOWNWARD TO BOX. SEE NOTE 3.		MICROWAVE APPLIANCE RECEPTACLE.
	STOVE RECEPTACLE, 3 WIRE, 40 AMP #8.		REFRIGERATOR RECEPTACLE.
	POWER COMMUNICATION OUTLET SEE INSET FOR DETAIL.		TO BE DETERMINED.
	PANELBOARD 4 - 208/120 VOLT 3 PH., 4 WIRE MINIMUM 60 AMP, 12 CIRCUITS		

- NOTES**
- UNLESS NOTED OTHERWISE, ALL CIRCUITS ARE COPPER 2 WIRE #12 AWG, ALL WIRING IS AC90, TECK 90 OR CONDUIT AS INDICATED. INSTALL AC90 AND TECK 90 IN TRAY WHERE POSSIBLE. SEE DRAWING E-205 FOR TRAY INSTALLATION. AS ACTUAL LOCATION OF RECEPTACLES MAY CHANGE, ALLOW FOR A 3M. VARIANCE. UNLESS INDICATED OTHERWISE, ALL RECEPTACLES ARE RECESSED. PLEASE NOTE SPECIFICATIONS, REQUIRED WIRING IN PARTITIONS TO RUN VERTICALLY NOT HORIZONTALLY. IVORY COLOUR.
 - RECEPTACLES FED WITH #12 WIRE TO BE 20 AMP.
 - SURFACE BOXES IN DRY AREAS MAY BE UTILITY TYPE WHILE THOSE IN DAMP OR WET AREAS ARE POLYCARBONATE OR ALUMINUM CONSTRUCTION, C/W WEATHERPROOF COVERS.
 - AREA NORTH OF DIVISION LINE WILL BE TECK 90 OR RW90 CONDUCTOR IN RIGID METAL/PVC CONDUIT. AREA SOUTH OF THIS LINE MAY BE AC90 OR RW90 IN EMT.
 - SEE MATERIALS SPECIFICATIONS SHEET FOR DETAIL DESCRIPTION OF MATERIAL AND INSTALLATION OF SAME.
 - ALL CIRCUITS ON THIS PRINT ARE CONNECTED TO PANELBOARD 3 (PNB3) IN ELECTRICAL ROOM, EXCEPT TEMPORARY RESIDENCE WHICH ARE ALL ON PNB4, EXCEPT EXIT/EMERGENCY LIGHTS.
 - SEE PRINT E-202 FOR TOP FLOOR OF TEMPORARY RESIDENCE, BOTH LIGHTS AND RECEPTACLES.

GENERAL NOTES ON RECEPTACLES:

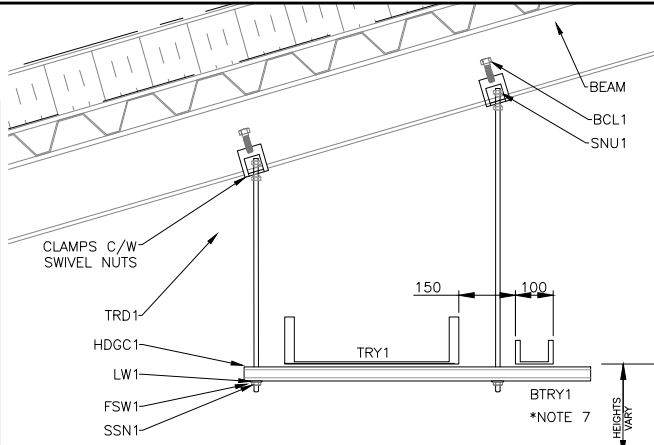
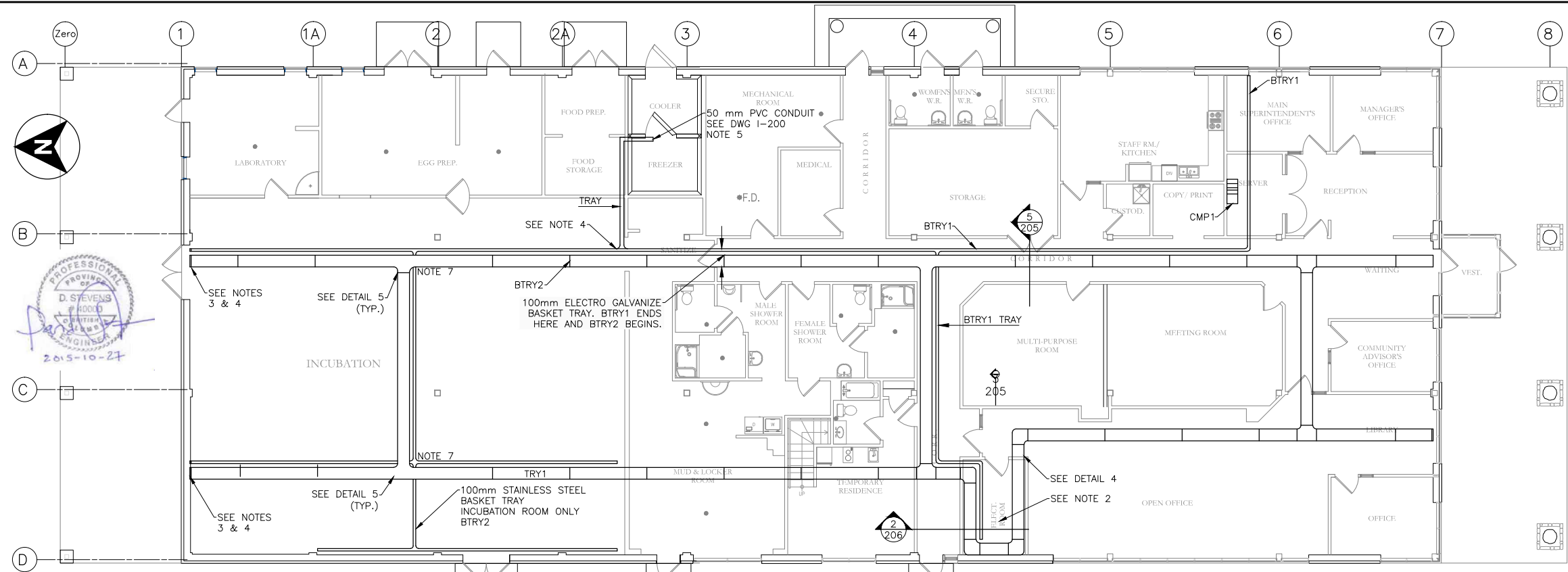


