01 11 00 SUMMARY OF WORK		5. DETAILS OF APPROPRIATE PORTIONS OF WORK AS APPLICABLE:	
WORK WORK OUTLINED IN THESE STRUCTURAL DRA ACCOMMODATE THE CONSTRUCTION OF A NE	WINGS COMPRISES GENERAL CONSTRUCTION TO W DAYCARE, LOCATED AT 430 WEBSTER AVE, QUESNEL, B.C.	 FABRICATION. LAYOUT, SHOWING DIMENSIONS, INCLUDING IDENTIFIED FIELD DIMENSIONS, AND CLEARANCES. SETTING OR ERECTION DETAILS. 	
 THESE DRAWINGS TO BE READ IN CONJUNCTI THESE DRAWINGS APPLY TO THE PROPOSED 	ON WITH ALL OTHER CONTRACT DRAWINGS AND DOCUMENTS. CONSTRUCTION ONLY AND SHALL NOT BE USED FOR ANY	3. IF UPON REVIEW BY CONSULTANT, NO ERRORS OR OMISSIONS ARE DISCOVERED OR IF ONLY MINOR CORRECTIONS ARE MADE, AN ELECTRONIC COPY WILL BE RETURNED AND FABRICATION AND INSTALLATION OF WORK MAY PROCEED.	
DRAWINGS AND REPORT INCONSISTENCIES B	AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL EFORE PROCEEDING WITH THE WORK.	 IF SHOP DRAWINGS ARE REJECTED, NOTED COPY WILL BE RETURNED AND RESUBMISSION OF CORRECTED SHOP DRAWINGS, THROUGH SAME PROCEDURE INDICATED ABOVE, MUST BE PERFORMED 	
SUMPS, SLEEVES, GROOVES, CHAMFERS, ETC		BEFORE FABRICATION AND INSTALLATION OF WORK MAY PROCEED. 4. AFTER EOR'S REVIEW IS PROVIDED, DISTRIBUTE COPIES. 5. SUBMIT ELECTRONIC COPY OF PRODUCT DATA SHEETS OR BROCHURES FOR WHERE SHOP DRAWINGS WILL	
PRECEDENCE OVER THE GENERAL NOTES AN	E STRUCTURAL PLANS AND SECTIONS SHALL TAKE D TYPICAL DETAILS. OWN ARE OF THE SAME CHARACTER AS THOSE NOTED FOR	NOT BE PREPARED DUE TO STANDARDIZED MANUFACTURE OF PRODUCT. 6. WHEN SATISFIED AT THE END OF FIELD REVIEW, SPECIALTY ENGINEERS SHALL PROVIDE A SCHEDULE S-C TO THE EOR.	
	OMPLY WITH THE REQUIREMENTS OF THE BCBC, LATEST BY ALL AUTHORITIES HAVING JURISDICTION. REFERENCE	01 41 00 REGULATORY REQURIEMENTS	
2. CONTRACT METHOD	IN TABLE 1.3.1.2 OF THE BC BUILDING CODE U.N.O. CONTRACTOR AND BY OWNER ARE AS DEFINED IN CONDITIONS	 GENERAL MEET OR EXCEED REQUIREMENTS OF: CONTRACT DOCUMENTS. 	
OF CONTRACT. 3. WORK BY OTHERS	S FOR THE COMPLETED, PERMANENT STRUCTURE, TEMPORARY	 APPLICABLE STANDARDS, CODES AND REFERENCED DOCUMENTS. WORKERS COMPENSATION ACT. OCCUPATIONAL HEALTH AND SAFETY REGULATIONS. 	
WORKS, INCLUDING BUT NOT LIMITED TO FOR NEW AND EXISTING STRUCTURES DURING CO	MWORK, FALSEWORK, SCAFFOLDING AND THE SUPPORT OF NSTRUCTION, ARE THE RESPONSIBILITY OF THE CONTRACTOR.	 WORKSAFE BC GUIDELINES. ENSURE INSPECTION FOR AND IDENTIFICATION OF ASBESTOS-CONTAINING MATERIALS IS COMPLETED PRIOR TO DEMOLITION. 	
STRUCTURAL COMPONENTS. 1. THE GENERAL CONTRACTOR SHALL PI	ME IS DEPENDENT ON THE FULL INTERACTION OF ALL ROVIDE ALL NECESSARY TEMPORARY BRACING DURING	 STOP WORK IMMEDIATELY WHEN MATERIAL RESEMBLING MOULD IS ENCOUNTERED DURING DEMOLITION WORK. PRODUCTS 	
ANCILLARY WORK.	BLE FOR THE DESIGN OR FIELD REVIEW OF TEMPORARY OR	 CONTRACTOR SHALL OBTAIN NECESSARY PERMITS ON BEHALF OF THE OWNER, AND OTHER PERMITS REQUIRED FOR WORK AND ITS VARIOUS PARTS. 	
STRUCTURE.	FERENCE OR DISTURBANCE TO EXISTING BUILDING	01 45 00 QUALITY CONTROL 1. FIELD REVIEW	
RESPONSIBILITY OF OTHERS. 5. DOCUMENTS REQUIRED	STRUCTURE NOT AFFECTED BY THIS WORK REMAIN THE SOLE	 CONTRACTOR'S INSPECTION: CONDUCT INSPECTION OF WORK, IDENTIFY DEFICIENCIES AND DEFECTS, AND REPAIR AS REQUIRED TO CONFORM TO CONTRACT DOCUMENTS. 	
 MAINTAIN AT JOB SITE, ONE COPY OF EACH DO IFC DRAWINGS AND ALL REVISIONS, SITE II REVIEWED SHOP DRAWINGS. 		 REQUEST EOR'S FIELD REVIEW. ALLOW EOR ACCESS TO WORK. PROVIDE EQUIPMENT REQUIRED FOR ACCESS TO EXECUTE FIELD REVIEW OR TESTING. 	
DESIGN LOADS		 GIVE TIMELY NOTICE REQUESTING FIELD REVIEW IF WORK IS DESIGNATED FOR FIELD REVIEW. MIN. 48 HOURS. THE EOR SHALL PROVIDE FIELD REVIEW TO WORK RELEVANT TO THE STRUCTURAL DESIGN TO ENSURE 	
ALL LOADS ARE UNFACTORED UNLESS NOTED OTHERWIS LOCATION:	GE. QUESNEL, B.C.	CONFORMANCE. THIS REVIEW DOES NOT GUARANTEE THE WORK FOR WHICH REMAINS THE RESPONSIBILITY OF THE CONTRACTOR. 5. DO NOT CONCEAL WORK PRIOR TO FIELD REVIEW.	
IMPORTANCE FACTOR (ULS): SNOW: SEISMIC:	IS = 1.0 IE = 1.0	 SUBMIT COPIES OF INDEPENDENT TESTING AGENCY INSPECTION REPORTS EOR. TESTS MATERIAL TESTING SHALL BE DIRECTED BY EOR AT THE EXPENSE OF THE CONTRACTOR. 	
WIND: SPECTRAL RESPONSE:	IW = 1.0 SA (0.2) = 0.113	 FURNISH LUMBER GRADING CERTIFICATES FOR HEAVY TIMBER AS REQUESTED. 01 56 00 TEMPORARY ENCLOSURES 	
	SA (0.5) = 0.089 SA (1.0) = 0.059 SA (2.0) = 0.040	1. GENERAL 1. HOARDING	
PGA: SITE CLASS:	0.049 D (ASSUMED)	TIOARDING TO THE PROPERTY ENCLOSURES AS REQUIRED TO PROTECT STRUCTURE FROM WEATHER AND TEMPERATURE. DESIGN ENCLOSURES TO WITHSTAND WIND PRESSURE AND SNOW LOADING.	
GROUND SNOW LOAD: ASSOCIATED RAIN LOAD: DRIFT LOAD:	$S_S = 3.0$ kPa $S_R = 0.1$ kPa SEE DRIFT DIAGRAMS	01 61 00 COMMON PRODUCT REQUIREMENTS	
WIND: q _{1/50} : INTERNAL PRESSURE CAT.:	0.0.31kPa	1. GENERAL 1. QUALITY	
WIND EXPOSURE C _e :	2 ROUGH TERRAIN	 PRODUCTS, MATERIALS, EQUIPMENT AND ARTICLES INCORPORATED IN WORK SHALL BE NEW, NOT DAMAGED OR DEFECTIVE, AND OF BEST QUALITY FOR PURPOSE INTENDED. IF REQUESTED, FURNISH EVIDENCE AS TO TYPE, SOURCE AND QUALITY OF PRODUCTS PROVIDED. 	
UNFACTORED LIVE LOADS: FLOORS (RESIDENTIAL): VERT. GUARDRAIL LOADING:	4.8 kPa 1.5kN/m	 DEFECTIVE PRODUCTS, WHENEVER IDENTIFIED PRIOR TO COMPLETION OF WORK, WILL BE REJECTED, U.N.O., MAINTAIN UNIFORMITY OF MANUFACTURE FOR ANY PARTICULAR OR LIKE ITEM THROUGHOUT BUILDING. 	
HOR. GUARDRAIL LOADING: UNFACTORED DEAD LOADS:	1.0kN @ POINT OR 0.75kN/m	03 10 00 CONCRETE FORMING AND ACCESSORIES	
ROOF (WOOD-FRAME): FLOOR W/ OUT TOPPER (WOOD-FRAME):	0.75kPa 0.75kPa	1. GENERAL	
PARTITION LOAD:	1.00kPa	1. REFERENCE STANDARDS	•
PARTITION LOAD: SOILS: TYPE & CONDITION:	GRANULAR/COHESIVE – TO BE CONFIRMED BY GEOTECH.	1. CSA S269.1, FALSEWORK AND FORMWORK. 2. PRODUCTS 1. MATERIALS	•
PARTITION LOAD: SOILS: TYPE & CONDITION: ALLOWABLE SOIL BEARING CAPACITY @ MIN. CONFINI FACTORED SOIL BEARING CAPACITY @MIN. CONFINEN	GRANULAR/COHESIVE – TO BE CONFIRMED BY GEOTECH. EMENT OF 0.4m: 75kPa	 CSA S269.1, FALSEWORK AND FORMWORK. PRODUCTS MATERIALS FORMWORK MATERIALS: FOR CONCRETE WITHOUT SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CAN/CSA 086. 	•
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PARTITION LOAD: SOILS: TYPE & CONDITION: ALLOWABLE SOIL BEARING CAPACITY @ MIN. CONFINENT FACTORED SOIL BEARING CAPACITY @MIN. CONFINENT FACTORED SOIL BEARING CAPACITY OF THE SURE COEFFICIENT: DESIGN OF FOUNDATIONS IS BASED ON AN ALLOWABLE SEARING CAPACITY OF 112.5 kPa. THIS SHALL BE VERIFIED EXCAVATION. O1 33 00 SUBMITTAL PROCEDURES 1. ADMINISTRATIVE 1. DO NOT PROCEED WITH WORK AFFECTED BY 1. ALLOW 3 DAYS FOR CONSULTANT'S REVIE 2. REVIEW SUBMITTALS PRIOR TO SUBMISSION TO SUBMITTALS NOT STAMPED, SIGNED, DATI REJECTED. 3. NOTIFY CONSULTANT AT TIME OF SUBMISSION REASONING. 4. VERIFY FIELD MEASUREMENTS AND AFFECTED SOING. 4. VERIFY FIELD MEASUREMENTS AND AFFECTED SOING. 5. CONTRACTOR'S RESPONSIBILITY FOR ERROR: REVIEW OF SUBMITTALS. 2. SHOP DRAWINGS AND SPECIALTY ENGINEER 1. SUBMIT DRAWINGS STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESIDENT STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESIDENT STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESIDENT STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESIDENT STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESIDENT STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESIDENT STAMPED AND SIGNED BY AS DEMOLITION PLANS, PRECAST CONSTELL CONNECTIONS, OPEN WEB STELL CONNECTIONS, OPEN WEB ST	GRANULAR/COHESIVE – TO BE CONFIRMED BY GEOTECH. EMENT OF 0.4m: 75kPa MENT OF 0.4m: 112kPa Y = 20kN/m³ 35° K _a = 0.271 K _p = 2.5 SOIL BEARING CAPACITY OF 75 kPa AND AN ULTIMATE SOIL O ON SITE BY A GEOTECHNICAL ENGINEER FOLLOWING SUBMITTALS UNTIL REVIEW IS COMPLETE. W OF EACH SUBMISSION. TO EOR. ED, AND IDENTIFIED AS TO SPECIFIC PROJECT WILL BE N ALL DEVIATIONS FROM DESIGN DRAWINGS, STATING D ADJACENT WORK ARE CO-ORDINATED. S AND OMISSIONS IN SUBMISSION IS NOT RELIEVED BY EOR'S SUPPLIER OR FABRICATORS SPECIALTY ENGINEER, OJECT SITE, AS REQUIRED HEREIN. PONSIBLE FOR THE DESIGN, PREPARATION OF SHOP OT LIMITED TO, THE FOLLOWING: Y THE CONTRACTOR OR SUB-CONTRACTOR SUPPLIERS, SUCH ICRETE COMPONENTS, COLD-FORMED STEEL, STRUCTURAL EL JOISTS, OPEN WEB WOOD TRUSSES, I-JOISTS, ETC. NS. INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:	1. CSA \$289.1, FALSEWORK AND FORMWORK. 2. PRODUCTS 1. MATERIALS 1. FORMWORK MATERIALS: 1. FOR CONCRETE WITHOUT SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CAN/CSA 086. 2. FOR CONCRETE WITH SPECIAL ARCHITECTURAL FEATURES, USE FORMWORK MATERIALS TO CSA A23.1/A23.2. 3. RIGID INSULATION BOARD: TO CAN/ULC-\$701. 2. FORM RELEASE AGENT: NOT TO STAIN CONCRETE OR IMPAIR FINISHES. 3. EXECUTION 1. FABRICATION AND ERECTION 1. VERIFY LINES, LEVELS, AND CENTRES BEFORE PROCEEDING WITH FORMWORK/FALSEWORK AND ENSURE DIMENSIONS AGREE WITH DRAWINGS. 2. DO NOT PLACE SHORES AND MUD SILLS ON FROZEN GROUND. 3. PROVIDE SITE DRAINAGE TO PREVENT WASHOUT OF SOIL SUPPORTING MUD SILLS AND SHORES. 4. FABRICATE AND ERECT FORMWORK IN ACCORDANCE WITH CAN/CSA \$269.1 5. USE [25] MM CHAMFER STRIPS ON EXTERNAL CORNERS AND [25] MM FILLETS AT INTERIOR CORNERS, JOINTS, U.N.O. 6. FORM CHASES, SLOTS, OPENINGS, DRIPS, RECESSES, EXPANSION AND CONTROL JOINTS AS INDICATED. 7. BUILD IN ANCHORS, SLEEVES, AND OTHER INSERTS OR BLOCK-OUTS REQUIRED TO ACCOMMODATE WORK SPECIFIED IN OTHER DISSIPLINE DESIGNS. 1. ALL SUCH INSERTS AND BLOCKOUTS ARE SUBJECT TO APPROVAL BY THE EOR. 2. ENSURE THAT ANCHORS AND INSERTS WILL NOT PROTRUDE BEYOND SUFFACES DESIGNATED TO RECEIVE APPLIED FINISHES. 8. CLEAN FORMWORK IN ACCORDANCE WITH CSA A23.1/A23.2, BEFORE PLACING CONCRETE. 1. 3 DAYS FOR WALLS. 2. 2 DAYS FOR FOOTINGS. 2. PROVAL AND RESHORING 1. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR WALLS. 2. 2 DAYS FOR WALLS. 3. PROVIDE NECESSARY RESHORING OF MEMBERS WHERE EARLY REMOVAL OF FORMS MAY BE REQUIRED. 403 20 00 CONCRETE REINFORCING 1. GENERAL 1. REFERENCE STANDARDS 1. CSA A23.1/A23.2, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION/TEST METHODS	0
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PARTITION LOAD: SOILS: TYPE & CONDITION: ALLOWABLE SOIL BEARING CAPACITY @ MIN. CONFINENT FACTORED SOIL BEARING CAPACITY FILE. ENGINEERED FILL: TOTAL UNIT WEIGHT: ANGLE OF INTERNAL FRICTION: ACTIVE EARTH PRESSURE COEFFICIENT: PASSIVE EARTH PRESSURE COEFFICIENT: DESIGN OF FOUNDATIONS IS BASED ON AN ALLOWABLE SEARING CAPACITY OF 112.5 kPa. THIS SHALL BE VERIFIED EXCAVATION. O1 33 00 SUBMITTAL PROCEDURES 1. ADMINISTRATIVE 1. DO NOT PROCEED WITH WORK AFFECTED BY 1. ALLOW 3 DAYS FOR CONSULTANT'S REVIE 2. REVIEW SUBMITTALS PRIOR TO SUBMISSION IN 1. SUBMITTALS NOT STAMPED, SIGNED, DATI REJECTED. 3. NOTIFY CONSULTANT AT TIME OF SUBMISSION REASONING. 4. VERIFY FIELD MEASUREMENTS AND AFFECTED SEARCH OF SUBMITTALS. 2. SHOP DRAWINGS AND SPECIALTY ENGINEER 1. SUBMIT DRAWINGS STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESENTION OF THE PRESENTANCE AND FIELD REVIEW OF, BUT IN 1. STRUCTURAL ELEMENTS DESIGNED BY AS DEMOLITION PLANS, PRECAST CON STEEL CONNECTIONS, OPEN WEB STE 2. HELICAL PILES AND DEEP FOUNDATION 3. FORMWORK AND SHORING. 4. SECONDARY STRUCTURAL ELEMENTS 1. STAIRS, GUARDRAILS AND HANDRY 2. ARCHITECTURAL CEILINGS. 3. SITE WORK ELEMENTS EXTERIOR POOLS, SIGNS, AND CIVIL WORK. 4. CLADDING, WINDOW MULLIONS, GI 5. ATTACHMENTS AND BRACING FOR	GRANULAR/COHESIVE – TO BE CONFIRMED BY GEOTECH. EMENT OF 0.4m: 75kPa MENT OF 0.4m: 112kPa Y = 20kN/m³ 35° Ka = 0.271 Kp = 2.5 SOIL BEARING CAPACITY OF 75 kPa AND AN ULTIMATE SOIL D ON SITE BY A GEOTECHNICAL ENGINEER FOLLOWING SUBMITTALS UNTIL REVIEW IS COMPLETE. W OF EACH SUBMISSION. TO EOR. ED, AND IDENTIFIED AS TO SPECIFIC PROJECT WILL BE N ALL DEVIATIONS FROM DESIGN DRAWINGS, STATING D ADJACENT WORK ARE CO-ORDINATED. S AND OMISSIONS IN SUBMISSION IS NOT RELIEVED BY EOR'S SUPPLIER OR FABRICATORS SPECIALTY ENGINEER, PONSIBLE FOR THE DESIGN, PREPARATION OF SHOP OT LIMITED TO, THE FOLLOWING: Y THE CONTRACTOR OR SUB-CONTRACTOR SUPPLIERS, SUCH ICRETE COMPONENTS, COLD-FORMED STEEL, STRUCTURAL EL JOISTS, OPEN WEB WOOD TRUSSES, I-JOISTS, ETC. NS. INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: AILS. TO THE BASE BUILDING SUCH AS LANDSCAPING COMPONENTS,	1. CSA S288.1, FALSEWORK AND FORMWORK. 