

1. ALL TIMBER CONSTRUCTION SHALL CONFORM TO CSA STANDARD CAN3 -886-LATEST EDITION, AND THE ALBERTA BUILDING CODE 2014, PART 9.
2. THIS SET OF DRAWINGS ONLY SHOW MEMBER SIZES AND CONCEPTUAL DESIGN. ALL CONNECTIONS SHALL CONFORM TO ABOVE STANDARD.
3. ALL LUMBER SHALL BE #2 GRADE (OR BETTER) SPRUCE UNLESS NOTED D.F. (DOUGLAS FIR).
4. ALL PLYWOOD SHEATHING SHALL BE T & G D.F. UNLESS NOTED.
5. ALL METAL CONNECTORS SHALL BE GALVANIZED.
6. PROVIDE TEMPORARY BRACING DURING CONSTRUCTION UNTIL ALL SHEATHING INSTALLED.
7. SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL WORK AND ANY WORK AFFECTING THE STRUCTURE TO PCA PROJECT MANAGER FOR REVIEW BEFORE PROCEEDING WITH FABRICATION. STRUCTURAL DRAWINGS REQUIRE ENGINEER STAMPED DRAWINGS.

1. LUMBER:
UNLESS OTHERWISE NOTED, TO BE S-P-F SPECIES, GRADE NO. 2 OR BETTER, OR OTHERWISE STATED AS DOUGLAS FIR (D.F.) ON PLAN, AND CONFORMING TO CSA STANDARD 0141 WITH MAXIMUM MOISTURE CONTENT OF 19% AT THE TIME OF INSTALLATION. LUMBER SHALL BEAR THE GRADING STAMP OF AN AGENCY APPROVED BY THE CANADIAN LUMBER STANDARDS ADMINISTRATION BOARD.
2. FASTENERS, SCREWS, NAILS, SPIKES AND STAPLES:
TO CSA STANDARD: STAINLESS STEEL FOR EXTERIOR WORK, OR HIGHLY HUMID AREAS AND FOR TREATED LUMBER; PLAIN ELSEWHERE. NAILING OF FRAMING UNLESS OTHERWISE NOTED, SHALL CONFORM TO TABLES 9.2.3.3.4 IN THE ALBERTA BUILDING CODE.
3. ROUGH HARDWARE:
BOLTS, NUTS, WASHERS, LAGS, PINS, SCREWS, ALL TO BE HOT DIP GALVANIZED.
4. WOOD PRESERVATIVE:
WHERE REQUIRED TO CONFORM TO CSA STANDARD 080.
5. FRAMING ANCHORS:
FRAMING ANCHORS, JOIST HANGERS, BEAM HANGERS, POST CAPS, PORS, AND BACK-UP CLIPS AND ANGLES, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ARE ALL TO BE MANUFACTURED BY TIMBERS ENGINEERING COMPANY (TECO) OR AN APPROVED EQUAL, SIZED TO THE JOB AT HAND. ALL ARE TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS UTILIZING "SPECIAL" NAILS WHERE REQUIRED. PROVIDE TRIPLE GALVANIZED METAL JOISTS, BEAMS AND RAFTERS HANGER WHERE JOISTS, BEAMS AND RAFTERS ARE FRAMING INTO THE SIDE OF THE SUPPORTING BEAM.
6. ROOF JOISTS:
PROVIDE JOISTS OF SIZES, SPACING AND SPAN AS NOTED ON THE DRAWINGS. UNLESS OTHERWISE NOTED, JOISTS SHALL BE CONTINUOUS IN ANY ONE SPAN WITH NO SPLICE. WHERE JOISTS FRAME INTO THE SIDE OF A WOOD BEAM, PROVIDE APPROPRIATE JOIST HANGERS, NAILED TO THE TOP AND TO THE SIDE OF THE BEAM.
7. BRIDGING OR BLOCKING:
PROVIDE CROSS BRIDGING OR SOLID BACKING OR APPROVED PROPRIETARY METAL STRAPS IN ACCORDANCE WITH THE ALBERTA BUILDING CODE. SPACING TO BE AT THE ENDS AND AT 2100mm MAXIMUM CENTRES.