POWER COMMUNICATION RECEPTACLE NTS

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			NO.	DATE	REVISIONS

<p>FISHERIES AND OCEANS CANADA REAL PROPERTY AND TECHNICAL SUPPORT</p>	<p>SNOOTLI CREEK HATCHERY</p> <p>HATCHERY COMPLEX PACKAGE</p> <p>INTERIOR RECEPTACLE PLAN</p>	<p>SCALE AS SHOWN</p> <p>DATE 2015-10-20</p> <p>DRAWING NUMBER E-203</p> <p>REVISION</p>
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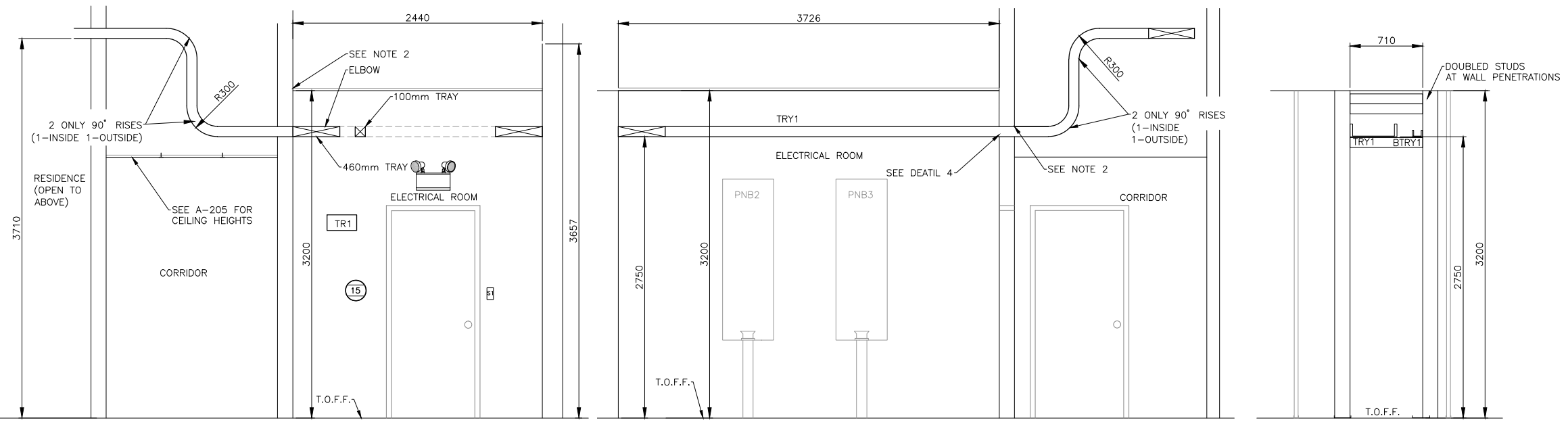
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5 TRAY SUPPORT AT BEAM/PURLIN
 SCALE: 1:10 22"x34"
 SCALE: 1:20 11"x17"