2. PRODUCTS 1. MATERIALS 1. FOR CONCRETE WITHOUT SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CANICSA 086. 2. FOR CONCRETE WITH SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CANICSA 086. 2. FOR CONCRETE WITH SPECIAL ARCHITECTURAL FEATURES, USE FORMWORK MATERIALS TO CSA A23.1/A23.2. 3. RIGID INSULATION BOARD: TO CANVULC-S701. 2. FORM RELEASE AGENT: NOT TO STAIN CONCRETE OR IMPAIR FINISHES. 3. EXECUTION 1. FABRICATION AND ERECTION 1. VERIFY LINES, LEVELS, AND CENTRES BEFORE PROCEEDING WITH FORMWORK/FALSEWORK AND ENSURE DIMENSIONS AGREE WITH DRAWINGS. 2. DO NOT PLACE SHORES AND MUD SILLS ON FROZEN GROUND. 3. PROVIDE SITE DRAINAGE TO PREVENT WASHOUT OF SOIL SUPPORTING MUD SILLS AND SHORES. 4. FABRICATE AND ERECT FORMWORK IN ACCORDANCE WITH CANCSA \$269.1 5. USE [25] MM CHAMFER STRIPS ON EXTERNAL CORNERS AND [25] MM FILLETS AT INTERIOR CORNERS, JOINTS, U. N.O. 6. FORM CHASES, SLOTS, OPENINGS, DRIPS, RECESSES, EXPANSION AND CONTROL JOINTS AS INDICATED. 7. BUILD IN ANCHORS, SLEEVES, AND OTHER INSERTS OR BLOCK-OUTS REQUIRED TO ACCOMMODATE WORK SPECIFIED IN OTHER DISCIPLINE DESIGNS. 1. ALL SUCH INSERTS AND BLOCKOUTS ARE SUBJECT TO APPROVAL BY THE EOR. 2. ENSURE THAT ANCHORS AND INSERTS WILL NOT PROTRUDE BEYOND SURFACES DESIGNATED TO RECEIVE APPLIED FINISHES. 8. CLEAN FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR WALLS. 2. PROVIDE NECESSARY RESHORING. 1. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR WALLS. 2. CREMOVE FORMWORK FOR COLUMNS, BEAMS AND SUSPENDED SLABS WHEN CONCRETE HAS REACHED 70% OF ITS 28 DAY DESIGNS STRENGTH OR MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR FOOTINGS. 2. REMOVE FORMWORK FOR COUNCRETE STRUCTURES. 3. CSA 423 1/423 2, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION/TEST METHODS AND STANDARD PRACTICES FOR CONCRETE. 2. CANCSA A23 1, DESIGN	0
PARTITION LOAD: SOILS: TYPE & CONDITION: ALLOWABLE SOIL BEARING CAPACITY @ MIN. CONFINENTY FACTORED SOIL BEARING CAPACITY @ MIN. CONFINENTY ENGINEERED FILL: TOTAL UNIT WEIGHT: ANGLE OF INTERNAL FRICTION: ACTIVE EARTH PRESSURE COEFFICIENT: PASSIVE EARTH PRESSURE COEFFICIENT: PASSIVE EARTH PRESSURE COEFFICIENT: DESIGN OF FOUNDATIONS IS BASED ON AN ALLOWABLE SEARING CAPACITY OF 112.5 kPa. THIS SHALL BE VERIFIED EXCAVATION. O1 33 00 SUBMITTAL PROCEDURES 1. ADMINISTRATIVE 1. DO NOT PROCEED WITH WORK AFFECTED BY 1. ALLOW 3 DAYS FOR CONSULTANT'S REVIE 2. REVIEW SUBMITTALS PRIOR TO SUBMISSION TO SUBMISSION TO SUBMITTALS NOT STAMPED, SIGNED, DATI REJECTED. 3. NOTIFY CONSULTANT AT TIME OF SUBMISSION REASONING. 4. VERIFY FIELD MEASUREMENTS AND AFFECTED SUBMITTALS. 2. SHOP DRAWINGS AND SPECIALTY ENGINEER 1. SUBMIT DRAWINGS STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PRESENT OF SUBMITTALS. 2. 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PONSIBLE FOR THE DESIGN, PREPARATION OF SHOP OT LIMITED TO, THE FOLLOWING: Y THE CONTRACTOR OR SUB-CONTRACTOR SUPPLIERS, SUCH ICRETE COMPONENTS, COLD-FORMED STEEL, STRUCTURAL EL JOISTS, OPEN WEB WOOD TRUSSES, I-JOISTS, ETC. NS. INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ALLS. TO THE BASE BUILDING SUCH AS LANDSCAPING COMPONENTS, LAZING AND STORE FRONTS. ELECTRICAL AND MECHANICAL COMPONENTS. RECAST CLADDING. UD ASSOCIATED ATTACHMENTS.	1. CSA S2881, FALSEWORK AND FORMWORK. 2. PRODUCTS 1. MATERIALS 1. FOR CONCRETE WITHOUT SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CAN/CSA 088. 2. FOR CONCRETE WITH SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CSA A23 1/A23 2. 3. RIGID INSULATION BOARD: TO CANULIC-S701. 2. FORM RELEASE AGENT: NOT TO STAIN CONCRETE OR IMPAIR FINISHES. 3. EXECUTION 1. FABRICATION AND ERECTION 1. VERIFY LINES, LEVELS, AND CENTRES BEFORE PROCEEDING WITH FORMWORK/FALSEWORK AND ENSURE DIMENSIONS AGREE WITH PRAYINIGS. 2. DO NOT PLACE SHORES AND MUD SILLS ON FROZEN GROUND. 3. PROVIDES TIES DEVINAGE TO PREVENT WASHOUT OF SOIL SUPPORTING MUD SILLS AND SHORES. 4. FABRICATE AND ERECT FORMWORK IN ACCORDANCE WITH CAN/CSA \$269.1 5. USE [25] MM CHAMFER STRIPS ON EXTERNAL CORNERS AND [25] MM FILLETS AT INTERIOR CORNERS, JOINTS, U. N.O. 6. FORM CHASES, SLOTS, OPENINGS, DRIPS, RECESSES, EXPANSION AND CONTROL JOINTS AS INDICATED. 7. BUILD IN ANCHORS, SLEEVES, AND OTHER INSERTS OR BLOCK-OUTS REQUIRED TO ACCOMMODATE WORK SPECIFIED IN OTHER DISCIPLINE DESIGNS. 1. ALL SUCH INSERTS AND BLOCK-OUTS ARE SUBJECT TO APPROVAL BY THE EOR. 2. ENSURE THAT ANCHORS AND INSERTS WILL NOT PROTRUDE BEYOND SURFACES DESIGNATED TO RECEIVE APPLIED FINISHES. 8. CLEAN FORMWORK IN ACCORDANCE WITH CSA A23.1/A23.2, BEFORE PLACING CONCRETE. 1. SLAYS FOR WALLS. 2. ERMOVAL AND RESHORING 1. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR FOOTINGS. 2. REMOVE FORMWORK FOR COLUMNS, BEAMS AND SUSPENDED SLABS WHEN CONCRETE HAS REACHED 70% OF ITS 28 DAY DESIGN STRENGTH OR MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR FOOTINGS. 2. REMOVAL AND RESHORING 1. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR FOOTINGS. 2. REMOVAL AND RESHORING. 3. PROVIDE NECESSARY RESHORING OF MEMBERS WHERE EARLY REMOVAL OF FORMS MAY BE REQUIRED. 63 20 00 CONCRETE REINFORCING STRENGTH OR MINI	0
PARTITION LOAD: SOILS: TYPE & CONDITION: ALLOWABLE SOIL BEARING CAPACITY @ MIN. CONFINE FACTORED SOIL BEARING CAPACITY @ MIN. CONFINE	GRANULAR/COHESIVE – TO BE CONFIRMED BY GEOTECH. EMENT OF 0.4m: 75kPa MENT OF 0.4m: 112kPa Y = 20kN/m³ 35° 36° 36 = 0.271 37 = 2.5 SOIL BEARING CAPACITY OF 75 kPa AND AN ULTIMATE SOIL D'ON SITE BY A GEOTECHNICAL ENGINEER FOLLOWING SUBMITTALS UNTIL REVIEW IS COMPLETE. W OF EACH SUBMISSION. TO EOR. ED, AND IDENTIFIED AS TO SPECIFIC PROJECT WILL BE N ALL DEVIATIONS FROM DESIGN DRAWINGS, STATING D'ADJACENT WORK ARE CO-ORDINATED. S AND OMISSIONS IN SUBMISSION IS NOT RELIEVED BY EOR'S SUPPLIER OR FABRICATORS SPECIALTY ENGINEER, OJECT SITE, AS REQUIRED HEREIN. PONSIBLE FOR THE DESIGN, PREPARATION OF SHOP OT LIMITED TO, THE FOLLOWING: Y THE CONTRACTOR OR SUB-CONTRACTOR SUPPLIERS, SUCH ICRETE COMPONENTS, COLD-FORMED STEEL, STRUCTURAL EL JOISTS, OPEN WEB WOOD TRUSSES, I-JOISTS, ETC. NS. INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: ALLS. TO THE BASE BUILDING SUCH AS LANDSCAPING COMPONENTS, LAZING AND STORE FRONTS. ELECTRICAL AND MECHANICAL COMPONENTS. RECAST CLADDING. ND ASSOCIATED ATTACHMENTS. UD BEARING LIGHT GAUGE STEEL STUD WALLS. S.	1. CSA 5269 1, FALSEWORK AND FORMWORK. 2. PRODUCTS 1. MATERIALS 1. FORROWORK MATERIALS: 1. FOR CONCRETE WITHOUT SPECIAL ARCHITECTURAL FEATURES, USE WOOD AND WOOD PRODUCT FORMWORK MATERIALS TO CANCCSA 086. 2. FOR CONCRETE WITH SPECIAL ARCHITECTURAL FEATURES, USE FORMWORK MATERIALS TO CSA A23 1/323 2. 3. RIGID INSULATION BOARD: TO CANVUC-S701. 2. FORM RELEASE AGENT: NOT TO STAIN CONCRETE OR IMPAIR FINISHES. 3. EXECUTION 1. FABRICATION AND ERROTTON 1. VERIFY LINES, LEVELS, AND CENTRES BEFORE PROCEEDING WITH FORMWORK/FALSEWORK AND ENSURE DIMENSIONS AGREE WITH DRAWINGS. 2. DO NOT PLACE SHORES AND MUD SILLS ON FROZEN GROUND. 3. PROVIDE SITE DRAINAGE TO PREVENT WASHOLT OF SOIL SUPPORTING MUD SILLS AND SHORES. 4. FABRICATE AND ERROT FORMWORK IN ACCORDANCE WITH CANCCSA 5269.1 5. USE 1251 MM CHAMFER STRIPS ON EXTERNAL CORNERS AND [25] MM FILLETS AT INTERIOR CORNERS, JOINTS, U.N.O. 6. FORM CHASES, SLOTS, OPENINGS, DRIPS, RECESSES, EXPANSION AND CONTROL, JOINTS AS INDICATED. 7. BUILD IN ANCHORS, SLEEVES, AND OTHER INSERTS OR BLOCK-OUTS REQUIRED TO ACCOMMODATE WORK SPECIFIED IN OTHER DISCIPLINE DESIGNS. 1. ALL SUCH INSERTS AND BLOCKOUTS ARE SUBJECT TO APPROVAL BY THE EOR. 2. ENDIVERT HAT AND HORDOR AND INSERTS WILL NOT PROTRUDE BEYOND SURFACES DESIGNATED TO RECEIVE APPLIED FINISHS. 8. CLEAN FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. STANS FOR WALLS. 2. 2 DAYS FOR FOLLOWING. 1. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. 3 DAYS FOR WALLS. 2. 2 DAYS FOR FOLLOWING. 3. PROVIDE NECESSARY RESHORING OF MEMBERS WHERE EARLY REMOVAL OF FORMS MAY BE REQUIRED. 4. CSA V136, WELLOW TO PLACE FOR FOLLOWING MINIMUM PERIOD NOTED ABOVE, WHICHEVER COMES LATER, AND REPLACE IMMEDIATELY WITH A DEQUIRED FROM STANDARD PRACTICES OF CONCRETE. 2. CANCOSA A23 1/A23 2, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION. 3. PROVIDE NECESSARY RESHORING OF MEMBERS WHERE EARLY REMOVAL OF FORMS MAY BE REQUIRED. 4. CSA W136, WELDING OF REINFORCING BARS IN REINFORCEM	0
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PARTITION LOAD: SOILS: TYPE & CONDITION: ALLOWABLE SOIL BEARING CAPACITY @ MIN. CONFINE FACTORED SOIL BEARING CAPACITY @MIN. CONFINE PASSIVE EARTH PRESSURE COEFFICIENT: DESIGN OF FOUNDATIONS IS BASED ON AN ALLOWABLE SEARING CAPACITY OF 112.5 kPa. THIS SHALL BE VERIFIED EXCAVATION. O13300 SUBMITTAL PROCEDURES 1. ADMINISTRATIVE 1. DO NOT PROCEED WITH WORK AFFECTED BY 1. ALLOW 3 DAYS FOR CONSULTANT'S REVIE 2. REVIEW SUBMITTALS PRIOR TO SUBMISSION IN REJECTED. 3. NOTIFY CONSULTANT AT TIME OF SUBMISSION REASONING. 4. VERIFY FIELD MEASUREMENTS AND AFFECTE 5. CONTRACTOR'S RESPONSIBILITY FOR ERROR REVIEW OF SUBMITTALS. 2. SHOP DRAWINGS AND SPECIALTY ENGINEER 1. SUBMIT DRAWINGS STAMPED AND SIGNED BY REGISTERED IN THE JURISDICTION OF THE PR 1. THE SPECIALTY ENGINEER SHALL BE RESPORAWINGS, AND FIELD REVIEW OF, BUT IN. 1. STRUCTURAL ELEMENTS DESIGNED BY AS DEMOLITION PLANS, PRECAST CONSTELL CONNECTIONS, OPEN WEB STE 2. HELICAL PILES AND DEEP FOUNDATION 3. FORMWORK AND SHORING. 4. 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FOR CHASES SILDS ON EXTERNAL CONNERS AND [25] MM FILLETS AT INTERIOR CORNERS, JOINTS, LIN. 5. JOSE [25] LIM CHARLES FOR MY GROWN IN ACCORDING WITH CANDON AND CONTROL JOINTS AS INDICATED. 7. BUILD IN ANCHORS, SILECYS, AND OTHER INSERTS OR BLOCK-OUTS REQUIRED TO ACCOMMODATE WORK SPECIFIED IN OTHER DISCIPLINE DESIGNS. 1. ALL SUCH INSERTS AND BLOCKOUTS ARE SUBJECT TO APPROVAL BY THE EOR. 2. ENSURE THAT ANCHORS AND INSERTS WILL NOT PROTRUDE BEYOND SURFACES DESIGNATED TO RECEIVE APPLIED FINISHES. 8. CLEAN FORMWORK IN ACCORDANCE WITH CSA A23.1/223.2, BEFORE PLACING CONCRETE. 1. SHAWS FOR WALLS. 2. ZOAN'S FOR WALLS. 2. ZOAN'S FOR WALLS. 3. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 1. SHAWS FORWWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 2. 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FABRICATE AND ENECT FORMWORK IN ACCORDANCE WITH CANCGS A2698. 5. USE 125 MM CHAMFER STRIPS ON EXTERNAL CORNERS AND [25] MM FILLETS AT INTERIOR CORNERS, JOINTS, UN.O. 6. FORM CHASES, SLOTS, OPENINGS, DRIPS, RECESSES, EXPANSION AND CONTROL JOINTS AS INDICATED. 7. BUILD IN ANCHORS, SLEEVES, AND OTHER INSERTS OR BLOCK-OUTS REQUIRED TO ACCOMMODATE WORK SPECIFIED IN OTHER DISCIPLINE DESIGNS. 1. ALL SUCH INSERTS AND BLOCK OUTS ARE SUBJECT TO APPROVAL BY THE EOR. 2. ENSURE THAT ANCHORS AND INSERTS WILL NOT PROTRUDE BEYOND SUFFACES DESIGNATED TO RECOMMODATE WORK SPECIFIED IN OTHER DISCIPLINE DESIGNS. 3. LEAVE FORMWORK IN ACCORDANCE WITH CASA 223.1/A23.2, BEFORE PLACING CONCRETE. 2. REMOVAL AND RESHORING. 1. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 2. REMOVAL AND RESHORING. 3. LEAVE FORMWORK IN PLACE FOR FOLLOWING MINIMUM PERIODS OF TIME AFTER PLACING CONCRETE. 4. SA WAS FOR WALLS. 2. LOAYS FOR WALLS. 2. LOAYS FOR WALLS. 3. 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2. FABRICATION FABRICATE REINFORCING STEEL IN ACCORDANCE WITH CSA A23.1/A23.2 2. OBTAIN APPROVAL FOR LOCATIONS OF REINFORCEMENT SPLICES OTHER THAN THOSE SHOWN ON PLACING DRAWINGS. 3. WELD REINFORCEMENT IN ACCORDANCE WITH CSA W186. FIELD BENDING 1. DO NOT FIELD BEND OR FIELD WELD REINFORCEMENT EXCEPT WHERE INDICATED OR AUTHORIZED BY

2. WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS SPECIFIED OR AUTHORIZED BY THE EOR. 1. WELDING OF REINFORCING BARS SHALL CONFORM TO AND BE CARRIED OUT BY COMPANIES CERTIFIED IN ACCORDANCE WITH CSA-W186.

1. PLACE REINFORCING STEEL AS INDICATED ON PLACING DRAWINGS AND IN ACCORDANCE WITH CSA 2. USE PLAIN ROUND BARS AS SLIP DOWELS IN CONCRETE.

3. PLACING REINFORCEMENT

1. PAINT PORTION OF DOWEL INTENDED TO MOVE WITHIN HARDENED CONCRETE WITH ONE COAT OF ASPHALT PAINT. 2. APPLY THICK EVEN FILM OF LUBRICATING GREASE WHEN PAINT IS DRY. 3. PRIOR TO PLACING CONCRETE, OBTAIN EOR'S APPROVAL OF REINFORCING MATERIAL AND PLACEMENT.

1. MAINTAIN COVER TO REINFORCEMENT DURING CONCRETE POUR. DO NOT WET DOWEL REINFORCEMENT UNLESS APPROVED BY THE EOR. CONTINUE FOOTING STEEL TO CROSS-LAP MINIMUM 300MM AT CORNERS OR PROVIDE CORNER BARS.

4. PROVIDE CORNER BARS FOR ALL WALL REINFORCING U.N.O.. 5. MINIMUM REINFORCEMENT AROUND OPENINGS LARGER THAN 300mm: 1. 2-15M EACH SIDE OF OPENING EXTENDED 600mm PAST CORNERS, 1-10M X 1200mm DIAGONAL AT

EACH CORNER. 6. MINIMUM COVER FOR REINFORCEMENT SHALL BE AS STATED IN TABLE BELOW U.N.O. ON DRAWINGS. 7. SPLICE REINFORCEMENT FOR REINFORCED CONCRETE SHALL BE AS STATED IN THE TABLE BELOW

REINFORCING STEEL CONCRETE COVER TABLE					
EXPOSURE CONDITION	EXPOSURE CLASS				
EXPOSURE CONDITION	N	F&S	C & A		
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH	-	75mm	75mm		
BEAMS, GIRDER, COLUMNS & PILES	30mm	40mm	60mm		
SLABS, WALLS, JOISTS, SHELLS & FOLDED PLATES	25mm	40mm	60mm		
SLAB SOFFITS, INTERIOR FACE OF WALLS	40mm	40mm	60mm		
RATIO OF COVER TO NOMINAL BAR DIA.	1	1.5	2		
RATIO OF COVER TO MAX. AGGREGATE SIZE	1	1.5	2		

THE REBAR TABLES ARE TO BE USED WITH NORMAL DENSITY CONCRETE AND NON-COATED BARS WITH fy = 400MPa.

UNLESS NOTED OTHERWISE ON DRAWINGS.

	TENSION REBAR DEVELOPMENT LENGTH (mm)								
REBAR SIZE	f'c=2	5MPa	f'c=30MPa		f'c=35MPa		f'c=40MPa		
REBAR SIZE	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	
10M	377	290	338	260	312	240	299	230	
15M	559	430	507	390	481	370	441	340	
20M	754	580	689	530	637	490	598	460	
25M	1170	900	1066	820	988	760	923	710	
30M	1404	1080	1287	990	1183	910	1105	850	
35M	1599	1230	1495	1150	1378	1060	1300	1000	

TENSION REBAR LAP SPLICE LENGTH (mm)								
REBAR SIZE	f'c=2	5MPa	f'c=30	OMPa f'c=3		5MPa	f'c=40MPa	
REDAR SIZE	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS	TOP	OTHERS
10M	490	377	439	338	406	312	389	299
15M	727	559	659	507	625	481	575	442
20M	980	754	896	689	828	637	777	598
25M	1521	1170	1386	1066	1284	988	1200	923
30M	1825	1404	1673	1287	1538	1183	1437	1105
35M	2079	1599	1944	1495	1791	1378	1690	1300
	I					<u> </u>		

MIN. CLEAR SPACING OF BARS MUST BE AT LEAST 1.4DB.

 FOR SLABS, WALLS, SHELLS, OR FOLDED PLATES HAVE CLEAR SPACING BETWEEN BARS BEING DEVELOPED NOT LESS THAN 2D.

A TOP BAR IS DEFINED AS A HORIZONTAL BAR HAVING A MIN. OF 300MM OF CONCRETE BELOW IT.

COMPRESSION REBAR DEVELPOMENT LENGTH (mm)						
CONCRETE		REBAR SIZE				
STRENGTH	10M	15M	20M	25M	30M	35M
25MPa	190	290	380	480	580	670
30МРа	180	290	350	440	530	620

COMPRESSION REBAR LAP SPLICE LENGTH (mm)							
REBAR SIZE							
10M	15M	20M	25M	30M	35M		
300	440	580	730	880	1020		

03 30 00 CAST-IN-PLACE CONCRETE GENERAL

REFERENCE STANDARDS

1. CSA A23.1/A23.2, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION/METHODS OF TEST AND STANDARD PRACTICES FOR CONCRETE. 2. QUALITY ASSURANCE

1. MIN. 2 WEEKS PRIOR TO STARTING CONCRETE WORK, PROVIDE PROPOSED QUALITY CONTROL PROCEDURES FOR REVIEW BY EOR ON FOLLOWING ITEMS:

1. MIX DESIGN 2. FALSEWORK ERECTION. 3. HOT WEATHER CONCRETE 4. COLD WEATHER CONCRETE.

CURING.

6. FINISHES. 7. FORMWORK REMOVAL.

JOINTS. 3. SITE CONDITIONS

1. PLACING CONCRETE DURING RAIN OR WEATHER EVENTS THAT COULD DAMAGE CONCRETE IS

2. PROTECT NEWLY PLACED CONCRETE FROM RAIN OR WEATHER EVENTS IN ACCORDANCE WITH CSA A23.1/A23.2.

2. USE SUCH EQUIPMENT WHEN AMBIENT TEMPERATURE BELOW 5°C, OR WHEN TEMPERATURE MAY FALL BELOW 5°C BEFORE CONCRETE IS CURED.

3. PLACING CONCRETE UPON OR AGAINST SURFACE AT TEMPERATURE BELOW 5°C IS PROHIBITED. 4. HOT WEATHER PROTECTION:

1. PROTECT CONCRETE FROM DIRECT SUNLIGHT WHEN AMBIENT TEMPERATURE ABOVE 27°C.

2. PREVENT FORMS OF GETTING TOO HOT BEFORE CONCRETE PLACED. APPLY ACCEPTED METHODS OF COOLING NOT TO AFFECT CONCRETE ADVERSELY.

3. COLD WEATHER PROTECTION:

PROTECT FROM DRYING.

. MAINTAIN PROTECTION EQUIPMENT, IN READINESS ON SITE.