8. ROOF SHEATHING:
PLYWOOD OF TYPE AND THICKNESSES SHOWN ON THE DRAWINGS SHALL CONFORM TO CSA STANDARDS 0121, 0151, OR 0153, AND SHALL BE INSTALLED WITH END JOINTS STAGGERED. AT EDGES OF PANELS, PROVIDE NOT LESS THAN 38x38 BLOCKING SECURELY NAILED BETWEEN FRAMING MEMBERS, UNLESS OTHERWISE APPROVED. NAILS TO BE 50 SPIRAL OR RING THREAD AT 1200mm MAXIMUM (150 ALONG BUTT EDGES). MAKE BUTT JOINTS ON SOLID MATERIAL.
9. NOTCHING & DRILLING:
ONLY ALLOWED WITHIN THE LIMITATIONS SET OUT IN THE ALBERTA BUILDING CODE. NO NOTCHING OF THE BEAMS AND JOISTS IS ALLOWED WITHOUT THE ENGINEER'S APPROVAL.
10. THE GENERAL CONTRACTOR TO PROVIDE TRIPLE GALVANIZED TRUSS TIES (SIMPSON OR APPROVED EQUIVALENT) AT ALL BEARING LOCATION OF TRUSSES TO THE TOP PLATE OF SUPPORTING LOAD BEARING WALL.
11. PROVIDE TRIPLE GALVANIZED METAL STRAP TO THE FLOOR CONSTRUCTION TO MASONRY PARTY WALL AND FIRE WALL.
12. ALL TIMBER WORK USED IN THE EXTERIOR AND/OR EXPOSED TO WEATHER CONDITION SHALL BE PRESSURE TREATED.
13. PROVIDE HEIGHT BLOCKING TO ALL EXTERIOR WOOD STUD WALLS AND LOAD BEARING WALLS WHICH ARE NOT SHEATHED ON BOTH SIDES WITH PLYWOOD OR DRYWALL.
14. LAMINATED LUMBER BEAMS SHALL BE LAMINATED VENEER LUMBER SUCH AS "MICROLAM" BY TRUS-JOIST, OR LAMINATED STRANDED LUMBER "PARALLAM" BY TYS SYSTEM.
15. PLYWOOD SHEATHING:
A) SHEATHING SHALL BE EXTERIOR TYPE PLYWOOD CONFORMING TO CSA 0121-M1978, "DOUGLAS FIR PLYWOOD" OR CSA 0151, "CANADIAN SOFTWOOD PLYWOOD".
B) ROOF SHEATHING SHALL BE A MINIMUM THICKNESS OF 16mm (5/8") TONGUE-AND-GROOVED AND A MINIMUM OF 10mm (3/8") FOR A SLOPING ROOF.
C) PLYWOOD SHEATHING SHALL BE INSTALLED WITH THE SURFACE GRAIN AT RIGHT ANGLES TO THE FRAMING AND WITH THE END JOINTS STAGGERED.
D) LAYOUT PLYWOOD STAGGERED JOINT PATTERN SUCH THAT PLYWOOD SHEET IS AT LEAST TWO SPAN CONTINUOUS WHERE POSSIBLE.
E) ALL END JOINTS MUST BE POSITIONED ALONG CENTRE LINE OF SUPPORT.
F) ROOF SHEATHING SHALL BE INSTALLED WITH AT LEAST A 2mm (1/16") GAP BETWEEN SHEETS.
G) FASTENERS SHALL BE SPIRAL OR RING THREAD NAILS, 51mm (2") LONG MINIMUM.
H) PLYWOOD SHEATHING SHALL BE NAILED TO SUPPORTS AT 150mm (6") MAXIMUM ALONG EDGES AND AT 250mm (10") MAXIMUM ALONG INTERMEDIATE SUPPORTS.
16. ALL BOLTS SHALL BE A307 BOLTS. PROVIDE STANDARD WASHERS AT TIMBER SURFACES. REMOVE AND REPLACE ANY DEFECTIVE MATERIALS WHEREVER FOUND PRIOR TO FINAL ACCEPTANCE OF THE WORK.
17. ROOF DECKING AT KIOSKS TO BE 38 x 89 CEDAR DECKING. REFER TO L-32 AND L-33.