LEGEND	
SYMBOL	DESCRIPTION
TRY1	ALUMINUM TRAY - LADDER TYPE LOAD CLASSE D1 RUNG SPACING 305mm SIDERAIL HEIGHT 127mm X 460mm WIDTH IN 3.0M LENGTH SUPPORT EVERY 3.0M.
HGDC1	HOT DIP GALVANIZED CHANNEL 41mm X 41mm #14 GAUGE STEEL.
BCL1	BEAM CLAMP HOT DIP GALVANIZED STEEL DESIGNED FOR 13mm THREADED ROD, C/W 13mm SET SCREW. IT WILL HAVE A WT/C OF 36.3 KG. AND DESIGN LOAD OF 363 KG. 22mm CLAMP ON OPENING.
SNU1	SWIVEL NUT AND JAM NUT COMBINATION FOR 13mm RD. ALLOW FOR 20° SWIVEL MOVEMENT.
TRD1	13mm. ELECTRO GALVANIZED THREADED ROD.
FSW1	13mm. ELECTRO GALVANIZED FLAT STEEL WASHER.
LW1	13mm. ELECTRO GALVANIZED LOCK WASHER.
SSN1	13mm. ELECTRO GALVANIZED STEEL SQUARE NUT.
CMP1	MONITORING CONTROL PANEL, EXACT LOCATION TO BE DETERMINED.
BTRY1	ELECTRO GALVANIZED BASKET TRAY, 50mm x 100mm WIDE, 3.0M LENGTH. MAINTAIN 150mm SEPARATION FROM BASKET AND ELECTRICAL POWER TRAY, SUPPORT EVERY 1.5M - LOW VOLTAGE/INSTRUMENTATION.
BTRY2	301 STAINLESS STEEL BASKET TRAY, 50mm x 100mm WIDE, 3.0M LENGTH. MAINTAIN 150mm SEPARATION FROM BASKET AND ELECTRICAL POWER TRAY, SUPPORT EVERY 1.5M - LOW VOLTAGE/INSTRUMENTATION.

1 CABLE TRAY INSTALLATION
 SCALE: 1:100 22"x34"
 SCALE: 1:200 11"x17"



2 TRAY ELECTRICAL ROOM NORTH
 SCALE: 1:25 22"x34"
 SCALE: 1:50 11"x17"

3 TRAY ELECTRICAL ROOM WEST
 SCALE: 1:25 22"x34"
 SCALE: 1:50 11"x17"

4 TRAY SUPPORT ELECTRICAL
 SCALE: 1:25 22"x34"
 SCALE: 1:50 11"x17"

- NOTES**
- TRAY MUST BE SUPPORTED WITHIN 610mm OF ANY FITTING IN ALL DIRECTIONS (i.e. 3 SUPPORTS FOR A "T" FITTING). 3.05M TRAY SHOULD HAVE 1 SUPPORT APPROX. NEAR THE MIDDLE AND NOT AT THE COUPLERS. TRAY SHOULD BE LEVEL ON THE HORIZONTAL AND PLUMB ON THE VERTICAL.
 - ELECTRICAL ROOM ROOM MUST BE SEALED TO GIVE A 1 HOUR FIRE RATING AFTER ALL WIRING, PIPING AND TRAYS ETC. IS RUN.
 - TRAY ENDS MUST BE CAPPED.
 - #6 COPPER OR #4 ALUMINUM MUST BE RUN THROUGHOUT TRAY FOR BONDING AND BONDED TO TRAY EVERY 15M. IT WILL HAVE AN INSULATED GREEN COVERING AND MAY BE RATED 75° OR 90° C. BONDING WIRING MUST BE RUN UNBROKEN AND CONNECTED EVERY 15.0M WITH AN APPROVED TRAY BONDING DEVICE. DEVICE TO BE APPROVED FOR ALUMINUM TRAY. METAL TRAYS MUST BE INTERRUPTED AT WOODEN PARTITIONS UNLESS THESE TRAYS ARE SOLID METAL BOTH TOP AND BOTTOM WHERE THEY PASS THROUGH THE WOODEN PARTITION. PVC CONDUIT TERMINATES AT POINTS SHOWN NEAR BASKET TRAY. CONDUIT IS FOR LOW VOLTAGE CABLES THAT CONTINUE ON IN BASKET TRAY.
 - IF SPACING IS NOT MAINTAINED BETWEEN CABLES IN TRAY THEN CABLES WILL HAVE TO BE DERATED 50%. THAT IS #14 - MAX. AMPS - 8 #8 MAX. AMPS 25. #12 - MAX. AMPS - 10. #10 - MAX. AMPS 15. CABLES IN TRAY MAY BE DOUBLE OR TRIPLE STACKED USING THE APPROPRIATE CABLE CLAMPS. DERATING IS NOT REQUIRED IN INSTRUMENTATION TRAY.
 - WHERE BASKET TRAY CROSSES THE ALUMINUM TRAY IT WILL HAVE TO BE OFFSET TO GO UNDER THE 460mm ALUMINUM TRAY.