2. PRODUCTS

1. PERFORMANCE CRITERIA

 QUALITY CONTROL PLAN 1. ENSURE CONCRETE SUPPLIER MEETS PERFORMANCE CRITERIA OF CONCRETE AS ESTABLISHED BY

CONCRETE MIX REQUIREMENTS

	```	CONCRETE MIZ	A REGUIRENIE	-N13		
CONCRETE ELEMENT	EXPOSURE CLASS	28-DAY COMPRESSIV E STRENGTH (mpa)	MAX. AGGREGATE SIZE (MM)	AIR CONTENT (%)	MAX. W/C RATIO	CEMENT TYPE (1)
		EXT	ERIOR			
FOUNDATIONS	F-2	25	20	4-7	0.5	GU (2)
RETAINING WALLS	F-2	25	20	4-7	0.5	GU
SLAB-ON-GRADE (3)	C-2	32	20	5-8	0.45	GU
WALLS & COLUMNS	F-2	25	20	4-7	0.5	GU
SUSP. SLAB/BEAMS	F-2	35	20	4-7	0.4	GU
		INT	ERIOR			
WALLS & COLUMNS	N	25	20	NON	0.5	GU
SUSP. SLAB/BEAMS	N	35	20	NONE	0.4	GU
MASONRY FILL	N	15	10	NONE	0.55	GU

2. BLENDED GENERAL USE HYDRAULIC CEMENT (TYPE GUB) OR HIGH-EARLY-STRENGTH HYDRAULIC CEMENT (TYPE HS OR HSB) MAY BE USED IF APPROVED BY THE ENGINEER.

3. UNLESS SULPHATE-RESISTANT CEMENT (TYPE MS, MSB, HS OR HSB) IS REQUIRED BY GEOTECHNICAL ENGINEER.

4. USE SPECIFICATION FOR EXTERIOR SLAB-ON-GRADE FOR GARAGE FLOOR SLABS.

EXECUTION

 PREPARATION 1. OBTAIN EOR'S APPROVAL BEFORE PLACING CONCRETE.

1. PROVIDE 48 HOURS MINIMUM NOTICE PRIOR TO PLACING OF CONCRETE. 2. PRIOR TO PLACING OF CONCRETE OBTAIN EOR'S APPROVAL OF PROPOSED METHOD FOR PROTECTION OF CONCRETE DURING PLACING AND CURING.

3. DURING CONCRETING OPERATIONS: 1. DEVELOPMENT OF COLD JOINTS NOT ALLOWED.

4. DO NOT PLACE LOAD UPON NEW CONCRETE UNTIL AUTHORIZED BY EOR.

2. INSTALLATION/APPLICATION 1. DO CAST-IN-PLACE CONCRETE WORK TO CSA A23.1/A23.2.

SPECIFICATIONS OF HARDENERS AND OTHER TREATMENTS FOR DURABILITY OF SLABS BY OTHERS. 2. CONSTRUCTION TOLERANCES TO TABLE 15 OF CSA A23.1 2. SLEEVES AND INSERTS:

1. DO NOT PERMIT PENETRATIONS, SLEEVES, DUCTS, PIPES OR OTHER OPENINGS TO PASS THROUGH JOISTS, BEAMS, COLUMN CAPITALS OR COLUMNS, EXCEPT WHERE INDICATED OR APPROVED BY EOR. 2. SLEEVES AND OPENINGS GREATER THAN 100 X 100 MM NOT INDICATED ON STRUCTURAL DRAWINGS

MUST BE REVIEWED BY EOR. 3. DO NOT ELIMINATE OR DISPLACE REINFORCEMENT TO ACCOMMODATE HARDWARE. 4. CONFIRM LOCATIONS AND SIZES OF SLEEVES AND OPENINGS SHOWN ON DRAWINGS.

CONTROL JOINTS: SLAB-ON-GRADE

PROVIDE MIN. 1/4 SLAB DEPTH SAWCUTS WITHIN 24 HOURS OF PLACING. 2. SEE TABLE BELOW FOR RECOMMENDED SPACING.

**SPACING OF CONTRACTION JOINTS (MM)** 

SLAB THICKNESS	MAX. AGGREGATE SIZE < 19MM	MAX. AGGREGATE SIZE 19MM AND LARGER
125	3000	3750
150	3750	4500
175	4250	5250
200	5000	6000
225	5500	6750
250	6000	7500

1. 20mm DEEP VEE-NOTCH EACH SIDE OF WALL WITH 15M VERTICAL BAR EACH SIDE OF JOINT. CUT EVERY SECOND HORIZONTAL BAR EXCEPT AT T.O.W. MAX, JOINT SPACING 10 000MM, U.N.O.

1. SET ANCHOR BOLTS TO TEMPLATES IN COORDINATION WITH APPROPRIATE TRADE PRIOR TO PLACING

FINISHING AND CURING:

1. USE PROCEDURES NOTED IN CSA A23.1/A23.2 TO REMOVE EXCESS BLEED WATER. 2. USE ONLY CURING COMPOUNDS COMPATIBLE WITH APPLIED FINISH ON CONCRETE SURFACES.

3. FINISH CONCRETE FLOORS TO CSA A23.1/A23.2. PROVIDE SWIRL-TROWELLED FINISH WITHIN BUILDING ENVLEOPE U.N.O.

PROVIDE FLOAT AND BRUSHED FINISH FOR EXTERIOR FLATWORK. 4. RUB EXPOSED SHARP EDGES OF CONCRETE WITH CARBORUNDUM TO PRODUCE 3 MM MINIMUM RADIUS EDGES, U.N.O.

5. HAND TOOL EXPOSED EDGES OF CURBS AND APRON SLABS, U.N.O. 6. WATERSTOPS:

INSTALL WATERSTOPS AT LOCATIONS AS INDICATED. 2. DO NOT DISTORT OR PIERCE WATERSTOP IN WAY AS TO HAMPER PERFORMANCE. 3. DO NOT DISPLACE REINFORCEMENT WHEN INSTALLING WATERSTOPS.

4. USE EQUIPMENT TO MANUFACTURER'S REQUIREMENTS TO FIELD SPLICE WATERSTOPS. 5. TIE WATERSTOPS RIGIDLY IN PLACE.

6. USE ONLY STRAIGHT HEAT-SEALED BUTT JOINTS IN FIELD. 7. USE FACTORY WELDED CORNERS AND INTERSECTIONS. JOINT FILLERS:

1. FURNISH FILLER FOR EACH JOINT IN SINGLE PIECE FOR DEPTH AND WIDTH REQUIRED FOR JOINT, U.N.O. 2. WHEN MORE THAN ONE PIECE REQUIRED FOR JOINT, FASTEN ABUTTING ENDS AND HOLD SECURELY

TO SHAPE BY STAPLING OR OTHER POSITIVE FASTENING. 3. LOCATE AND FORM ISOLATION, EXPANSION, AND CONSTRUCTION JOINTS AS INDICATED. 4. USE 12 MM THICK JOINT FILLER TO SEPARATE SLABS-ON-GRADE FROM VERTICAL SURFACES AND EXTEND FULL DEPTH OF SLAB.

DAMPPROOF MEMBRANE: 1. INSTALL DAMPPROOF MEMBRANE UNDER CONCRETE SLABS-ON-GRADE WITHIN BUILDING ENVELOPE. 2. LAP DAMPPROOF MEMBRANE MINIMUM 150 MM AT JOINTS AND SEAL.

3. SEAL PUNCTURES IN DAMPPROOF MEMBRANE BEFORE PLACING CONCRETE.

3. SURFACE TOLERANCE

1. CONCRETE TOLERANCE TO CSA A23.1 STRAIGHTEDGE METHOD FF = [25]: FL = [20]. 4. FIELD QUALITY CONTROL 1. INSPECTION AND TESTING OF CONCRETE AND CONCRETE MATERIALS CARRIED OUT BY TESTING

LABORATORY CERTIFIED TO CSA A283. 2. CONCRETE TESTING TO INCLUDE THE FOLLOWING INFORMATION:

SLUMP.

2. AIR CONTENT.

. AIR AND CONCRETE TEMPERATURE. 4. COMPRESSIVE STRENGTH AT 7 AND 28 DAYS.

a. A MINIMUM OF 3 TEST CYLINDERS SHALL BE CAST FOR EACH 50M3 OR EACH DAY'S POUR, WHICHEVER IS LESS. TEST ONE AT 7 DAYS AND 2 AT 28 DAYS AND SUBMIT WRITTEN REPORTS FOR REVIEW BY THE ENGINEER.

b. CURE CYLINDERS UNDER SAME CONDITIONS AS CONCRETE THEY REPRESENT. c. TEST REPORTS SHALL IDENTIFY THE LOCATIONS WHERE CONCRETE IS BEING TESTED WITH

GRIDLINES AND ELEVATIONS. SUBMIT CONCRETE TEST RESULTS MAXIMUM 72 HRS AFTER TEST.

DRAWING TITLE

**ECLIPSE PROJECTS** 

PROJECT

Q-KIDS DAYCARE

CENTER

420 WEBSTER AVENUE, QUESNEL, BC

**GENERAL NOTES** 

Engineering

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**ISSUED FOR TENDER** 

PROFESSIONAL SEAL

This drawing and the copyright are the property of the ENGINEER. Discrepancies, errors and omissions shall

Written dimensions shall have precedence over scaled

dimensions. Contractors shall verify and be responsible for all dimensions and conditions shown on the

Consultant for approval before proceeding with fabrication

**REVISIONS** 

EXPLANATION

ISSUED FOR TENDER

drawings. Shop drawings shall be submitted to the

be referred to the Consultant for correction,

interpretation or revision.

NO. DATE

22/06/17

DESIGNER	TANNER BRA	AATEN, P.ENG
REVIEWER	FERGUS I	OLEY, P.ENG
DRAWN BY		K.T.
DATE 22/06/17	SCALE	12" = 1'-0"

SHEET NO.

21173

REV. NO.

7. SUBMIT ERECTION DRAWINGS INDICATING DETAILS AND INFORMATION NECESSARY FOR ASSEMBLY AND ERECTION PURPOSES, INCLUDING: DESCRIPTION OF METHODS. SEQUENCE OF ERECTION. 3. TYPE OF EQUIPMENT USED IN ERECTION. 8. FOR SCHEDULING PURPOSES, THE SUPPLIER SHALL ALLOW A MIN. OF 3 WORKING DAYS FOR THE 1. COPIES OF WELDING PROCEDURES AND QUALIFICATIONS SHALL BE SUBMITTED TO THE EOR UPON 2. NDT CERTIFICATIONS AND PROCEDURES SHALL BE SUBMITTED TO THE EOR UPON REQUEST. . PERMITTED ONLY AFTER RECEIPT OF WRITTEN APPROVAL FROM THE EOR. 2. REQUESTS FOR DEVIATIONS MUST BE SUPPORTED BY NECESSARY CALCULATIONS AND DRAWINGS. THE SUPPLIER SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU (CWB) TO CSA W47.1 2. THE SUPPLIER SHALL MAINTAIN RECORDS OF WELDING PROCEDURES QUALIFICATIONS AND WELDING OPERATORS' QUALIFICATIONS IN COMPLIANCE WITH CSA W47.1. MAKE SUCH RECORDS AVAILABLE UPON 1. DESIGN DETAILS AND CONNECTIONS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA-S16 AND CAN/CSA-S136 TO RESIST FORCES, MOMENTS, SHEARS AND ALLOW FOR MOVEMENTS INDICATED. SELECT FRAMED BEAM SHEAR CONNECTIONS FROM AN INDUSTRY ACCEPTED PUBLICATION SUCH AS "HANDBOOK OF THE CISC" FOR STANDARD SHEAR ONLY CONNECTIONS. 2. WHEN SHEAR FORCES ARE NOT INDICATED. SELECT OR DESIGN CONNECTIONS TO SUPPORT REACTION FROM MAX. UDL THAT CAN BE SAFELY SUPPORTED BY BEAM IN BENDING. SUBMIT SKETCHES AND DESIGN CALCULATIONS STAMPED AND SIGNED BY QUALIFIED PROFESSIONA ENGINEER LICENSED IN JURISDICATION OF PROJECT SITE FOR NON-STANDARD CONNECTIONS. 4. THE SUPPLIER SHALL BE RESPONSIBLE FOR THE DESIGN OF ALL ELEMENTS AND CONNECTIONS NOT SPECIFIED ON THE DESIGN DRAWINGS IN ACCORDANCE WITH REQUIREMENTS OF CSA S16. 5. DESIGN SHALL BE BASED ON LIMIT STATES DESIGN METHOD IN ACCORDANCE WITH CSA S16. ALL SHOP DRAWINGS PREPARED BY THE SUPPLIER SHALL BE IN METRIC UNITS OF MEASURE U.N.O. 7. ALL FORCES INDICATED ON THE DESIGN DRAWINGS AND IN THIS SPECIFICATION ARE FACTORED LOADS, 1. ALL CONNECTIONS SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE JURISDICTION OF THE PROJECT SITE. 2. IN GENERAL, SHOP CONNECTIONS SHALL BE WELDED AND FIELD CONNECTIONS SHALL BE BOLTED. 3. BOLTED CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE, WITH THREADS ASSUMED TO BE INTERCEPTED BY THE SHEAR PLANE U.N.O. 4. ALL HIGH STRENGTH BOLTS SHALL BE PRETENSIONED BY TURN-OF-NUT METHOD. 5. GUSSET AND CONNECTION PLATES SHALL BE MIN. 10MM THICKNESS. 1. PROVIDE FULL HEIGHT/WIDTH STIFFENERS E/S OF WEB OVER COLUMN WHERE BEAM SITS OVER, 6. WHERE A BEAM CONNECTION IS REQUIRED TO CARRY MOMENT, THE CONNECTION SHALL BE DESIGNED FOR 100% OF THE MOMENT CAPACITY OF THE MEMBER, U.N.O. 7. BEAM CONNECTIONS SHALL BE DESIGNED TO RESIST FORCES APPLIED FROM HORIZONTAL AND VERTICAL BRACING MEMBERS AND TO RESIST PULL THROUGH (AXIAL) FORCES, WHERE REQUIRED. IN 8. MEMBER GRAVITY AXES SHALL INTERSECT AT A COMMON WORK POINT, U.N.O. 9. FORCES ARE TO BE APPLIED SUCH AS TO PRODUCE MAX. EFFECTS ON COMPONENTS BEING 10. DESIGN OF CONNECTIONS SHALL INCLUDE PRYING EFFECTS.

3. WHERE A STRUCTURE OR PORTION OF A STRUCTURE IS SUBJECT TO DYNAMIC LOADING, IT WILL BE SO

INDICATED ON THE DRAWINGS, AND CLAUSE 12, "DYNAMICALLY LOADED STRUCTURES", WILL APPLY.

6. TEMPERATURE OF BASE METAL TO BE WELDED SHALL CONFORM TO THE MIN. PREHEAT AND INTERPASS

7. ASSEMBLE AND WELD BUILT-UP SECTIONS BY METHODS THAT WILL PRODUCE TRUE ALIGNMENT WITHOUT

4. ALL WELDED CONNECTIONS AND ASSEMBLIES FOR EXPOSED STRUCTURAL STEEL AND STRUCTURAL

STEEL IN WET, HUMID, OR OTHER CORROSIVE ENVIRONMENTS SHALL BE SEAL WELDED.

5. MINIMUM SIZE OF FILLET WELDS SHALL BE 5MM U.N.O.

TEMPERATURES OUTLINED IN CSA W59.