GENERAL NOTES:

1. ALL ELEMENTS AND DIMENSIONS TO CSA STANDARDS B651-04 FOR BARRIER FREE WASHROOM.
2. ENSURE SITES ARE DRY & CAPABLE OF SUPPORTING THE FULLY LOADED STRUCTURE.
3. ALL REQUIRED METALS TO BE HOT DIPPED GALVANIZED ANCHORS AND CONNECTORS. HOT DIP GALVANIZING TO CAN/CSA G 164 [M92 (R1998)]
4. INTERIOR STALL DIMENSIONS SHOWN ON DRAWINGS ARE MINIMUM. CONTRACTOR IS PERMITTED TO INCREASE THE STALL SIZE.
5. ALL ELEMENTS AND DIMENSIONS TO CSA STANDARDS B651-04 FOR BARRIER FREE WASHROOM.

PRECAST CONCRETE VAULT (TANK) & FLOOR.

1. DESIGN AND BUILT PRECAST, REINFORCED MPA 40 CONCRETE VAULT(S) AND SLABS TO EXTERIOR DIMENSIONS AND OPENINGS AS INDICATED. VAULT IS TO CONTAIN HUMAN WASTE AND WILL BE SET ON A VARIETY OF SOIL TYPES AND CONDITIONS. PRODUCT SHALL BE MANUFACTURED & FINISHED TO MEET CAN/CSA A23.4/A251.
2. DESIGN AND BUILT FLOOR SLAB, DESIGN FOR 4.8 KPA LIVE LOAD. DESIGN REINFORCE SLAB AS PER CSA A23.3 / A23.4 / A251. PROVIDE (CAST-IN)
3. DESIGN AND BUILT THE EXTERIOR SLAB DEPENDENT OF VAULT & VAULT SLAB.
4. CONTRACTOR MAY PROVIDE A DIFFERENT DIMENSION OF THE VAULT AND SLAB FLOOR. VAULT SIZE SHALL BE MIN. 1500 US GALLON CAPACITY. THE CONTRACTOR MAY CHANGE SIZES TO SUIT THE VAULT & SLAB DIMENSIONS THE SIZE OF THE BUILDING DO NOT CHANGE. DESIGN AND BUILT VAULT AND FLOOR SLAB. PROPOSED SIZE FOR REVIEW BY PARKS PROJECT MANAGER AFTER THE AWARD OF THE CONTRACT.
5. THE BOTTOM OF THE VAULT SHALL BE SLOPED AT LEAST 5%, IN ONE POUR WITH THE VAULT'S WALL. CONCRETE POUR INTO THE FLAT BOTTOM VAULT TO ACHIEVED / BUILT UP THE DESIRE SLOPE IS NOT ACCEPTABLE.
6. PRECAST VAULT SHALL BE DESIGNED TO CAN/CSA A23.4 / A251-00 AND DESIGNED FOR A CORROSIVE AND SATURATED ENVIRONMENT TO RESIST WATER, ALKALINE, SALT AND HUMAN WASTE. TANK SHALL BE FABRICATED AT A MANUFACTURING PLANT CERTIFIED BY CSA A251 FOR THIS APPLICATION. CONCRETE SHALL BE DESIGNED TO ACCOMMODATE 4.8 KPA LIVE LOAD.
7. CAST IN PLACE ALL REQUIRED ANCHORS AND CONNECTIONS. ELEVATION AT TOP OF FLOOR SLAB TO BE AT LEAST 200MM ABOVE SURROUNDING GROUND SURFACE AND TO ENSURE POSITIVE DRAINAGE AWAY FROM THE NEW PUMP-OUT UNIT.
8. EXTRUDED POLYSTYRENE:
STYROFOAM HIGHLAND 60 DOW CHEMICAL CANADA
9. FLOOR AND EXTERIOR SLAB FINISHES:
 - 9.1. SURFACE FINISH: TROWEL EDGES AND AT WALLS, AS NOTED ON DRAWINGS. BROOM FINISH ELSEWHERE.
 - 9.2. COLOUR: MATCH PATONE COLOUR PQ-14-4107TCX QUIET GRAY