FISHERIES AND OCEANS CANADA
 REAL PROPERTY AND TECHNICAL SUPPORT

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			CHECKED D.N.S.		
			RECOMMENDED		
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DWG. NO.	DRAWING REFERENCES	NO.	DATE	ISSUED FOR TENDER	REVISIONS

SNOOTLI CREEK HATCHERY HATCHERY COMPLEX PACKAGE CABLE TRAY INSTALLATION		SCALE AS SHOWN
		DATE 2015-10-20
		DRAWING NUMBER E-205
		REVISION

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PANEL PNB 2 – MAIN EQUIPMENT/LIGHTS/RECEPTACLES

ELECTRICAL ROOM
MAIN BREAKER 225 AMP RATED 208/120V-3PH-4 WIRE-78 CIRCUITS

1	1 WHR1 ELECTRICAL EAST WALL	15 A. 1 POLE EXHAUST FAN EF-1, LOUVRE L-1.	2
3	2 P 20 AMP 2 KW.	15 AMP 2 POLE 5 AMP MINI-SPLIT HEAT PUMP (MS-1) TEMP. RESIDENCE	4
5	1P 15 AMP EXHAUST FAN EF-2 AND LOUVER-L-2 INCUBATION.	TRACK LIGHTING – ROOMS 125,130 15 AMP 1 POLE	6
7	2P 15 AMP OUTDOOR HEAT PUMP EAST SIDE 2.4 KW.		8
9	LOCKER ROOM 8 AMP CU-2.		10
11	CONTROL CONTACTOR 15 AMP. CC1 INCUBATION SOUTH WALL.	3 POLE 20 AMP 4 KW. HEAT RECOVERY VENT. 3 (HRV3) MECHANICAL ROOM.	12
13			14
15	5 KW. 3 POLE 20 AMP UNIT HEATER 1 UH-1.	1 POLE 15 HEAT RECOVERY VENT. 1 (HRV1) TEMP. RESIDENCE.	16
17		1 POLE 15 A. CONTROL FOR CONTACTOR 2 (CC2).	18
19			20
21	UNIT HEATER 3 (UH-3) 5 KW. 3 POLE 20 AMP. EGG PREP. ROOM NORTH.	UNIT HEATER 2 (UH-2) 5 KW. 3 POLE 20 AMP. EGG PREP. ROOM SOUTH.	22
23			24
25			26
27	BOOSTER PUMP P-210 3 POLE 1.0 HP. 15 AMP ((MECHANICAL ROOM)). SEE PRINT PF-102. NOTE 4	BOOSTER PUMP P-200 3 POLE 1.0 HP. 15 AMP ((MECHANICAL ROOM)). SEE PRINT PF-102. NOTE 4	28
29			30
31			32
33	CIRCULATION PUMP CP-210 3 POLE 0.67 HP. 15 AMP ((MECHANICAL ROOM)). SEE PRINT PF-102. NOTE 4	CIRCULATION PUMP CP-200 3 POLE .67 HP. 15 AMP ((MECHANICAL ROOM)). SEE PRINT PF-102. NOTE 4	34
35			36
37	ENERGY (WATER) RECOVERY PUMP P-240 3 POLE 1.0 HP. 15 AMP ((INCUBATION ROOM)). SEE PRINT PF-102. NOTE 4	ENERGY (WATER) RECOVERY PUMP P-250 3 POLE 1.0 HP. 15 AMP ((INCUBATION ROOM)). SEE PRINT PF-102. NOTE 4	38
39			40
41			42
43	1 POLE 15 A. HOOD FAN – 50 W. – TEMP. RESIDENCE	FREZZER/COOLER 1 POLE 20 A. LTS DOOR HEATER	44
45		1500 WATTS 2 POLE 20 A. VESTIBULE WALL HEATER	46
47	2 POLE 15 A. SPARE.		48
49	COOLER 1HP	FREZZER 2HP.	50
51	3 POLE 15 A. SPARE.	3 POLE 20 A.	52
53	9 AMPS	11.8 AMPS.	54
55			56
57	3 POLE 15 A. SPARE.	3 POLE 30 A. SPARE.	58
59			60
61	15 AMP 1 POLE SPARE	20 AMP 1 POLE SPARE	62
63	15 AMP 1 POLE SPARE	15 AMP 1 POLE SPARE	64
65	1 POLE 15 AMP. – LIGHTS MECH./FOOD PREP ROOMS/COOLER	20 AMP 1 POLE SPARE	66
67	1 POLE 15 AMP. – LIGHTS MUDROOM/WASHROOMS	1 POLE 15 AMP. – LIGHTS CORRIDORS	68
69	1 POLE 15 AMP. – LIGHTS ELECT. RM/OFFICES SW. CORNER	1 POLE 15 AMP. – LIGHTS OFFICES/WASHROOMS SE. CORNER	70
71	SPARE 15 AMP BREAKER	SPARE 20 AMP BREAKER	72
73	SPARE	SPARE	74
75	3 POLE	3 POLE	76
77	15 AMP	20 AMP	78