13. HOT DIP GALVANIZING: GALVANIZE STEEL, WHERE INDICATED, TO CAN/CSA-G164, MINIMUM ZINC COATING 1. ALL CONNECTORS IN CONTACT WITH EXPOSED TIMBER TO BE HOT DIPPED GALVANIZED U.N.O. 14. BOLT ASSEMBLIES: TO ASTM A325/A325M. BOLTS USED WITHIN BUILDING ENVELOPE AND IN NON-CORROSIVE ENVIRONMENTS SHALL BE BLACK. BOLTS FOR EXTERIOR OR CORROSIVE ENVIRONMENTS SHALL BE HOT-DIPPED GALVANIZED. 15. MACHINE BOLTS: TO ASTM 307, GRADE A. 16. WELDING: TO CSA W48 AND CSA W59. ALL PAINTS SHALL CONFORM TO MANUFACTURER'S PRODUCT SPECIFICATIONS. 1. REQUESTS FOR SUBSTITUTION SHALL INCLUDE MANUFACTURER'S LITERATURE FOR EACH PRODUCT, INCLUDING NAME, GENERIC TYPE, DESCRIPTIVE INFORMATION AND EVIDENCE OF SATISFACTORY PAST PERFORMANCE. 7. FABRICATION METHODS SHALL INDUSTRY BEST PRACTICE AND BE IN ACCORDANCE WITH CSA/CAN-S16 AND CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL. WELDING SEQUENCE AND PROCEDURES SHALL BE SUCH AS TO MINIMIZE DISTORTION AND SHRINKAGE. SEAL MEMBERS WITH CAP PLATES AND EXTERIOR COMPONENTS WITH CONTINUOUS WELDS. SHOP WELD WELDABLE REBAR DOWELS TO STEEL EMBED PLATES. ALL EXPOSED WELDS TO BE CONTINUOUS AND GROUND SMOOTH 5. INSTALL SHEAR STUDS IN ACCORDANCE WITH CSA W59. FABRICANTION TOLERANCES SHALL BE IN ACCORDANCE WITH CAN/CSA-S16. LOCATION OF HOLES FOR CONNECTION OF STRUCTURAL MEMBERS FOR MECHANICAL EQUIPMENT SHALL BE ±1 MM. 7. CUTTING AND SHEARING: SHEARING SHALL BE LIMITED TO STEEL OF 10MM THICKNESS AND LESS. STEEL OF GREATER THAN 10 MM THICKNESS SHALL BE SAWN OR FLAME CUT, WHEREVER PRACTICABLE, FLAME CUTTING SHALL BE PERFORMED WITH A MECHANICALLY GUIDED TORCH.

ALL STEEL SHALL BE NEW MATERIAL AND FREE FROM DEFECTS

4. BARS AND PLATES: TO ASTM A572/A572M GRADE 50, FY= 345MPA.

9. ANCHOR BOLTS: TO ASTM F1554 GRADE 36/GRADE 55/GRADE 105

11. WELDING MATERIALS: TO CSA W59 AND CERTIFIED BY CWB.

10. HIGH STRENGTH ANCHOR BOLTS: TO ASTM A193/A193M, GRADE B7.

8. COLD FORMED STEEL MEMBERS: TO CAN/CSA-S136.

CLASS C

CHANNELS AND ANGLES: TO CAN/CSA G40.21 GRADE 350W (50 KSI).

ROLLED SECTIONS AND TEES: TO ASTM A992/A992M, FY = 345MPA (50 KSI)

ROUND HOLLOW STRUCTURAL SECTIONS: TO ASTM A500, GRADE C, FY = 317MPA.

12. SHOP PAINT PRIMER: TO CISC/CPMA2-75 SOLVENT REDUCIBLE ALKYD, RED OXIDE, GREY.

7. STEEL PIPE: TO ASTM A53/A53M TYPE S, GRADE B, MIN FY = 240 MPA (35 KSI).

5. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS: TO CAN/CSA G40.21 GRADE 350W (50 KSI)

1. BOLT HOLES SHALL BE PUNCHED OR DRILLED AS SPECIFIED BY CSA S16. 2. PUNCHED HOLES SHALL BE FREE FROM TORN OR RAGGED EDGES. 3. LARGE HOLES MAY BE FLAME CUT WITH A MECHANICALLY GUIDED TORCH 4. USE ¼" OVERSIZED HOLE DIA. FOR COLUMN ANCHOR RODS UP TO AND INCLUDING 1 ½" DIA. 5. USE ½" OVERSIZED HOLE DIA. FOR COLUMN ANCHOR RODS > 1 1/8". 1. USE OF ELEMENTS WITH MISPUNCHED OR MISDRILLED HOLES WILL NOT BE ALLOWED WITHOUT

APPROVAL OF THE EOR. 8. SHOP PAINTING PREPARE SURFACES AND SHOP PRIME STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND

2. CLEAN MEMBERS, REMOVE LOOSE MILL SCALE, RUST, OIL, DIRT AND FOREIGN MATTER. PREPARE SURFACE ACCORDING TO NACE NO.3/SSPC-SP-6. 3. STRUCTURAL STEEL TO RECEIVE PRIMER PAINT ONLY TO HAVE SP-2 SURFACE PREPARATION 4. ALL EXPOSED STRUCTURAL STEEL TO RECEIVE A FINISH COAT SHALL HAVE SP-6 SURFACE PREPARATION. 5. APPLY ONE COAT OF PRIMER IN SHOP TO STEEL SURFACES TO ACHIEVE MIN. DRY FILM THICKNESS,

1. SURFACES TO BE ENCASED IN CONCRETE. SURFACES AND EDGES TO BE FIELD WELDED WHERE MEMBER TO BE SPRAY FIRE-PROOFED, OR GALVANIZED. 6. ALL CRANE RAILS, HANDRAILS AND KICKPLATES TO BE PAINTED 'SAFETY YELLOW' 7. ALL GRATING PANELS AND GRATING STAIR TREADS SHALL RECEIVE THE MANUFACTURER'S STANDARD DIP COATINGS OF BLACK, QUICK DRY ENAMEL, U.N.O.

8. PAINT APPLICATION 1. THE GENERAL COATING PROCEDURE SHALL CONFORM TO THE APPLICABLE SECTIONS OF SSPC AND THE RECOMMENDATIONS OF THE MANUFACTURERS. APPLY PAINT WITHIN TEMPERATURE AND HUMIDITY LIMITS ESTABLISHED BY THE MANUFACTURER 3. PAINT SHALL NOT BE APPLIED TO WET OR CONTAMINATED SURFACES. APPLY PAINT ONLY SURFACE

AND ATMOSPHERIC TEMPERATURES, AND RELATIVE HUMIDITY MEET MANUFACTURER'S RECOMMENDATIONS 4. ALL COATINGS WITH THE EXCEPTION OF FIELD TOUCH-UP AND REPAIR, AND STRUCTURAL STEEL REFURBISHMENT SHALL BE APPLIED IN THE SHOP.

5. UNLESS APPROVED BY THE PAINT MANUFACTURER TO THE CONTRARY, THE BLAST SURFACE SHALL BE PRIMED NOT LATER THAN 8 HOURS AFTER SURFACE PREPARATION. OXIDATION OF THE STEEL DUE TO DELETERIOUS CONDITIONS MAY NECESSITATE REBLASTING OR SWEEPBLASTING THE SURFACE O RESTORE THE SPECIFIED CLEANLINESS STANDARD 6. ALLOW MIN. CURING TIME AS SPECIFIED BY THE PAINT MANUFACTURER BEFORE HANDLING THE PAINTED STEEL OR APPLYING THE SUBSEQUENT COAT OF PAINT.

1. COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS, INCLUDING PRODUCT TECHNICAL BULLETINS, HANDLING, STORAGE AND INSTALLATION INSTRUCTIONS, AND DATASHEETS. . STRUCTURAL STEEL WORK: IN ACCORDANCE WITH CSA S16.

STRENGTH OF 45MPA.

NUTS AND BOLTS.

EXECUTION

APPLICATION

2. WELDING: IN ACCORDANCE WITH CSA W59. 3. FABRICATION AND ERECTION COMPANIES TO BE CERTIFIED UNDER DIVISION 1 OR 2.1 OF CSA W47.1 FOR FUSION WELDING OF STEEL STRUCTURES AND/OR CSA W55.3 FOR RESISTANCE WELDING OF STRUCTURAL COMPONENTS. ERECTION

1. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 OR CSA S136 AND IN ACCORDANCE WITH REVIEWED ERECTION DRAWINGS. 2. FIELD CUTTING OR ALTERING STRUCTURAL MEMBERS PERMITTED ONLY BY WRITTEN APPROVAL OF EOR. 3. CLEAN WITH MECHANICAL BRUSH AND TOUCH UP SHOP PRIMER TO BOLTS, WELDS AND BURNED OR SCRATCHED SURFACES AT COMPLETION OF ERECTION.

4. TOUCH-UP GALVANIZING WITH "GALVACON" OR EQUIVALENT TO MANUFACTURER'S RECOMMENDATIONS. STRUCTURAL STABILITY: 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND INSTALLATION OF ANY TEMPORARY BRACING OR GUY CABLES REQUIRED FOR STABILITY DURING ERECTION. MEMBER SIZES AND DESIGN FORCES ARE FOR FINAL CONDITIONS WITH STEEL DECKING ATTACHED.

STRUCTURAL STEEL. BASE PLATES: PROVIDE AND SET LEVELLING NUTS, LEVELLING PLATES, OR STEEL SHIMS BENEATH COLUMN BASE PLATES TO CORRECT POSITIONS, ELEVATIONS, AND LOCATIONS AS SHOWN ON THE ERECTION

6. ERECTION TOLERANCES NOT TO EXCEED THOSE STATED IN CISC CODE OF STANDARD PRACTICE FOR

DRAWINGS 2. GROUTING SHALL BE PERFORMED AS SOON AS POSSIBLE AFTER THE COLUMNS ARE PLUMBED AND BEFORE ANY LARGE AXIAL LOADS OR MOMENTS ARE APPLIED TO THE BASE PLATE 1. USE NON-METALLIX, NON-SHRINK FREE FLOW GROUTE WITH A MIN. 28 DAY COMPRESSIVE

3. TIGHTEN ANCHOR BOLTS AFTER GROUT HAS SET. 8. BOLTED CONNECTIONS: 1. CONNECTIONS TO BE MADE IN THE FIELD SHALL BE BOLTED, EXCEPT WHERE FIELD-WELDING IS

2. ALL BOLTS SHALL BE PRETENSIONED. INSTALLATION AND INSPECTION OF BOLTED JOINTS SHALL BE IN ACCORDANCE WITH SECTION 23 CSA S16. 3. MIN. BOLT DIA. SHALL BE 19 MM (3/4"). NUTS SHALL CONFORM TO ASTM A583/A563M, HARDENED

WASHERS SHALL CONFORM TO ASTM F438/F436M. 4. USE BOLTS OF LARGER DIAMETER WHEN BOLT HOLE DIAMETER EXCEEDS THE BOLT DIAMETER BY MORE THAN 1.6 MM (1/16 OF AN INCH). MECHANICALLY GALVANIZED BOLTS AND NUTS SHALL NOT BE INTERMIXED WITH HOT DIP GALVANIZED

WELDED CONNECTIONS: 1. SUPPLIER SHALL PROVIDE ERECTION CLIPS FOR FITUP OF FIELD WELDED CONNECTIONS. REMOVE ERECTION CLIPS UNLESS APPROVED BY EOR. 2. WELDS TO CONNECTION PLATES EMBEDDED IN CONCRETE SHALL BE DEPOSITED IN A SEQUENCE

10. CRANES/CRANE RAILS: 1. AT A MIN., EACH CRANE/CRANE RAIL SHAL BE LOAD TESTED BEFORE BEING PUT INTO SERVICE. RECORDS OF LOAD TESTS SHALL BE INCLUDED WITH EQUIPMENT RECORDS. 2. ALL CRANE MOTIONS SHALL BE TESTED UNDER LOADS OF 100% AND 125% OF THE RATED CAPACITY

THAT WILL MINIMIZE DISTORTION OF THE EMBEDMENT TO 3 MM (1/8 OF AN INCH) OF FLAT OR TRUE.

OF THE HOIST. 3. CRANE LOAD TESTS AT 100% AND 125% OF RATED CAPACITY MUST BE PERFORMED ON THE FULL LENGTH OF THE CRANE/CRANE RAIL. ONLY THOSE PARTS OF THE CRANE RAILS THAT HAVE BEEN SUCCESSFULLY TESTED SHALL BE PUT INTO USE. 4. DEFLECTIONS OF CRANE BEAMS/CRANE RAILS SHALL BE MEASURED AT LOADS OF 100% AND 125% OF

RATED CAPACITY AND SHALL NOT EXCEED THOSE NOTED IN THE APPLICABLE DESIGN STANDARDS. 5. ALL PROTECTIVE LIMIT SWITCHES, BRAKES, ETC. OF EACH CRANE SHALL BE TESTED AT 100% OF RATED CAPACITY.

1. INSPECTION AND TESTING OF MATERIALS AND WORKMANSHIP WILL BE CARRIED OUT BY AN INDEPENDENT TESTING AGENCY APPROVED BY THE EOR.

2. ALL INSPECTIONS SHALL BE PERFORMED BY QUALIFIED INSPECTORS CERTIFIED TO CSA W178 FOR THE RELEVANT CLASS OF INSPECTION. 1. THE COST OF INSPECTION AS WELL AS THE COST OF CORRECTION OF DEFICIENCIES SHALL BE AT THE SUPPLIER'S EXPENSE. 3. THE SUPPLIER'S QUALITY CONTROL PROGRAM AND INSPECTION PLAN SHALL BE SUBMITTED TO THE

CONSULTANT FOR REVIEW UPON REQUEST. 4. THE SUPPLIER SHALL BE RESPONSIBLE FOR INSPECTION OF WELDING AND SHALL PAY PARTICULAR ATTENTION TO SECTIONS OF CSA STANDARD W59 ENTITLED WELDING INSPECTION AND OBLIGATIONS OF THE SUPPLIER. THE INSPECTION REQUIREMENTS APPLY TO BOTH SHOP AND FIELD WELDS. 5. SUBMIT TEST REPORTS TO CONSULTANT UPON COMPLETION OF INSPECTION.

6. THE SUPPLIER SHALL VISUALLY INSPECT ALL COMPLETED WELDS. VISUAL EXAMINATION PROCEDURES SHALL BE IN ACCORDANCE WITH CSA W59. 7. NON-DESTRUCTIVE EXAMINATION (MAGNETIC PARTICLE, ULTRASONIC, RADIOGRAPHIC, ETC.) SHALL BE IN ACCORDANCE WITH CSA W59, AND THE EXTENT OF INSPECTION SHALL BE AS FOLLOW:

1. FULL PENETRATION WELDS 100 % 2. PARTIAL PENETRATION WELDS 50 % 3. FILLET WELDS 25 % 8. IF THE TESTING INDICATES DEFICIENCY, COSTS OF THE TESTING AND REMEDIAL WORK SHALL BE

5. FIELD PAINTING 1. TOUCH UP DAMAGED PAINT SURFACES AND SURFACES WITHOUT SHOP COAT WITH PRIMER TO NACE NO.3/SSPC-SP-6 2. ALL DAMAGES TO GALVANIZING SHALL BE COATED AFTER INSTALLATION IN ACCORDANCE WITH ASTM

A780 FOLLOWING SURFACE PREPARATION. 3. BEFORE REPAIR OF DAMAGED GALVANIZED COATING, EXPOSED SUBSTRATE METAL SHALL BE POWERCLEANED TO BRIGHT METAL AND FREE OF ALL VISUAL RUST, OIL OR GREASE. ANY NON-ADHERING GALVANIZING SHALL BE REMOVED TO THE EXTENT THAT THE SURROUNDING GALVANIZING IS INTEGRAL

4. WHEN SURFACE DEFECTS EXCEED 2 PERCENT OF A MEMBER'S AREA, THE DEFECTS SHALL BE REPAIRED BY RE-DIPPING THE MEMBER IN THE ZINC BATH. 5. COLD REPAIR USING AN ORGANIC, ZINC-RICH COATING IS ALLOWED IF THE TOTAL DAMAGED AREA IS LESS THAN 1 PERCENT OF THE TOTAL COATED AREA OF THE MEMBER BEING REPAIRED AND NO SINGLE REPAIR IS GREATER THAN 12.5 SQUARE CENTIMETRES OR 300 MM LONG. THE DRY FILM THICKNESS SHALL

BE 2 TO 3 MILS. 6. THE INSTALLATION CONTRACTOR SHALL MAKE ALLOWANCE FOR CLEANING, SURFACE PREPARATION AND PAINTING OF ALL SHIPPING DAMAGE, ERECTION DAMAGE, FIELD WELDS AND BOLTS. 7. DAMAGED AND UNPAINTED AREAS, FASTENERS, WELDS, ETC, REQUIRING FIELD TOUCH-UP, SHALL BE POWER-TOOL CLEANED, PREPARED AND PAINTED AS SPECIFIED.