1. VENT PIPE:
HIGH DENSITY POLYETHYLENE CORRUGATED EXTERIOR RIB WITH SMOOTH INTERIOR WALLS, 255MM DIA, TUBING, UV RESISTANCE WITH A MIN. 2% CARBON BLACK ADDITIVE. ACCEPTABLE PRODUCT BOSSS 2000, DESIGN LOCATION OF HOLE IN FLOOR SLAB TO FIT LOCATION OF THE VENT PIPE.
2. STRAPPING SUPPORT TO FASTEN TUBE TO BUILDING SHALL BE GALVANIZED OR STAINLESS STEEL.
3. METAL PLATE COLLAR TO SUPPORT THE TUBE TO FLOOR TO BE BLACK AND BOLTED TO THE FLOOR. PRIME AND PAINT BLACK.
4. TOILET RISER PER STALL:
COMPLETE WITH FLIP-UP SEAT AND COVER. ACCEPTABLE PRODUCT ZEE BEST (EDMONTON). PROVIDE STAINLESS STEEL SAFETY BAR ON THROAT OF TOILET RISER.
5. URINAL:
URINAL TO MEET BARRIER FREE REQUIREMENTS OF THE ALBERTA BUILDING CODE 2014.
6. DESIGN AND PLACE HOLE / TOILET SO THAT THE FLIP UP SEAT WILL TOUCH THE WALL OR GRAB BAR WITHOUT FORCING IT.
7. BUTYL JOINT SEALANT:
SEALANT SHALL BE OF BUTYL RUBBER MATERIAL IN FLEXIBLE ROPE TO MEET OR EXCEED ALL REQUIREMENTS OF AASTO M198 AND ASTM C990 SECTION 6.2.
8. OTHER ELEMENTS:
REQUIRED TO ENCLOSE AND WATERPROOF THE COMPLETE WALL / ROOF STRUCTURE, INCLUDING FLASHING AND CAULKING. CAULKING BOTH SIDE OF THE WALL PANELS.
9. HYDROSTATIC LEAKAGE TEST:
 - A) THE CONTRACTOR SHALL IN THE PRESENCE OF THE PARKS FIELD PROJECT OFFICER, FILL THE VAULT (TANK) WITH WATER TO THE BOTTOM OF THE FLOOR SLAB.
 - B) THERE SHALL BE NO CHANGE IN WATER LEVEL INSIDE THE TANK AFTER TWENTY FOUR HOURS. INSPECTION OF THE WATER LEVEL SHALL BE IN PRESENCE OF THE FIELD PROJECT OFFICER.
 - C) IF THE LEAKAGE TEST FAILED, THE CONTRACTOR SHALL REPAIR TH TANK AT HIS/HER COST.
 - D) THERE SHALL BE NO ADDITIONAL PAYMENT FOR RE-TESTING AS REQUIRED BY THE CONTRACTOR. IT IS CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE UNIT.
 - E) PARKS WILL SUPPLY WATER AND REMOVAL OF WATER AT NO COST TO THE CONTRACTOR.

SOLAR POWERED FAN ASSEMBLY

1. 12" ROUND ALUMINUM BLADE FAN C/W WEATHER SHROUD, 315 MM DUCT DIMENSION, INTEGRAL BIRD SCREEN.
2. 12 WATT ADJUSTABLE SOLAR PANEL MOUNTED ON FAN SHROUD.
3. 20 WATT SOLAR PANEL BATTERY SYSTEM FOR DAY AND NIGHT OPERATION C/W 9.6AH LITHIUM BATTERY PACK.
4. MOTOR - IP68 WATER RESISTANCE.
5. STANDARD OF ACCEPTANCE: SIPL MODEL SN2013006, OR APPROVED EQUIVALENT.
6. DUCTWORK AND FITTINGS:
 - a. TO ASTM A480/A480M, TYPE 304.
 - b. THICKNESS: 18 GAUGE
 - c. JOINTS: TO SMACNA STANDARDS