PANEL PNB3 LIGHTING/RECEPTACLES

ELECTRICAL ROOM
MAIN BREAKER 225 AMP RATED 208/120V-3PH-4 WIRE-78 CIRCUITS

1	23 LIGHTS, YL1 10, P1 13. EXTERIOR WALLS, 15 A, 1 P.	3 OUTSIDE RECEPTACLES, NORTH, 15 A, 1 P. GF/WP.	2
3	3 OUTSIDE RECEPTACLES EAST WALL, 15 A, 1 P. GF/WP.	3 OUTSIDE RECEPTACLES, SOUTH, 15 A, 1 P. GF/WP.	4
5	5 OUTSIDE RECEPTACLES WEST WALL, 15 A, 1 P. GF/WP.	8 OUTSIDE LIGHTS 4 C1, 4 P1 SOUTH, 15 A, 1 P. GF/WP.	6
7	EXIT/EMERGENCY LIGHTS INT. SOUTH EAST, 15 A, 1 P.	EXIT/EMERGENCY LIGHTS INT. CENTRAL AREA 15 A, 1 P.	8
9	EXIT/EMERGENCY LIGHTS INT. NORTH, 15 A, 1 P.	1 RECEPTACLE ELEC. ROOM EAST, 15 A, 1 P.	10
11	1 RECEPTACLE, ELEC. ROOM WEST, 15 A, 1 P.	2 RECEPTACLE GFIC, WASHROOM/SHOWERS, 15 A, 1 P.	12
13	1 RECEPTACLE, RES. EAST WALL, 15 A, 1 P.	1 RECEPTACLE, STOVE TEMP. RES, 40 A, 2 P.	14
15	1 RECEPTACLE, GFIC TEMP. RES. WEST, 20 A, 1 P.	5 RECEPTACLE, MUD/LOCKER, 15 A, 1 P.	16
17	2 RECEPTACLE, RES. WEST WALL, 15 A, 1 P.	4 RECEPTACLE, 2 PC REC./WAITING, 15 A, 1 P.	18
19	7 RECEPTACLE, CORRIDOR, 15 A, 1 P.	1 PC BULL PEN WEST, 15 A, 1 P.	20
21	3 RECEPTACLE, 1PC SOUTH CORR., 15 A, 1 P.	1 PC BULL PEN WEST, 15 A, 1 P.	22
23	1 PC BULL PEN WEST, 15 A, 1 P.	1 PC BULL PEN WEST, 15 A, 1 P.	24
25	1 PC BULL PEN WEST, 15 A, 1 P.	2 RECEPTACLE, 2 PC COM. ADVISOR OFF, 15 A, 1 P.	26
27	1 RECEPTACLE, 2PC OFFICE SOUTH, 15 A, 1 P.	1 PC SERVER NORTH, 20 A, 1 P.	28
29	1 PC SERVER SOUTH, 20 A, 1 P.	1 RECEPTACLE, 2 PC MANAGER OFF., 15 A, 1 P.	30
31	1 RECEPTACLE, 2 PC MANAGER OFF., 15 A, 1 P.	1 RECEPTACLE, SPLIT, 3 WIRE STAFF/KITCHEN, 15 A, 2 P.	32
33	1 RECEPTACLE, SPLIT, 3 WIRE STAFF/KITCHEN, 15 A, 2 P.	1 RECEPTACLE, STOVE STAFF/KIT., 40 A, 2 P.	34
35			36
37	1 RECEPTACLE, DW/KIT., 20 A, 1 P.	1 RECEPTACLE GFIC, KITCHEN, 15 A, 1 P.	38
39	1 RECEPTACLE, RF/KIT., 15 A, 1 P.	1 RECEPTACLE, CUSTOD., 20 A, 1 P. #12	40
41	1 PC COPY/PRINT, NORTH, 15 A, 1 P.	2 RECEPTACLES STORAGE AND SECURE STORAGE 15 A, 1 P.	42
43	2 PC, 2 RECEPTACLES STORAGE AND SECURE STORAGE 15 A, 1 P.	1 RECEPTACLE SF, 1 PC SF, MECHANICAL 15 A, 1 P.	44
45	1 RECEPTACLE, MEDICAL, NORTH WALL 15 A, 1 P.	4 RECEPTACLE FOOD PREP. 15 A, 1 P.	46
47	2 RECEPTACLE SF, MECHANICAL EAST, 20 A, 1 P.	3 RECEPTACLE EGG PREP. 15 A, 1 P.	48
49	3 RECEPTACLES, EGG PREP. 15 A, 1 P.	2 RECEPTACLE, SPLIT, 3 WIRE LAB EAST, 15 A, 2 P.	50
51	1 RECEPTACLE, SPLIT, 3 WIRE EGG PREP., 15 A, 2 P.	1 RECEPTACLE LAB SOUTH, 15 A, 1 P., WP.	52
53		3 RECEPTACLE INCUBATION INC. EAST, 15 A, 1 P., WP.	54
55		2 RECEPTACLE INCUBATION INC. SOUTH, 15 A, 1 P., WP.	56
57		1 RECEPTACLE INCUBATION INC., 15 A, 1 P., WP SF.	58
59	2 RECEPTACLES, INCUBATION INC. NORTH, 15 A, 1 P. WP.	3 PC STAFF, WALLS, 15 A, 1 P.	60
61	2 RECEPTACLES, INCUBATION INC. EAST, 15 A, 1 P. WP.	1 RECEPTACLE 2 PC MEETING, 15 A, 1 P.	62
63	3 RECEPTACLE, 1 PC STAFF, WALLS, 15 A, 1 P.	15 A, 1 POLE WASHER MUD ROOM 20 A, 1 POLE DISHWASHER MUD ROOM	64
65	1 RECEPTACLE, 1 PC MEETING, 15 A, 1 P.		66
67	15 A, 1 POLE 2 RECEPTACLES COOLER/FREEZER		68
69	20 A, 1 POLE SPARE.		70
71	BASEBOARD HEATERS 20 A, 2 POLE MUD ROOM 2 ONLY 1000 WATTS.		72
73		60 A, 3 POLE SPARE, FEED PANEL PNB4	74
75	15 A, 1 POLE SPARE.		76
77	15 A, 1 POLE SPARE.	20 A, 1 POLE SPARE.	78