4. APPENDICES 1. ONE-COAT PAINT SYSTEM CONFORMING TO CISC/CMPA 1-73A U.N.O.

INCURRED BY THE CONTRACTOR.

2. INTERIOR STEEL NOT EXPOSED TO VIEW OR CORROSIVE ENVIRONMENTS MAY BE UNCOATED. SSPC-SP6 COMMERCIAL BLAST

2. A SURFACE PROFILE OF 1.5-2.5MILS SHOULD BE ATTAINED AND BE SHARP AND ANGULAR IN PROFILE 3. PAINT SYSTEMS 1. MILD EXPOSURE

 EPOXY PRIMER AND EPOXY TOPCOAT MIN. TOTAL NOM DFT NO. OF **MANUFACTURER BRAND NAME** THICKNESS (mils) COATS* (mils) Primer – Not required Ameron General 5.0 - 8.0Top Coat – Amerlock 400 5.0 - 8.0Primer – Not required 0 0 5.0 - 6.0Carboline Coatings 5.0 - 6.0Top Coat – Carboguard 890 Primer – Devran 201 2.0 - 3.03.5 - 5.0Devoe Coatings Top Coat – Devran 229 1.5 - 2.0Primer – Not required 0 0

5.0 - 6.0

Top Coat – Interseal 670HS 5.0 - 6.0 2. MODERATE EXPOSURE NOM DFT NO. OF MIN. TOTAL MANUFACTURER BRAND NAME COATS* THICKNESS (mils) (mils) 4.0 - 6.0 Primer – Amerlock 400 Ameron General Pain Top Coat – Amerlock 450 HS Primer – Carboguard 890 4.0 - 6.0 6.0 - 8.0Carboline Coatings Top Coat – Carbothane 134HG Primer – Bar Rust 235 2.0 - 3.06.0 - 8.0Devoe Coatings Top Coat – Devthane 379 Primer – Interseal 670HS 4.0 - 6.06.0 - 8.0nternational Paint Гор Coat – Interthane 990 2

4. COLOURS 1. INTERIOR SCHEDULE LOCATION / COMPONENT COLOUR Structural Steel ANSI #70 Grey (2548)

2. SAFETY COLOUR CODING MACHINE PERSONNEL PROTECTOR GUARDS, PERSONNEL SAFETY BARRIERS, EQUIPMENT AND/OR DEVICES AND OTHER SURFACES REQUIRING SAFETY COLOUR CODE MARKING SHALL BE PAINTED THE COLOURS PER THE FOLLOWING TABLE:

LOCATION / COMPONENT Handrails, Kickplates, Guards and Safety Items, etc. Safety Yellow (2589)

06 10 00 ROUGH CARPENTRY

 GENERAL REFERENCE STANDARDS

International Paint

 ASTM INTERNATIONAL (ASTM) 1. ASTM A123, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS.

2. ASTM A153/A153M, STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE 3. ASTM F2329/F2329M, STANDARD SPECIFICATION FOR ZINC COATING, HOT-DIP, REQUIREMENTS FOR APPLICATION TO CARBON AND ALLOY STEEL BOLTS, SCREWS, WASHERS, NUTS, AND SPECIAL THREADED FASTENERS

2. CANADIAN STANDARDS ASSOCIATION (CSA): CSA B111, WIRE NAILS, SPIKES AND STAPLES CSA G164, HOT DIP GALVANIZED OF IRREGULARLY SHAPED ARTICLES

CSA 080, WOOD PRESERVATION 4. CSA O112, ADHESIVES FOR WOOD 5. CSA O121, DOUGLAS FIR PLYWOOD CAN/CSA 0141, SOFTWOOD LUMBER

CSA O151, CANADIAN SOFTWOOD PLYWOOD CSA 0153, POPLAR PLYWOOD 9. CSA 0325.0, CONSTRUCTION SHEATHING 10. CSA O437, STANDARDS ON OSB AND WAFERBOARD

11. CSA O452, DESIGN RATED OSB 3. NATIONAL LUMBER GRADING AUTHORITY (NLGA): 1. NLGA 07 STANDARD GRADING RULES FOR CANADIAN LUMBER 2. QUALITY ASSURANCE

 REGULATORY AGENCY APPROVALS: MATERIAL SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE BCBC. 2. LUMBER SHALL BE GRADED AND STAMPED BY AN AGENCY CERTIFIED BY CANADIAN LUMBER STANDARDS ADMINISTRATIVE BOARD.

PLYWOOD SHALL BE GRADED AND STAMPED IN ACCORDANCE WITH APPLICABLE CSA STANDARDS. 4. PANEL PRODUCTS SHALL BE MARKED WITH A RECOGNIZED, VISIBLE GRADE STAMP. 2. ACTIONS AND INFORMATIONAL SUBMITTALS

 FLOOR JOISTS SHOP DRAWINGS

1. SUBMIT DRAWINGS STAMPED AND SIGNED BY PROFESSIONAL ENGINEER REGISTERED IN JURISDICTION OF PROJECT SITE. 1. INDICATE REQUIREMENTS FOR SUBFLOOR GLUEING, BLOCKING, STRAPPING, ETC.

2. SUBMIT ERECTION DRAWINGS FOR REVIEW. INDICATE REQUIREMENTS FOR BLOCKING ON LAYOUTS. B. LIVE LOAD DEFLECTION CRITERIA FOR FLOOR JOISTS L/360

4. DESIGN FOR VIBRATION CONTROL IN CONFORMANCE WITH BCBC.

PRODUCTS LUMBER

1. GRADES: USE GRADE MARKED LUMBER CONFORMING TO THE STANDARD GRADING RULES FOR CANADIAN LUMBER PUBLISHED BY THE NGLA.

2. LUMBER: TO CAN/CSA 0141, SOFTWOOD, S-P-F, S4S, SURFACE-DRY, GRADED AND STAMPED IN ACCORDANCE WITH CURRENT NLGA STANDARD GRADING RULES FOR CANADIAN LUMBER. 1. MOISTURE CONTENT: MAXIMUM 19% AT TIME OF INSTALLATION.

FINGER JOINTED LUMBER IS NOT ACCEPTABLE. FRAMING AND BOARD LUMBER: IN ACCORDANCE WITH BCBC AND AS SPECIFIED IN SCHEDULES. 4. FURRING, BLOCKING, NAILING STRIPS, GROUNDS, ROUGH BUCKS, CANTS, CURBS FASCIA BACKING AND SLEEPERS: S4S, "STANDARD" OR BETTER GRADE FOR BOARD, POST AND TIMBER SIZES, "STANDARD" LIGHT FRAMING OR BETTER FOR DIMENSION SIZES. ENGINEERED WOOD PRODUCTS

PROVIDE ENGINEERING WOOD PRODUCTS WITH THE STRUCTURAL CAPACITY THAT MEETS OR EXCEEDS THE REQUIREMENTS SHOWN ON DRAWINGS AND AS SET FORTH IN THE BCBC. 2. LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL): A COMPOSITE OF WOOD VENEERS WITH THE GRAIN PRIMARILY PARALLEL TO THE MEMBER LENGTH, MANUFACTURED WITH AN

EXTERIOR TYPE ADHESIVE. WOOD I-JOISTS: PREFABRICATED UNITS COMPLYING WITH DEPTHS, LOAD CAPACITY AND PERFORMANCE RATINGS AS SHOWN ON DRAWINGS. THE WEB MATERIAL SHALL BE ORIENTED STRAND BOARD, U.N.O. PANEL PRODUCTS

 CANADIAN SOFTWOOD PLYWOOD: TO CSA 0325, THICKNESS AS INDICATED ON DRAWINGS DOUGLAS FIR PLYWOOD: TO CSA 0121, THICKNESS AS INDICATED ON DRAWINGS. 3. POPLAR PLYWOOD: TO CSA 0153, STANDARD CONSTRUCTION, THICKNESS AS INDICATED ON DRAWINGS. 4. ORIENTED STRAND BOARD (OSB): OSB PANELS TO CSA O437, GRADE O 2, THICKNESS AS INDICATED ON DRAWINGS. GRADE STAMP SHALL INDICATE SPAN RATING.

4. FASTENING DEVICES AND HARDWARE NAILS AND SPIKES: TO CSA B111:

1. USE COMMON SPIRAL NAILS AND SPIRAL SPIKES U.N.O. 2. USE HOT DIP GALVANIZED FINISHED STEEL FOR EXPOSED EXTERIOR WORK, HIGHLY HUMID INTERIOR AREAS AND FOR PRESERVATIVE TREATED LUMBER. 3. BOLT, NUT, WASHER, SCREW AND PIN TYPE FASTENERS: HOT DIP GALVANIZED FINISH TO CSA G164.

2. METAL FRAMING ANCHORS 1. GENERAL: PROVIDE PRODUCTS WITH ALLOWABLE STRUCTURAL CAPACITY TO SUPPORT THE LOADS FROM MEMBERS AS SHOWN ON THE DRAWINGS

2. GALVANIZED STEEL: HOT-DIP, ZINC COATED STEEL SHEET COMPLYING WITH ASTM A653/A653M, G60 (Z180) COATING DESIGNATION. MIN. THICKNESS 1.3 MM.

3. JOIST HANGERS: U-SHAPED JOIST HANGERS WITH 50 MM LONG SEAT AND 32 MM WIDE NAILING FLANGES AT LEAST 85% OF JOIST DEPTH. 4. I-JOIST HANGERS: U-SHAPED JOIST HANGERS WITH 50 MM LONG SEAT AND 32 MM WIDE NAILING FLANGES FULL DEPTH OF JOIST. NAILING FLANGES TO PROVIDE LATERAL SUPPORT TO THE JOIST

5. TOP FLANGE HANGERS: U-SHAPED JOIST HANGERS. FULL DEPTH OF JOIST, FORMED FROM 50 MM WIDE METAL STRAP WITH TABS BENT TO EXTEND OVER AND BE FASTENED TO SUPPORT MEMBER.

3. PRESERVATIVE TREATED WOOD 1. PRESSURE PRESERVATIVE TREATED LUMBER: 1. LUMBER GRADED AND STAMPED IN ACCORDANCE WITH APPLICABLE GRADING RULES AND STANDARDS OF ASSOCIATIONS OR AGENCIES APPROVED TO GRADE LUMBER BY CANADIAN

LUMBER STANDARDS ACCREDITATION BOARD IN ACCORDANCE WITH CAN/CSA 080.20M. 2. SPECIES: PINE OR SPRUCE PINE 3. GRADE: NO.2 OR BETTER STRUCTURAL POSTS AND LUMBER, PIECES MAY BE GRADE STAMPED OR

SHIPMENT CERTIFIED BY LETTER OF COMPLIANCE. 4. GRADING AUTHORITY: NLGA, PARAGRAPH 131CC

5. USE CLASSIFICATION AND PRESERVATIVE AGENT AS SPECIFIED BELOW 6. MATERIAL HAVING TWISTED GRAIN OR STRUCTURAL DEFECTS AFFECTING INTEGRITY OF LUMBER

IS UNNACCEPTABLE. 7. USE ONLY MATERIAL WITH RADIUS EDGES, MINIMUM 6 MM. 8. KILN DRY LUMBER MATERIALS TO 8% MOISTURE CONTENT OR LESS.

2. PRESSURE PRESERVATIVE TREATED PLYWOOD: TREATED IN ACCORDANCE WITH CAN/CSA 080.9M USING WATER BORNE PRESERVATIVE TO OBTAIN MINIMUM NET RETENTION OF 4 KG/M³ OF WOOD. PLYWOOD OR LAMINATED MATERIALS SHALL BE MANUFACTURED WITH EXTERIOR GRADE ADHESIVES. AFTER TREATMENT, PLYWOOD SHALL BE KILN DRIED TO MOISTURE CONTENT OF 8% OR LESS. 3. WATER BORNE PRESERVATIVE TREATED WOOD SHALL HAVE MAXIMUM MOISTURE CONTENT OF 19% AFTER TREATMENT.

4. PRESERVATIVE TREATED WOOD MATERIALS AND APPLICATION

PRODUCT (S)	END USE(S)	EXPOSURE(S)	USE CATEGORY	APPLICABLE CLAUSES(S)
Battens –Plywood and sawn	Rain Screen Cavities	Above Ground	3.2	8.7
Battens – Sawn	Rain Screen Cavities	Above Ground	3.2	8.7
Cribbing – Sawn Four Sides	General	Ground Contact or Freshwater	4.1	8.2
Decks – Non-Residential	Decking (Unpainted), Joists (Above Ground), or Railing Components	Above Ground – Exterior	3.2	8.2
	Sill Plates and Building construction	Above Ground – Interior – Wood	2	8.2
Lumber	Permanent Wood Foundations	Above Ground or Ground Contact	4.2	8.2 and 8.2.2.1
Poles and Sawn Timbers	Structural Building	Gound Contact or Freshwater	4.2	8.2 and 8.3

5. CORROSION PROTECTION FOR CONNECTORS AND FASTENERS FOR USE WITH TREATED WOOD 1. CONNECTORS: FABRICATED FROM STEEL SHEET GALVANIZED IN ACCORDANCE WITH ASTM A653 TO MINIMUM G185 COATING OR GALVANIZED POST FABRICATION TO ASTM A123. 2. FASTENERS: HOT DIP GALVANIZED TO ASTM A153/A153M CLASS C AND D

EXECUTION ROUGH CARPENTRY WORK

1. ACCURATELY FRAME AND PROPERLY ASSEMBLE ROUGH CARPENTRY WORK. INCLUDE NECESSARY NAILS OR OTHER CONNECTORS AND HARDWARE.

2. ERECTION OF FRAMING MEMBERS INSTALL MEMBERS TRUE TO LINE, LEVELS AND ELEVATIONS. CONSTRUCT CONTINUOUS MEMBERS FROM PIECES OF LONGEST PRACTICABLE LENGTH.

. INSTALL SPANNING MEMBERS WITH "CROWN EDGE" UP. 4. INSTALL BLOCKING TO FACILITATE INSTALLATION OF FINISHING MATERIALS, FIXTURES, SPECIALTY ITEMS

5. INSTALL EWP'S TO COMPLY WITH MANUFACTURERS INSTRUCTIONS, DRAWINGS AND DETAILS. RIM JOIST OR RIM BOARD LUMBER FLOOR SYSTEM:

1. RIM JOISTS OR BOARDS TO BE 1 - 2X (DEPTH TO MATCH FLOOR SYSTEM) 2. ENGINEERED WOOD PRODUCT FLOOR SYSTEM: RIM JOISTS TO BE 1 - 3/4" LVL (DEPTH TO MATCH FLOOR SYSTEM).

2. LSL MAY BE USED WHERE FULL BEARING PROVIDED. 3. USE TWO PLY RIM AT LOCATIONS WHERE FASCIA MOUNT GUARDRAIL WILL BE INSTALLED. 4. ROOF, WALL, AND FLOOR SHEATHING INSTALL ROOF, WALL, AND FLOOR SHEATHING IN ACCORDANCE WITH CSA 086.

2. LOCATE PANEL END JOINTS LOCATED ON SOLID BEARING, STAGGERED AT LEAST [800] MM. 3. FASTEN ROOF AND WALL SHEATHING PANELS USING MIN. 3.33MM DIA. X 65MM COMMON SPIRAL OR ANNULAR GROOVED NAILS SPACED 150MM O.C. ALONG EDGES AND 300 MM O.C. ALONG INTERMEDIATE SUPPORTS. USE OF STAPLES IS NOT ACCEPTABLE.

1. FASTEN FLOOR SHEATHING WITH 50MM (2") LG. #8 SCREWS AT 150MM O.C. ALONG EDGES AND 300MM O.C. ALONG INTERMEDIATE SUPPORTS, U.N.O. 4. FLOORS SHEATHING TO BE MIN. 16MM (5/8") T&G PLYWOOD U.N.O.