1. CEILING MOUNTED LIGHT: QTY 2, FROSTED GLASS COVER, NO GLARE FEATURE, 450 LUMEN, 12V 5W LEDS, STANDARD OF ACCEPTANCE: SOLAR ILLUMINATIONS RL05
2. PROVIDE ADJUSTABLE LIGHT ACTIVATION SWITCHES FOR EACH LIGHT. ACTIVATES LED LIGHTS WITH LACK OF NATURAL LIGHT.
3. TWO ZONE SYSTEM C/W TWO 12V, 18AH BATTERY PACKS, INDOOR/OUTDOOR RATED BATTERY ENCLOSURE, MOUNTING BRACKETS, 5AMP CHARGING CONTROL MODULE
4. SOLAR PANEL, 45WATT PANEL C/W 18' CORD
5. RATED FOR AUTONOMOUS USE.

1. DOOR AND FRAME:
MIN. 1.5MM THICK PRESSED STEEL FRAME, DOOR SLAB. KNOCK DOWN
FRAME IS NOT ACCEPTABLE. PREPARE DOOR & FRAME TO RECEIVE
OWNER SUPPLIED DEAD BOLT OWNERS' TEMPLATE. DOOR CLEARANCE TO
BE MINIMUM 800mm IN OPEN POSITION.
2. DOOR AND FRAME COLOUR: (SEE ELEVATIONS).
3. LATCH:
OPERABLE WITH A CLOSED FIST @ 950mm ABOVE FLOOR.
4. PASSAGE LOCK:
ON BARRIER FREE WASHROOM BATHROOM / BEDROOM PRIVACY PASSAGE
SET, BARRIER FREE LEVER HANDLES, SATIN NICKEL, ANSI A156.2 SERIES
4000 GRADE 1, PRODUCT EQUAL SCHLAGE ND40-SERIES.
5. HINGES:
112 X 100 C26D, COMMERCIAL GRADE
6. DOOR CLOSER:
HEAVY DUTY DOOR CLOSER ON DOOR SLAB TO FRAME. SURFACE
MOUNTED, UNIVERSAL, NON-HANDED APPLICATION, #4 SIZE FOR DOOR
WEIGHING 121-187 LBS. UL LISTED, BRONZE OR ALUMINUM FINISH, SPRING
HINGES OR GRAVITY HINGES.
7. HOOK:
PROVIDE STAINLESS STEEL HOOK(S), NUMBER PER STALL AND MOUNT
HEIGHT AS PER DRAWING.
8. BARRIER FREE GRAB BARS PER STALL:
TWO EACH, ONE 910mm BEHIND TOILET, 120mm WITH 600mm ANGLED
SECTION FOR SIDE WALL (SEE ELEVATION.), 30-40MM DIA., 40MM CLEAR
FROM WALL, SLIP RESISTANT, NOT ROTATE WITH FITTINGS, RESIST A
FORCE OF 1.3 kN APPLIED IN ANY DIRECTION, STAINLESS STEEL.
9. NOTE:
HARDWARE OF CHROME-PLATED "ZAMAK" IS NOT ACCEPTABLE.
10. DEAD BOLT:
INSTALL OWNER SUPPLIED DEAD BOLT.
11. TOILET PAPER DISPENSER PER STALL:
INSTALL OWNER SUPPLIED PAPER DISPENSER AND LOCATE AS PER
DRAWING LOCATION.
12. HANDWASH STATION:
INSTALL OWNER SUPPLIED HANDWASH STATION AS PER DRAWING
LOCATION @ 900mm ABOVE FLOOR.
13. CLOSER:
DEADBOLT. INSTALL OWNER SUPPLIED DEADBOLT PRIVACY. D40S RHO 620
14. WASHROOM SIGNS:
SUPPLY AND INSTALL PLASTIC UNIVERSAL LANGUAGE SIGNS ON OUTSIDE
OF DOORS, WHITE SYMBOLS WITH BLUE BACKGROUND.
15. SHELF SURFACE MOUNT:
SUPPLY AND INSTALL 200mm DEEP, 400mm WIDE, STAINLESS STEEL SHELF.