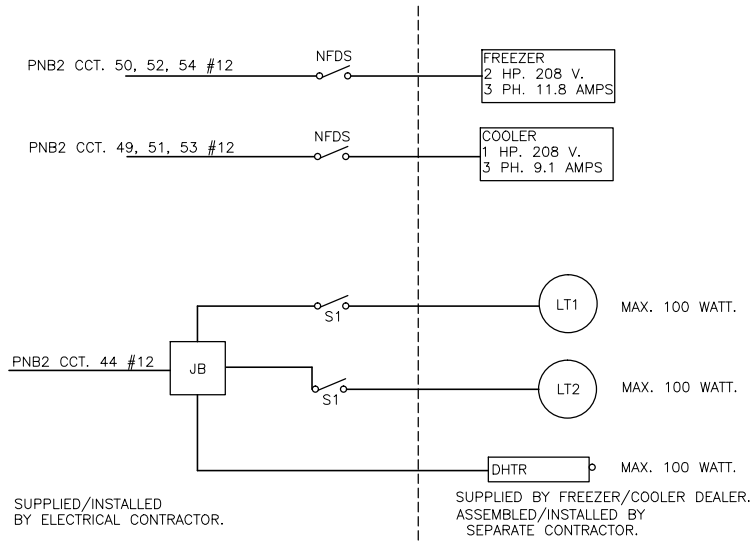
PANEL PNB4 LIGHTING/RECEPTACLES

TEMPORARY RESIDENCE
MAIN LUGS 60 AMP RATED 208/120V-3PH-4 WIRE-12 CIRCUITS MIN.

1	LIGHTS – 15 AMP, 1P TEMP. RES. LOFT LEVEL	20 AMP, 1P. RECEPTACLES TEMP. RES. LOFT LEVEL 1 TEMP. RES.	2
3	15 AMP, 1 P. REFRIGERATOR COUNTER	15 AMP, 1 P. GFIC WASHROOM	4
5	40 AMP, 2 P. STOVE RECEPTACLE COUNTERTOP	20 AMP, 1 P. MICROWAVE BY COUNTERTOP	6
7		15 AMP, 1 P. SPARE	8
9	15 AMP, 1 P. RECEPTACLE OPEN AREA	20 AMP, 1 P. SPARE	10
11	20 AMP, 1P. SPARE	20 AMP, 1 P. SPARE	12

BREAKERS FOR CIRCUITS 1, 2, 4, 9 MUST BE COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTERS

LEGEND	
SYMBOL	DESCRIPTION
NFDS	NON-FUSIBLE DISCONNECT SWITCH – SUITABLE FOR ENVIRONMENT AND HP.
S1	SINGLE POLE LIGHT SWITCH – 15 AMP 125 VOLT SUITABLE FOR ENVIRONMENT.
JB	JUNCTION BOX – 10x10x6 – NEMA 4X C/W LOCKABLE DOOR AND SS HINGES.
LT1, LT2	STANDARD SOCKET – VAPOUR TITE – 100 WATT INCANDESCENT OR 20 WATT LED.
DHTR	DOOR HEATER – COMES WITH UNIT.