5. FLAT ROOF SHEATHING TO BE MIN. 16MM (5/8") T&G PLYWOOD U.N.O. 6. SLOPING ROOF (2.5/12 & GREATER): 12.5MM (1/2") PLYWOOD WITH "H" CLIPS OR 2X BLOCKING BETWEEN

7. WALL SHEATHING TO BE 12.5MM PLYWOOD, U.N.O. . PROVIDE FIRE BLOCKING FOR STUDS > 9'-6". 2. PROVIDE SHEARWALL BLOCKING AND FASTENING AS INDICATED.

8. OSB FOR THE FLOORS AND ROOF MAY ONLY BE SUBSTITUTED FOR PLYWOOD WHEN APPROVED BY THE ARCHITECT. 5. BEAMS AND COLUMNS/POSTS:

1. BUILT-UP COLUMNS, POSTS, AND BEARING POINTS MUST BE BLOCKED THROUGH THE FLOOR SHEAR WALLS & EXTERIOR WALLS:

1. ENSURE SHEARWALLS ARE CONNECTED TO FLOORS, ROOF PLYWOOD, TRUSS BLOCKS, OR JOISTS WHERE REQUIRED WITH MIN. 3.66MM DIA. X 75MM LG NAILS AT 6" ON CENTER.

2. FASTEN TO CONCRETE WITH 16MM (5/8") DIA. ANCHOR BOLTS @ SPACING AS INDICATED IN SCHEDULES. 3. INSTALL HOLD DOWN ANCHORS WHERE NOTED ON PLAN. 4. LAP TOP PLATES 1220MM AND CONNECT WITH MIN. 12-3.66MM DIA. X 75MM LG. NAILS - SEE STANDARD

7. EXPOSED OR PRESERVATIVE TREATED WOOD: 1. PROVIDE CORROSION RESISTANT FIBRE REINFORCED FOIL MEMBRANE, ASPHALT-IMPREGNATED BUILDING PAPER, CLOSED-CELL FOAM GASKET MATERIAL, OR TYPE S ROLL ROOFING AS A MOISTURE

BARRIER BETWEEN WOOD ELEMENTS AND CONCRETE OR MASONRY. 2. WOOD FRAMING EXPOSED TO EXTERIOR WEATHER OR IN CONTACT WITH THE GROUND SHALL BE PRESERVATIVE-TREATED IN ACCORDANCE WITH CSA-080.1. 3. TREAT SURFACES EXPOSED BY CUTTING OR DRILLING WITH BRUSH APPLICATION OF EQUIVALENT

SURFACE APPLIED WOOD PRESERVATIVE. 4. FASTENERS USED IN PRESERVATIVE-TREATED WOOD SHALL HAVE APPROPRIATE CORROSION PROTECTION.

Engineering

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**ISSUED FOR TENDER** 

PROFESSIONAL SEAL

This drawing and the copyright are the property of the ENGINEER. Discrepancies, errors and omissions shall be referred to the Consultant for correction, interpretation or revision. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions shown on the drawings. Shop drawings shall be submitted to the Consultant for approval before proceeding with fabrication

**REVISIONS** 

**EXPLANATION** 22/06/17 ISSUED FOR TENDER

**ECLIPSE PROJECTS** 

**PROJECT** 

Q-KIDS DAYCARE CENTER

420 WEBSTER AVENUE, QUESNEL, BC DRAWING TITLE

**GENERAL NOTES** 

DESIGNER TANNER BRAATEN, P.ENG **REVIEWER** FERGUS FOLEY, P.ENC

DATE 22/06/17 SCALE 12" = 1'-0" SHEET NO.

21173

DRAWN BY

REV. NO.

### 06 12 25 TIMBER CONSTRUCTION GENERAL

SUBMITTALS

1. PRODUCT DATA: 1. SUBMIT PRODUCT DATA FOR PROPRIETARY TIMBER CONNECTORS.

2. SHOP DRAWINGS:

1. SUBMIT DETAILED SHOP DRAWINGS OF THE TIMBER FRAME INCLUDING TIMBER SIZES, DIMENSIONS, GRADES, EDGE TREATMENT, SURFACE TREATMENT, FINISHES, AND CONNECTION JOINERY DETAILS. 2. SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION AND DIRECTION OF A PROFESSIONAL ENGINEER LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.

DRAWINGS SUBMITTED FOR APPROVAL SHALL BE SIGNED AND SEALED BY THE ENGINEER. 3. SUBMIT ERECTION DRAWINGS IN ACCORDANCE WITH CSA 086.

4. SHOP DRAWINGS FOR MEMBERS: INDICATE GRADE, FINISHES, CAMBER, CUTS, LEDGERS, HOLES AND SAMPLES:

1. SUBMIT SAMPLES AND MOCK-UPS OF TIMBER MATERIALS FOR REVIEW AND ACCEPTANCE, INCLUDING SURFACE TREATMENT AND FINISHES. 2. QUALITY ASSURANCE

1. THE TIMBER FRAME CONTRACTOR SHALL BE A COMPANY MEMBER OF THE TIMBER FRAMERS GUILD. 2. WORK SHALL BE IN CONFORMANCE WITH THE TFEC 2-2018 CODE OF STANDARD PRACTICE FOR TIMBER

3. ALL TIMBERS SHALL BE GRADED BY A GRADER CERTIFIED BY AN APPROVED LUMBER GRADING AGENCY OR A QUALIFIED INDIVIDUAL WHO HAS COMPLETED A TIMBER GRADING TRAINING COURSE. TIMBERS SHALL BEAR A GRADE STAMP OR A CERTIFICATE OF GRADE FROM THE LUMBER GRADER.

3. DELIVERY, STORAGE, AND HANDLING 1. KEEP TIMBERS DRY DURING DELIVERY AND STORAGE. STORE TIMBERS OFF OF THE GROUND AND

2. CUT AND STACK TIMBERS SO AS NOT TO ENCOURAGE THE GROWTH OF SAP-STAIN FUNGI, MOLD OR MILDEW. STACK TIMBERS WITH STICKERS AND SPACERS BETWEEN BUNDLES TO ALLOW AIR

3. PROVIDE REASONABLE PROTECTION DURING TRANSPORTATION, STORAGE, HANDLING AND ERECTION OF THE TIMBERS TO AVOID MARRING, STAINING, OR THE ACCUMULATION OF EXCESS MOISTURE, DIRT AND FOREIGN MATTER.

#### PRODUCTS TIMBER

1. TIMBER SPECIES: DOUGLAS FIR.

TIMBER GRADE:

 ALL HEAVY TIMBER TO BE GRADED BY A QUALIFIED GRADING AGENCY ACCORDING TO CSA 0141, SOFTWOOD LUMBER. GRADING CERTIFICATE TO BE SUBMITTED TO THE ENGINEER PRIOR TO

3. MOISTURE CONTENT: TIMBERS SHALL BE DRIED IN A RADIO FREQUENCY KILN TO A MAXIMUM MOISTURE CONTENT OF 19% IN CENTER OF TIMBER. SUBMIT CERTIFICATE STATING MOISTURE CONTENT PRIOR TO

4. TIMBERS 8X12 AND SMALLER SHALL BE FREE OF HEART CENTER (FOHC). TIMBERS LARGER THAN 8X12 SHALL BE BOXED HEART.

5. DRESSING: TIMBERS SHALL BE SURFACED FOUR SIDES (S4S) U.N.O.

6. APPEARANCE:

1. ALL EXPOSED TIMBERS TO MEET THE FOLLOWING REQUIREMENTS:

WOOD SURFACE TO BE FREE OF LARGE KNOTS, CRACKS, CHIPS, MARKS, ETC. TO AVOID STAINING, DO NOT USE STEEL STRAPPING

2. ALL TIMBERS TO BE OF UNIFORM COLOUR, SURFACE TEXTURE AND MOISTURE CONTENT 3. ALL TIMBERS TO BE FREE OF ROUNDED EDGES AND BARK I.E. NO WANE.

2. TIMBER CONNECTIONS 1. WOOD PEGS: STRAIGHT GRAINED WHITE OAK CONFORMING TO ASTM D8023. IF TAPERED PEGS ARE USED, PEGS SHALL BE TAPERED FOR AT LEAST 1/3 OF THEIR LENGTH AND AT LEAST FOUR INCHES LONGER THAN THE THICKNESS OF THE TIMBER IN WHICH THEY ARE DRIVEN SO THAT THE TAPERED SECTION PROTRUDES FROM THE TIMBER.

2. BOLTS AND LAG SCREWS: ASTM A307 HOT-DIP GALVANIZED.

3. SCREWS: AS INDICATED.

4. POST BASE ANCHORS: AS INDICATED. 5. STEEL CONNECTION PLATES, STRAPS, AND BARS: ASTM A36, HOT DIP GALVANIZED.

FINISHES 1. PENETRATING SEALER: HERITAGE NATURAL FINISHES.

4. FABRICATION 1. TIMBERS SHALL BE FABRICATED IN STRICT CONFORMANCE TO APPROVED SHOP DRAWINGS.

FABRICATION PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS SHALL BE AT THE CONTRACTOR'S RISK. 2. CONNECTION JOINERY: TIMBERS SHALL BE FABRICATED TO JOIN TIGHTLY AND IN PROPER ALIGNMENT AT THE TIME OF ASSEMBLY. SMALL (1/8" OR LESS) VARIATIONS WHERE THE FACES OF JOINTS COME TOGETHER (IN ALIGNMENT OR SEPARATION) ARE ACCEPTABLE. PROVISIONS SHALL BE MADE IN THE DETAILING OF JOINERY TO ALLOW FOR DIMENSIONAL CHANGES (JOINT SEPARATION AND ALIGNMENT) ASSOCIATED WITH TIMBER DRYING SHRINKAGE.

3. CHAMFERS: EXPOSED EDGES OF POSTS AND BEAMS SHALL BE CHAMFERED WITH SKI TIP STOPS.

## EXECUTION

1. FIELD MEASURE AND VERIFYING THAT THE FOUNDATIONS AND ANY STRUCTURAL FRAMING THAT SUPPORTS THE TIMBER FRAMING ARE IN THE CORRECT LOCATION, ALIGNMENT, AND AT THE PROPER ELEVATION. THE CONTRACTOR SHALL NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN AN ACCEPTABLE MANNER. COMMENCEMENT OF ERECTION IMPLIES ACCEPTANCE OF CONDITIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING NECESSARY TO MAINTAIN THE STABILITY OF THE TIMBER FRAME DURING ERECTION.

3. TIMBERS SHALL BE STORED OFF OF THE GROUND AND PROTECTED PRIOR TO ERECTION.

4. PROTRUDING PEGS SHALL BE SAWN OFF FLUSH.

FINAL CLEAN UP 1. REPAIR ANY MARRED OR DAMAGED SURFACES, CLEAN SOILED OR STAINED TIMBERS, AND APPLY ONE COAT OF PENETRATING SEALER TO ALL EXPOSED SURFACES.

## 06 17 53 SHOP FABRICATED WOOD TRUSSES

 GENERAL REFERENCE STANDARDS

> CSA GROUP 1. CSA 086, ENGINEERING DESIGN IN WOOD.

> 2. CSA 0141, SOFTWOOD LUMBER.

2. TRUSS PLATE INSTITUTE OF CANADA (TPIC)

1. TPIC, TRUSS DESIGN PROCEDURES AND SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (LIMIT STATES DESIGN). 2. ACTION AND INFORMATIONAL SUBMITTALS

 PRODUCT DATA: 1. SUBMIT MANUFACTURER'S INSTRUCTIONS, PRINTED PRODUCT LITERATURE AND DATA SHEETS FOR WOOD TRUSSES AND INCLUDE PRODUCT CHARACTERISTICS, PERFORMANCE CRITERIA, PHYSICAL SIZE, FINISH AND LIMITATIONS.

SHOP DRAWINGS: 1. SUBMIT DRAWINGS STAMPED AND SIGNED BY PROFESSIONAL ENGINEER REGISTERED IN JURISDICTION OF PROJECT SITE.

2. INCLUDE ON DRAWINGS: CONNECTION AND HARDWARE DETAILS.

INDICATE TPIC TRUSS DESIGN PROCEDURE AND CSA 086 SPECIFIC PRODUCT REGISTRY NUMBER

OF THE TRUSS PLATES. 3. INDICATE SPECIES, SIZES, AND STRESS GRADES OF LUMBER USED AS TRUSS MEMBERS. SHOW PITCH, SPAN, CAMBER, CONFIGURATION AND SPACING OF TRUSSES. INDICATE CONNECTOR TYPES. THICKNESSES, SIZES, LOCATIONS AND DESIGN VALUE. SHOW BEARING DETAILS. INDICATE DESIGN LOAD FOR MEMBERS.

4. INDICATING DESIGN LOADS AND ALLOWABLE LOADS FOR TRUSS MEMBERS. INDICATE ARRANGEMENT OF WEBS OR OTHER MEMBERS TO ACCOMMODATE DUCTS AND OTHER

SHOW LOCATION OF LATERAL BRACING FOR COMPRESSION MEMBERS. CERTIFICATES: SUBMIT CERTIFICATES SIGNED BY MANUFACTURER CERTIFYING THAT MATERIALS

COMPLY WITH SPECIFIED PERFORMANCE CHARACTERISTICS AND PHYSICAL PROPERTIES. 8. INSTRUCTIONS: SUBMIT MANUFACTURER'S INSTALLATION INSTRUCTIONS. 3. QUALITY ASSURANCE

 QUALIFICATIONS: FABRICATOR OF TRUSSES TO SHOW EVIDENCE OF QUALITY CONTROL PROGRAM SUCH AS PROVIDED BY REGIONAL WOOD TRUSS ASSOCIATIONS, OR EQUIVALENT.

STORAGE AND HANDLING 1. STORE MATERIALS OFF GROUND AND IN ACCORDANCE WITH MANUFACTURER'S

RECOMMENDATIONS. REPLACE DEFECTIVE OR DAMAGED MATERIALS WITH NEW.

PROVIDE BEARING SUPPORTS AND BRACINGS. PREVENT BENDING, WARPING AND OVERTURNING OF TRUSSES.

2. PRODUCTS 1. DESIGN REQUIREMENTS

DESIGN LIGHT METAL PLATE CONNECTED WOOD TRUSSES IN ACCORDANCE WITH TPIC AND CSA 086. 2. DESIGN TRUSSES FOR LOADS INDICATED AND MIN. UNIFORM AND CONCENTRATED LOADINGS STATED IN

3. LIMIT LIVE LOAD DEFLECTION TO 1/360TH OF SPAN SUPPORTING GYPSUM BOARD CEILINGS. 4. LIMIT LIVE LOAD DEFLECTIONS TO 1/300TH OF SPAN U.N.O.

5. PROVIDE CAMBER FOR TRUSSES AS INDICATED. 2. FABRICATION

1. IDENTIFY LUMBER BY GRADE STAMP OF CERTIFIED AGENCY

1. FABRICATE WOOD TRUSSES IN ACCORDANCE WITH REVIEWED SHOP DRAWINGS. 3. SOURCE QUALITY CONTROL

EXECUTION

 EXAMINATION 1. SITE VERIFICATION OF CONDITIONS IS REQUIRED FOR MODIFICATIONS TO EXISTING TRUSS SYSTEMS. 2. MANUFACTURER'S INSTRUCTIONS

1. COMPLIANCE: COMPLY WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS OR SPECIFICATIONS, INCLUDING PRODUCT TECHNICAL BULLETINS, HANDLING, STORAGE AND INSTALLATION INSTRUCTIONS, AND DATASHEET. ERECTION

ERECT WOOD TRUSSES IN ACCORDANCE WITH REVIEWED SHOP DRAWINGS. 2. HANDLING, INSTALLATION, ERECTION, BRACING AND LIFTING IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.

3. MAKE ADEQUATE PROVISIONS FOR HANDLING AND ERECTION STRESSES.

4. EXERCISE CARE TO PREVENT OUT-OF-PLANE BENDING OF TRUSSES. 5. INSTALL TEMPORARY HORIZONTAL AND CROSS BRACING TO HOLD TRUSSES PLUMB AND IN SAFE

CONDITION UNTIL PERMANENT BRACING AND DECKING ARE INSTALLED. 6. INSTALL PERMANENT BRACING IN ACCORDANCE WITH DESIGN, WWTIBC BRACING GUIDELINES, AND REVIEWED SHOP DRAWINGS, PRIOR TO APPLICATION OF LOADS TO TRUSSES.

7. DO NOT CUT OR REMOVE ANY TRUSS MATERIAL WITHOUT APPROVAL OF SPECIALTY ENGINEER. 8. WHERE CANTILEVERED TRUSSES ARE BOTTOM CHORD BEARING. ADD 2"X4" DIAGONAL BRACING CONTINUOUS OVER BEARING LINE.

4. FIELD QUALITY CONTROL 1. MANUFACTURER'S FIELD SERVICES:

1. MANUFACTURER TO REVIEW WORK INVOLVED IN HANDLING AND INSTALLATION. COMPLETE FIELD REVIEW AND SUBMIT REPORT, IN ACCEPTABLE FORMAT, TO VERIFY CONFORMANCE WITH DESIGN. 2. PROVIDE REPORTS TO EOR WITHIN 3 DAYS OF REVIEW.

### 31 23 33 EXCAVATING AND BACKFILLING

1. ACTION AND INFORMATIONAL SUBMITTALS

PRECONSTRUCTION SUBMITTALS SUBMIT RECORDS OF UNDERGROUND UTILITIES, INCLUDING LOCATION PLAN OF EXISTING UTILITIES.

2. QUALITY ASSURANCE SUBMIT DESIGN AND SUPPORTING DATA AT LEAST 3 DAYS PRIOR TO BEGINNING WORK. 2. ENGAGE SERVICES OF QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN JURISDICTION OF

PROJECT SITE TO CARRY OUT TO DESIGN AND FIELD REVIEW OF SHORING, BRACING AND UNDERPINNING REQUIRED

3. DESIGN AND SUPPORTING DATA SUBMITTED TO BEAR SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER.

4. KEEP DESIGN AND SUPPORTING DATA ON SITE. 5. DO NOT USE SOIL MATERIAL UNTIL WRITTEN REPORT OF SOIL TEST RESULTS ARE REVIEWED AND

APPROVED BY THE APPROPRIATE CONSULTANT. 3. EXISTING CONDITIONS 1. REVIEW GEOTECHNICAL INVESTIGATION REPORT CONDUCTED BY [CONSULTANT], ENTITLED ["NAME

OF REPORT"] DATED [DATE OF PUBLISH].

2. EXISTING BUILDINGS AND SURFACE FEATURES: 1. CONDUCT CONDITION SURVEY OF EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWNS, FENCING, SERVICE POLES, WIRES, RAIL TRACKS, PAVEMENT, SURVEY BENCHMARKS AND

MONUMENTS WHICH MAY BE AFFECTED BY WORK. 2. PROTECT EXISTING BUILDINGS AND SURFACE FEATURES FROM DAMAGE WHILE WORK IS IN PROGRESS.

#### PRODUCTS MATERIALS

TYPE 1 AND TYPE 2 FILL:

. CRUSHED, PIT RUN OR SCREENED STONE, GRAVEL, OR SAND. 2. GRADATIONS TO BE WITHIN LIMITS SPECIFIED.

Sieve Designation	% Pa	ssing
	Type 1	Type 2
75 mm	-	[100]
50 mm	-	-
37.5 mm	-	-
25 mm	[100]	-
19 mm	[75-100]	-
12.5 mm	-	-
9.5 mm	[50-100]	-
4.75 mm	[30-70]	[22-85]
2.00 mm	[20-45]	-
0.425 mm	[10-25]	[5-30]
0.180 mm	-	-

2. TYPE 3 FILL: SELECTED MATERIAL FROM EXCAVATION OR OTHER SOURCES, APPROVED BY GEOTECHNICAL EOR FOR USE INTENDED, UNFROZEN AND FREE FROM ROCKS LARGER THAN [75] MM, CINDERS, ASHES, SODS, REFUSE OR OTHER DELETERIOUS MATERIALS.

[3-8]

[0-10]

3. UNSHRINKABLE FILL: PROPORTIONED AND MIXED TO APROVAL OF GEOTECHNICAL ENGINEER.

EXECUTION STRIP TOPSOIL

DO NOT MIX TOPSOIL WITH SUBSOIL.

2. PREPARATION/PROTECTION

0.075 mm

KEEP EXCAVATIONS CLEAN, FREE OF STANDING WATER, AND LOOSE SOIL. WHERE SOIL IS SUBJECT TO SIGNIFICANT VOLUME CHANGE DUE TO CHANGE IN MOISTURE CONTENT, COVER AND PROTECT.

3. SHORING, BRACING AND UNDERPINNING 1. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN SAFE CONDITION BY APPROPRIATE METHODS AND IN ACCORDANCE WITH HEALTH AND SAFETY REQUIREMENTS.

1. SHORING, CONSTRUCTION BRACING AND UNDERPINNING DESIGN TO BE COMPLETED BY CONTRACTOR'S ENGINEER AND APPROVED BY APPLICABLE ENGINEER'S-OF-RECORD. 4. DEWATERING AND HEAVE PREVENTION

KEEP EXCAVATIONS FREE OF WATER WHILE WORK IS IN PROGRESS. 2. AVOID EXCAVATION BELOW GROUNDWATER TABLE.

1. PREVENT PIPING OR BOTTOM HEAVE OF EXCAVATIONS BY GROUNDWATER LOWERING, SHEET PILE CUT-OFFS, OR OTHER MEANS.

3. PROTECT OPEN EXCAVATIONS AGAINST FLOODING AND DAMAGE DUE TO SURFACE RUN-OFF. 5. EXCAVATION EXCAVATION MUST NOT INTERFERE WITH BEARING CAPACITY OF ADJACENT FOUNDATIONS. 2. EARTH BOTTOMS OF EXCAVATIONS TO BE UNDISTURBED SOIL, LEVEL, FREE FROM LOOSE, SOFT OR

ORGANIC MATTER. 3. NOTIFY GEOTECHNICAL ENGINEER WHEN BOTTOM OF EXCAVATION IS REACHED.

. OBTAIN GEOTECHNICAL ENGINEER'S APPROVAL OF COMPLETED EXCAVATION. 5. REMOVE UNSUITABLE MATERIAL FROM TRENCH BOTTOM INCLUDING THOSE THAT EXTEND BELOW REQUIRED ELEVATIONS TO EXTENT AND DEPTH AS DIRECTED BY GEOTECHNICAL ENGINEER. CORRECT UNAUTHORIZED OVER-EXCAVATION AS FOLLOWS:

1. FILL UNDER BEARING SURFACES AND FOOTINGS WITH CONCRETE OR TYPE 2 FILL COMPACTED TO 7. HAND TRIM, MAKE FIRM AND REMOVE LOOSE MATERIAL AND DEBRIS FROM EXCAVATIONS. 1. WHERE MATERIAL AT BOTTOM OF EXCAVATION IS DISTURBED, COMPACT FOUNDATION SOIL TO

DENSITY AT LEAST EQUAL TO UNDISTURBED SOIL. 6. FILL TYPES AND COMPACTION 1. USE TYPES OF FILL AS INDICATED OR SPECIFIED BELOW.

ocation	Fill Material	Max. Lift Thickness	Minimum Compaction %
INDER INTERIOR SLABS ON GRADE	300mm type 2 subbase; 150mm type 1 base	150 MM	by geotech
EXTERIOR SLABS ON GRADE	300mm type 2 subbase; 150mm type 1 base	150 MM	by geotech
ngainst exterior side of foundations inder paved areas	type 3 to subgrade level; 300mm type 2 subbase; 150mm type 1 base	150 MM	by geotech

## 7. BACKFILLING

AREAS TO BE BACKFILLED TO BE FREE FROM DEBRIS. SNOW, ICE, WATER AND FROZEN GROUND,

DO NOT USE BACKFILL MATERIAL WHICH IS FROZEN OR CONTAINS ICE, SNOW OR DEBRIS. 3. PLACE BACKFILL MATERIAL IN UNIFORM LAYERS NOT EXCEEDING SPECIFIED COMPACTED THICKNESS

UP TO GRADES INDICATED. COMPACT EACH LAYER BEFORE PLACING SUCCEEDING LAYER. 4. BACKFILLING AROUND INSTALLATIONS:

1. DO NOT BACKFILL AROUND OR OVER CAST-IN-PLACE CONCRETE WITHIN 24 HOURS AFTER PLACING OF CONCRETE.

2. PLACE LAYERS SIMULTANEOUSLY ON BOTH SIDES OF INSTALLED WORK TO EQUALIZE LOADING. DIFFERENCE NOT TO EXCEED 600MM.

5. WHERE TEMPORARY UNBALANCED EARTH PRESSURES ARE LIABLE TO DEVELOP ON WALLS OR OTHER STRUCTURES: 1. PERMIT CONCRETE TO CURE FOR MIN. 14 DAYS OR UNTIL IT HAS SUFFICIENT STRENGTH TO

WITHSTAND EARTH AND COMPACTION PRESSURE, OR 2. IF APPROVED BY CONSULTANT, ERECT BRACING OR SHORING TO COUNTERACT UNBALANCE, AND LEAVE IN PLACE UNTIL REMOVAL IS APPROVED BY CONSULTANT.

#### ACRONYMS/DEFITIONS NOT ALL OF THESE DEFINITIONS MAY APPLY TO THIS PROJECT

= NELSON STUD

= TOP UPPER LAYER

VOID FORM = A COMPRESSIBL FORM TO ACCOMMODATE GROUND MOVEMENT

= REINFORCED

= TOP LAYER

**REINF** 

TOP

1.	GENERAL:				
	ARCH BL B/U  € CLR. CONT. C/W DET. TYP. DWG. HOR. VERT. LBS kPa m mm T.O.C. T.O.G. LLH EXT. WL Vf TBC UDL T _f	= ARCHITECT = BAYLINE = BUILT-UP = CENTERLINE = CLEAR = CONTINUOUS = COMPLETE WITH = DETAIL = TYPICAL = DRAWING = HORIZONTAL = VERTICAL = POUNDS = KILOPASCAL = METRE = MILIMETRE = TOP OF CONCRETE = TOP OF GRATING = LONG LEG HORIZONTAL = EXTERIOR = WIND LOAD = FACTORED SHEAR FORCE = TO BE CONFIRMED = UNIFORMLY DISTRIBUTED LOAD = FACTORED TENSION FORCE	MAX. MIN. C/C PLF PSF SBU Ø EOR DL GL U/S LG PLF kN kN/m W/ T.O.S. LLV (E) SL LL U.N.O. BCBC Cf Mf	= MAXIMUM = MINIMUM = CENTER TO CENTER = POUNDS PER LINEAR FOOT = POUNDS PER SQUARE FOOT = SNOW BUILD UP = DIAMETER =ENGINEER-OF-RECORD = DEAD LOAD = GRIDLINE = UNDERSIDE = LONG = POUNDS PER LINEAL FOOT = KILONEWTON = KILONEWTON PER METRE = WITH = TOP OF STEEL = LONG LEG VERTICAL = EXISTING = SNOW LOAD = LIVE LOAD = UNLESS NOTED OTHERWISE = BC BUILDING CODE = FACTORED MOMENT	
2.	TIMBER:				
	CR I OSB ST TS	= CRIPPLE (2"X6" U.N.O) = "I" JOIST (EWP) = ORIENTED STRANBOARD = STUD = TIMBERSTRAND	G.T. LVL PLY T & G EWP	= GIRDER TRUSS = LAMINATED VENEER LUMBER = PLYWOOD = TOUNGUE & GROOVE = ENGINEERED WOOD PRODUCT	
3.	3. CONCRETE:				
	BOT BUL CONC. H1E	= BOTTOM LAYER = BOTTOM UPPER LAYER = CONCRETE = HOOK ONE END	BLL CJ EW H2E	= BOTTOM LOWER LAYER = CONTROL JOINT = EACH WAY = HOOK TWO END	

P/C = PRE-CAST CONCRETE - BY OTHERS

= REINFORCED WITH

TLL = TOP LOWER LAYER

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REVISIONS

NO. DATE **EXPLANATION** 22/06/17 ISSUED FOR TENDER

**ECLIPSE PROJECTS** 

Q-KIDS DAYCARE CENTER

**PROJECT** 

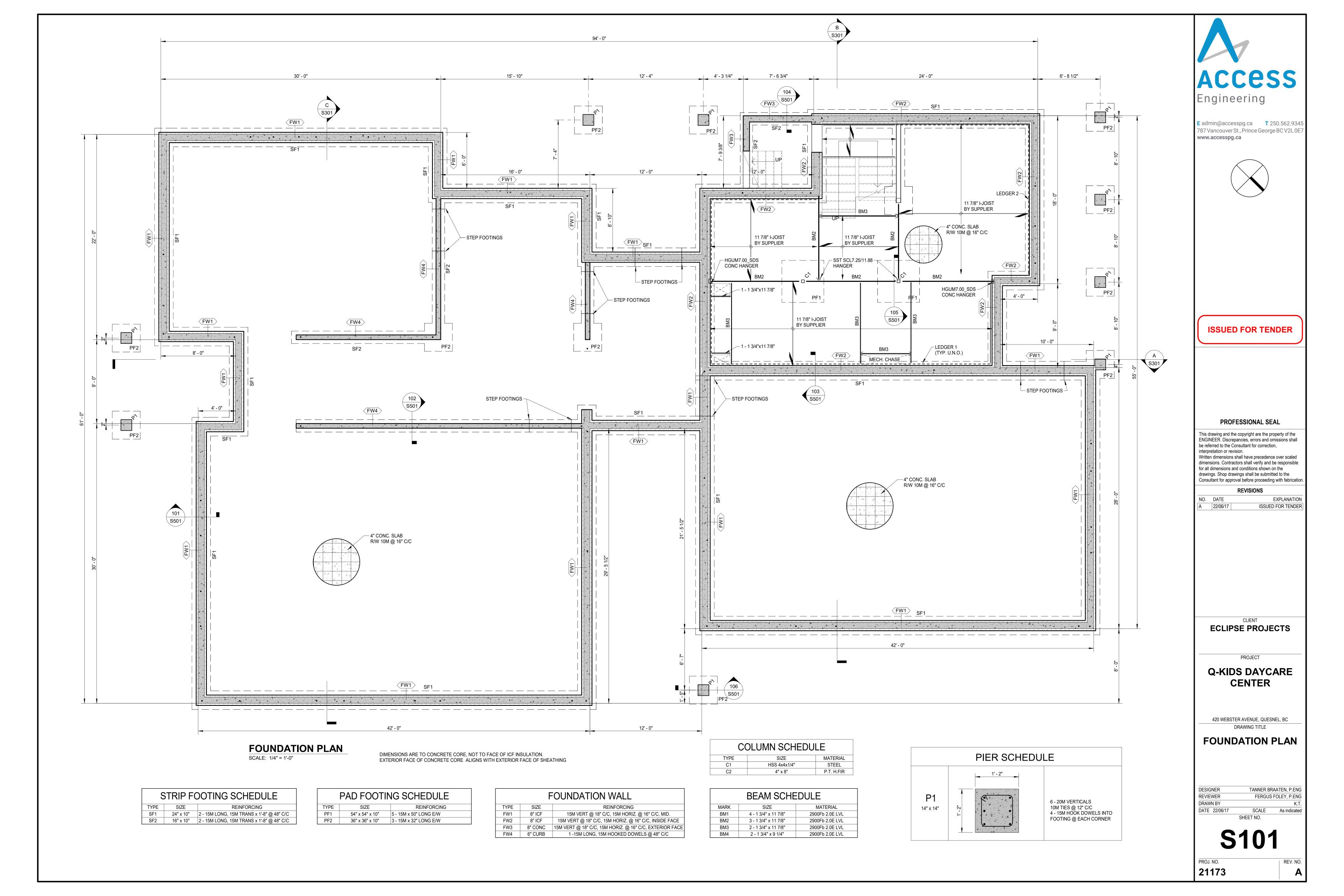
420 WEBSTER AVENUE, QUESNEL, BC DRAWING TITLE

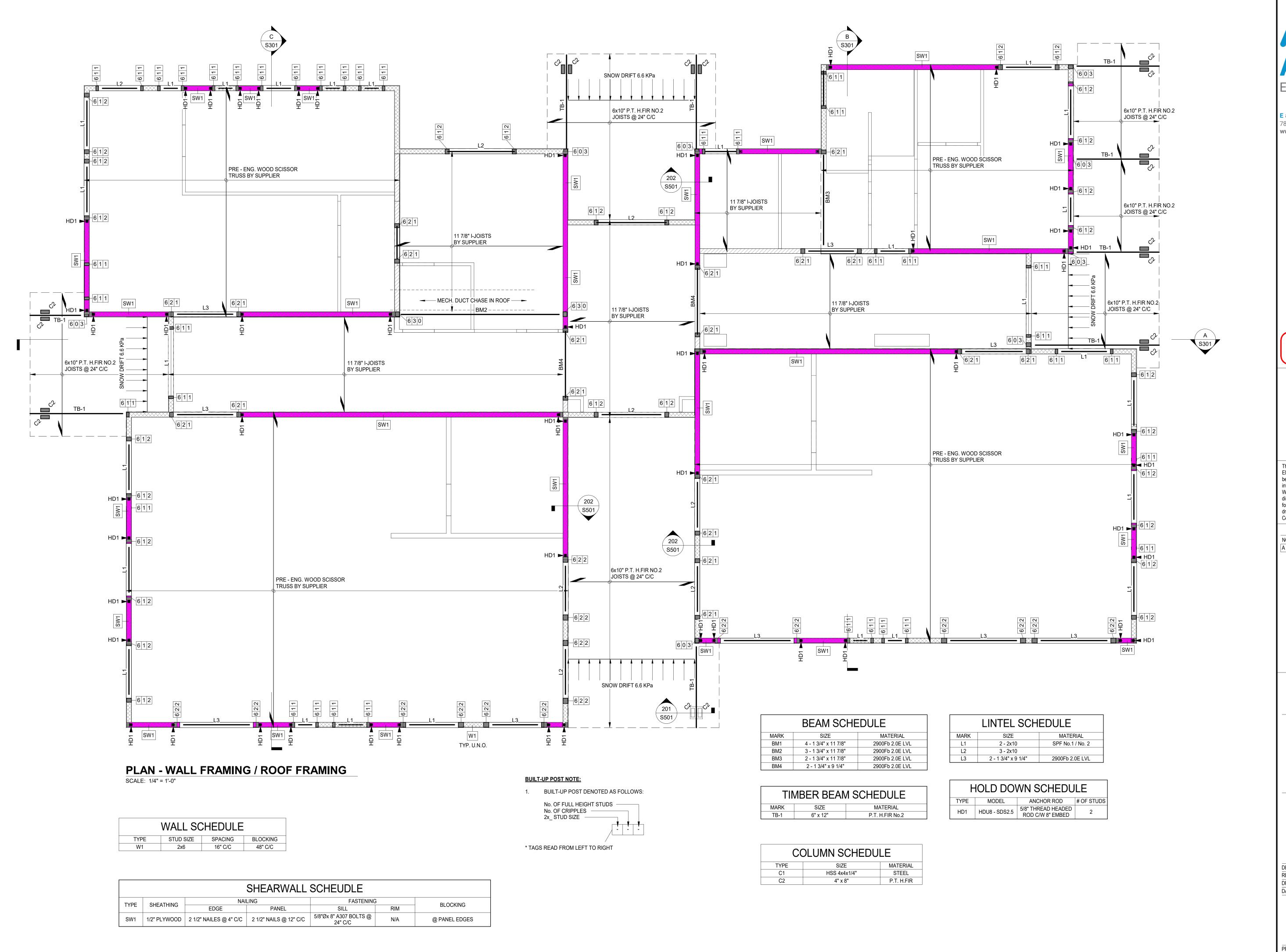
**GENERAL NOTES** 

TANNER BRAATEN, P.ENG DESIGNER REVIEWER FERGUS FOLEY, P.ENC DRAWN BY DATE 22/06/17 SCALE 12" = 1'-0" SHEET NO.

REV. NO.

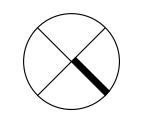
21173





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ECLIPSE PROJECTS

PROJECT

## Q-KIDS DAYCARE CENTER

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FRAMING PLANS

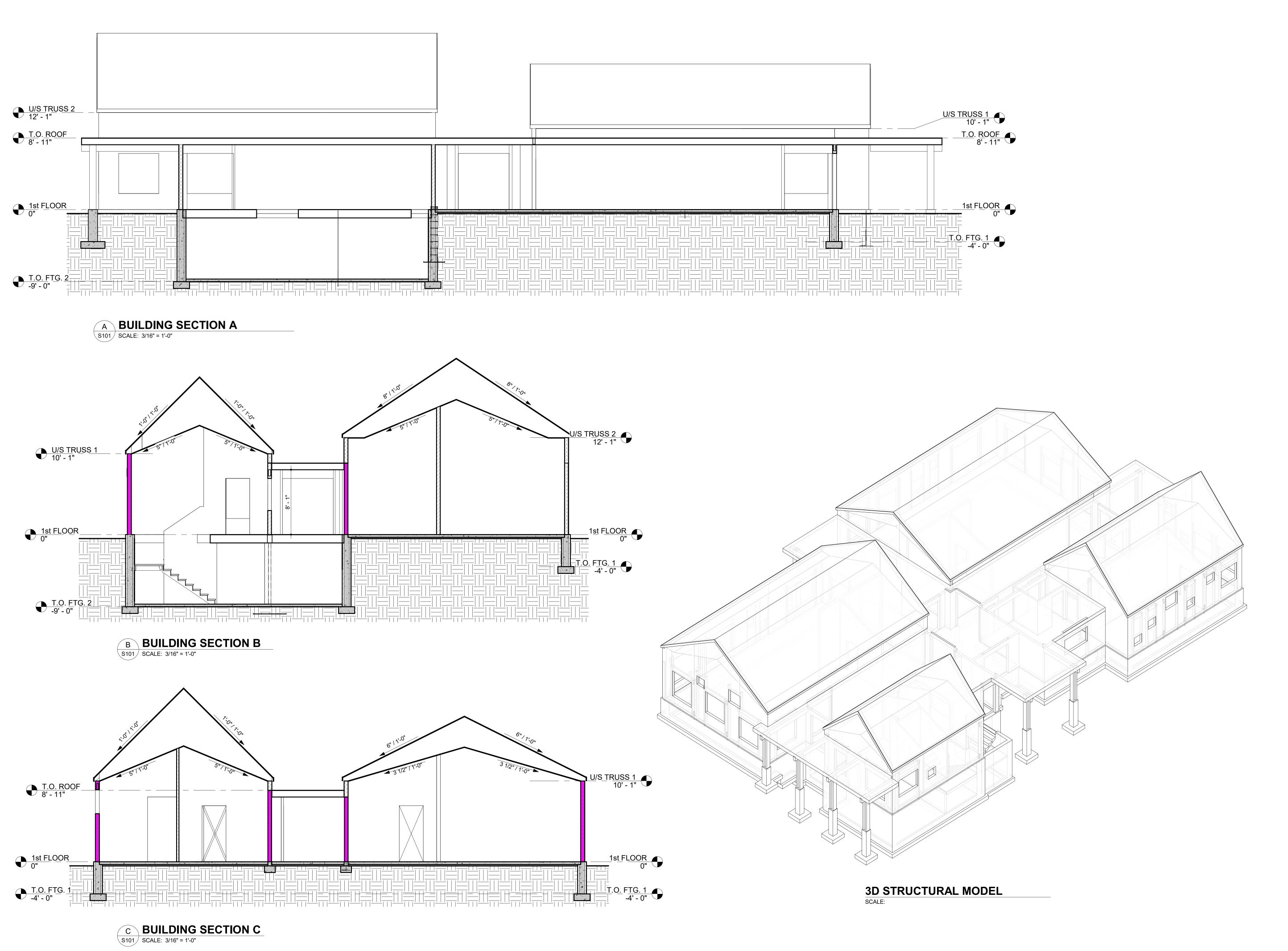
DESIGNER	TANNER BRAATEN, P.ENG			
REVIEWER	FERGUS FOLEY, P.ENG			
DRAWN BY		K.T.		
DATE 22/06/17	SCALE	As indicated		

SHEET NO.

REV. NO.

**S110** 

PROJ. NO. **21173** 





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Q-KIDS DAYCARE CENTER

420 WEBSTER AVENUE, QUESNEL, BC
DRAWING TITLE

**BUILDING SECTIONS** 

DESIGNER TANNER BRAATEN, P.ENG
REVIEWER FERGUS FOLEY, P.ENG

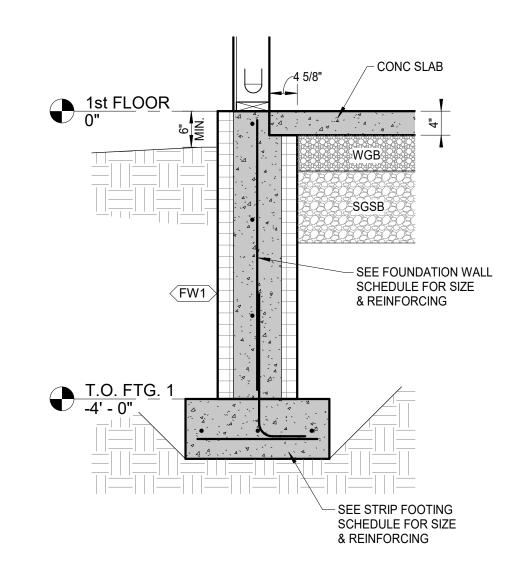
DRAWN BY

DATE 22/06/17 SCALE 3/16":

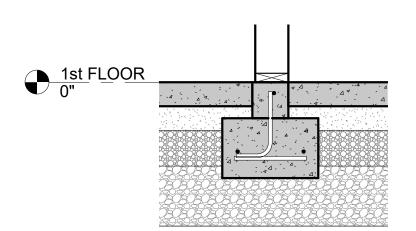
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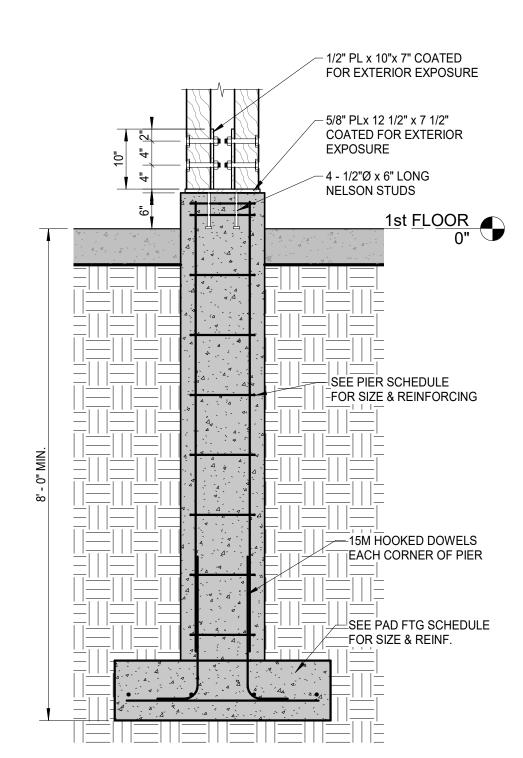
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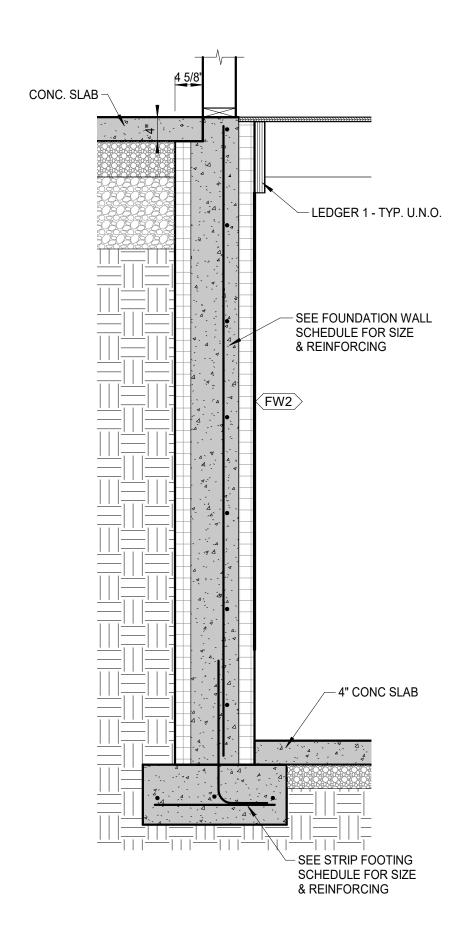
# 101 FOUNDATION WALL DETAIL - FW1 S101 SCALE: 3/4" = 1'-0"



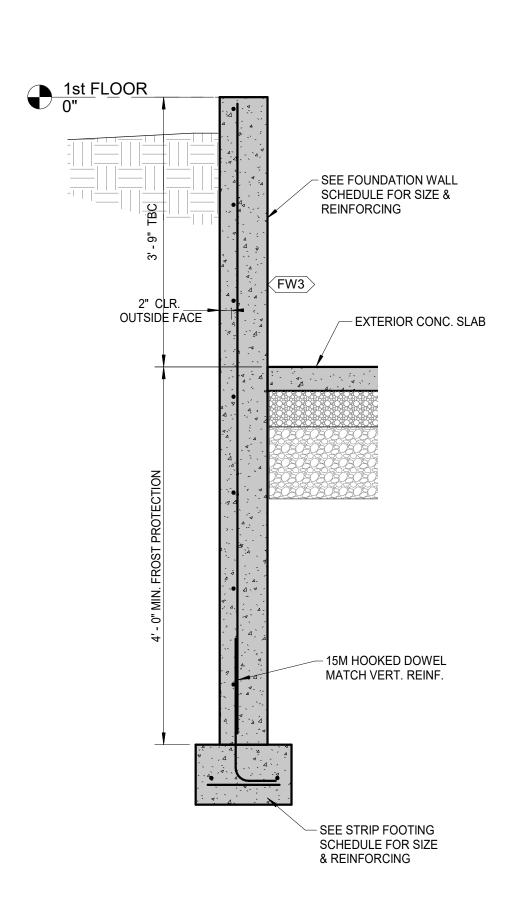
# 102 TYP. INTERIOR STRIP FTG S101 SCALE: 3/4" = 1'-0"



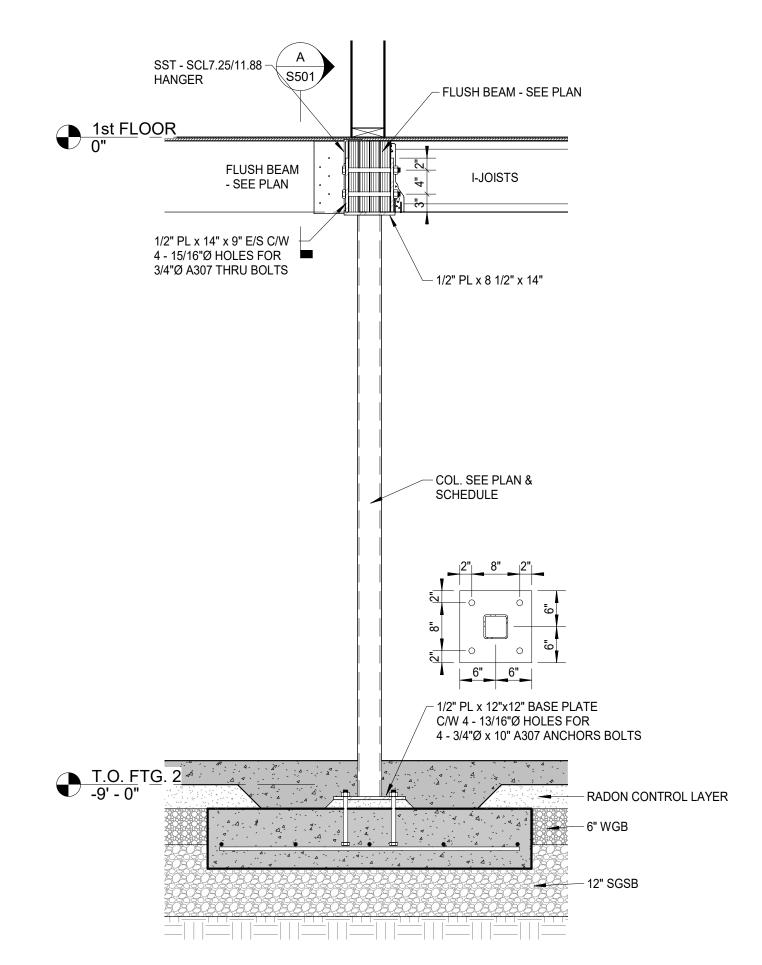
106 EXTERIOR PIER DETAIL
S101 SCALE: 3/4" = 1'-0"



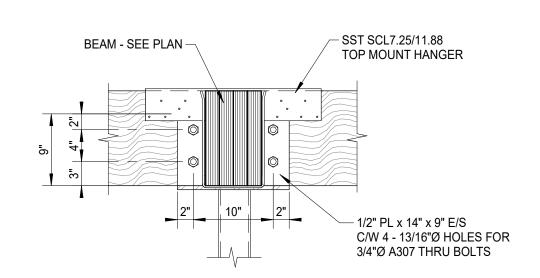
103 FOUNDATION WALL DETAIL - FW2
S101 SCALE: 3/4" = 1'-0"



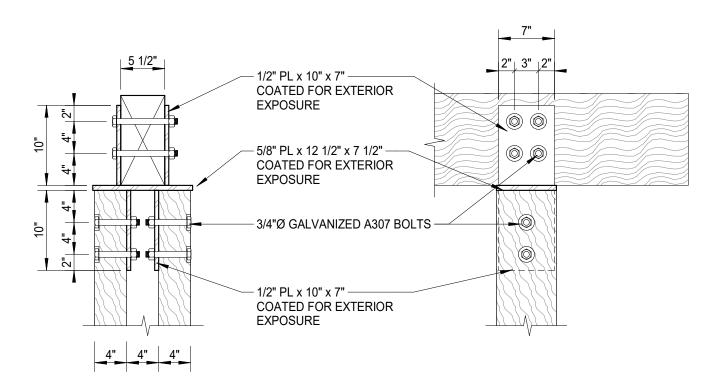
104 FOUNDATION WALL DETAIL - FW3
S101 SCALE: 3/4" = 1'-0"



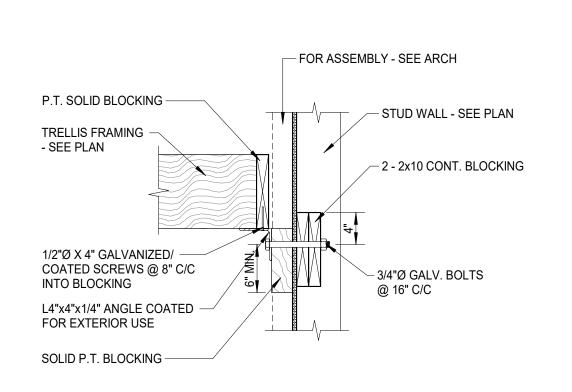
105 INTERIOR COL. & PAD DETAIL
SCALE: 3/4" = 1'-0"



A SCALE: 1" = 1'-0"



TIMBER BEAM CONNECTION
S110 SCALE: 1" = 1'-0"



202 TRELLIS LEDGER DETAIL
S110 SCALE: 1" = 1'-0"



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Q-KIDS DAYCARE CENTER

PROJECT

420 WEBSTER AVENUE, QUESNEL, BC
DRAWING TITLE

**DETAILS** 

DESIGNER TANNER BRAATEN, P.ENG
REVIEWER FERGUS FOLEY, P.ENG
DRAWN BY K.T.
DATE 22/06/17 SCALE As indicated
SHEET NO.

**S501** 

PROJ. NO. REV. NO. **A**