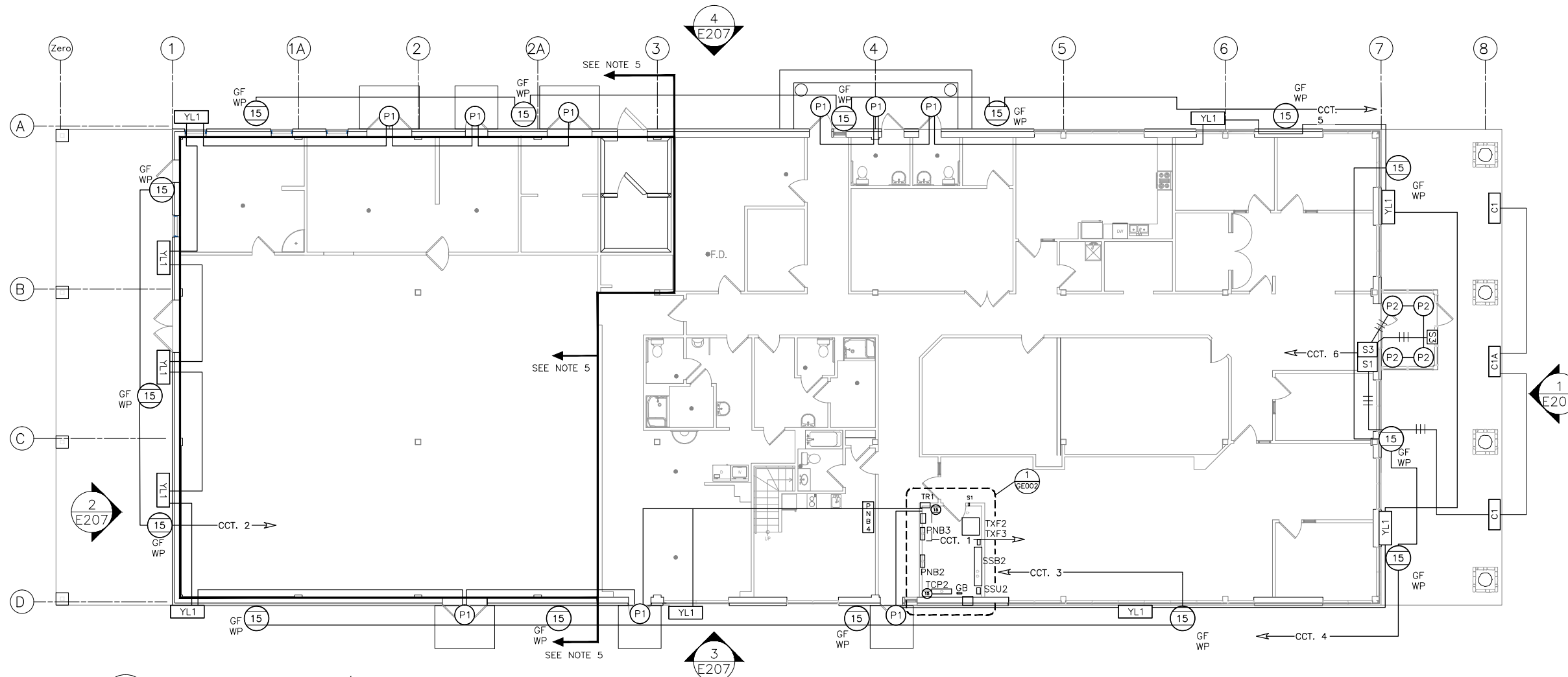
- NOTES:**
- ALL WIRING TO BE EITHER TECK 90 CABLE, OR RW 90 WIRE IN RIGID PVC OR STEEL CONDUIT (PVC IN WET AREAS AND STEEL IN DRY AREAS). AND COPPER UNLESS NOTED OTHERWISE. TECK CABLE MUST BE SECURED EVERY 450mm OR LESS AND PVC/STEEL CONDUIT EVERY 1220mm. FOR PVC OBSERVE RULES FOR EXPANSION. ALL WIRING #3 OR LARGER (100AMP) SHOWN CONVERTED TO EQUIVALENT ALUMINUM NUAL.
 - IF RIGID PVC IS USED INSTEAD OF TECK THEN A BOND MUST BE PULLED IN THE EQUIVALENT SIZE PER TABLE 16,17 OF THE C.E.C.
 - ALL BREAKERS ON THIS PRINT TO BE RATED 22 KAIC MINIMUM.
 - ALL PUMPS TO BE CONTROLLED BY A MANUAL STARTER C/W OVERLOADS AND LOCKABLE COVER. NEMA 4X. MINIMUM OVERLOAD SETTING TO CORRESPOND WITH NAMEPLATE RATING OF PUMP MOTORS

1 FREEZER/COOLER SINGLE LINE DIAGRAM
SCALE: NTS
SCALE:



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			<p>NO. DATE ISSUED FOR TENDER</p>	<p>NO. DATE REVISIONS</p>	<p>NO. DATE REVISIONS</p>
DWG. NO.	DRAWING REFERENCES	NOTES	NO.	DATE	REVISIONS

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1 OUTSIDE LIGHTING/RECEPTACLES PLAN
 SCALE: 1:75 22"x34"
 SCALE: 1:150 11"x17"

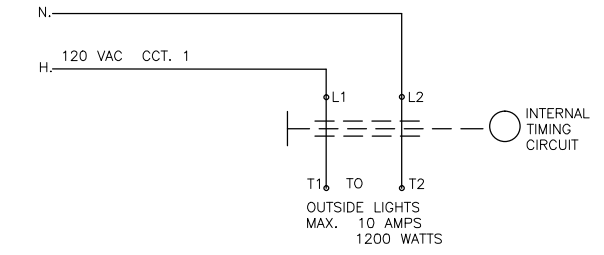
NOTES

1. ALL WIRING TO BE COPPER 12/2 AC90. AREA NORTH OF HIGHLIGHTED LINE TO BE TECK CABLE; REMAINDER TO BE AC90 UNLESS NOTED OTHERWISE. ALL WIRING IN WALL TO BE VERTICAL, NO HORIZONTAL WIRING BETWEEN BOXES.
2. YL1 FIXTURE MOUNTING HEIGHTS AS FOLLOWS: NORTH/SOUTH ENDS AT 3.2 METRES, EAST/WEST AT 2.5 METRES. P1 AND P2 POT LIGHTS TO BE MOUNTED IN SOFFIT APPROXIMATELY WHERE SHOWN.
3. SEE MATERIALS SPEC SHEET FOR DETAILED SPECS FOR SNOOTLI CREEK HATCHERY FOR MATERIALS AND FOR GENERAL DESCRIPTION AND INSTALLATION OF SAME.
4. MASONRY BOXES TO BE GROUTED INTO OUTSIDE BLOCK WALL OR HELD IN PLACE BY APPROVED EQUAL.
5. AREA NORTH OF THE ARROWS WILL BE TECK 90 CABLE OR RW90 CONDUCTORS IN RIGID METAL/PVC CONDUIT. AREA SOUTH OF THIS LINE MAY BE AC90 OR RW90 IN EMT.
6. ALL CIRCUITS REFERRED TO ON THIS DRAWING ARE CONNECTED TO PANELBOARD 3 (PNB3).

LEGEND (SEE NOTE *2) SEE LIGHTING SCHEDULE E-202

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(P1)	POTLIGHT STYLE 1, 120 VOLT LED 178mm.	TFX2, TFX 3	TRANSFORMERS 2 & 3 75 KVA INPUT 600 VOLT 3 PHASE 3 WIRE. OUTPUT: 208/120 VOLT 3 PHASE 4 WIRE. MUST HAVE COPPER WINDINGS C/W DRIPSHIELD. SIDE ENTRY ONLY.
(P2)	POTLIGHT STYLE 2, 120 VOLT LED 102mm	PNB2, PNB3	PANEL BOARDS 1 & 2 225 AMP 208/120 VOLTS 3 PHASE 4 WIRE 78 CIRCUIT MIN. CAPACITY C/W 225 AMP MAIN BREAKER RATED 25 KAIC.
(C1) (C1A)	COLUMN LIGHT STYLE 1 120 VOLT LED TECK CABLE OR RIGID CONDUIT REQUIRED.	(15)	DUPLEX RECEPTACLE, 15 AMP, 125 VOLT, COLOUR IVORY, MOUNTED IN RECESSED 90mm x 50mm x 95mm D. ELECTRO-GALVANIZED STEEL MASONRY BOX. SEE NOTE 4.
(YL1)	YARD LIGHT YL1 STYLE 1 WALL PACK LED 120V 40-60 WATTS.	WP	WEATHER PROOF COVER.
SSB2	SUBSWITCHBOARD 2 - 600/347 VOLT 3 PHASE 4 WIRE 50000 AMP BUS BRACING AND DRIPSHIELD HOOD. C/W 600 AMP MAIN BREAKER, AMMETER AND VOLTMETER TO MEASURE ALL PHASES AND VOLTAGE TO GROUND. MAIN BREAKER RATED 25 KAIC MIN.	TR1	TIMER CONTROL FOR OUTSIDE LIGHTS 120 VAC. RATED 15 AMPS CEMA1 ENCLOSURE DIGITAL READ OUT SHOWING ON/OFF VOLTS AMPS. PROVISIONS FOR 4 ZONES PER 24 HOUR PERIOD AND FOR 7 DAYS HOLIDAYS AND WEEKENDS MAY BE SET SEPARATELY.
GFIC	GROUND FAULT INTERRUPT RECEPTACLE.		
CCT. #	CIRCUIT NUMBER ID - SEE NOTE 6.		

TYPICAL CONNECTION FOR TIMER CONTROL - OUTSIDE LIGHTING



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			DRAWN J.D.D.	DATE 2015-10-20	DRAWING NUMBER E-208			
CHECKED D.N.S.	REVISIONS	REVISION						
RECOMMENDED	NO.	DATE	ISSUED FOR TENDER					
APPROVED	DWG. NO.	DRAWING REFERENCES	NOTES					

